

2017 Progress Report

January 2017 - June 2017

*Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin*

FID No. 816009920

BRRTS Nos.

Amoco Terminal (02-16-000331)

Amoco Barge Dock - Manifold & AST Area (02-16-117873)

Amoco Barge Dock - OW Separator & Loading Rack (02-16-297979)

Antea Group Project No. WISUP171

August 4, 2017

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2017 Progress Report

*Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin*

1.0 INTRODUCTION AND SCOPE OF WORK

Antea®Group is submitting this progress report documenting work conducted from January 1 to June 30, 2017 at the Former Amoco Terminal in Superior, Wisconsin. The Former Amoco Terminal is comprised of two investigation areas, the Terminal and the Barge Dock.

The work conducted from January through June 2017 included:

- **Groundwater Monitoring**
 - 105 wells were gauged and 13 wells were sampled during May and June, 2017. Groundwater samples, one duplicate and two trip blanks were submitted for laboratory analysis for Petroleum Volatile Organic Compounds (PVOC) and Naphthalene. Well gauging data and analytical results are presented in **Section 3.1 and 3.2**, respectively.
- **Barge Dock Phase II LNAPL Skimming System Operation, Maintenance, and Monitoring**
 - The seasonal Phase II system operated without interruption from May 2 through June 30, 2017. System data was collected during 10 monitoring events. Phase II system data is presented in **Section 3.3**.
- **Extended Duration LNAPL Recovery Tests**
 - The MWAST-4 system (a seasonal skimming pump tied into the Phase II System) operated without interruption from May 2 through June 30, 2017. System data was collected during 10 monitoring events during the May through June operating season. MWAST-4 system data is presented in **Section 3.4**.
 - A portable LNAPL skimming system also operated in well MW-32 as part of an extended duration LNAPL recovery test. This system operated with limited interruption from May 3 through June 30, 2017; system data was collected during 10 monitoring events. MW-32 system data is presented in **Section 3.6**.

2.0 SITE LOCATION AND BACKGROUND

The Former Amoco Terminal is located at 2904 Winter Street in Superior, Wisconsin in the SE ¼ of the NE ¼ of Section 16, Township 49 North Range 14 West, Douglas County, Wisconsin (NE ¼ Sec. 25, SE ¼, Sec. 24 T24N, R20E). The Former Amoco Terminal is comprised of two investigation areas, the Terminal (BRRTs #02-16-000331) and the Barge Dock (BRRTs #02-16-117873, #02-16-297979). The Terminal, which was sold by BP in July 2000 to RRS Inc., is 42 acres and has been subdivided for commercial redevelopment. The Barge Dock is 12.6 acres, 3,900 feet long by approximately 125 to 136 feet wide; the two investigation areas are separated by Winter Street and a railroad right of way. An area properties map illustrating the location of the Terminal and Barge Dock and identifying the

associated Bureau for Remediation and Redevelopment Tracking System (BRRTS) numbers for properties surrounding the site is included as **Figure 1**. An area properties map illustrating the location of BRRTS numbers for the properties which make up the Former Amoco Terminal site is included as **Figure 2**. A map illustrating the wells included in the Amoco Barge Dock – Manifold & AST Area (BRRTs #02-16-117873, #02-16-297979) and the Terminal Area (BRRTs #02-16-00033) is included as **Figure 3**.

The Former Amoco Terminal has been used for petroleum storage by various entities since the late 1800s. It had been used by Amoco and its predecessors as a bulk petroleum storage terminal from 1908 until 1999. The Terminal formerly operated with ASTs, an office building, truck loading racks, and a railroad loading rack. The Barge Dock formerly included underground and above ground pipelines, a manifold, ASTs, a railroad loading rack, and a truck loading rack. All Amoco petroleum operations ceased at both properties in 1999. Tanks, rail lines, and loading racks have been removed. Pipelines that connected the Barge Dock to the Terminal have also been removed within the boundaries of the Barge Dock property.

Building expansion in the Winter Business Park (**Figure 1**) included the construction of FedEx Ground Package System at 2929 Halvor Lane in October 2005. In July of 2016, construction of Guardian Pest solutions was completed at 3131 Halvor Lane. Four additional terminal land parcels remain available for commercial and/or industrial development as of June 2017.

3.0 ACTIVITIES COMPLETED JANUARY 1 THROUGH JUNE 30, 2017

3.1 Groundwater Gauging and Bailing

During multiple field mobilization events from May through June, 2017, 29 of the 29 Terminal area wells, 64 of the 64 wells on the Amoco Barge Dock – Manifold & AST area, and 13 of the 13 North Barge area wells were gauged for depth to water and depth to product values. Wells that had LNAPL thicknesses of approximately 1 foot or greater were also bailed. All groundwater and LNAPL measurements were obtained using a water level indicator or an oil/water interface probe, which indicates when a probe is in contact with the groundwater or LNAPL in the well. All of the measurements were recorded to the nearest 0.01-foot. The wells gauged are listed below and can be found in the 2017 Groundwater Sampling Plan (**Table 1**). Select wells that were bailed are also listed below. Groundwater and LNAPL gauging data since 1988 are included in **Table 2** (Terminal) and since 2003 in **Table 3** (Barge Dock). LNAPL extent maps constructed with data collected in June 2017 and earlier historical data are presented as **Figure 8** and **Figure 9**. Historic LNAPL and groundwater hydrographs are presented for select monitoring wells on both the Terminal and Barge Dock parcels in **Appendix C**. Groundwater contour maps constructed with data collected from the June 13-14th, 2017 ground water sampling event are presented as **Figure 4** (Barge Dock, shallow wells) and **Figure 5** (Barge Dock, deep wells).

- Select wells shown in **Appendix C** demonstrate a rise in groundwater levels from May-June 2016 levels, as well as minimal LNAPL thicknesses in a majority of the wells. Wells that demonstrate recoverable LNAPL thicknesses such as MRW-3 and LRMW-7 are gauged and bailed on a more frequent schedule.
- Wells gauged during May 2 through June 30, 2017:
 - Barge Dock BRRTs #02-16-297979: MWOW-1, MWOW-2, MWOW-3, MWOW-5, MWRR-1, MWRR-2, MWRR-4, MWRR-8, MWBD-1, MWBD-1D, LRMW-9, LRMW-10, LRMW-11.
 - Manifold Area BRRTs #02-16-117873: LRMW-1, LRMW-2, LRMW-3, LRMW-4, LRMW-5, LRMW-7, LRMW-6, LRMW-8, MRW-1, MRW-2, MRW-3, MRW-4, MRW-5, MRW-6, MRW-7, MRW-8, MRW-9, MRW-10, MWAST-2, MWAST-3, MWAST-4, MWAST-6, MWAST-8, MWAST-9, MWM-3, MWM-4, MWM-6, MWM-7, MWT-2S, MWT-2D, RWAST-1, RWAST-2, MWM-2, MWM-2D, MW-17, MW-30S, MW-30D, MW-30DD, MW-31, MW-32, MW-33, MW-34, MW-36S, MW-36D, MW-36DD, MW-37S, MW-37D, MW-37DD, MW-38S, MW-38D, MW-40S, MW-40D, MW-41S, MW-41D, MW-45S, MW-45D, MW-46S, MW-46D, MW-48S, MW-48D, MW-49S, MW-49D, MWM-7D, MWM-9RS, MWM-9RD, MWM-10S, MWM-10D, RW-8, RW-9.
 - Terminal BRRTs #02-16-00033: EW-6, EW-7, EW-8, EW-9, EW-10, EW-11, MW-3, MW-10, MW-14, MW-16, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-35, MW-47, RW-1, RW-3, RW-4, RW-5, RW-6, MWT-6.
- Wells bailed during May 2 through June 30, 2017:
 - Manifold Area BRRTs #02-16-117873: RW-9, MW-32, MWM-6, MWAST-2, MWAST-6, LRMW-2, LRMW-3, LRMW-4, LRMW-5, LRMW-7, LRMW-11, MRW-3, MRW-4.
 - Terminal BRRTs #02-16-00033: MW-16, RW-1, RW-4, RW-6, EW-11, MW-23, MW-26, MW-27.
- Groundwater contour maps (**Figures 4 and 5**) constructed from data collected from 13 wells during the June 2017 groundwater sampling event (**Section 3.2**) illustrate a prevailing north-northwest groundwater flow direction on the Barge Dock, consistent with historical data collected at the site.

3.2 Groundwater Sampling

Groundwater samples were collected during the June 2017 semi-annual sampling event from 13 vertical delineation monitoring wells. A minimum of 3 well volumes were purged from each well prior to sampling and groundwater samples were retrieved using dedicated disposable well bailers. Water samples were transferred to containers provided by Pace Analytical Services, Inc. (Pace) of Green Bay, Wisconsin with the appropriate preservative and stored on ice until being submitted for analysis. All groundwater samples were submitted to Pace for laboratory analysis of PVOCs and Naphthalene. Chain of custody records are provided with all laboratory reports. The wells sampled are listed below and can be found in **Table 1**. Copies of the groundwater analytical laboratory reports are included in **Appendix A**. Groundwater analytical results since 1988 are included in **Table 4** (Terminal) and since 2003 in **Table 5** (Barge Dock).

- The following 13 wells were sampled during June 2017: MW-48S, MWM-2D, MW-49D, MW-49S, MW-48D, MWBD-1D, MWM-10D, MW-36D, MWM-7D, MW-30D, MWM-9RD, MW-37D, and MWT-2D.

- The following wells were found to exceed the Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (NR 140 ES) for Benzene (5 µg/L) in June 2017: MWM-10D (1,080 µg/L), MW-36D (1,920 µg/L), MWM-7D (2,010 µg/L), MWM-9RD (2,690 µg/L), MW-37D (3,020 µg/L), MWBD-1D (156 µg/L), MW-30D (2,070 µg/L), MWT-2D (3,440 µg/L), MW-48D (12.3 µg/L).
 - The following wells were found to exceed the NR 140 ES for Naphthalene (100 µg/L) in June 2017: MW-30D (196 µg/L), MWT-2D (167 µg/L).
 - The following well was found to exceed the NR 140 ES for Methyl Tertiary Butyl Ether (MTBE) (60 µg/L) in June 2017: MWT-2D (115 µg/L).
 - There were no exceedances in the NR 140 ES for Toluene (800 µg/L) in June 2017.
- The areal extent of the dissolved-phase benzene plume in the shallow (water table) zone on the Barge Dock parcel, from the June 2017 groundwater sampling data, is illustrated on **Figure 6**.
 - The Barge Dock dissolved-phase Benzene plume in the deep vertical delineation zone extends west of the manifold and beneath the C. Reiss Coal property to the west edge of the Hallett Dock property. The areal extent of the dissolved-phase Benzene plume delineated by the deeper wells in the surficial aquifer is illustrated on **Figure 7**. The plume boundary around wells MW-45S and MW-45D is inferred based on 2016 benzene concentration data, as these two wells were not sampled during the June 2017 sampling event.
 - Plume boundaries shown in **Figure 7** remain consistent with historical data. Dissolved phase benzene concentrations at recently constructed vertical delineation wells (September 2016) MW-48D and MW-49D are consistent with 2011 groundwater sampling results. Groundwater sampling analytical results from 2011 include dissolved benzene concentrations of 10.7 µg/L for GP210 and <1.0 µg/L for GP209, while 2017 groundwater sample results were 12.3 µg/L for MW-48D and <1.0 µg/L for GP209.

Historic dissolved Benzene/total Benzene, Toluene, EthylBenzene, Xylene (BTEX), and groundwater hydrographs are presented for eight of the sampled wells (MWM-10D, MW-36D, MWM-7D, MWM-9RD, MW-37D, MWBD-1D, MW-30D, MWT-2D) in **Appendix B**. Sampled wells MW-48S, MW-48D, MW-49S, MW-49D, and MWM-2D were not included due to recent installation and limited historical perspective. Dissolved Benzene hydrographs show long term decreasing or stable trends of Benzene concentrations in six of the eight wells (MW-36D, MWM-7D, MWM-9RD, MWBD-1D, MW-30D, MWT-2D). While MW-37D has demonstrated benzene concentration increases from May 2013 to October 2015, concentrations have stabilized over the last four sampling events. Benzene concentrations in well MWM-10D continue to remain below the historical high concentration.

The percent reduction from the historical high benzene concentrations to the June 2017 benzene concentrations in the 8 key vertical delineation wells are summarized in the table below. The benzene concentration in wells MW-48S and MWM-2D remained non-detect.

Well	June 2017 Benzene Concentration (µg/L)	Historical High Benzene Concentration (µg/L)	Date of Historical High Benzene Concentration	% Reduction From Historical High Benzene Concentration
MWT-2D	3,440	5,740	October 2015	40%
MW-37D	3,020	3,090	October 2015	2%
MW-36D	1,920	2,270	July 2011	15%
MW-30D	2,070	2,560	October 2015	19%
MWM-10D	1,080	1,230	April 2010	12%
MWM-9RD	2,690	5,540	April 2011	51%
MWM-7D	2,010	2,340	October 2009	14%
MWBD-1D	156	213	May 2016	27%

3.3 Operation and Maintenance of Phase II System, May 2 – June 30, 2017

The seasonal Phase II system operated without interruption from May 2 through June 30, 2017. System data was collected during 10 monitoring events during the referenced period. The Phase II System was installed in 2012 as a spring through fall seasonally operated system with above-grade piping to address the LNAPL plume extending from the Barge Dock manifold across the C. Reiss Coal property to the west. The system originally consisted of a network of seven recovery wells, of which five wells remain active (two wells at the western extent of the heritage LNAPL plume no longer contain sufficient LNAPL for system recovery). Each active recovery well contains a pneumatic skimming pump that tracks the water table using a floating head intake and removes LNAPL that accumulates in recovery wells. Recovered LNAPL is pumped into a 7,000-gallon capacity, double-walled, steel AST located next to the system building. Cumulative Phase II System LNAPL recovery is illustrated on **Figures 10 a-c** and summarized in **Table 6**. The Phase II system is monitored on an approximate weekly basis. **Figures 13 a-c** show the total LNAPL recovery from the Terminal and Barge Dock by system type since the beginning of site remediation efforts. Approximately 95% of LNAPL recovered from Barge Dock wells is from the Finger Plume area (mobile skimmer, Phase I system, Phase II system). The WDNR Operation, Maintenance, Monitoring, and Optimization Form is included in **Appendix D**.

- The total amount of LNAPL recovered by the Phase II skimming system from May 2 to June 30, 2017 was approximately 948 gallons.
- The Phase II system recovery rate May 2 through June 30, 2017 was 11.1 gallons per day or approximately 2.22 gallons per day per active recovery well.
- Total LNAPL recovered since system startup in June 2012 is approximately 33,477 gallons.
- The LNAPL recovery continues to decrease over time (**Figures 10a-c**). **Figure 10c** highlights the progressive decrease in LNAPL recovery rate (gallons/day) one month after system startup during the 2012 operating season (153.3 gal/day) to one month after system startup during the 2017 operating season (12.4 gal/day).

- Antea Group recommends continued operation of the Phase II recovery system during the 2017 operating season.

3.4 MWA-4 Extended Duration LNAPL Recovery Test

An extended duration LNAPL recovery test was continued at monitoring well MWA-4 to evaluate LNAPL recovery potential. The test was initiated in July 2015 and resumed seasonal operation on May 2 and continued through June 30, 2017 without interruption. MWA-4 contains a pneumatic skimming pump that tracks the water table using a floating head intake and removes LNAPL that accumulates in the recovery well. Recovered LNAPL is pumped through a double-walled product line into 1,000-gallon capacity, double-walled AST located in a fenced enclosure adjacent to the remediation system building.

The extended LNAPL recovery test in MWA-4 was initiated on July 9, 2015 and operated through seasonal system shut down on November 3, 2015. The total volume of LNAPL recovered during 2015 was approximately 697 gallons. The recovery rate decreased sharply after initial startup; a month after startup the recovery rate was approximately 4.0 gallons/day, down from 18.8 gallons/day one week into the test.

The extended LNAPL recovery test at MWA-4 was restarted on April 21, 2016 and continued through November 7, 2016. The total volume of LNAPL recovered during the 2016 operating period, was approximately 478 gallons.

The extended LNAPL recovery at MWA-4 was restarted on May 2, 2017 and continued through June 30, 2017. During this operating period, system data was collected during 10 monitoring events. The total volume of LNAPL recovered from MWA-4 during the May to June operating period was approximately 3.34 gallons. The initial system recovery rate started at little or no LNAPL recovery, and 1.17 ft of LNAPL was gauged in MWA-4 on May 2, 2017. Over the four monitoring events during the period May 8-June 14, 2017, no additional LNAPL was recovered, and 0.01-0.00 feet of product was gauged in the well. The last gauging event of the reporting period measured 0.17 ft of LNAPL in the well on June 21, 2017 (**Table 3**), which is an insufficient LNAPL thickness for system operation. Cumulative LNAPL recovery from MWA-4 is illustrated in **Figure 11** and summarized in **Table 7**.

Results suggest limited future LNAPL recovery potential from MWA-4. Area of Concern 6 (AOC) on the LNAPL Extent Map (**Figure 8**), includes MWA-4 and formerly included wells RWAST-02 and MWA-8. LNAPL thickness decreased in MWA-8 and RWAST-02 as the MWA-4 recovery test progressed in 2015. MWA-8 had no measurable LNAPL during the last 19 gauging events during the period October 2015 to May 2017 (**Table 3**) and RWAST-02 had no measurable LNAPL during the last 21 gauging events during the period October 2015 to May 2017. RWAST-02, approximately 20 feet from MWA-4, has not exhibited product since August 17, 2015 (0.01 feet). MWA-8, approximately 100 feet from MWA-4, has not exhibited product since September 15, 2015 (0.02 feet).

3.5 RW-09 Extended Duration LNAPL Recovery Test

In July 2016, a 4-inch-diameter Alpha Ferret pneumatic skimming pump was installed in recovery well RW-09 after measured LNAPL thickness in the well increased from 1.66 feet in April 2016 to 5.13 feet of LNAPL in May 2016. The skimming pump has a fixed intake which removes LNAPL that accumulates in the recovery well. Recovered LNAPL is pumped through a high density polyethylene (HDPE) product line into a 300-gallon portable Trinity Tank that was

deployed next to the recovery system. An electric hookup was installed by Superior Water, Lights, and Power on August 20, 2015 to provide electricity to the trailer mounted LNAPL Skimming System.

The LNAPL recovery test was conducted at RW-09 from July 6 through September 15, 2016. Total volume of LNAPL recovered during the RW-09 test was approximately 53.6 gallons, and LNAPL recovery decreased significantly over time. No LNAPL was effectively recovered over the last four monitoring events during the period August 26 to September 15, 2016 at which time the skimmer pump operation was terminated.

LNAPL recovery at RW-09 was not resumed in 2017 due to insufficient LNAPL thicknesses (**Table 3**) for skimming pump system recovery. Regular gauge and bail events will be conducted, and automated recovery will be re-started if LNAPL thicknesses increase.

3.6 MW-32 Extended Duration LNAPL Recovery Test

Monitor well MW-32 contains a 2-inch-diameter Alpha Ferret pneumatic skimming pump with a fixed interval LNAPL intake that removes LNAPL that accumulates in the well. Recovered LNAPL is pumped through a HDPE product line into a portable 300-gallon Trinity Tank that was installed next to the portable recovery system trailer. An electric hookup was installed by Superior Water, Lights, and Power on August 20, 2015 to provide electricity to the trailer mounted LNAPL Skimming System.

The first and second LNAPL recovery tests at MW-32 were conducted in 2015. A third LNAPL recovery test was conducted at monitoring well MW-32 during the period of July 6 through November 8, 2016. Total volume of LNAPL recovered during the first, second, and third long duration tests was approximately 4.7, 43, and 562.7 gallons, respectively.

2017 LNAPL recovery at MW-32 was started on May 3, 2017 and has continued through June 30, 2017; system data was collected during 10 monitoring events. On June 21, 2017 the first 300 gallon LNAPL holding tank was found to be reaching capacity, and the system was shut down for approximately one hour a second holding tank was positioned and recovery lines were switched. The remainder of the operating period ran without interruption.

Total volume of LNAPL recovered from May 3 to June 30, 2017 was approximately 241 gallons. Cumulative LNAPL recovered for each test is summarized in **Table 9**. Cumulative LNAPL recovered during the 2017 recovery test is illustrated in **Figure 12**. The increase in LNAPL recovery from MW-32 during the 2017 operating season in comparison to previous recovery, is likely attributed to an increase in groundwater elevation that occurred at the site. Based on the graphs in **Appendix E**, groundwater elevations were approximately 2 feet higher than conditions observed in 2015. Antea Group recommends continued operation of the MW-32 recovery pump during the third and fourth quarters of the 2017 operating season if sufficient LNAPL is present in MW-32 for skimmer pump LNAPL recovery.

3.7 Waste Disposal

No waste disposal activities have been required from January to June 2017. Based on Antea Group's observations and calculations (**Table 6, Table 7, Table 8, and Table 9**) of product and water recovery, it is expected that an LNAPL disposal will be required in the middle of the third quarter 2017 for the two portable tanks currently used for LNAPL recovery at MW-32. The first tank reached capacity on June 21, 2017.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the available site information, Antea Group makes the following conclusions and recommendations:

Conclusions:

- Semi-annual groundwater sampling analytical results continue to exhibit stable or decreasing conditions for the majority of site area delineation wells including decreasing or stable conditions at 11 of 13 key wells on the C. Reiss Coal and Hallett Dock parcels (MW-36D, MW-48S, MW-48D, MW-49S, MW-49D, MWM-2D, MWM-7D, MWM-9RD, MWBD-1D, MW-30D, MWT-2D; **Appendix B**).
- Recently installed vertical delineation wells (September 2016) MW-48D and MW-49D remain consistent with 2011 groundwater sampling data at temporary probe locations GP210 and GP209.
- LNAPL recovery by the Phase II system has declined significantly with consistent rates of decline observed over five operating seasons; the Phase II system recovered approximately 2.68 gpd/operating well four weeks after system start up in 2016 and approximately 2.48 gpd/operating well 4 weeks after system start up in 2017 (**Figure 10a-c**).
- LNAPL recovery results at MWASt-4 and the absence of nearby LNAPL in wells RWAST-2 and MWASt-8 indicate limited future LNAPL recovery.
- Dissolved-phase groundwater impact is delineated below the NR 140 ES by June 2017 analytical results by MWBD-1D, MW-49D, MW-49S, and MW-48S (Barge Dock well network, **Table 5**).
- MW-32 continues to exhibit favorable LNAPL recovery trends (**Table 8**). Surrounding wells (RW-08 and RW-09) have demonstrated limited LNAPL accumulations.
- North Barge Dock wells in AOCs 9-13 continue to exhibit limited to no LNAPL thicknesses.

Recommendations:

- Continue operation of the Phase II, MWASt-4, and MW-32 LNAPL recovery systems through the end of the 2017 operating season.
- Continue to monitor RW-9 for LNAPL accumulation and initiate recovery efforts if LNAPL thicknesses increase.
- Continue semi-annual groundwater monitoring including gauging and sampling wells included on the 2017 Groundwater Sampling Plan (**Table 12**).
- Prepare a Site Investigation Completion Report for BRTTs #02-16-297979; estimated completion by January 26, 2018.

- Prepare a Site Investigation Completion Report for BRTTs #02-16-000331; estimated completion by January 26, 2018.
- Prepare a response report to February 2016 EA Superior Water Front Characterization Report; estimated completion by January 26, 2018.

5.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.



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Date: 8/3/2017



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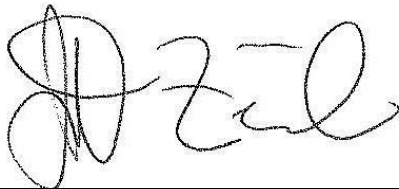
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Tables

Table 1 - 2017 Groundwater Sampling Plan

Table 2 - Groundwater and LNAPL Gauging Data - Terminal

Table 3 - Groundwater and LNAPL Gauging Data - Barge Dock

Table 4 - Groundwater Analytical Results - Terminal

Table 5 - Groundwater Analytical Results - Barge Dock

Table 6 - Phase II System LNAPL Recovery

Table 7 - MWA-4 Extended Duration LNAPL Recovery Test

Table 8 - Portable RW-09 Pump - LNAPL Recovery Summary

Table 9 - Portable MW-32 Pump - LNAPL Recovery Summary

Table 1
Groundwater Sampling Plan - 2017
Former Amoco Terminal
Superior, Wisconsin

Area/Well	Last Benzene µg/l	2017 Spring Sampling	2017 Fall Sampling	Semi-Annual Gauge DTW/LNAPL	Annual Gauge DTW/LNAPL
EW-5	LNAPL				X
EW-6	LNAPL				X
EW-7	LNAPL				X
EW-8	No LNAPL				X
EW-9	No LNAPL				X
EW-10	No LNAPL				X
EW-11	LNAPL			X	X
MW-10	No LNAPL				X
MW-14	LNAPL				X
MW-16	LNAPL			X	X
MW-17	No LNAPL				X
MW-22	LNAPL				X
MW-23	LNAPL			X	X
MW-24	LNAPL				X
MW-25	LNAPL				X
MW-26	LNAPL				X
MW-27	LNAPL			X	X
MW-30D	2070	X	X	X	X
MW-30DD	No LNAPL				X
MW-30S	No LNAPL				X
MW-31	No LNAPL				X
MW-32	LNAPL			X	X
MW-33	No LNAPL				X
MW-36D	1920	X	X	X	X
MW-36DD	No LNAPL				X
MW-36S	No LNAPL				X
MW-37D	3020	X	X	X	X
MW-37DD	No LNAPL				X
MW-37S	No LNAPL				X
MW-38D	No LNAPL		X		X
MW-38S	No LNAPL		X		X
MW-40D	No LNAPL		X		X
MW-40S	No LNAPL		X		X
MW-41D	No LNAPL		X		X
MW-41S	No LNAPL		X		X
MW-45D	No LNAPL		X		X
MW-45S	No LNAPL		X		X
MW-46D	No LNAPL		X		X
MW-46S	No LNAPL		X		X
MWT-2D	3440	X	X	X	X
MWT-2S	No LNAPL				X
MWT-6	No LNAPL				X
RW-1	LNAPL			X	X
RW-3	No LNAPL				X
RW-4	LNAPL			X	X
RW-5	LNAPL				X
RW-6	LNAPL			X	X
RW-8	No LNAPL				X
RW-9	LNAPL			X	X
MW-3	No LNAPL				X
MW-35	No LNAPL				X
MW-34	No LNAPL				X
MW-47	No LNAPL				X
MWAST-2	LNAPL			X	X
MWAST-3	No LNAPL				X
MWAST-4	LNAPL				X
MWAST-6	LNAPL				X
MWAST-8	No LNAPL				X
MWAST-9	No LNAPL				X
RWAST-1	No LNAPL				X
RWAST-2	No LNAPL				X
LRMW-1	No LNAPL				X
LRMW-2	LNAPL			X	X
LRMW-3	LNAPL			X	X
LRMW-4	LNAPL			X	X
LRMW-5	LNAPL			X	X

Table 1
Groundwater Sampling Plan - 2017
Former Amoco Terminal
Superior, Wisconsin

Area/Well	Last Benzene µg/l	2017 Spring Sampling	2017 Fall Sampling	Semi-Annual Gauge DTW/LNAPL	Annual Gauge DTW/LNAPL
LRMW-6	No LNAPL				X
LRMW-7	LNAPL			X	X
MWM-2	No LNAPL				X
MWM-2D	<0.40	X	X	X	X
MWM-3	LNAPL				X
MWM-4	No LNAPL				X
MWM-6	LNAPL				X
MWM-7	No LNAPL				X
MWM-7D	2010	X	X	X	X
MWM-9RD	2690	X	X	X	X
MWM-9RS	No LNAPL				X
MWM-10D	1080	X	X	X	X
MWM-10S	No LNAPL				X
MRW-1	LNAPL				X
MRW-2	LNAPL				X
MRW-3	LNAPL			X	X
MRW-4	LNAPL				X
MRW-5	LNAPL				X
MRW-6	LNAPL				X
MRW-7	LNAPL				X
MRW-8	LNAPL				X
MRW-9	LNAPL				X
MRW-10	LNAPL				X
LRMW-8	LNAPL				X
LRMW-9	No LNAPL				X
LRMW-10	LNAPL				X
LRMW-11	LNAPL				X
MW-48S	<0.40	X	X	X	X
MW-48D	12	X	X	X	X
MW-49S	<0.40	X	X	X	X
MW-49D	1.0	X	X	X	X
MWRR-1	No LNAPL				X
MWRR-2	No LNAPL				X
MWRR-4	No LNAPL				X
MWRR-8	LNAPL				X
MWOW-1	LNAPL				X
MWOW-2	No LNAPL				X
MWOW-3	No LNAPL				X
MWOW-5	No LNAPL				X
MWBD-1	No LNAPL				X
MWBD-1D	156	X	X	X	X
Totals:		13	23	29	107

NOTES:

X..... = Wells included in the Amoco Barge Dock-Mainfold & AST Area 2017 Sampling Plan

< = The compound was not detected at or above the indicated method detection limit. Unlisted detection limit concentrations were unavailable.

ug/L = Micrograms per liter (equivalent to parts per billion)

LNAPL = LNAPL in Well

No LNAPL = No LNAPL in Well

"**BOLD**" = The indicated concentration exceeds the NR 140 ES

NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	03/23/88	635.20	637.80	612.70	603.70	20.62	4.97	25.59	19.14	616.06	Yes	
MW-01	09/08/88	635.20	637.80	612.70	603.70	20.30	4.95	25.25	18.82	616.38	Yes	
MW-01	09/20/88	635.20	637.80	612.70	603.70	20.56	4.42	24.98	18.96	616.24	Yes	
MW-01	04/27/89	635.20	637.80	612.70	603.70	20.56	2.25	22.81	18.47	616.73	Yes	
MW-01	05/18/89	635.20	637.80	612.70	603.70	20.06	5.02	25.08	18.59	616.61	Yes	
MW-01	06/30/89	635.20	637.80	612.70	603.70	19.43	4.10	23.53	17.76	617.44	Yes	
MW-01	07/12/89	635.20	637.80	612.70	603.70	19.82	4.22	24.04	18.17	617.03	Yes	
MW-01	07/26/89	635.20	637.80	612.70	603.70	19.98	6.31	26.29	18.81	616.39	Yes	
MW-01	07/27/89	635.20	637.80	612.70	603.70	20.03	6.87	26.90	18.98	616.22	Yes	
MW-01	09/03/89	635.20	637.80	612.70	603.70	20.19	3.97	24.16	18.49	616.71	Yes	
MW-01	11/16/89	635.20	637.80	612.70	603.70	20.12	9.52	29.64	19.67	615.53	Yes	
MW-01	11/29/89	635.20	637.80	612.70	603.70	20.32	9.62	29.94	19.89	615.31	Yes	
MW-01	12/01/89	635.20	637.80	612.70	603.70	20.42	10.70	31.12	20.24	614.96	Yes	
MW-01	12/02/89	635.20	637.80	612.70	603.70	20.46	8.01	28.47	19.67	615.53	Yes	
MW-01	06/01/90	635.20	637.80	612.70	603.70	12.10	8.75	20.85	11.48	623.72	Yes	
MW-01	06/19/90	635.20	637.80	612.70	603.70	20.64	3.17	23.81	18.76	616.44	Yes	
MW-01	06/27/90	635.20	637.80	612.70	603.70	20.70	3.97	24.67	19.00	616.20	Yes	
MW-01	07/05/90	635.20	637.80	612.70	603.70	20.90	0.44	21.34	18.40	616.80	Yes	
MW-01	07/13/90	635.20	637.80	612.70	603.70	20.81	3.77	24.58	19.06	616.14	Yes	
MW-01	07/17/90	635.20	637.80	612.70	603.70	20.59	4.99	25.58	19.12	616.08	Yes	
MW-01	07/25/90	635.20	637.80	612.70	603.70	20.80	4.30	25.10	19.17	616.03	Yes	
MW-01	08/09/90	635.20	637.80	612.70	603.70	20.70	4.32	25.02	19.08	616.12	Yes	
MW-01	08/27/90	635.20	637.80	612.70	603.70	20.72	3.12	23.84	18.82	616.38	Yes	
MW-01	09/06/90	635.20	637.80	612.70	603.70	20.35	3.70	24.05	18.59	616.61	Yes	
MW-01	01/04/91	635.20	637.80	612.70	603.70	20.00	5.89	25.89	18.73	616.47	Yes	
MW-01	01/30/91	635.20	637.80	612.70	603.70	20.25	8.48	28.73	19.57	615.63	Yes	
MW-01	04/24/91	635.20	637.80	612.70	603.70	20.36	3.32	23.68	18.51	616.69	Yes	
MW-01	06/06/91	635.20	637.80	612.70	603.70	18.93	3.14	22.07	17.04	618.16	Yes	
MW-01	07/09/91	635.20	637.80	612.70	603.70	17.55	2.70	20.25	15.56	619.64	Yes	
MW-01	08/06/91	635.20	637.80	612.70	603.70	16.90	2.98	19.88	14.97	620.23	Yes	
MW-01	09/04/91	635.20	637.80	612.70	603.70	17.10	2.96	20.06	15.17	620.03	Yes	
MW-01	10/08/91	635.20	637.80	612.70	603.70	16.17	3.75	19.92	14.42	620.78	Yes	
MW-01	11/08/91	635.20	637.80	612.70	603.70	17.03	2.95	19.98	15.10	620.10	Yes	
MW-01	12/03/91	635.20	637.80	612.70	603.70	14.98	3.95	18.93	13.27	621.93	Yes	
MW-01	01/07/92	635.20	637.80	612.70	603.70	17.44	2.62	20.06	15.43	619.77	Yes	
MW-01	02/04/92	635.20	637.80	612.70	603.70	18.30	2.50	20.80	16.26	618.94	Yes	
MW-01	03/03/92	635.20	637.80	612.70	603.70	18.72	2.66	21.38	16.72	618.48	Yes	
MW-01	09/24/92	635.20	637.80	612.70	603.70	16.05	2.23	18.28	13.95	621.25	Yes	
MW-01	10/14/92	635.20	637.80	612.70	603.70	17.14	2.34	19.48	15.07	620.13	Yes	
MW-01	06/25/93	635.20	637.80	612.70	603.70	13.91	2.20	16.11	11.81	623.39	Yes	
MW-01	10/28/93	635.20	637.80	612.70	603.70	18.25	1.57	19.82	16.00	619.20	Yes	
MW-01	01/29/94	635.20	637.80	612.70	603.70	19.08	1.60	20.68	16.84	618.36	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	04/27/94	635.20	637.80	612.70	603.70	18.49	1.76	20.25	16.29	618.91	Yes	
MW-01	07/21/94	635.20	637.80	612.70	603.70	16.81	2.48	19.29	14.77	620.43	Yes	
MW-01	10/25/94	635.20	637.80	612.70	603.70	16.90	2.66	19.56	14.90	620.30	Yes	
MW-01	11/02/94	635.20	637.80	612.70	603.70	17.34	0.00	17.34	14.74	620.46	Yes	
MW-01	02/01/95	635.20	637.80	612.70	603.70	19.70	0.82	20.52	17.29	617.91	Yes	
MW-01	04/04/95	635.20	637.80	612.70	603.70	19.80	3.21	23.01	17.93	617.27	Yes	
MW-01	07/12/95	635.20	637.80	612.70	603.70	17.94	3.53	21.47	16.14	619.06	Yes	
MW-01	03/13/96	635.20	637.80	612.70	603.70	19.55	2.55	22.10	17.53	617.67	Yes	
MW-01	10/08/96	635.20	637.80	612.70	603.70	15.91	2.48	18.39	13.87	621.33	Yes	
MW-01	04/29/97	635.20	637.80	612.70	603.70	14.47	0.98	15.45	12.09	623.11	Yes	
MW-01	06/10/97	635.20	637.80	612.70	603.70	16.68	0.26	16.94	14.14	621.06	Yes	FP bailed 5/22/97
MW-01	11/03/98	635.20	637.80	612.70	603.70	17.73	2.55	20.28	15.71	619.49	Yes	
MW-01	03/02/99	635.20	637.80	612.70	603.70	19.65	0.91	20.56	17.26	617.94	Yes	
MW-01	10/07/99	635.20	637.80	612.70	603.70	15.88	0.07	15.95	13.30	621.90	Yes	
MW-01	11/09/99	635.20	637.80	612.70	603.70	18.58	0.03	18.61	15.99	619.21	Yes	bailed <0.1 gal. FP
MW-01	12/21/99	635.20	637.80	612.70	603.70	17.50	0.03	17.53	14.91	620.29	Yes	
MW-01	01/27/00	635.20	637.80	612.70	603.70	18.77	0.02	18.79	16.17	619.03	Yes	
MW-01	02/24/00	635.20	637.80	612.70	603.70	19.30	0.45	19.75	16.80	618.40	Yes	bailed 0.1 gal. FP
MW-01	03/31/00	635.20	637.80	612.70	603.70	18.98	0.04	19.02	16.39	618.81	Yes	
MW-01	04/20/00	635.20	637.80	612.70	603.70	17.74	0.36	18.10	15.22	619.98	Yes	bailed 0.2 gal. FP
MW-01	04/26/00	635.20	637.80	612.70	603.70	18.40	0.01	18.41	15.80	619.40	Yes	
MW-01	05/31/00	635.20	637.80	612.70	603.70	18.58	0.03	18.61	15.99	619.21	Yes	
MW-01	06/29/00	635.20	637.80	612.70	603.70	17.95	0.01	17.96	15.35	619.85	Yes	
MW-01	07/26/00	635.20	637.80	612.70	603.70	18.50	0.02	18.52	15.90	619.30	Yes	
MW-01	08/18/00	635.20	637.80	612.70	603.70	18.98	0.01	18.99	16.38	618.82	Yes	
MW-01	09/27/00	635.20	637.80	612.70	603.70	19.29	0.01	19.30	16.69	618.51	Yes	
MW-01	10/11/00	635.20	637.80	612.70	603.70	19.26	0.02	19.28	16.66	618.54	Yes	
MW-01	11/17/00	635.20	637.80	612.70	603.70	18.59	0.01	18.60	15.99	619.21	Yes	
MW-01	12/12/00	635.20	637.80	612.70	603.70	18.91	0.03	18.94	16.32	618.88	Yes	bailed 0.2 gal. FP
MW-01	01/18/01	635.20	637.80	612.70	603.70	19.26	0.02	19.28	16.66	618.54	Yes	bailed 0.1 gal. FP
MW-01	04/24/01	635.20	637.80	612.70	603.70	19.03	0.64	19.67	16.57	618.63	Yes	product abated using vactruck
MW-01	05/23/01	635.20	637.80	612.70	603.70	17.65	1.55	19.20	15.40	619.80	Yes	no product bailed
MW-01	06/19/01	635.20	637.80	612.70	603.70	17.49	1.56	19.05	15.24	619.96	Yes	
MW-01	07/26/01	635.20	637.80	612.70	603.70	18.81	1.03	19.84	16.44	618.76	Yes	
MW-01	08/31/01	635.20	637.80	612.70	603.70	18.85	1.12	19.97	16.50	618.70	Yes	
MW-01	09/26/01	635.20	637.80	612.70	603.70	18.88	1.39	20.27	16.59	618.61	Yes	
MW-01	10/24/01	635.20	637.80	612.70	603.70	18.72	1.52	20.24	16.46	618.74	Yes	
MW-01	12/20/01	635.20	637.80	612.70	603.70	18.76	1.19	19.95	16.43	618.77	Yes	
MW-01	01/22/02	635.20	637.80	612.70	603.70	19.37	1.39	20.76	17.08	618.12	Yes	
MW-01	02/26/02	635.20	637.80	612.70	603.70	20.07	0.96	21.03	17.69	617.51	Yes	
MW-01	03/20/02	635.20	637.80	612.70	603.70	20.23	0.89	21.12	17.83	617.37	Yes	
MW-01	04/24/02	635.20	637.80	612.70	603.70	18.63	1.88	20.51	16.45	618.75	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-01	05/15/02	635.20	637.80	612.70	603.70	17.95	2.11	20.06	15.83	619.37	Yes	
MW-01	06/27/02	635.20	637.80	612.70	603.70	18.43	1.53	19.96	16.18	619.02	Yes	
MW-01	07/25/02	635.20	637.80	612.70	603.70	18.40	1.65	20.05	16.17	619.03	Yes	
MW-01	08/20/02	635.20	637.80	612.70	603.70	18.10	1.34	19.44	15.80	619.40	Yes	
MW-01	09/30/02	635.20	637.80	612.70	603.70	17.12	1.33	18.45	14.82	620.38	Yes	
MW-01	11/05/02	635.20	637.80	612.70	603.70	16.73	1.34	18.07	14.43	620.77	Yes	
MW-01	12/23/02	635.20	637.80	612.70	603.70	19.04	1.09	20.13	16.69	618.51	Yes	
MW-01	01/28/03	635.20	637.80	612.70	603.70	19.79	0.96	20.75	17.41	617.79	Yes	
MW-01	02/19/03	635.20	637.80	612.70	603.70	20.11	0.76	20.87	17.68	617.52	Yes	
MW-01	04/17/03	635.20	637.80	612.70	603.70	20.81	0.62	21.43	18.35	616.85	Yes	
MW-01	05/15/03	635.20	637.80	612.70	603.70	20.76	0.51	21.27	18.28	616.92	Yes	
MW-01	06/10/03	635.20	637.80	612.70	603.70	19.98	0.78	20.76	17.56	617.64	Yes	
MW-01	10/23/03	635.20	637.80	612.70	603.70	19.65	2.02	21.67	17.51	617.69	Yes	
MW-01	12/03/03	635.20	637.80	612.70	603.70	19.69	1.94	21.63	17.53	617.67	Yes	
MW-01	04/19/04	635.81	637.60	612.70	603.70	20.45	0.98	21.43	18.88	616.93	Yes	
MW-01	07/28/04	635.81	637.60	612.70	603.70	18.82	1.03	19.85	17.26	618.55	Yes	
MW-01	11/15/04	635.81	637.60	612.70	603.70	17.60	0.98	18.58	16.03	619.78	Yes	
MW-01	04/18/05	635.81	637.60	612.70	603.70	18.70	0.01	18.71	16.91	618.90	Yes	
MW-01	10/11/05	635.81	637.60	612.70	603.70	NP	0.00	17.30	15.51	620.30	Yes	
MW-01	05/23/06	635.81	637.60	612.70	603.70	16.92	0.30	17.22	15.20	620.61	Yes	
MW-01	10/16/06	635.81	637.60	612.70	603.70	16.92	2.30	19.22	15.65	620.16	Yes	
MW-01	04/23/07	635.81	637.60	612.70	603.70	19.99	0.38	20.37	18.29	617.52	Yes	
MW-01	09/25/07	635.81	637.60	612.70	603.70	19.64	0.31	19.95	17.92	617.89	Yes	
MW-01	05/01/08	635.81	637.60	612.70	603.70	18.33	0.12	18.45	16.57	619.24	Yes	
MW-01	10/20/08	635.81	637.60	612.70	603.70	16.50	0.12	16.62	14.74	621.07	Yes	
MW-01	04/18/09	635.81	637.60	612.70	603.70	17.75	0.36	18.11	16.04	619.77	Yes	
MW-01	10/11/09	635.81	637.60	612.70	603.70	18.10	0.44	18.54	16.41	619.40	Yes	
MW-01	04/28/10	635.81	637.60	612.70	603.70	18.68	0.26	18.94	16.95	618.86	Yes	
MW-01	04/25/11	635.81	637.60	612.70	603.70	17.08	0.41	17.49	15.38	620.43	Yes	
MW-01	10/10/11	635.81	637.60	612.70	603.70	17.85	0.32	18.17	16.13	619.68	Yes	
MW-01	01/04/12	635.81	637.60	612.70	603.70	19.38	0.32	19.70	17.66	618.15	Yes	
MW-01	04/16/12	635.81	637.60	612.70	603.70	NP	0.00	19.84	18.05	617.76	Yes	
MW-01	06/26/12	635.81	637.60	612.70	603.70	NP	0.00	15.13	13.34	622.47	Yes	
MW-01	12/17/12	635.81	637.60	612.70	603.70	19.71	0.39	20.10	18.01	617.80	Yes	
MW-01	03/25/13	635.81	637.60	612.70	603.70	NM	NM	NM	NM	NM	NM	Too much snow on well
MW-01	05/05/13	635.81	637.60	612.70	603.70	NP	0.00	19.29	17.50	618.31	Yes	
MW-01	10/03/13	635.81	637.60	612.70	603.70	NP	0.00	18.51	16.72	619.09	Yes	
MW-02	03/23/88	635.20	637.39	619.80	610.70	20.37	2.76	23.13	18.80	616.40	No	
MW-02	09/08/88	635.20	637.39	619.80	610.70	20.57	2.53	23.10	18.95	616.25	No	
MW-02	09/20/88	635.20	637.39	619.80	610.70	20.70	2.55	23.25	19.09	616.11	No	
MW-02	04/27/89	635.20	637.39	619.80	610.70	20.76	2.33	23.09	19.10	616.10	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-02	05/18/89	635.20	637.39	619.80	610.70	20.28	2.20	22.48	18.59	616.61	No	
MW-02	06/30/89	635.20	637.39	619.80	610.70	20.16	2.52	22.68	18.54	616.66	No	
MW-02	07/12/89	635.20	637.39	619.80	610.70	21.05	2.00	23.05	19.31	615.89	No	
MW-02	07/26/89	635.20	637.39	619.80	610.70	20.01	2.72	22.73	18.43	616.77	No	
MW-02	07/27/89	635.20	637.39	619.80	610.70	20.06	2.72	22.78	18.48	616.72	No	
MW-02	09/03/89	635.20	637.39	619.80	610.70	20.37	2.20	22.57	18.68	616.52	No	
MW-02	11/16/89	635.20	637.39	619.80	610.70	20.13	2.57	22.70	18.52	616.68	No	
MW-02	11/29/89	635.20	637.39	619.80	610.70	20.23	2.02	22.25	18.50	616.70	No	
MW-02	12/01/89	635.20	637.39	619.80	610.70	20.45	2.40	22.85	18.80	616.40	No	
MW-02	12/02/89	635.20	637.39	619.80	610.70	20.50	2.56	23.06	18.89	616.31	No	
MW-02	05/04/90	635.20	637.39	619.80	610.70	20.95	2.03	22.98	19.22	615.98	No	
MW-02	06/01/90	635.20	637.39	619.80	610.70	20.45	2.85	23.30	18.90	616.30	No	
MW-02	06/19/90	635.20	637.39	619.80	610.70	20.47	2.45	22.92	18.83	616.37	No	
MW-02	06/27/90	635.20	637.39	619.80	610.70	20.64	2.73	23.37	19.07	616.13	No	
MW-02	07/05/90	635.20	637.39	619.80	610.70	21.09	2.38	23.47	19.44	615.76	No	
MW-02	07/13/90	635.20	637.39	619.80	610.70	20.85	2.45	23.30	19.21	615.99	No	
MW-02	07/17/90	635.20	637.39	619.80	610.70	20.58	2.64	23.22	18.99	616.21	No	
MW-02	07/25/90	635.20	637.39	619.80	610.70	20.84	2.58	23.42	19.23	615.97	No	
MW-02	08/09/90	635.20	637.39	619.80	610.70	20.54	2.82	23.36	18.99	616.21	No	
MW-02	08/27/90	635.20	637.39	619.80	610.70	20.81	2.50	23.31	19.18	616.02	No	
MW-02	09/06/90	635.20	637.39	619.80	610.70	20.19	3.36	23.55	18.76	616.44	No	
MW-02	01/04/91	635.20	637.39	619.80	610.70	19.66	3.62	23.28	18.29	616.91	No	
MW-02	01/30/91	635.20	637.39	619.80	610.70	19.88	3.44	23.32	18.47	616.73	No	
MW-02	04/24/91	635.20	637.39	619.80	610.70	20.30	2.99	23.29	18.79	616.41	No	
MW-02	06/06/91	635.20	637.39	619.80	610.70	18.92	4.20	23.12	17.68	617.52	No	
MW-02	07/09/91	635.20	637.39	619.80	610.70	17.63	5.41	23.04	16.66	618.54	No	
MW-02	08/06/91	635.20	637.39	619.80	610.70	16.70	6.32	23.02	15.94	619.26	No	
MW-02	09/04/91	635.20	637.39	619.80	610.70	16.63	6.35	22.98	15.87	619.33	No	
MW-02	10/08/91	635.20	637.39	619.80	610.70	15.51	7.45	22.96	15.00	620.20	Yes	
MW-02	11/08/91	635.20	637.39	619.80	610.70	16.41	6.60	23.01	15.71	619.49	No	
MW-02	12/03/91	635.20	637.39	619.80	610.70	14.10	8.87	22.97	13.91	621.29	Yes	
MW-02	01/07/92	635.20	637.39	619.80	610.70	16.04	6.99	23.03	15.43	619.77	No	
MW-02	02/04/92	635.20	637.39	619.80	610.70	17.10	5.95	23.05	16.25	618.95	No	
MW-02	03/03/92	635.20	637.39	619.80	610.70	17.70	5.38	23.08	16.73	618.47	No	
MW-02	09/24/92	635.20	637.39	619.80	610.70	16.03	7.96	23.99	15.64	619.56	No	
MW-02	10/14/92	635.20	637.39	619.80	610.70	16.08	6.96	23.04	15.46	619.74	No	
MW-02	06/25/93	635.20	637.39	619.80	610.70	12.97	9.92	22.89	13.02	622.18	Yes	
MW-02	10/28/93	635.20	637.39	619.80	610.70	17.38	6.20	23.58	16.59	618.61	No	
MW-02	01/29/94	635.20	637.39	619.80	610.70	17.90	5.18	23.08	16.88	618.32	No	
MW-02	04/27/94	635.20	637.39	619.80	610.70	17.74	5.31	23.05	16.75	618.45	No	
MW-02	07/21/94	635.20	637.39	619.80	610.70	16.36	7.22	23.58	15.80	619.40	No	
MW-02	10/25/94	635.20	637.39	619.80	610.70	16.50	6.53	23.03	15.78	619.42	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-02	11/02/94	635.20	637.39	619.80	610.70	18.70	1.80	20.50	16.92	618.28	No	
MW-02	02/01/95	635.20	637.39	619.80	610.70	19.02	4.67	23.69	17.88	617.32	No	
MW-02	04/04/95	635.20	637.39	619.80	610.70	19.39	3.56	22.95	18.00	617.20	No	
MW-02	07/12/95	635.20	637.39	619.80	610.70	17.75	5.15	22.90	16.72	618.48	No	
MW-02	11/13/95	635.20	637.39	619.80	610.70	16.95	5.90	22.85	16.09	619.11	No	
MW-02	03/13/96	635.20	637.39	619.80	610.70	18.75	4.20	22.95	17.51	617.69	No	
MW-02	10/08/96	635.20	637.39	619.80	610.70	14.85	7.96	22.81	14.46	620.74	Yes	
MW-02	04/29/97	635.20	637.39	619.80	610.70	13.55	9.05	22.60	13.40	621.80	Yes	
MW-02	06/10/97	635.20	637.39	619.80	610.70	15.45	7.25	22.70	14.90	620.30	Yes	FP bailed 5/22/97
MW-02	03/02/99	635.20	637.39	619.80	610.70	20.15	3.39	23.54	18.73	616.47	No	
MW-02	11/09/99	635.20	637.39	619.80	610.70	NP	0.00	16.73	14.54	620.66	Yes	ferret pump installed
MW-02	12/21/99	635.20	637.39	619.80	610.70	19.00	0.15	19.15	16.84	618.36	No	pump line frozen
MW-02	01/27/00	635.20	637.39	619.80	610.70	19.97	0.63	20.60	17.92	617.28	No	ferret pump re-installed
MW-02	02/24/00	635.20	637.39	619.80	610.70	19.65	0.02	19.67	17.46	617.74	No	
MW-02	03/31/00	635.20	637.39	619.80	610.70	NP	0.00	19.61	17.42	617.78	No	Moved ferret pump to RW-6
MW-02	04/20/00	635.20	637.39	619.80	610.70	19.69	0.58	20.27	17.63	617.57	No	
MW-02	04/26/00	635.20	637.39	619.80	610.70	19.90	0.54	20.44	17.83	617.37	No	bailed 0.25 gal. FP
MW-02	05/31/00	635.20	637.39	619.80	610.70	19.18	0.80	19.98	17.17	618.03	No	bailed 0.25 gal. FP
MW-02	06/29/00	635.20	637.39	619.80	610.70	18.88	0.55	19.43	16.81	618.39	No	bailed 0.25 gal. FP
MW-02	07/26/00	635.20	637.39	619.80	610.70	19.01	0.83	19.84	17.01	618.19	No	bailed <0.1 gal. FP
MW-02	08/18/00	635.20	637.39	619.80	610.70	19.48	0.87	20.35	17.49	617.71	No	bailed 0.25 gal. FP
MW-02	09/27/00	635.20	637.39	619.80	610.70	19.89	0.84	20.73	17.89	617.31	No	bailed <0.1 gal. FP
MW-02	10/11/00	635.20	637.39	619.80	610.70	19.79	0.85	20.64	17.79	617.41	No	bailed 0.25 gal. FP
MW-02	11/17/00	635.20	637.39	619.80	610.70	19.67	1.12	20.79	17.73	617.47	No	bailed 1 gal. FP
MW-02	12/12/00	635.20	637.39	619.80	610.70	19.54	0.26	19.80	17.41	617.79	No	bailed 0.2 gal. FP
MW-02	01/18/01	635.20	637.39	619.80	610.70	19.96	0.72	20.68	17.93	617.27	No	bailed 0.75 gal. FP
MW-02	04/24/01	635.20	637.39	619.80	610.70	20.02	0.91	20.93	18.04	617.16	No	product abated using vactruck
MW-02	05/23/01	635.20	637.39	619.80	610.70	18.73	0.47	19.20	16.65	618.55	No	no product bailed
MW-02	06/19/01	635.20	638.24	619.80	610.70	19.53	0.87	20.40	16.69	618.51	No	TPC = TOC + 0.85 feet
MW-02	07/26/01	635.20	638.24	619.80	610.70	19.35	1.16	20.51	16.57	618.63	No	
MW-02	08/31/01	635.20	638.24	619.80	610.70	20.50	1.09	21.59	17.71	617.49	No	
MW-02	09/26/01	635.20	638.24	619.80	610.70	20.53	0.98	21.51	17.71	617.49	No	
MW-02	10/24/01	635.20	638.24	619.80	610.70	19.60	1.07	20.67	16.80	618.40	No	
MW-02	12/20/01	635.20	638.24	619.80	610.70	21.11	1.02	22.13	18.30	616.90	No	
MW-02	02/26/02	635.20	638.24	619.80	610.70	21.52	1.23	22.75	18.76	616.44	No	
MW-02	03/20/02	635.20	638.24	619.80	610.70	21.66	1.39	23.05	18.93	616.27	No	
MW-02	04/24/02	635.20	638.24	619.80	610.70	20.13	1.05	21.18	17.33	617.87	No	
MW-02	05/15/02	635.20	638.24	619.80	610.70	19.68	1.19	20.87	16.91	618.29	No	
MW-02	06/27/02	635.20	638.24	619.80	610.70	19.95	1.21	21.16	17.18	618.02	No	
MW-02	07/25/02	635.20	638.24	619.80	610.70	19.65	1.39	21.04	16.92	618.28	No	
MW-02	08/20/02	635.20	638.24	619.80	610.70	19.86	1.30	21.16	17.11	618.09	No	
MW-02	09/30/02	635.20	638.24	619.80	610.70	19.05	1.61	20.66	16.37	618.83	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-02	11/05/02	635.20	638.24	619.80	610.70	19.89	1.61	21.50	17.21	617.99	No	
MW-02	12/23/02	635.20	638.24	619.80	610.70	20.79	1.34	22.13	18.05	617.15	No	
MW-02	01/28/03	635.20	638.24	619.80	610.70	21.22	1.59	22.81	18.54	616.66	No	
MW-02	02/19/03	635.20	638.24	619.80	610.70	20.37	1.66	22.03	17.70	617.50	No	
MW-02	04/17/03	635.20	638.24	619.80	610.70	21.84	1.83	23.67	19.21	615.99	No	
MW-02	05/15/03	635.20	638.24	619.80	610.70	21.02	1.88	22.90	18.40	616.80	No	
MW-02	06/10/03	635.20	638.24	619.80	610.70	20.65	1.58	22.23	17.97	617.23	No	
MW-02	10/23/03	635.20	638.24	619.80	610.70	21.84	1.44	23.28	19.13	616.07	No	
MW-02	12/03/03	635.20	638.24	619.80	610.70	21.02	1.53	22.55	18.33	616.87	No	
MW-02	04/19/04	636.16	637.54	619.80	610.70	21.50	2.01	23.51	20.57	615.59	No	
MW-02	07/28/04	636.16	637.54	619.80	610.70	20.35	2.50	22.85	19.53	616.63	No	
MW-02	11/15/04	636.16	637.54	619.80	610.70	19.22	3.63	22.85	18.66	617.50	No	
MW-02	04/18/05	636.16	637.54	619.80	610.70	20.60	3.71	24.31	20.06	616.10	No	
MW-02	09/09/05	636.16	637.54	619.80	610.70	19.23	3.87	23.10	18.72	617.44	No	
MW-02	10/11/05	636.16	637.54	619.80	610.70	18.97	4.11	23.08	18.52	617.64	No	
MW-02	05/23/06	636.16	637.54	619.80	610.70	18.02	4.74	22.76	17.71	618.45	No	
MW-02	10/16/06	636.16	637.54	619.80	610.70	19.22	4.14	23.36	18.78	617.38	No	
MW-02	04/23/07	636.16	637.54	619.80	610.70	NM	NM	NM	NA	NA	NA	Well broken - could not gauge
MW-02	09/25/07						Abandoned					
MW-03	03/23/88	633.90	636.17	618.60	609.60	NP	0.00	18.15	15.88	618.02	No	
MW-03	09/08/88	633.90	636.17	618.60	609.60	NP	0.00	17.89	15.62	618.28	No	
MW-03	09/20/88	633.90	636.17	618.60	609.60	NP	0.00	17.38	15.11	618.79	Yes	
MW-03	04/27/89	633.90	636.17	618.60	609.60	NP	0.00	16.37	14.10	619.80	Yes	
MW-03	05/18/89	633.90	636.17	618.60	609.60	NP	0.00	15.80	13.53	620.37	Yes	
MW-03	06/30/89	633.90	636.17	618.60	609.60	NP	0.00	16.33	14.06	619.84	Yes	
MW-03	07/12/89	633.90	636.17	618.60	609.60	NP	0.00	17.07	14.80	619.10	Yes	
MW-03	07/26/89	633.90	636.17	618.60	609.60	NP	0.00	17.38	15.11	618.79	Yes	
MW-03	07/27/89	633.90	636.17	618.60	609.60	NP	0.00	17.60	15.33	618.57	No	
MW-03	09/03/89	633.90	636.17	618.60	609.60	NP	0.00	17.76	15.49	618.41	No	
MW-03	11/16/89	633.90	636.17	618.60	609.60	NP	0.00	17.72	15.45	618.45	No	
MW-03	11/28/89	633.90	636.17	618.60	609.60	NP	0.00	18.15	15.88	618.02	No	
MW-03	06/01/90	633.90	636.17	618.60	609.60	NP	0.00	13.42	11.15	622.75	Yes	
MW-03	06/19/90	633.90	636.17	618.60	609.60	NP	0.00	16.35	14.08	619.82	Yes	
MW-03	06/27/90	633.90	636.17	618.60	609.60	NP	0.00	17.23	14.96	618.94	Yes	
MW-03	07/05/90	633.90	636.17	618.60	609.60	NP	0.00	17.81	15.54	618.36	No	
MW-03	07/13/90	633.90	636.17	618.60	609.60	NP	0.00	18.11	15.84	618.06	No	
MW-03	07/17/90	633.90	636.17	618.60	609.60	NP	0.00	17.72	15.45	618.45	No	
MW-03	07/25/90	633.90	636.17	618.60	609.60	NP	0.00	18.26	15.99	617.91	No	
MW-03	08/09/90	633.90	636.17	618.60	609.60	NP	0.00	18.14	15.87	618.03	No	
MW-03	08/14/90	633.90	636.17	618.60	609.60	NP	0.00	18.23	15.96	617.94	No	
MW-03	08/27/90	633.90	636.17	618.60	609.60	NP	0.00	17.51	15.24	618.66	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-03	09/06/90	633.90	636.17	618.60	609.60	NP	0.00	17.02	14.75	619.15	Yes	
MW-03	01/04/91	633.90	636.17	618.60	609.60	NP	0.00	17.51	15.24	618.66	Yes	
MW-03	01/30/91	633.90	636.17	618.60	609.60	NP	0.00	17.96	15.69	618.21	No	
MW-03	04/24/91	633.90	636.17	618.60	609.60	NP	0.00	15.96	13.69	620.21	Yes	
MW-03	07/09/91	633.90	636.17	618.60	609.60	NP	0.00	13.77	11.50	622.40	Yes	
MW-03	10/08/91	633.90	636.17	618.60	609.60	NP	0.00	13.44	11.17	622.73	Yes	
MW-03	01/07/92	633.90	636.17	618.60	609.60	NP	0.00	13.42	11.15	622.75	Yes	
MW-03	10/14/92	633.90	636.17	618.60	609.60	NP	0.00	7.53	5.26	628.64	Yes	
MW-03	01/29/94	633.90	636.17	618.60	609.60	NP	0.00	15.95	13.68	620.22	Yes	
MW-03	04/27/94	633.90	636.17	618.60	609.60	NP	0.00	12.84	10.57	623.33	Yes	
MW-03	07/21/94	633.90	636.17	618.60	609.60	NP	0.00	13.99	11.72	622.18	Yes	
MW-03	10/25/94	633.90	636.17	618.60	609.60	NP	0.00	6.76	4.49	629.41	Yes	
MW-03	10/27/94	633.90	636.17	618.60	609.60	NP	0.00	6.68	4.41	629.49	Yes	
MW-03	11/02/94	633.90	636.17	618.60	609.60	17.50	0.70	18.20	15.39	618.51	No	
MW-03	02/01/95	633.90	636.17	618.60	609.60	NP	0.00	15.45	13.18	620.72	Yes	
MW-03	04/04/95	633.90	636.17	618.60	609.60	NP	0.00	16.94	14.67	619.23	Yes	
MW-03	07/12/95	633.90	636.17	618.60	609.60	NP	0.00	15.41	13.14	620.76	Yes	
MW-03	11/13/95	633.90	636.17	618.60	609.60	13.45	0.01	13.46	11.18	622.72	Yes	
MW-03	03/13/96	633.90	636.17	618.60	609.60	16.64	0.01	16.65	14.37	619.53	Yes	
MW-03	10/08/96	633.90	636.17	618.60	609.60	NP	0.00	13.32	11.05	622.85	Yes	
MW-03	04/29/97	633.90	636.17	618.60	609.60	NP	0.00	10.22	7.95	625.95	Yes	
MW-03	11/03/98	633.90	636.17	618.60	609.60	NP	0.00	16.55	14.28	619.62	Yes	
MW-03	03/02/99	633.90	636.17	618.60	609.60	NP	0.00	16.94	14.67	619.23	Yes	
MW-03	04/26/00	633.90	636.17	618.60	609.60	NP	0.00	6.72	4.45	629.45	Yes	
MW-03	08/18/00	633.90	636.17	618.60	609.60	NP	0.00	16.31	14.04	619.86	Yes	
MW-03	03/20/02	633.90	636.17	618.60	609.60	NP	0.00	18.14	15.87	618.03	No	
MW-03	05/15/02	633.90	636.17	618.60	609.60	NP	0.00	6.84	4.57	629.33	Yes	very silty
MW-03	08/20/02	633.90	636.17	618.60	609.60	NP	0.00	6.59	4.32	629.58	Yes	
MW-03	11/05/02	633.90	636.17	618.60	609.60	NP	0.00	6.52	4.25	629.65	Yes	
MW-03	12/23/02	633.90	636.17	618.60	609.60	NP	0.00	17.07	14.80	619.10	Yes	
MW-03	01/28/03	633.90	636.17	618.60	609.60	NP	0.00	17.75	15.48	618.42	No	
MW-03	02/19/03	633.90	636.17	618.60	609.60	NP	0.00	18.02	15.75	618.15	No	
MW-03	04/17/03	633.90	636.17	618.60	609.60	NP	0.00	17.60	15.33	618.57	No	
MW-03	06/10/03	633.90	636.17	618.60	609.60	NP	0.00	17.60	15.33	618.57	No	
MW-03	10/20/03	633.90	636.17	618.60	609.60	NP	0.00	17.98	15.71	618.19	No	
MW-03	12/03/03	633.90	636.17	618.60	609.60	NP	0.00	18.30	16.03	617.87	No	
MW-03	04/19/04	634.51	635.97	618.60	609.60	NP	0.00	17.79	16.33	618.18	No	
MW-03	07/28/04	634.51	635.97	618.60	609.60	NP	0.00	16.80	15.34	619.17	Yes	
MW-03	11/16/04	634.51	635.97	618.60	609.60	NP	0.00	15.69	14.23	620.28	Yes	
MW-03	04/18/05	634.51	635.97	618.60	609.60	NP	0.00	15.78	14.32	620.19	Yes	
MW-03	10/11/05	634.51	635.97	618.60	609.60	NP	0.00	15.30	13.84	620.67	Yes	
MW-03	05/23/06	634.51	635.97	618.60	609.60	NP	0.00	12.72	11.26	623.25	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-03	10/16/06	634.51	635.97	618.60	609.60	NP	0.00	16.78	15.32	619.19	Yes	
MW-03	04/23/07	634.51	635.97	618.60	609.60	NP	0.00	10.32	8.86	625.65	Yes	
MW-03	09/25/07	634.51	636.63	618.60	609.60	NP	0.00	13.97	11.85	622.66	Yes	
MW-03	05/01/08	634.51	636.63	618.60	609.60	NP	0.00	12.15	10.03	624.48	Yes	
MW-03	10/20/08	634.51	636.63	618.60	609.60	NP	0.00	6.93	4.81	629.70	Yes	
MW-03	04/18/09	634.51	636.63	618.60	609.60	NP	0.00	8.48	6.36	628.15	Yes	
MW-03	10/11/09	634.51	636.63	618.60	609.60	NP	0.00	16.87	14.75	619.76	Yes	
MW-03	04/28/10	634.51	636.63	618.60	609.60	NP	0.00	15.46	13.34	621.17	Yes	
MW-03	10/25/10	634.51	636.63	618.60	609.60	NP	0.00	7.57	5.45	629.06	Yes	
MW-03	04/25/11	634.51	636.63	618.60	609.60	NP	0.00	7.42	5.30	629.21	Yes	
MW-03	10/10/11	634.51	636.63	618.60	609.60	NP	0.00	16.11	13.99	620.52	Yes	
MW-03	01/04/12	634.51	636.63	618.60	609.60	NP	0.00	17.37	15.25	619.26	Yes	
MW-03	04/16/12	634.51	636.63	618.60	609.60	NP	0.00	15.80	13.68	620.83	Yes	
MW-03	06/26/12	634.51	636.63	618.60	609.60	NP	0.00	7.02	4.90	629.61	Yes	
MW-03	09/30/12	634.51	636.63	618.60	609.60	NP	0.00	17.49	15.37	619.14	Yes	
MW-03	12/17/12	634.51	636.63	618.60	609.60	NP	0.00	17.83	15.71	618.80	Yes	
MW-03	03/25/13	634.51	636.63	618.60	609.60	NP	0.00	19.01	16.89	617.62	No	
MW-03	05/05/13	634.51	636.63	618.60	609.60	NP	0.00	9.33	7.21	627.30	Yes	
MW-03	10/01/13	634.51	636.63	618.60	609.60	NP	0.00	17.44	15.32	619.19	Yes	
MW-03	05/21/14	634.51	636.63	618.60	609.60	NP	0.00	5.87	3.75	630.76	Yes	
MW-03	10/30/14	634.51	636.63	618.60	609.60	NP	0.00	8.74	6.62	627.89	Yes	
MW-03	05/06/15	634.51	636.63	618.60	609.60	NP	0.00	15.09	12.97	621.54	Yes	
MW-03	10/06/15	634.51	636.63	618.60	609.60	NP	0.00	8.09	5.97	628.54	Yes	
MW-03	05/23/16	634.51	636.63	618.60	609.60	NP	0.00	6.92	4.80	629.71	Yes	
MW-03	10/03/16	634.51	636.63	618.60	609.60	NP	0.00	6.70	4.58	629.93	Yes	
MW-03	06/29/17	634.51	636.63	618.60	609.60	NP	0.00	7.73	5.61	628.90	Yes	
MW-04S	03/23/88	634.30	636.93	620.00	610.00	NP	0.00	19.02	16.39	617.91	No	
MW-04S	09/08/88	634.30	636.93	620.00	610.00	NP	0.00	19.00	16.37	617.93	No	
MW-04S	09/20/88	634.30	636.93	620.00	610.00	NP	0.00	19.21	16.58	617.72	No	
MW-04S	04/27/89	634.30	636.93	620.00	610.00	NP	0.00	17.80	15.17	619.13	No	
MW-04S	05/18/89	634.30	636.93	620.00	610.00	NP	0.00	17.05	14.42	619.88	No	
MW-04S	06/30/89	634.30	636.93	620.00	610.00	NP	0.00	17.47	14.84	619.46	No	
MW-04S	07/12/89	634.30	636.93	620.00	610.00	NP	0.00	18.14	15.51	618.79	No	
MW-04S	07/26/89	634.30	636.93	620.00	610.00	NP	0.00	18.44	15.81	618.49	No	
MW-04S	07/27/89	634.30	636.93	620.00	610.00	NP	0.00	18.57	15.94	618.36	No	
MW-04S	09/03/89	634.30	636.93	620.00	610.00	NP	0.00	18.89	16.26	618.04	No	
MW-04S	11/16/89	634.30	636.93	620.00	610.00	NP	0.00	18.83	16.20	618.10	No	
MW-04S	11/28/89	634.30	636.93	620.00	610.00	NP	0.00	19.15	16.52	617.78	No	
MW-04S	06/01/90	634.30	636.93	620.00	610.00	NP	0.00	18.14	15.51	618.79	No	
MW-04S	06/19/90	634.30	636.93	620.00	610.00	NP	0.00	18.16	15.53	618.77	No	
MW-04S	06/27/90	634.30	636.93	620.00	610.00	NP	0.00	18.52	15.89	618.41	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04S	07/05/90	634.30	636.93	620.00	610.00	NP	0.00	19.00	16.37	617.93	No	
MW-04S	07/13/90	634.30	636.93	620.00	610.00	NP	0.00	19.21	16.58	617.72	No	
MW-04S	07/17/90	634.30	636.93	620.00	610.00	NP	0.00	18.82	16.19	618.11	No	
MW-04S	07/25/90	634.30	636.93	620.00	610.00	NP	0.00	19.27	16.64	617.66	No	
MW-04S	08/09/90	634.30	636.93	620.00	610.00	NP	0.00	19.15	16.52	617.78	No	
MW-04S	08/14/90	634.30	636.93	620.00	610.00	NP	0.00	19.21	16.58	617.72	No	
MW-04S	08/27/90	634.30	636.93	620.00	610.00	NP	0.00	18.94	16.31	617.99	No	
MW-04S	09/06/90	634.30	636.93	620.00	610.00	NP	0.00	18.32	15.69	618.61	No	
MW-04S	01/04/91	634.30	636.93	620.00	610.00	NP	0.00	18.46	15.83	618.47	No	
MW-04S	01/30/91	634.30	636.93	620.00	610.00	NP	0.00	18.92	16.29	618.01	No	
MW-04S	04/24/91	634.30	636.93	620.00	610.00	NP	0.00	18.11	15.48	618.82	No	
MW-04S	07/09/91	634.30	636.93	620.00	610.00	NP	0.00	15.60	12.97	621.33	Yes	
MW-04S	08/06/91	634.30	636.93	620.00	610.00	NP	0.00	15.30	12.67	621.63	Yes	
MW-04S	09/04/91	634.30	636.93	620.00	610.00	NP	0.00	15.75	13.12	621.18	Yes	
MW-04S	10/08/91	634.30	636.93	620.00	610.00	NP	0.00	14.77	12.14	622.16	Yes	
MW-04S	11/08/91	634.30	636.93	620.00	610.00	NP	0.00	15.25	12.62	621.68	Yes	
MW-04S	12/03/91	634.30	636.93	620.00	610.00	NP	0.00	13.34	10.71	623.59	Yes	
MW-04S	01/07/92	634.30	636.93	620.00	610.00	NP	0.00	14.95	12.32	621.98	Yes	
MW-04S	02/04/92	634.30	636.93	620.00	610.00	NP	0.00	16.07	13.44	620.86	Yes	
MW-04S	03/03/92	634.30	636.93	620.00	610.00	NP	0.00	16.77	14.14	620.16	Yes	
MW-04S	09/24/92	634.30	636.93	620.00	610.00	NP	0.00	14.87	12.24	622.06	Yes	
MW-04S	10/14/92	634.30	636.93	620.00	610.00	NP	0.00	15.51	12.88	621.42	Yes	
MW-04S	06/25/93	634.30	636.93	620.00	610.00	NP	0.00	12.88	10.25	624.05	Yes	
MW-04S	10/28/93	634.30	636.93	620.00	610.00	NP	0.00	15.84	13.21	621.09	Yes	
MW-04S	01/29/94	634.30	636.93	620.00	610.00	NP	0.00	17.04	14.41	619.89	No	
MW-04S	04/27/94	634.30	636.93	620.00	610.00	NP	0.00	15.78	13.15	621.15	Yes	
MW-04S	06/14/94	634.30	636.93	620.00	610.00	NP	0.00	14.80	12.17	622.13	Yes	
MW-04S	07/21/94	634.30	636.93	620.00	610.00	NP	0.00	15.25	12.62	621.68	Yes	
MW-04S	08/30/94	634.30	636.93	620.00	610.00	NP	0.00	16.94	14.31	619.99	No	
MW-04S	10/25/94	634.30	636.93	620.00	610.00	NP	0.00	15.52	12.89	621.41	Yes	
MW-04S	10/27/94	634.30	636.93	620.00	610.00	NP	0.00	15.09	12.46	621.84	Yes	
MW-04S	11/02/94	634.30	636.93	620.00	610.00	NP	0.00	18.94	16.31	617.99	No	
MW-04S	04/04/95	634.30	636.93	620.00	610.00	NP	0.00	18.20	15.57	618.73	No	
MW-04S	07/12/95	634.30	636.93	620.00	610.00	NP	0.00	16.74	14.11	620.19	Yes	
MW-04S	11/13/95	634.30	636.93	620.00	610.00	NP	0.00	14.95	12.32	621.98	Yes	
MW-04S	03/13/96	634.30	636.93	620.00	610.00	NP	0.00	18.59	15.96	618.34	No	
MW-04S	04/22/96	634.30	636.93	620.00	610.00	NP	0.00	15.13	12.50	621.80	Yes	
MW-04S	10/08/96	634.30	636.93	620.00	610.00	NP	0.00	14.62	11.99	622.31	Yes	
MW-04S	04/29/97	634.30	636.93	620.00	610.00	NP	0.00	12.75	10.12	624.18	Yes	
MW-04S	11/03/98	634.30	636.93	620.00	610.00	NP	0.00	17.85	15.22	619.08	No	
MW-04S	03/02/99	634.30	636.93	620.00	610.00	NP	0.00	18.14	15.51	618.79	No	
MW-04S	04/26/00	634.30	636.93	620.00	610.00	NP	0.00	16.71	14.08	620.22	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04S	10/10/00	634.30	636.93	620.00	610.00	NP	0.00	17.90	15.27	619.03	No	
MW-04S	04/24/01	634.30	636.93	620.00	610.00	NP	0.00	17.17	14.54	619.76	No	
MW-04S	10/23/01	634.30	636.93	620.00	610.00	NP	0.00	17.92	15.29	619.01	No	
MW-04S	04/23/02	634.30	636.93	620.00	610.00	NP	0.00	17.94	15.31	618.99	No	
MW-04S	11/05/02	634.30	636.93	620.00	610.00	NP	0.00	16.23	13.60	620.70	Yes	
MW-04S	04/17/03	634.30	636.93	620.00	610.00	NP	0.00	19.28	16.65	617.65	No	
MW-04S	10/20/03	634.30	636.93	620.00	610.00	NP	0.00	19.03	16.40	617.90	No	
MW-04S	04/19/04	634.97	636.67	620.00	610.00	NP	0.00	19.49	17.79	617.18	No	
MW-04S	11/16/04	634.97	636.67	620.00	610.00	NP	0.00	17.08	15.38	619.59	No	
MW-04S	04/18/05	634.97	636.67	620.00	610.00	NP	0.00	17.66	15.96	619.01	No	
MW-04S	10/11/05	634.97	636.67	620.00	610.00	NP	0.00	17.12	15.42	619.55	No	
MW-04S	05/23/06	634.97	636.67	620.00	610.00	NP	0.00	16.09	14.39	620.58	Yes	
MW-04S	10/16/06	634.97	636.67	620.00	610.00	NP	0.00	17.66	15.96	619.01	No	
MW-04S	04/23/07	634.97	636.67	620.00	610.00	NP	0.00	18.77	17.07	617.90	No	
MW-04S	09/25/07	634.97	636.67	620.00	610.00	NP	0.00	19.07	17.37	617.60	No	
MW-04S	05/01/08	634.97	636.67	620.00	610.00	NP	0.00	17.07	15.37	619.60	No	
MW-04S	10/20/08	634.97	636.67	620.00	610.00	NP	0.00	15.67	13.97	621.00	Yes	
MW-04S	04/18/09	634.97	636.67	620.00	610.00	NP	0.00	17.42	15.72	619.25	No	
MW-04S	10/11/09	634.97	636.67	620.00	610.00	NP	0.00	18.36	16.66	618.31	No	
MW-04S	04/28/10	634.97	636.67	620.00	610.00	NP	0.00	18.19	16.49	618.48	No	
MW-04S	10/25/10	634.97	636.67	620.00	610.00	NP	0.00	16.12	14.42	620.55	Yes	
MW-04S	04/25/11	634.97	636.67	620.00	610.00	NP	0.00	17.35	15.65	619.32	No	
MW-04S	10/10/11	634.97	636.67	620.00	610.00	NP	0.00	17.32	15.62	619.35	No	
MW-04S	01/04/12	634.97	636.67	620.00	610.00	NP	0.00	18.48	16.78	618.19	No	
MW-04S	04/16/12	634.97	636.67	620.00	610.00	NP	0.00	18.78	17.08	617.89	No	
MW-04S	06/26/12	634.97	636.67	620.00	610.00	NP	0.00	15.52	13.82	621.15	Yes	
MW-04S	09/30/12	634.97	636.67	620.00	610.00	NP	0.00	18.55	16.85	618.12	No	
MW-04S	12/17/12	634.97	636.67	620.00	610.00	NP	0.00	19.45	17.75	617.22	No	
MW-04S	03/25/13	634.97	636.67	620.00	610.00	NP	0.00	19.96	18.26	616.71	No	
MW-04S	05/05/13	634.97	636.67	620.00	610.00	NP	0.00	19.19	17.49	617.48	No	
MW-04D	06/14/94	634.30	636.85	583.00	580.00	NP	0.00	16.76	14.21	620.09	Yes	
MW-04D	07/21/94	634.30	636.85	583.00	580.00	NP	0.00	16.89	14.34	619.96	Yes	
MW-04D	08/30/94	634.30	636.85	583.00	580.00	NP	0.00	18.18	15.63	618.67	Yes	
MW-04D	10/25/94	634.30	636.85	583.00	580.00	NP	0.00	17.09	14.54	619.76	Yes	
MW-04D	10/27/94	634.30	636.85	583.00	580.00	NP	0.00	15.65	13.10	621.20	Yes	
MW-04D	02/01/95	634.30	636.85	583.00	580.00	NP	0.00	18.78	16.23	618.07	Yes	
MW-04D	04/04/95	634.30	636.85	583.00	580.00	NP	0.00	19.41	16.86	617.44	Yes	
MW-04D	07/12/95	634.30	636.85	583.00	580.00	NP	0.00	18.33	15.78	618.52	Yes	
MW-04D	11/13/95	634.30	636.85	583.00	580.00	NP	0.00	16.90	14.35	619.95	Yes	
MW-04D	03/13/96	634.30	636.85	583.00	580.00	19.08	0.01	19.09	16.53	617.77	Yes	
MW-04D	04/22/96	634.30	636.85	583.00	580.00	NP	0.00	17.25	14.70	619.60	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-04D	10/08/96	634.30	636.85	583.00	580.00	NP	0.00	16.52	13.97	620.33	Yes	
MW-04D	04/29/97	634.30	636.85	583.00	580.00	NP	0.00	15.15	12.60	621.70	Yes	
MW-04D	11/03/98	634.30	636.85	583.00	580.00	NP	0.00	19.27	16.72	617.58	Yes	
MW-04D	03/02/99	634.30	636.85	583.00	580.00	NP	0.00	19.28	16.73	617.57	Yes	
MW-04D	04/26/00	634.30	636.85	583.00	580.00	NP	0.00	18.31	15.76	618.54	Yes	
MW-04D	10/10/00	634.30	636.85	583.00	580.00	NP	0.00	19.80	17.25	617.05	Yes	
MW-04D	10/23/01	634.30	636.85	583.00	580.00	NP	0.00	19.21	16.66	617.64	Yes	
MW-04D	04/23/02	634.30	636.85	583.00	580.00	NP	0.00	19.45	16.90	617.40	Yes	
MW-04D	11/05/02	634.30	636.85	583.00	580.00	NP	0.00	17.89	15.34	618.96	Yes	
MW-04D	04/17/03	634.30	636.85	583.00	580.00	NP	0.00	20.37	17.82	616.48	Yes	
MW-04D	10/20/03	634.30	636.85	583.00	580.00	NP	0.00	20.16	17.61	616.69	Yes	
MW-04D	04/19/04	634.98	636.58	583.00	580.00	NP	0.00	20.48	18.88	616.10	Yes	
MW-04D	11/16/04	634.98	636.58	583.00	580.00	NP	0.00	18.61	17.01	617.97	Yes	
MW-04D	04/18/05	634.98	636.58	583.00	580.00	NP	0.00	19.14	17.54	617.44	Yes	
MW-04D	10/11/05	634.98	636.58	583.00	580.00	NP	0.00	18.48	16.88	618.10	Yes	
MW-04D	05/23/06	634.98	636.58	583.00	580.00	NP	0.00	17.58	15.98	619.00	Yes	
MW-04D	10/16/06	634.98	636.58	583.00	580.00	NP	0.00	19.02	17.42	617.56	Yes	
MW-04D	04/23/07	634.98	636.58	583.00	580.00	NP	0.00	18.79	17.19	617.79	Yes	
MW-04D	09/25/07	634.98	636.58	583.00	580.00	NP	0.00	19.75	18.15	616.83	Yes	
MW-04D	05/01/08	634.98	636.58	583.00	580.00	NP	0.00	18.02	16.42	618.56	Yes	
MW-04D	10/20/08	634.98	636.58	583.00	580.00	NP	0.00	16.6	15.00	619.98	Yes	
MW-04D	04/18/09	634.98	636.58	583.00	580.00	NP	0.00	18.19	16.59	618.39	Yes	
MW-04D	10/11/09	634.98	636.58	583.00	580.00	NP	0.00	18.79	17.19	617.79	Yes	
MW-04D	04/28/10	634.98	636.58	583.00	580.00	NP	0.00	18.91	17.31	617.67	Yes	
MW-04D	10/25/10	634.98	636.58	583.00	580.00	NP	0.00	16.83	15.23	619.75	Yes	
MW-04D	04/25/11	634.98	636.58	583.00	580.00	NP	0.00	18.05	16.45	618.53	Yes	
MW-04D	10/10/11	634.98	636.58	583.00	580.00	NP	0.00	17.81	16.21	618.77	Yes	
MW-04D	01/04/12	634.98	636.58	583.00	580.00	NP	0.00	18.96	17.36	617.62	Yes	
MW-04D	04/16/12	634.98	636.58	583.00	580.00	NP	0.00	19.24	17.64	617.34	Yes	
MW-04D	06/26/12	634.98	636.58	583.00	580.00	NP	0.00	16.53	14.93	620.05	Yes	
MW-04D	09/30/12	634.98	636.58	583.00	580.00	NP	0.00	18.95	17.35	617.63	Yes	
MW-04D	12/17/12	634.98	636.58	583.00	580.00	NP	0.00	18.97	17.37	617.61	Yes	
MW-04D	03/25/13	634.98	636.58	583.00	580.00	NP	0.00	19.88	18.28	616.70	Yes	
MW-04D	05/05/13	634.98	636.58	583.00	580.00	NP	0.00	19.63	18.03	616.95	Yes	
MW-04D	10/03/13	634.98	636.58	583.00	580.00	NM	NM	NM	NM	NM	NM	
MW-05	03/23/88	634.40	636.94	618.50	609.50	NP	0.00	19.45	16.91	617.49	No	
MW-05	09/08/88	634.40	636.94	618.50	609.50	NP	0.00	19.50	16.96	617.44	No	
MW-05	09/20/88	634.40	636.94	618.50	609.50	NP	0.00	19.50	16.96	617.44	No	
MW-05	04/27/89	634.40	636.94	618.50	609.50	NP	0.00	18.81	16.27	618.13	No	
MW-05	05/18/89	634.40	636.94	618.50	609.50	NP	0.00	18.06	15.52	618.88	Yes	
MW-05	06/30/89	634.40	636.94	618.50	609.50	NP	0.00	18.35	15.81	618.59	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-05	07/12/89	634.40	636.94	618.50	609.50	NP	0.00	18.81	16.27	618.13	No	
MW-05	07/26/89	634.40	636.94	618.50	609.50	NP	0.00	18.96	16.42	617.98	No	
MW-05	07/27/89	634.40	636.94	618.50	609.50	NP	0.00	19.07	16.53	617.87	No	
MW-05	09/03/89	634.40	636.94	618.50	609.50	NP	0.00	19.35	16.81	617.59	No	
MW-05	11/28/89	634.40	636.94	618.50	609.50	NP	0.00	19.82	17.28	617.12	No	
MW-05	06/01/90	634.40	636.94	618.50	609.50	NP	0.00	18.92	16.38	618.02	No	
MW-05	06/19/90	634.40	636.94	618.50	609.50	NP	0.00	18.95	16.41	617.99	No	
MW-05	06/27/90	634.40	636.94	618.50	609.50	NP	0.00	19.25	16.71	617.69	No	
MW-05	07/05/90	634.40	636.94	618.50	609.50	NP	0.00	19.65	17.11	617.29	No	
MW-05	07/13/90	634.40	636.94	618.50	609.50	NP	0.00	19.78	17.24	617.16	No	
MW-05	07/17/90	634.40	636.94	618.50	609.50	NP	0.00	19.33	16.79	617.61	No	
MW-05	07/25/90	634.40	636.94	618.50	609.50	NP	0.00	19.76	17.22	617.18	No	
MW-05	08/09/90	634.40	636.94	618.50	609.50	NP	0.00	19.61	17.07	617.33	No	
MW-05	08/14/90	634.40	636.94	618.50	609.50	NP	0.00	19.63	17.09	617.31	No	
MW-05	08/27/90	634.40	636.94	618.50	609.50	NP	0.00	19.40	16.86	617.54	No	
MW-05	09/06/90	634.40	636.94	618.50	609.50	NP	0.00	21.34	18.80	615.60	No	
MW-05	01/04/91	634.40	636.94	618.50	609.50	NP	0.00	18.60	16.06	618.34	No	
MW-05	01/30/91	634.40	636.94	618.50	609.50	NP	0.00	19.20	16.66	617.74	No	
MW-05	04/24/91	634.40	636.94	618.50	609.50	NP	0.00	18.91	16.37	618.03	No	
MW-05	07/09/91	634.40	636.94	618.50	609.50	NP	0.00	16.74	14.20	620.20	Yes	
MW-05	10/08/91	634.40	636.94	618.50	609.50	NP	0.00	15.61	13.07	621.33	Yes	
MW-05	01/07/92	634.40	636.94	618.50	609.50	NP	0.00	15.74	13.20	621.20	Yes	
MW-05	10/14/92	634.40	636.94	618.50	609.50	NP	0.00	16.06	13.52	620.88	Yes	
MW-05	01/29/94	634.40	636.94	618.50	609.50	NP	0.00	17.38	14.84	619.56	Yes	
MW-05	04/27/94	634.40	636.94	618.50	609.50	NP	0.00	16.69	14.15	620.25	Yes	
MW-05	07/21/94	634.40	636.94	618.50	609.50	NP	0.00	15.80	13.26	621.14	Yes	
MW-05	10/25/94	634.40	636.94	618.50	609.50	NP	0.00	16.23	13.69	620.71	Yes	
MW-05	10/27/94	634.40	636.94	618.50	609.50	NP	0.00	15.82	13.28	621.12	Yes	
MW-05	11/02/94	634.40	636.94	618.50	609.50	18.96	1.88	20.84	16.84	617.56	No	
MW-05	02/01/95	634.40	636.94	618.50	609.50	NP	0.00	18.01	15.47	618.93	Yes	
MW-05	04/04/95	634.40	636.94	618.50	609.50	NP	0.00	18.78	16.24	618.16	No	
MW-05	07/12/95	634.40	636.94	618.50	609.50	NP	0.00	17.30	14.76	619.64	Yes	
MW-05	11/13/95	634.40	636.94	618.50	609.50	NP	0.00	15.88	13.34	621.06	Yes	
MW-05	03/13/96	634.40	636.94	618.50	609.50	NP	0.00	17.92	15.38	619.02	Yes	
MW-05	10/08/96	634.40	636.94	618.50	609.50	NP	0.00	15.28	12.74	621.66	Yes	
MW-05	04/29/97	634.40	636.94	618.50	609.50	NP	0.00	13.82	11.28	623.12	Yes	
MW-05	11/03/98	634.40	636.94	618.50	609.50	NP	0.00	14.34	11.80	622.60	Yes	
MW-05	03/02/99	634.40	637.94	618.50	609.50	NP	0.00	18.46	14.92	619.48	Yes	
MW-05	04/26/00	634.40	637.94	618.50	609.50	NP	0.00	17.39	13.85	620.55	Yes	
MW-05	08/18/00	634.40	637.94	618.50	609.50	NP	0.00	17.94	14.40	620.00	Yes	
MW-05	10/10/00	634.40	637.94	618.50	609.50	NP	0.00	18.29	14.75	619.65	Yes	
MW-05	04/24/01	634.40	637.94	618.50	609.50	NP	0.00	18.17	14.63	619.77	Yes	

Table 2
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-05	10/23/01	634.40	637.94	618.50	609.50	NP	0.00	19.08	15.54	618.86	Yes	
MW-05	04/23/02	634.40	637.94	618.50	609.50	NP	0.00	18.83	15.29	619.11	Yes	
MW-05	11/05/02	634.40	637.94	618.50	609.50	NP	0.00	17.23	13.69	620.71	Yes	
MW-05	08/28/03	Abandoned										
MW-06	03/23/88	635.50	637.97	620.30	611.30	NP	0.00	21.34	18.87	616.63	No	
MW-06	09/08/88	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	09/20/88	635.50	637.97	620.30	611.30	NP	0.00	21.97	19.50	616.00	No	
MW-06	04/27/89	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	05/18/89	635.50	637.97	620.30	611.30	NP	0.00	21.21	18.74	616.76	No	
MW-06	06/30/89	635.50	637.97	620.30	611.30	NP	0.00	20.90	18.43	617.07	No	
MW-06	07/12/89	635.50	637.97	620.30	611.30	NP	0.00	21.00	18.53	616.97	No	
MW-06	07/26/89	635.50	637.97	620.30	611.30	NP	0.00	20.97	18.50	617.00	No	
MW-06	07/27/89	635.50	637.97	620.30	611.30	NP	0.00	21.07	18.60	616.90	No	
MW-06	09/03/89	635.50	637.97	620.30	611.30	NP	0.00	21.34	18.87	616.63	No	
MW-06	11/16/89	635.50	637.97	620.30	611.30	NP	0.00	21.42	18.95	616.55	No	
MW-06	11/28/89	635.50	637.97	620.30	611.30	NP	0.00	21.54	19.07	616.43	No	
MW-06	06/01/90	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	06/19/90	635.50	637.97	620.30	611.30	NP	0.00	21.51	19.04	616.46	No	
MW-06	06/27/90	635.50	637.97	620.30	611.30	NP	0.00	21.60	19.13	616.37	No	
MW-06	07/05/90	635.50	637.97	620.30	611.30	NP	0.00	21.71	19.24	616.26	No	
MW-06	07/13/90	635.50	637.97	620.30	611.30	NP	0.00	21.68	19.21	616.29	No	
MW-06	07/17/90	635.50	637.97	620.30	611.30	NP	0.00	21.43	18.96	616.54	No	
MW-06	07/25/90	635.50	637.97	620.30	611.30	NP	0.00	21.61	19.14	616.36	No	
MW-06	08/09/90	635.50	637.97	620.30	611.30	NP	0.00	21.56	19.09	616.41	No	
MW-06	08/14/90	635.50	637.97	620.30	611.30	NP	0.00	21.54	19.07	616.43	No	
MW-06	08/27/90	635.50	637.97	620.30	611.30	NP	0.00	21.42	18.95	616.55	No	
MW-06	09/06/90	635.50	637.97	620.30	611.30	NP	0.00	21.57	19.10	616.40	No	
MW-06	01/04/91	635.50	637.97	620.30	611.30	NP	0.00	20.81	18.34	617.16	No	
MW-06	01/30/91	635.50	637.97	620.30	611.30	NP	0.00	21.00	18.53	616.97	No	
MW-06	04/24/91	635.50	637.97	620.30	611.30	NP	0.00	21.65	19.18	616.32	No	
MW-06	07/09/91	635.50	637.97	620.30	611.30	NP	0.00	20.20	17.73	617.77	No	
MW-06	10/08/91	635.50	637.97	620.30	611.30	NP	0.00	18.69	16.22	619.28	No	
MW-06	01/07/92	635.50	637.97	620.30	611.30	NP	0.00	18.68	16.21	619.29	No	
MW-06	10/14/92	635.50	637.97	620.30	611.30	NP	0.00	18.71	16.24	619.26	No	
MW-06	06/25/93	635.50	637.97	620.30	611.30	NP	0.00	17.65	15.18	620.32	Yes	
MW-06	10/28/93	635.50	637.97	620.30	611.30	NP	0.00	18.57	16.10	619.40	No	
MW-06	01/29/94	635.50	637.97	620.30	611.30	NP	0.00	19.52	17.05	618.45	No	
MW-06	04/27/94	635.50	637.97	620.30	611.30	NP	0.00	19.92	17.45	618.05	No	
MW-06	07/21/94	635.50	637.97	620.30	611.30	NP	0.00	18.56	16.09	619.41	No	
MW-06	10/25/94	635.50	637.97	620.30	611.30	NP	0.00	19.13	16.66	618.84	No	
MW-06	10/27/94	635.50	637.97	620.30	611.30	NP	0.00	18.44	15.97	619.53	No	

Table 2
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MW-06	11/02/94	635.50	637.97	620.30	611.30	18.42	1.43	19.85	16.27	619.23	No	
MW-06	02/01/95	635.50	637.97	620.30	611.30	NP	0.00	19.90	17.43	618.07	No	
MW-06	04/04/95	635.50	637.97	620.30	611.30	NP	0.00	20.61	18.14	617.36	No	
MW-06	07/12/95	635.50	637.97	620.30	611.30	NP	0.00	19.83	17.36	618.14	No	
MW-06	11/13/95	635.50	637.97	620.30	611.30	NP	0.00	19.25	16.78	618.72	No	
MW-06	03/13/96	635.50	637.97	620.30	611.30	NP	0.00	20.10	17.63	617.87	No	
MW-06	04/22/96	635.50	637.97	620.30	611.30	NP	0.00	19.72	17.25	618.25	No	
MW-06	10/08/96	635.50	637.97	620.30	611.30	NP	0.00	18.11	15.64	619.86	No	
MW-06	04/29/97	635.50	637.97	620.30	611.30	NP	0.00	17.52	15.05	620.45	Yes	
MW-06	11/03/98	635.50	637.97	620.30	611.30	NP	0.00	20.64	18.17	617.33	No	
MW-06	03/02/99	635.50	637.97	620.30	611.30	NP	0.00	20.60	18.13	617.37	No	
MW-06	04/26/00	635.50	637.97	620.30	611.30	NP	0.00	20.02	17.55	617.95	No	
MW-06	10/10/00	635.50	637.97	620.30	611.30	NP	0.00	20.33	17.86	617.64	No	
MW-06	04/24/01	635.50	637.97	620.30	611.30	NP	0.00	20.83	18.36	617.14	No	
MW-06	10/23/01	635.50	637.97	620.30	611.30	NP	0.00	20.43	17.96	617.54	No	
MW-06	04/23/02	635.50	637.97	620.30	611.30	NP	0.00	21.43	18.96	616.54	No	
MW-06	11/05/02	635.50	637.97	620.30	611.30	NP	0.00	21.15	18.68	616.82	No	
MW-06	04/17/03	635.50	637.97	620.30	611.30	NP	0.00	20.56	18.09	617.41	No	
MW-06	10/20/03	635.50	637.97	620.30	611.30	NP	0.00	21.56	19.09	616.41	No	
MW-06	04/19/04	635.32	637.70	620.30	611.30	NP	0.00	22.22	19.84	615.48	No	
MW-06	11/16/04	635.32	637.70	620.30	611.30	NP	0.00	20.75	18.37	616.95	No	
MW-06	04/18/05	635.32	637.70	620.30	611.30	NP	0.00	20.95	18.57	616.75	No	
MW-06	10/11/05	635.32	637.70	620.30	611.30	NP	0.00	20.52	18.14	617.18	No	
MW-06	05/23/06	635.32	637.70	620.30	611.30	NP	0.00	19.95	17.57	617.75	No	
MW-06	10/16/06	635.32	637.70	620.30	611.30	NP	0.00	20.43	18.05	617.27	No	
MW-06	04/23/07	635.32	637.70	620.30	611.30	NP	0.00	21.11	18.73	616.59	No	Well bent
MW-06	09/25/07	635.32	637.70	620.30	611.30	NP	0.00	21.08	18.70	616.62	No	
MW-06	05/01/08	635.32	637.70	620.30	611.30	NP	0.00	20.08	17.70	617.62	No	
MW-06	10/20/08	635.32	637.70	620.30	611.30	NP	0.00	19.05	16.67	618.65	No	
MW-06	04/18/09	635.32	637.70	620.30	611.30	NP	0.00	19.67	17.29	618.03	No	
MW-06	07/29/09						Abandoned					
MW-06R	07/29/09	637.12	639.04	623.12	613.12							
MW-06R	10/11/09	637.12	639.04	623.12	613.12	NP	0.00	21.33	19.41	617.71	No	
MW-06R	04/28/10	637.12	639.04	623.12	613.12	NP	0.00	21.22	19.30	617.82	No	
MW-06R	10/25/10	637.12	639.04	623.12	613.12	NP	0.00	19.43	17.51	619.61	No	
MW-06R	04/25/11	637.12	639.04	623.12	613.12	NP	0.00	20.56	18.64	618.48	No	
MW-06R	10/10/11	637.12	639.04	623.12	613.12	NP	0.00	19.94	18.02	619.10	No	
MW-06R	01/04/12	637.12	639.04	623.12	613.12	NP	0.00	20.94	19.02	618.10	No	
MW-06R	04/16/12	637.12	639.04	623.12	613.12	NP	0.00	21.74	19.82	617.30	No	
MW-06R	06/26/12	637.12	639.04	623.12	613.12	NP	0.00	20.02	18.10	619.02	No	
MW-06R	09/30/12	637.12	639.04	623.12	613.12	NP	0.00	21.03	19.11	618.01	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

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MW-06R	12/17/12	637.12	639.04	623.12	613.12	NP	0.00	21.58	19.66	617.46	No	
MW-06R	03/25/13	637.12	639.04	623.12	613.12	NP	0.00	22.25	20.33	616.79	No	
MW-06R	05/05/13	637.12	639.04	623.12	613.12	NP	0.00	21.99	20.07	617.05	No	
MW-07	03/23/88	634.40	637.04	619.00	610.00	NP	0.00	21.28	18.64	615.76	No	
MW-07	09/08/88	634.40	637.04	619.00	610.00	NP	0.00	21.54	18.90	615.50	No	
MW-07	09/20/88	634.40	637.04	619.00	610.00	NP	0.00	21.70	19.06	615.34	No	
MW-07	04/27/89	634.40	637.04	619.00	610.00	NP	0.00	21.61	18.97	615.43	No	
MW-07	05/18/89	634.40	637.04	619.00	610.00	NP	0.00	21.36	18.72	615.68	No	
MW-07	06/30/89	634.40	637.04	619.00	610.00	NP	0.00	20.98	18.34	616.06	No	
MW-07	07/12/89	634.40	637.04	619.00	610.00	NP	0.00	21.03	18.39	616.01	No	
MW-07	07/26/89	634.40	637.04	619.00	610.00	NP	0.00	21.00	18.36	616.04	No	
MW-07	07/27/89	634.40	637.04	619.00	610.00	NP	0.00	21.08	18.44	615.96	No	
MW-07	09/03/89	634.40	637.04	619.00	610.00	NP	0.00	21.17	18.53	615.87	No	
MW-07	11/16/89	634.40	637.04	619.00	610.00	NP	0.00	21.27	18.63	615.77	No	
MW-07	11/28/89	634.40	637.04	619.00	610.00	NP	0.00	21.31	18.67	615.73	No	
MW-07	06/01/90	634.40	637.04	619.00	610.00	NP	0.00	21.68	19.04	615.36	No	
MW-07	06/19/90	634.40	637.04	619.00	610.00	NP	0.00	21.50	18.86	615.54	No	
MW-07	06/27/90	634.40	637.04	619.00	610.00	NP	0.00	21.47	18.83	615.57	No	
MW-07	07/05/90	634.40	637.04	619.00	610.00	NP	0.00	21.46	18.82	615.58	No	
MW-07	07/13/90	634.40	637.04	619.00	610.00	NP	0.00	21.49	18.85	615.55	No	
MW-07	07/17/90	634.40	637.04	619.00	610.00	NP	0.00	21.37	18.73	615.67	No	
MW-07	07/25/90	634.40	637.04	619.00	610.00	NP	0.00	21.36	18.72	615.68	No	
MW-07	08/09/90	634.40	637.04	619.00	610.00	NP	0.00	21.34	18.70	615.70	No	
MW-07	08/14/90	634.40	637.04	619.00	610.00	NP	0.00	21.38	18.74	615.66	No	
MW-07	08/27/90	634.40	637.04	619.00	610.00	NP	0.00	21.34	18.70	615.70	No	
MW-07	09/06/90	634.40	637.04	619.00	610.00	NP	0.00	21.30	18.66	615.74	No	
MW-07	01/04/91	634.40	637.04	619.00	610.00	NP	0.00	20.89	18.25	616.15	No	
MW-07	01/30/91	634.40	637.04	619.00	610.00	NP	0.00	20.98	18.34	616.06	No	
MW-07	04/24/91	634.40	637.04	619.00	610.00	NP	0.00	21.43	18.79	615.61	No	
MW-07	07/09/91	634.40	637.04	619.00	610.00	NP	0.00	20.19	17.55	616.85	No	
MW-07	08/06/91	634.40	637.04	619.00	610.00	NP	0.00	19.83	17.19	617.21	No	
MW-07	09/04/91	634.40	637.04	619.00	610.00	NP	0.00	19.94	17.30	617.10	No	
MW-07	10/08/91	634.40	637.04	619.00	610.00	NP	0.00	19.60	16.96	617.44	No	
MW-07	11/08/91	634.40	637.04	619.00	610.00	NP	0.00	19.37	16.73	617.67	No	
MW-07	12/03/91	634.40	637.04	619.00	610.00	NP	0.00	19.32	16.68	617.72	No	
MW-07	01/07/92	634.40	637.04	619.00	610.00	NP	0.00	19.30	16.66	617.74	No	
MW-07	02/04/92	634.40	637.04	619.00	610.00	NP	0.00	19.51	16.87	617.53	No	
MW-07	03/03/92	634.40	637.04	619.00	610.00	NP	0.00	19.76	17.12	617.28	No	
MW-07	09/24/92	634.40	637.04	619.00	610.00	NP	0.00	16.47	13.83	620.57	Yes	
MW-07	10/14/92	634.40	637.04	619.00	610.00	NP	0.00	19.17	16.53	617.87	No	
MW-07	06/25/93	634.40	637.04	619.00	610.00	NP	0.00	17.54	14.90	619.50	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-07	10/28/93	634.40	637.04	619.00	610.00	NP	0.00	19.16	16.52	617.88	No	
MW-07	01/29/94	634.40	637.04	619.00	610.00	NP	0.00	19.77	17.13	617.27	No	
MW-07	04/27/94	634.40	637.04	619.00	610.00	NP	0.00	20.43	17.79	616.61	No	
MW-07	07/21/94	634.40	637.04	619.00	610.00	NP	0.00	19.36	16.72	617.68	No	
MW-07	10/25/94	634.40	637.04	619.00	610.00	NP	0.00	19.68	17.04	617.36	No	
MW-07	10/27/94	634.40	637.04	619.00	610.00	NP	0.00	19.16	16.52	617.88	No	
MW-07	11/02/94	634.40	637.04	619.00	610.00	NP	0.00	17.10	14.46	619.94	Yes	
MW-07	02/01/95	634.40	637.04	619.00	610.00	NP	0.00	20.24	17.60	616.80	No	
MW-07	04/04/95	634.40	637.04	619.00	610.00	NP	0.00	20.62	17.98	616.42	No	
MW-07	07/12/95	634.40	637.04	619.00	610.00	NP	0.00	20.36	17.72	616.68	No	
MW-07	11/13/95	634.40	637.04	619.00	610.00	NP	0.00	20.01	17.37	617.03	No	
MW-07	03/13/96	634.40	637.04	619.00	610.00	NP	0.00	20.60	17.96	616.44	No	
MW-07	04/22/96	634.40	637.04	619.00	610.00	NP	0.00	20.47	17.83	616.57	No	
MW-07	10/08/96	634.40	637.04	619.00	610.00	NP	0.00	18.96	16.32	618.08	No	
MW-07	04/29/97	634.40	637.04	619.00	610.00	NP	0.00	18.75	16.11	618.29	No	
MW-07	11/03/98	634.40	637.04	619.00	610.00	NP	0.00	20.85	18.21	616.19	No	
MW-07	03/02/99	634.40	637.04	619.00	610.00	NP	0.00	20.90	18.26	616.14	No	
MW-07	04/26/00	634.40	637.04	619.00	610.00	NP	0.00	20.37	17.73	616.67	No	
MW-07	10/10/00	634.40	637.04	619.00	610.00	NP	0.00	19.68	17.04	617.36	No	
MW-07	04/24/01	634.40	637.04	619.00	610.00	NP	0.00	20.54	17.90	616.50	No	
MW-07	10/23/01	634.40	637.04	619.00	610.00	NP	0.00	20.63	17.99	616.41	No	
MW-07	04/23/02	634.40	637.04	619.00	610.00	NP	0.00	21.15	18.51	615.89	No	
MW-07	11/05/02	634.40	637.04	619.00	610.00	NP	0.00	20.59	17.95	616.45	No	Cover Rusted On
MW-07	08/28/03						Abandoned					
MW-08	03/23/88	632.50	634.78	616.60	606.60	NP	0.00	20.97	18.69	613.81	No	
MW-08	09/08/88	632.50	634.78	616.60	606.60	NP	0.00	21.52	19.24	613.26	No	
MW-08	09/20/88	632.50	634.78	616.60	606.60	NP	0.00	21.62	19.34	613.16	No	
MW-08	04/27/89	632.50	634.78	616.60	606.60	NP	0.00	21.30	19.02	613.48	No	
MW-08	05/18/89	632.50	634.78	616.60	606.60	NP	0.00	21.04	18.76	613.74	No	
MW-08	06/30/89	632.50	634.78	616.60	606.60	NP	0.00	20.85	18.57	613.93	No	
MW-08	07/12/89	632.50	634.78	616.60	606.60	NP	0.00	20.87	18.59	613.91	No	
MW-08	07/26/89	632.50	634.78	616.60	606.60	NP	0.00	20.90	18.62	613.88	No	
MW-08	07/27/89	632.50	634.78	616.60	606.60	NP	0.00	20.96	18.68	613.82	No	
MW-08	09/03/89	632.50	634.78	616.60	606.60	NP	0.00	21.13	18.85	613.65	No	
MW-08	11/16/89	632.50	634.78	616.60	606.60	NP	0.00	21.21	18.93	613.57	No	
MW-08	11/28/89	632.50	634.78	616.60	606.60	NP	0.00	21.25	18.97	613.53	No	
MW-08	06/01/90	632.50	634.78	616.60	606.60	NP	0.00	21.92	19.64	612.86	No	
MW-08	06/19/90	632.50	634.78	616.60	606.60	NP	0.00	21.59	19.31	613.19	No	
MW-08	06/27/90	632.50	634.78	616.60	606.60	NP	0.00	21.57	19.29	613.21	No	
MW-08	07/05/90	632.50	634.78	616.60	606.60	NP	0.00	21.56	19.28	613.22	No	
MW-08	07/13/90	632.50	634.78	616.60	606.60	NP	0.00	21.60	19.32	613.18	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-08	07/17/90	632.50	634.78	616.60	606.60	NP	0.00	21.47	19.19	613.31	No	
MW-08	07/25/90	632.50	634.78	616.60	606.60	NP	0.00	21.50	19.22	613.28	No	
MW-08	08/09/90	632.50	634.78	616.60	606.60	NP	0.00	21.51	19.23	613.27	No	
MW-08	08/14/90	632.50	634.78	616.60	606.60	NP	0.00	21.55	19.27	613.23	No	
MW-08	08/27/90	632.50	634.78	616.60	606.60	NP	0.00	21.53	19.25	613.25	No	
MW-08	09/06/90	632.50	634.78	616.60	606.60	NP	0.00	21.47	19.19	613.31	No	
MW-08	01/04/91	632.50	634.78	616.60	606.60	NP	0.00	20.80	18.52	613.98	No	
MW-08	01/30/91	632.50	634.78	616.60	606.60	NP	0.00	20.97	18.69	613.81	No	
MW-08	04/24/91	632.50	634.78	616.60	606.60	NP	0.00	21.44	19.16	613.34	No	
MW-08	07/09/91	632.50	634.78	616.60	606.60	NP	0.00	20.11	17.83	614.67	No	
MW-08	10/08/91	632.50	634.78	616.60	606.60	NP	0.00	18.47	16.19	616.31	No	
MW-08	01/07/92	632.50	634.78	616.60	606.60	NP	0.00	17.97	15.69	616.81	Yes	
MW-08	10/14/92	632.50	634.78	616.60	606.60	NP	0.00	17.78	15.50	617.00	Yes	
MW-08	06/25/93	632.50	634.78	616.60	606.60	NP	0.00	17.54	15.26	617.24	Yes	
MW-08	10/28/93	632.50	634.78	616.60	606.60	NP	0.00	17.73	15.45	617.05	Yes	
MW-08	01/29/94	632.50	634.78	616.60	606.60	NP	0.00	18.34	16.06	616.44	No	
MW-08	04/27/94	632.50	634.78	616.60	606.60	NP	0.00	18.98	16.70	615.80	No	
MW-08	07/21/94	632.50	634.78	616.60	606.60	NP	0.00	17.98	15.70	616.80	Yes	
MW-08	10/25/94	632.50	634.78	616.60	606.60	NP	0.00	18.29	16.01	616.49	No	
MW-08	10/27/94	632.50	634.78	616.60	606.60	NP	0.00	17.98	15.70	616.80	Yes	
MW-08	11/02/94	632.50	634.78	616.60	606.60	NP	0.00	17.38	15.10	617.40	Yes	
MW-08	02/01/95	632.50	634.78	616.60	606.60	NP	0.00	18.90	16.62	615.88	No	
MW-08	04/04/95	632.50	634.78	616.60	606.60	NP	0.00	19.59	17.31	615.19	No	
MW-08	07/12/95	632.50	634.78	616.60	606.60	NP	0.00	19.43	17.15	615.35	No	
MW-08	11/13/95	632.50	634.78	616.60	606.60	NP	0.00	18.81	16.53	615.97	No	
MW-08	03/13/96	632.50	634.78	616.60	606.60	NP	0.00	19.49	17.21	615.29	No	
MW-08	04/22/96	632.50	634.78	616.60	606.60	NP	0.00	19.05	16.77	615.73	No	
MW-08	10/08/96	632.50	634.78	616.60	606.60	NP	0.00	17.38	15.10	617.40	Yes	
MW-08	04/29/97	632.50	634.78	616.60	606.60	NP	0.00	17.16	14.88	617.62	Yes	
MW-08	11/03/98	632.50	634.78	616.60	606.60	NP	0.00	19.99	17.71	614.79	No	
MW-08	03/02/99	632.50	634.78	616.60	606.60	NP	0.00	20.09	17.81	614.69	No	
MW-08	04/26/00	632.50	634.78	616.60	606.60	NP	0.00	19.04	16.76	615.74	No	
MW-08	10/10/00	632.50	634.78	616.60	606.60	NP	0.00	19.45	17.17	615.33	No	
MW-08	04/24/01	632.50	634.78	616.60	606.60	NP	0.00	20.23	17.95	614.55	No	
MW-08	10/23/01	632.50	634.78	616.60	606.60	NP	0.00	19.66	17.38	615.12	No	
MW-08	04/23/02	632.50	634.78	616.60	606.60	NP	0.00	20.55	18.27	614.23	No	
MW-08	11/05/02	632.50	634.78	616.60	606.60	NP	0.00	19.50	17.22	615.28	No	
MW-08	08/18/03						Abandoned					
MW-09	03/23/88	629.40	631.98	613.90	604.90	NP	0.00	16.19	13.61	615.79	Yes	
MW-09	09/08/88	629.40	631.98	613.90	604.90	NP	0.00	15.22	12.64	616.76	Yes	
MW-09	09/20/88	629.40	631.98	613.90	604.90	NP	0.00	15.27	12.69	616.71	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-09	04/27/89	629.40	631.98	613.90	604.90	NP	0.00	15.72	13.14	616.26	Yes	
MW-09	05/18/89	629.40	631.98	613.90	604.90	NP	0.00	15.09	12.51	616.89	Yes	
MW-09	06/30/89	629.40	631.98	613.90	604.90	NP	0.00	15.00	12.42	616.98	Yes	
MW-09	07/12/89	629.40	631.98	613.90	604.90	NP	0.00	15.36	12.78	616.62	Yes	
MW-09	07/26/89	629.40	631.98	613.90	604.90	NP	0.00	15.67	13.09	616.31	Yes	
MW-09	07/27/89	629.40	631.98	613.90	604.90	NP	0.00	15.74	13.16	616.24	Yes	
MW-09	09/03/89	629.40	631.98	613.90	604.90	NP	0.00	15.50	12.92	616.48	Yes	
MW-09	11/16/89	629.40	631.98	613.90	604.90	NP	0.00	13.77	11.19	618.21	Yes	
MW-09	11/28/89	629.40	631.98	613.90	604.90	NP	0.00	14.28	11.70	617.70	Yes	
MW-09	06/01/90	629.40	631.98	613.90	604.90	NP	0.00	14.87	12.29	617.11	Yes	
MW-09	06/19/90	629.40	631.98	613.90	604.90	NP	0.00	14.54	11.96	617.44	Yes	
MW-09	06/27/90	629.40	631.98	613.90	604.90	NP	0.00	14.70	12.12	617.28	Yes	
MW-09	07/05/90	629.40	631.98	613.90	604.90	NP	0.00	15.03	12.45	616.95	Yes	
MW-09	07/13/90	629.40	631.98	613.90	604.90	NP	0.00	15.28	12.70	616.70	Yes	
MW-09	07/17/90	629.40	631.98	613.90	604.90	NP	0.00	15.15	12.57	616.83	Yes	
MW-09	07/25/90	629.40	631.98	613.90	604.90	NP	0.00	15.50	12.92	616.48	Yes	
MW-09	08/09/90	629.40	631.98	613.90	604.90	NP	0.00	15.56	12.98	616.42	Yes	
MW-09	08/14/90	629.40	631.98	613.90	604.90	NP	0.00	15.75	13.17	616.23	Yes	
MW-09	08/27/90	629.40	631.98	613.90	604.90	NP	0.00	14.93	12.35	617.05	Yes	
MW-09	09/06/90	629.40	631.98	613.90	604.90	NP	0.00	15.09	12.51	616.89	Yes	
MW-09	01/04/91	629.40	631.98	613.90	604.90	NP	0.00	14.28	11.70	617.70	Yes	
MW-09	01/30/91	629.40	631.98	613.90	604.90	NP	0.00	15.26	12.68	616.72	Yes	
MW-09	04/24/91	629.40	631.98	613.90	604.90	NP	0.00	15.47	12.89	616.51	Yes	
MW-09	07/09/91	629.40	631.98	613.90	604.90	NP	0.00	12.85	10.27	619.13	Yes	
MW-09	10/08/91	629.40	631.98	613.90	604.90	NP	0.00	11.98	9.40	620.00	Yes	
MW-09	01/07/92	629.40	631.98	613.90	604.90	NP	0.00	10.20	7.62	621.78	Yes	
MW-09	10/14/92	629.40	631.98	613.90	604.90	NP	0.00	9.98	7.40	622.00	Yes	
MW-09	01/29/94	629.40	631.98	613.90	604.90	NP	0.00	14.04	11.46	617.94	Yes	
MW-09	04/27/94	629.40	631.98	613.90	604.90	NP	0.00	12.84	10.26	619.14	Yes	
MW-09	07/21/94	629.40	631.98	613.90	604.90	NP	0.00	12.96	10.38	619.02	Yes	
MW-09	10/25/94	629.40	631.98	613.90	604.90	NP	0.00	11.62	9.04	620.36	Yes	
MW-09	10/27/94	629.40	631.98	613.90	604.90	NP	0.00	11.18	8.60	620.80	Yes	
MW-09	11/02/94	629.40	631.98	613.90	604.90	NP	0.00	9.30	6.72	622.68	Yes	
MW-09	02/01/95	629.40	631.98	613.90	604.90	NP	0.00	14.66	12.08	617.32	Yes	
MW-09	04/04/95	629.40	631.98	613.90	604.90	NP	0.00	15.61	13.03	616.37	Yes	
MW-09	07/12/95	629.40	631.98	613.90	604.90	NP	0.00	13.70	11.12	618.28	Yes	
MW-09	11/13/95	629.40	631.98	613.90	604.90	NP	0.00	10.19	7.61	621.79	Yes	
MW-09	03/13/96	629.40	631.98	613.90	604.90	NP	0.00	14.97	12.39	617.01	Yes	
MW-09	10/08/96	629.40	631.98	613.90	604.90	NP	0.00	10.94	8.36	621.04	Yes	
MW-09	04/29/97	629.40	631.98	613.90	604.90	NP	0.00	10.35	7.77	621.63	Yes	
MW-09	11/03/98	629.40	631.98	613.90	604.90	NP	0.00	14.24	11.66	617.74	Yes	
MW-09	03/02/99	629.40	631.98	613.90	604.90	NP	0.00	14.95	12.37	617.03	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-09	04/26/00	629.40	631.98	613.90	604.90	NP	0.00	14.20	11.62	617.78	Yes	
MW-09	08/18/00	629.40	631.98	613.90	604.90	NP	0.00	14.24	11.66	617.74	Yes	
MW-09	10/10/00	629.40	631.98	613.90	604.90	NP	0.00	14.66	12.08	617.32	Yes	
MW-09	11/05/02	629.40	631.98	613.90	604.90	NP	0.00	15.79	13.21	616.19	Yes	
MW-09	10/21/03	Monitoring Well Replaced Due to Road Construction										
MW-09	04/19/04	631.30	634.22	613.90	604.90	NP	0.00	20.55	17.63	613.67	No	
MW-09	11/16/04	631.30	634.22	613.90	604.90	NP	0.00	18.39	15.47	615.83	Yes	
MW-09	04/18/05	631.30	634.22	613.90	604.90	NP	0.00	19.32	16.40	614.90	Yes	
MW-09	10/11/05	631.30	634.22	613.90	604.90	NP	0.00	18.50	15.58	615.72	Yes	
MW-09	05/23/06	631.30	634.22	613.90	604.90	NP	0.00	17.69	14.77	616.53	Yes	
MW-09	10/16/06	631.30	634.22	613.90	604.90	NP	0.00	18.58	15.66	615.64	Yes	
MW-09	04/23/07	631.30	634.22	613.90	604.90	NP	0.00	19.31	16.39	614.91	Yes	
MW-09	09/25/07	631.30	634.22	613.90	604.90	NP	0.00	19.46	16.54	614.76	Yes	
MW-09	05/01/08	631.30	634.22	613.90	604.90	NP	0.00	18.21	15.29	616.01	Yes	
MW-09	10/20/08	631.30	634.22	613.90	604.90	NP	0.00	16.83	13.91	617.39	Yes	
MW-09	04/18/09	631.30	634.22	613.90	604.90	NP	0.00	17.66	14.74	616.56	Yes	
MW-09	10/11/09	631.30	634.22	613.90	604.90	NP	0.00	18.17	15.25	616.05	Yes	
MW-09	04/28/10	631.30	634.22	613.90	604.90	NP	0.00	18.12	15.20	616.10	Yes	
MW-09	10/25/10	631.30	634.22	613.90	604.90	NP	0.00	16.62	13.70	617.60	Yes	
MW-09	04/25/11	631.30	634.22	613.90	604.90	NP	0.00	17.42	14.50	616.80	Yes	
MW-09	10/10/11	631.30	634.22	613.90	604.90	NP	0.00	16.93	14.01	617.29	Yes	
MW-09	01/04/12	631.30	634.22	613.90	604.90	NP	0.00	18.12	15.20	616.10	Yes	
MW-09	04/16/12	631.30	634.22	613.90	604.90	NP	0.00	18.75	15.83	615.47	Yes	
MW-09	06/26/12	631.30	634.22	613.90	604.90	NP	0.00	16.50	13.58	617.72	Yes	
MW-09	09/30/12	631.30	634.22	613.90	604.90	NP	0.00	17.92	15.00	616.30	Yes	
MW-09	12/17/12	631.30	634.22	613.90	604.90	NP	0.00	18.54	15.62	615.68	Yes	
MW-09	03/25/13	631.30	634.22	613.90	604.90	NP	0.00	19.38	16.46	614.84	Yes	
MW-09	05/05/13	631.30	634.22	613.90	604.90	NP	0.00	19.07	16.15	615.15	Yes	
MW-10	03/23/88	631.40	633.77	615.90	606.90	NP	0.00	18.01	15.64	615.76	No	
MW-10	09/08/88	631.40	633.77	615.90	606.90	NP	0.00	18.38	16.01	615.39	No	
MW-10	09/20/88	631.40	633.77	615.90	606.90	NP	0.00	18.60	16.23	615.17	No	
MW-10	04/27/89	631.40	633.77	615.90	606.90	NP	0.00	18.37	16.00	615.40	No	
MW-10	05/18/89	631.40	633.77	615.90	606.90	NP	0.00	18.10	15.73	615.67	No	
MW-10	06/30/89	631.40	633.77	615.90	606.90	NP	0.00	17.55	15.18	616.22	Yes	
MW-10	07/12/89	631.40	633.77	615.90	606.90	NP	0.00	17.66	15.29	616.11	Yes	
MW-10	07/26/89	631.40	633.77	615.90	606.90	NP	0.00	17.61	15.24	616.16	Yes	
MW-10	07/27/89	631.40	633.77	615.90	606.90	NP	0.00	17.68	15.31	616.09	Yes	
MW-10	09/03/89	631.40	633.77	615.90	606.90	NP	0.00	17.73	15.36	616.04	Yes	
MW-10	11/16/89	631.40	633.77	615.90	606.90	NP	0.00	17.94	15.57	615.83	No	
MW-10	11/28/89	631.40	633.77	615.90	606.90	NP	0.00	18.20	15.83	615.57	No	
MW-10	06/01/90	631.40	633.77	615.90	606.90	NP	0.00	18.34	15.97	615.43	No	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-10	06/19/90	631.40	633.77	615.90	606.90	NP	0.00	18.14	15.77	615.63	No	
MW-10	06/27/90	631.40	633.77	615.90	606.90	NP	0.00	18.28	15.91	615.49	No	
MW-10	07/05/90	631.40	633.77	615.90	606.90	NP	0.00	18.50	16.13	615.27	No	
MW-10	07/13/90	631.40	633.77	615.90	606.90	NP	0.00	18.40	16.03	615.37	No	
MW-10	07/17/90	631.40	633.77	615.90	606.90	NP	0.00	18.23	15.86	615.54	No	
MW-10	07/25/90	631.40	633.77	615.90	606.90	NP	0.00	18.36	15.99	615.41	No	
MW-10	08/09/90	631.40	633.77	615.90	606.90	NP	0.00	18.28	15.91	615.49	No	
MW-10	08/14/90	631.40	633.77	615.90	606.90	NP	0.00	18.39	16.02	615.38	No	
MW-10	08/27/90	631.40	633.77	615.90	606.90	NP	0.00	18.09	15.72	615.68	No	
MW-10	09/06/90	631.40	633.77	615.90	606.90	NP	0.00	18.02	15.65	615.75	No	
MW-10	01/04/91	631.40	633.77	615.90	606.90	NP	0.00	17.44	15.07	616.33	Yes	
MW-10	01/30/91	631.40	633.77	615.90	606.90	NP	0.00	17.57	15.20	616.20	Yes	
MW-10	04/24/91	631.40	633.77	615.90	606.90	NP	0.00	18.19	15.82	615.58	No	
MW-10	07/09/91	631.40	633.77	615.90	606.90	NP	0.00	16.16	13.79	617.61	Yes	
MW-10	10/08/91	631.40	633.77	615.90	606.90	NP	0.00	14.89	12.52	618.88	Yes	
MW-10	01/07/92	631.40	633.77	615.90	606.90	NP	0.00	14.88	12.51	618.89	Yes	
MW-10	10/14/92	631.40	633.77	615.90	606.90	NP	0.00	14.87	12.50	618.90	Yes	
MW-10	01/29/94	631.40	633.77	615.90	606.90	NP	0.00	16.01	13.64	617.76	Yes	
MW-10	04/27/94	631.40	633.77	615.90	606.90	NP	0.00	16.13	13.76	617.64	Yes	
MW-10	07/21/94	631.40	633.77	615.90	606.90	NP	0.00	14.78	12.41	618.99	Yes	
MW-10	10/25/94	631.40	633.77	615.90	606.90	NP	0.00	15.25	12.88	618.52	Yes	
MW-10	10/27/94	631.40	633.77	615.90	606.90	NP	0.00	14.70	12.33	619.07	Yes	
MW-10	11/02/94	631.40	633.77	615.90	606.90	NP	0.00	17.20	14.83	616.57	Yes	
MW-10	02/01/95	631.40	633.77	615.90	606.90	NP	0.00	16.96	14.59	616.81	Yes	
MW-10	04/04/95	631.40	633.77	615.90	606.90	NP	0.00	17.12	14.75	616.65	Yes	
MW-10	07/12/95	631.40	633.77	615.90	606.90	NP	0.00	16.15	13.78	617.62	Yes	
MW-10	11/13/95	631.40	633.77	615.90	606.90	NP	0.00	14.88	12.51	618.89	Yes	
MW-10	03/13/96	631.40	633.77	615.90	606.90	16.67	0.01	16.68	14.30	617.10	Yes	
MW-10	10/08/96	631.40	633.77	615.90	606.90	NP	0.00	14.02	11.65	619.75	Yes	
MW-10	04/29/97	631.40	633.77	615.90	606.90	NP	0.00	13.30	10.93	620.47	Yes	
MW-10	11/03/98	631.40	633.77	615.90	606.90	NP	0.00	17.01	14.64	616.76	Yes	
MW-10	03/02/99	631.40	633.77	615.90	606.90	NP	0.00	17.01	14.64	616.76	Yes	
MW-10	04/26/00	631.40	633.77	615.90	606.90	NP	0.00	16.18	13.81	617.59	Yes	
MW-10	08/18/00	631.40	633.77	615.90	606.90	NP	0.00	16.62	14.25	617.15	Yes	
MW-10	10/10/00	631.40	633.77	615.90	606.90	NP	0.00	16.80	14.43	616.97	Yes	
MW-10	09/30/02	631.40	633.77	615.90	606.90	NP	0.00	17.09	14.72	616.68	Yes	
MW-10	11/05/02	631.40	633.77	615.90	606.90	NP	0.00	16.34	13.97	617.43	Yes	
MW-10	06/10/03	631.40	633.77	615.90	606.90	NP	0.00	17.85	15.48	615.92	Yes	
MW-10	10/20/03	631.40	633.77	615.90	606.90	NP	0.00	17.97	15.60	615.80	No	
MW-10	12/03/03	631.40	633.77	615.90	606.90	NP	0.00	18.31	15.94	615.46	No	
MW-10	04/19/04	634.75	633.83	615.90	606.90	NP	0.00	18.39	19.31	615.44	No	
MW-10	07/28/04	634.75	633.83	615.90	606.90	NP	0.00	17.74	18.66	616.09	Yes	

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MW-10	11/16/04	634.75	633.83	615.90	606.90	NP	0.00	17.17	18.09	616.66	Yes	
MW-10	04/18/05	634.75	633.83	615.90	606.90	NP	0.00	17.39	18.31	616.44	Yes	
MW-10	10/11/05	634.75	633.83	615.90	606.90	NP	0.00	16.62	17.54	617.21	Yes	
MW-10	05/23/06	634.75	633.83	615.90	606.90	NP	0.00	15.91	16.83	617.92	Yes	
MW-10	10/16/06	634.75	633.83	615.90	606.90	NP	0.00	16.81	17.73	617.02	Yes	
MW-10	04/23/07	634.75	633.83	615.90	606.90	NP	0.00	17.69	18.61	616.14	Yes	
MW-10	09/25/07	634.75	635.95	615.90	606.90	NP	0.00	19.56	18.36	616.39	Yes	
MW-10	05/01/08	634.75	635.95	615.90	606.90	NP	0.00	18.35	17.15	617.60	Yes	
MW-10	10/20/08	634.75	635.95	615.90	606.90	NP	0.00	17.26	16.06	618.69	Yes	
MW-10	04/18/09	634.75	635.95	615.90	606.90	NP	0.00	18.33	17.13	617.62	Yes	
MW-10	10/11/09	634.75	635.95	615.90	606.90	NP	0.00	18.79	17.59	617.16	Yes	
MW-10	04/28/10	634.75	635.95	615.90	606.90	NP	0.00	18.91	17.71	617.04	Yes	
MW-10	10/25/10	634.75	635.95	615.90	606.90	NP	0.00	16.70	15.50	619.25	Yes	
MW-10	04/25/11	634.75	635.95	615.90	606.90	NP	0.00	17.92	16.72	618.03	Yes	
MW-10	10/10/11	634.75	635.95	615.90	606.90	NP	0.00	17.48	16.28	618.47	Yes	
MW-10	01/04/12	634.75	635.95	615.90	606.90	NP	0.00	18.78	17.58	617.17	Yes	
MW-10	04/16/12	634.75	635.95	615.90	606.90	NP	0.00	19.57	18.37	616.38	Yes	
MW-10	06/26/12	634.75	635.95	615.90	606.90	NP	0.00	17.18	15.98	618.77	Yes	
MW-10	09/30/12	634.75	635.95	615.90	606.90	NP	0.00	18.61	17.41	617.34	Yes	
MW-10	12/17/12	634.75	635.95	615.90	606.90	NP	0.00	19.21	18.01	616.74	Yes	
MW-10	03/25/13	634.75	635.95	615.90	606.90	NP	0.00	19.97	18.77	615.98	Yes	
MW-10	05/05/13	634.75	635.95	615.90	606.90	NP	0.00	19.76	18.56	616.19	Yes	
MW-10	10/03/13	634.75	635.95	615.90	606.90	NP	0.00	19.31	18.11	616.64	Yes	
MW-10	05/21/14	634.75	635.95	615.90	606.90	NP	0.00	17.85	16.65	618.10	Yes	
MW-10	10/31/14	634.75	635.95	615.90	606.90	NP	0.00	17.43	16.23	618.52	Yes	
MW-10	05/05/15	634.75	635.95	615.90	606.90	NP	0.00	19.14	17.94	616.81	Yes	
MW-10	10/05/15	634.75	635.95	615.90	606.90	NP	0.00	17.08	15.88	618.87	Yes	
MW-10	05/23/16	634.75	635.95	615.90	606.90	NP	0.00	15.15	13.95	620.80	Yes	
MW-10	10/03/16	634.75	635.95	615.90	606.90	NP	0.00	16.22	15.02	619.73	Yes	
MW-11	03/23/88	630.10	632.57	614.90	605.90	NP	0.00	17.13	14.66	615.44	Yes	
MW-11	09/08/88	630.10	632.57	614.90	605.90	NP	0.00	17.50	15.03	615.07	Yes	
MW-11	09/20/88	630.10	632.57	614.90	605.90	NP	0.00	17.55	15.08	615.02	Yes	
MW-11	04/27/89	630.10	632.57	614.90	605.90	NP	0.00	17.93	15.46	614.64	No	
MW-11	05/18/89	630.10	632.57	614.90	605.90	NP	0.00	17.36	14.89	615.21	Yes	
MW-11	06/30/89	630.10	632.57	614.90	605.90	NP	0.00	16.88	14.41	615.69	Yes	
MW-11	07/12/89	630.10	632.57	614.90	605.90	NP	0.00	16.95	14.48	615.62	Yes	
MW-11	07/26/89	630.10	632.57	614.90	605.90	NP	0.00	17.01	14.54	615.56	Yes	
MW-11	07/27/89	630.10	632.57	614.90	605.90	NP	0.00	17.04	14.57	615.53	Yes	
MW-11	09/03/89	630.10	632.57	614.90	605.90	NP	0.00	17.14	14.67	615.43	Yes	
MW-11	11/16/89	630.10	632.57	614.90	605.90	NP	0.00	17.15	14.68	615.42	Yes	
MW-11	11/28/89	630.10	632.57	614.90	605.90	NP	0.00	17.25	14.78	615.32	Yes	

Table 2
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MW-11	06/01/90	630.10	632.57	614.90	605.90	NP	0.00	17.33	14.86	615.24	Yes	
MW-11	06/19/90	630.10	632.57	614.90	605.90	NP	0.00	16.91	14.44	615.66	Yes	
MW-11	06/27/90	630.10	632.57	614.90	605.90	NP	0.00	17.12	14.65	615.45	Yes	
MW-11	07/05/90	630.10	632.57	614.90	605.90	NP	0.00	17.24	14.77	615.33	Yes	
MW-11	07/13/90	630.10	632.57	614.90	605.90	NP	0.00	17.33	14.86	615.24	Yes	
MW-11	07/17/90	630.10	632.57	614.90	605.90	NP	0.00	17.19	14.72	615.38	Yes	
MW-11	07/25/90	630.10	632.57	614.90	605.90	NP	0.00	17.30	14.83	615.27	Yes	
MW-11	08/09/90	630.10	632.57	614.90	605.90	NP	0.00	17.30	14.83	615.27	Yes	
MW-11	08/14/90	630.10	632.57	614.90	605.90	NP	0.00	17.39	14.92	615.18	Yes	
MW-11	08/27/90	630.10	632.57	614.90	605.90	NP	0.00	17.21	14.74	615.36	Yes	
MW-11	09/06/90	630.10	632.57	614.90	605.90	NP	0.00	17.12	14.65	615.45	Yes	
MW-11	01/04/91	630.10	632.57	614.90	605.90	NP	0.00	16.80	14.33	615.77	Yes	
MW-11	01/30/91	630.10	632.57	614.90	605.90	NP	0.00	16.99	14.52	615.58	Yes	
MW-11	04/24/91	630.10	632.57	614.90	605.90	NP	0.00	17.31	14.84	615.26	Yes	
MW-11	07/09/91	630.10	632.57	614.90	605.90	NP	0.00	15.56	13.09	617.01	Yes	
MW-11	10/08/91	630.10	632.57	614.90	605.90	NP	0.00	14.07	11.60	618.50	Yes	
MW-11	01/07/92	630.10	632.57	614.90	605.90	NP	0.00	14.16	11.69	618.41	Yes	
MW-11	10/14/92	630.10	632.57	614.90	605.90	NP	0.00	14.06	11.59	618.51	Yes	
MW-11	01/29/94	630.10	632.57	614.90	605.90	NP	0.00	15.12	12.65	617.45	Yes	
MW-11	04/27/94	630.10	632.57	614.90	605.90	NP	0.00	15.16	12.69	617.41	Yes	
MW-11	07/21/94	630.10	632.57	614.90	605.90	NP	0.00	13.95	11.48	618.62	Yes	
MW-11	10/25/94	630.10	632.57	614.90	605.90	NP	0.00	13.90	11.43	618.67	Yes	
MW-11	10/27/94	630.10	632.57	614.90	605.90	NP	0.00	13.51	11.04	619.06	Yes	
MW-11	02/01/95	630.10	632.57	614.90	605.90	NP	0.00	18.05	15.58	614.52	No	
MW-11	04/04/95	630.10	632.57	614.90	605.90	NP	0.00	16.09	13.62	616.48	Yes	
MW-11	07/12/95	630.10	632.57	614.90	605.90	NP	0.00	15.13	12.66	617.44	Yes	
MW-11	11/13/95	630.10	632.57	614.90	605.90	NP	0.00	13.85	11.38	618.72	Yes	
MW-11	03/13/96	630.10	632.57	614.90	605.90	NP	0.00	15.79	13.32	616.78	Yes	
MW-11	10/08/96	630.10	632.57	614.90	605.90	NP	0.00	13.26	10.79	619.31	Yes	
MW-11	04/29/97	630.10	632.57	614.90	605.90	NP	0.00	12.85	10.38	619.72	Yes	
MW-11	11/03/98	630.10	632.57	614.90	605.90	NP	0.00	15.93	13.46	616.64	Yes	
MW-11	03/02/99	630.10	632.57	614.90	605.90	NP	0.00	16.78	14.31	615.79	Yes	
MW-11	04/26/00	630.10	632.57	614.90	605.90	NP	0.00	15.39	12.92	617.18	Yes	
MW-11	08/18/00	630.10	632.57	614.90	605.90	NP	0.00	15.95	13.48	616.62	Yes	
MW-11	10/10/00	630.10	632.57	614.90	605.90	NP	0.00	15.95	13.48	616.62	Yes	
MW-11	11/05/02	630.10	632.57	614.90	605.90	NP	0.00	15.95	13.48	616.62	Yes	Cover Rusted On
MW-11	08/18/03						Abandoned					
MW-12	03/23/88	630.60	633.72	617.10	608.10	16.95	0.73	17.68	13.99	616.61	No	
MW-12	09/08/88	630.60	633.72	617.10	608.10	17.14	1.31	18.45	14.32	616.28	No	
MW-12	09/20/88	630.60	633.72	617.10	608.10	17.18	1.72	18.90	14.45	616.15	No	
MW-12	04/27/89	630.60	633.72	617.10	608.10	17.36	2.45	19.81	14.79	615.81	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-12	05/18/89	630.60	633.72	617.10	608.10	17.04	1.77	18.81	14.32	616.28	No	
MW-12	06/30/89	630.60	633.72	617.10	608.10	16.7	0.63	17.33	13.72	616.88	No	
MW-12	07/12/89	630.60	633.72	617.10	608.10	16.76	1.07	17.83	13.88	616.72	No	
MW-12	07/26/89	630.60	633.72	617.10	608.10	16.73	0.88	17.61	13.81	616.79	No	
MW-12	07/27/89	630.60	633.72	617.10	608.10	16.74	1.49	18.23	13.96	616.64	No	
MW-12	09/03/89	630.60	633.72	617.10	608.10	16.81	2.01	18.82	14.14	616.46	No	
MW-12	11/16/89	630.60	633.72	617.10	608.10	16.17	2.51	18.68	13.62	616.98	No	
MW-12	11/29/89	630.60	633.72	617.10	608.10	16.76	1.59	18.35	14.00	616.60	No	
MW-12	12/01/89	630.60	633.72	617.10	608.10	16.86	1.11	17.97	13.99	616.61	No	
MW-12	12/02/89	630.60	633.72	617.10	608.10	17.00	2.42	19.42	14.43	616.17	No	
MW-12	05/04/90	630.60	633.72	617.10	608.10	17.11	1.84	18.95	14.41	616.19	No	
MW-12	06/19/90	630.60	633.72	617.10	608.10	16.95	1.35	18.30	14.13	616.47	No	
MW-12	06/27/90	630.60	633.72	617.10	608.10	17.05	1.53	18.58	14.28	616.32	No	
MW-12	07/05/90	630.60	633.72	617.10	608.10	17.05	2.33	19.38	14.46	616.14	No	
MW-12	07/13/90	630.60	633.72	617.10	608.10	17.00	1.80	18.80	14.29	616.31	No	
MW-12	07/17/90	630.60	633.72	617.10	608.10	16.97	1.73	18.70	14.24	616.36	No	
MW-12	07/25/90	630.60	633.72	617.10	608.10	17.05	2.27	19.32	14.44	616.16	No	
MW-12	08/09/90	630.60	633.72	617.10	608.10	17.13	2.34	19.47	14.54	616.06	No	
MW-12	01/04/91	630.60	633.72	617.10	608.10	16.68	1.23	17.91	13.84	616.76	No	
MW-12	01/30/91	630.60	633.72	617.10	608.10	16.72	1.95	18.67	14.04	616.56	No	
MW-12	04/24/91	630.60	633.72	617.10	608.10	16.83	2.34	19.17	14.24	616.36	No	
MW-12	07/09/91	630.60	633.72	617.10	608.10	15.70	1.18	16.88	12.85	617.75	Yes	
MW-12	10/08/91	630.60	633.72	617.10	608.10	14.22	2.70	16.92	11.71	618.89	Yes	
MW-12	01/07/92	630.60	633.72	617.10	608.10	14.21	2.86	17.07	11.74	618.86	Yes	
MW-12	10/14/92	630.60	633.72	617.10	608.10	13.93	3.65	17.58	11.63	618.97	Yes	
MW-12	06/25/93	630.60	633.72	617.10	608.10	12.73	4.78	17.51	10.69	619.91	Yes	
MW-12	10/28/93	630.60	633.72	617.10	608.10	14.80	2.20	17.00	12.18	618.42	Yes	
MW-12	01/29/94	630.60	633.72	617.10	608.10	15.56	1.13	16.69	12.70	617.90	Yes	
MW-12	04/27/94	630.60	633.72	617.10	608.10	15.88	0.57	16.45	12.89	617.71	Yes	
MW-12	07/21/94	630.60	633.72	617.10	608.10	14.78	0.54	15.32	11.78	618.82	Yes	
MW-12	08/30/94	630.60	633.72	617.10	608.10	15.58	0.41	15.99	12.55	618.05	Yes	
MW-12	10/25/94	630.60	633.72	617.10	608.10	15.09	0.44	15.53	12.07	618.53	Yes	
MW-12	07/12/95	630.60	633.72	617.10	608.10	15.99	0.85	16.84	13.06	617.54	Yes	
MW-12	11/13/95	630.60	633.72	617.10	608.10	14.95	1.60	16.55	12.19	618.41	Yes	
MW-12	03/13/96	630.60	633.72	617.10	608.10	16.47	0.73	17.20	13.51	617.09	No	
MW-12	10/08/96	630.60	633.72	617.10	608.10	14.10	2.90	17.00	11.64	618.96	Yes	
MW-12	04/29/97	630.60	633.72	617.10	608.10	13.70	3.50	17.20	11.37	619.23	Yes	
MW-12	06/10/97	630.60	633.72	617.10	608.10	14.47	2.43	16.90	11.90	618.70	Yes	FP bailed 5/22/97
MW-12	11/03/98	630.60	633.72	617.10	608.10	16.71	1.66	18.37	13.96	616.64	No	
MW-12	03/02/99	630.60	633.72	617.10	608.10	16.75	2.34	19.09	14.16	616.44	No	
MW-12	10/07/99	630.60	633.72	617.10	608.10	14.28	3.28	17.56	11.90	618.70	Yes	
MW-12	11/09/99	630.60	633.72	617.10	608.10	14.26	3.11	17.37	11.84	618.76	Yes	bailed .5 gal. FP

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-12	12/21/99	630.60	633.72	617.10	608.10	17.21	0.15	17.36	14.12	616.48	No	bailed <0.1 gal. FP
MW-12	01/27/00	630.60	633.72	617.10	608.10	16.00	1.30	17.30	13.17	617.43	Yes	bailed 0.2 gal. FP
MW-12	02/24/00	630.60	633.72	617.10	608.10	16.31	0.98	17.29	13.41	617.19	Yes	bailed 0.2 gal. FP
MW-12	03/31/00	630.60	633.72	617.10	608.10	16.37	0.87	17.24	13.45	617.15	Yes	bailed 0.25 gal. FP
MW-12	04/20/00	630.60	633.72	617.10	608.10	16.12	2.11	18.23	13.48	617.12	Yes	bailed .5 gal. FP
MW-12	04/26/00	630.60	633.72	617.10	608.10	16.40	0.83	17.23	13.47	617.13	Yes	bailed .5 gal. FP
MW-12	05/31/00	630.60	633.72	617.10	608.10	16.49	0.56	17.05	13.50	617.10	Yes	bailed .125 gal. FP
MW-12	06/29/00	630.60	633.72	617.10	608.10	16.27	0.77	17.04	13.32	617.28	Yes	bailed 0.25 gal. FP
MW-12	07/26/00	630.60	633.72	617.10	608.10	16.40	0.69	17.09	13.44	617.16	Yes	bailed <0.1 gal. FP
MW-12	08/18/00	630.60	633.72	617.10	608.10	16.62	0.57	17.19	13.63	616.97	No	bailed 0.25 gal. FP
MW-12	09/27/00	630.60	633.72	617.10	608.10	16.83	0.43	17.26	13.81	616.79	No	bailed 0.125 gal. FP
MW-12	10/11/00	630.60	633.72	617.10	608.10	16.74	0.36	17.10	13.70	616.90	No	bailed 0.15 gal. FP
MW-12	11/17/00	630.60	633.72	617.10	608.10	16.89	0.46	17.35	13.87	616.73	No	bailed 0.25 gal. FP
MW-12	12/12/00	630.60	633.72	617.10	608.10	16.84	0.37	17.21	13.80	616.80	No	bailed 0.25 gal. FP
MW-12	01/18/01	630.60	633.72	617.10	608.10	17.10	0.26	17.36	14.04	616.56	No	bailed 0.25 gal. FP
MW-12	05/23/01	630.60	633.72	617.10	608.10	16.30	0.48	16.78	13.29	617.31	Yes	no product bailed
MW-12	06/19/01	630.60	633.72	617.10	608.10	16.24	0.58	16.82	13.25	617.35	Yes	
MW-12	07/26/01	630.60	633.72	617.10	608.10	16.49	0.56	17.05	13.50	617.10	Yes	
MW-12	08/31/01	630.60	633.72	617.10	608.10	16.90	0.39	17.29	13.87	616.73	No	
MW-12	09/26/01	630.60	633.72	617.10	608.10	16.92	0.36	17.28	13.88	616.72	No	
MW-12	10/24/01	630.60	633.72	617.10	608.10	17.00	0.30	17.30	13.95	616.65	No	
MW-12	12/20/01	630.60	633.72	617.10	608.10	17.51	0.21	17.72	14.44	616.16	No	
MW-12	01/22/02	630.60	633.72	617.10	608.10	17.49	0.08	17.57	14.39	616.21	No	
MW-12	02/26/02	630.60	633.72	617.10	608.10	17.73	0.22	17.95	14.66	615.94	No	
MW-12	03/20/02	630.60	633.72	617.10	608.10	17.81	0.60	18.41	14.83	615.77	No	
MW-12	04/24/02	630.60	633.72	617.10	608.10	16.71	0.19	16.90	13.63	616.97	No	
MW-12	05/15/02	630.60	633.72	617.10	608.10	17.41	0.09	17.50	14.31	616.29	No	
MW-12	06/27/02	630.60	633.72	617.10	608.10	17.58	0.14	17.72	14.49	616.11	No	
MW-12	07/25/02	630.60	633.72	617.10	608.10	17.45	0.17	17.62	14.37	616.23	No	
MW-12	08/20/02	630.60	633.72	617.10	608.10	17.49	0.19	17.68	14.41	616.19	No	
MW-12	09/30/02	630.60	633.72	617.10	608.10	17.07	0.29	17.36	14.02	616.58	No	
MW-12	11/05/02	630.60	633.72	617.10	608.10	16.98	0.36	17.34	13.94	616.66	No	
MW-12	12/23/02	630.60	633.72	617.10	608.10	17.19	0.31	17.50	14.14	616.46	No	
MW-12	01/28/03	630.60	633.72	617.10	608.10	17.60	0.28	17.88	14.54	616.06	No	
MW-12	02/19/03	630.60	633.72	617.10	608.10	17.72	0.20	17.92	14.65	615.95	No	
MW-12	04/17/03	630.60	633.72	617.10	608.10	17.91	1.12	19.03	15.04	615.56	No	
MW-12	10/23/03	630.60	633.72	617.10	608.10	18.03	1.50	19.53	15.25	615.35	No	
MW-12	12/03/03	630.60	633.72	617.10	608.10	18.12	1.83	19.95	15.41	615.19	No	
MW-12	04/19/04	632.36	633.91	617.10	608.10	18.62	2.43	21.05	17.62	614.74	No	
MW-12	07/28/04	632.36	633.91	617.10	608.10	18.08	0.82	18.90	16.72	615.64	No	
MW-12	11/15/04	632.36	633.91	617.10	608.10	17.55	0.15	17.70	16.03	616.33	No	
MW-12	04/18/05	632.36	633.91	617.10	608.10	17.42	0.16	17.58	15.91	616.45	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-12	10/11/05	632.36	633.91	617.10	608.10	17.09	0.62	17.71	15.68	616.68	No	
MW-12	05/23/06	632.36	633.91	617.10	608.10	16.35	1.55	17.90	15.15	617.21	Yes	
MW-12	10/16/06	632.36	633.91	617.10	608.10	17.18	1.01	18.19	15.86	616.50	No	
MW-12	04/23/07	632.36	633.91	617.10	608.10	17.68	1.92	19.60	16.56	615.80	No	
MW-12	09/25/07	632.36	633.91	617.10	608.10	17.71	1.93	19.64	16.60	615.76	No	
MW-12	05/01/08	632.36	633.91	617.10	608.10	16.62	1.70	18.32	15.45	616.91	No	
MW-12	10/20/08	632.36	633.91	617.10	608.10	15.59	2.49	18.08	14.60	617.76	Yes	
MW-12	04/18/09	632.36	633.91	617.10	608.10	16.44	1.99	18.43	15.34	617.02	No	
MW-12	10/11/09	632.36	633.91	617.10	608.10	17.07	1.85	18.92	15.94	616.42	No	
MW-12	04/28/10	632.36	633.91	617.10	608.10	16.96	1.72	18.68	15.80	616.56	No	
MW-12	10/25/10	632.36	633.91	617.10	608.10	15.30	2.92	18.22	14.41	617.95	Yes	
MW-12	04/25/11	632.36	633.91	617.10	608.10	16.50	2.37	18.87	15.49	616.87	No	
MW-12	10/10/11	632.36	633.91	617.10	608.10	16.12	2.57	18.69	15.15	617.21	Yes	
MW-12	01/04/12	632.36	633.91	617.10	608.10	17.05	2.24	19.29	16.01	616.35	No	
MW-12	04/16/12	632.36	633.91	617.10	608.10	17.61	1.34	18.95	16.36	616.00	No	
MW-12	06/26/12	632.36	633.91	617.10	608.10	15.35	3.07	18.42	14.49	617.87	Yes	
MW-12	07/12/12	632.36	633.91	617.10	608.10	15.95	2.64	18.59	15.00	617.36	Yes	Spill Buddy Before Reading
MW-12	07/12/12	632.36	633.91	617.10	608.10	16.62	0.36	16.98	15.15	617.21	Yes	Spill Buddy After Reading
MW-12	07/26/12	632.36	633.91	617.10	608.10	16.28	2.52	18.80	15.30	617.06	No	Spill Buddy Before Reading
MW-12	07/26/12	632.36	633.91	617.10	608.10	16.69	0.58	17.27	15.27	617.09	No	Spill Buddy After Reading
MW-12	08/09/12	632.36	633.91	617.10	608.10	16.67	1.72	18.39	15.51	616.85	No	Spill Buddy Before Reading
MW-12	08/09/12	632.36	633.91	617.10	608.10	17.00	0.40	17.40	15.54	616.82	No	Spill Buddy After Reading
MW-12	09/29/12	632.36	633.91	617.10	608.10	17.40	1.09	18.49	16.10	616.26	No	Spill Buddy Before Reading
MW-12	09/29/12	632.36	633.91	617.10	608.10	17.65	0.27	17.92	16.16	616.20	No	Spill Buddy After Reading
MW-12	09/30/12	632.36	633.91	617.10	608.10	17.38	0.98	18.36	16.05	616.31	No	
MW-12	11/21/12	632.36	633.91	617.10	608.10	17.78	0.82	18.60	16.42	615.94	No	
MW-12	12/17/12	632.36	633.91	617.10	608.10	17.96	0.67	18.63	16.56	615.80	No	
MW-12	05/05/13	632.36	633.91	617.10	608.10	18.23	0.59	18.82	16.81	615.55	No	
MW-12	10/03/13	632.36	633.91	617.10	608.10	18.02	0.74	18.76	16.64	615.72	No	
MW-13	03/23/88	634.40	636.48	618.80	609.80	NP	0.00	19.86	17.78	616.62	No	
MW-13	09/08/88	634.40	636.48	618.80	609.80	NP	0.00	20.07	17.99	616.41	No	
MW-13	09/20/88	634.40	636.48	618.80	609.80	NP	0.00	20.30	18.22	616.18	No	
MW-13	04/27/89	634.40	636.48	618.80	609.80	NP	0.00	20.19	18.11	616.29	No	
MW-13	05/18/89	634.40	636.48	618.80	609.80	NP	0.00	19.82	17.74	616.66	No	
MW-13	06/30/89	634.40	636.48	618.80	609.80	NP	0.00	18.57	16.49	617.91	No	
MW-13	07/12/89	634.40	636.48	618.80	609.80	NP	0.00	19.74	17.66	616.74	No	
MW-13	07/26/89	634.40	636.48	618.80	609.80	NP	0.00	19.67	17.59	616.81	No	
MW-13	07/27/89	634.40	636.48	618.80	609.80	NP	0.00	19.77	17.69	616.71	No	
MW-13	09/03/89	634.40	636.48	618.80	609.80	NP	0.00	19.93	17.85	616.55	No	
MW-13	11/16/89	634.40	636.48	618.80	609.80	NP	0.00	20.05	17.97	616.43	No	
MW-13	11/28/89	634.40	636.48	618.80	609.80	NP	0.00	20.27	18.19	616.21	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-13	06/01/90	634.40	636.48	618.80	609.80	NP	0.00	20.00	17.92	616.48	No	
MW-13	06/19/90	634.40	636.48	618.80	609.80	NP	0.00	19.95	17.87	616.53	No	
MW-13	06/27/90	634.40	636.48	618.80	609.80	NP	0.00	21.11	19.03	615.37	No	
MW-13	07/05/90	634.40	636.48	618.80	609.80	NP	0.00	20.38	18.30	616.10	No	
MW-13	07/13/90	634.40	636.48	618.80	609.80	NP	0.00	20.33	18.25	616.15	No	
MW-13	07/17/90	634.40	636.48	618.80	609.80	NP	0.00	20.75	18.67	615.73	No	
MW-13	07/25/90	634.40	636.48	618.80	609.80	NP	0.00	20.28	18.20	616.20	No	
MW-13	08/09/90	634.40	636.48	618.80	609.80	NP	0.00	20.13	18.05	616.35	No	
MW-13	08/14/90	634.40	636.48	618.80	609.80	NP	0.00	20.15	18.07	616.33	No	
MW-13	08/27/90	634.40	636.48	618.80	609.80	NP	0.00	19.90	17.82	616.58	No	
MW-13	09/06/90	634.40	636.48	618.80	609.80	NP	0.00	19.69	17.61	616.79	No	
MW-13	01/04/91	634.40	636.48	618.80	609.80	NP	0.00	19.45	17.37	617.03	No	
MW-13	01/30/91	634.40	636.48	618.80	609.80	NP	0.00	19.58	17.50	616.90	No	
MW-13	04/24/91	634.40	636.48	618.80	609.80	NP	0.00	20.11	18.03	616.37	No	
MW-13	07/09/91	634.40	636.48	618.80	609.80	NP	0.00	18.41	16.33	618.07	No	
MW-13	10/08/91	634.40	636.48	618.80	609.80	NP	0.00	17.07	14.99	619.41	Yes	
MW-13	01/07/92	634.40	636.48	618.80	609.80	NP	0.00	17.20	15.12	619.28	Yes	
MW-13	10/14/92	634.40	636.48	618.80	609.80	NP	0.00	16.88	14.80	619.60	Yes	
MW-13	01/29/94	634.40	636.48	618.80	609.80	NP	0.00	18.08	16.00	618.40	No	
MW-13	04/27/94	634.40	636.48	618.80	609.80	NP	0.00	18.19	16.11	618.29	No	
MW-13	07/21/94	634.40	636.48	618.80	609.80	NP	0.00	17.99	15.91	618.49	No	
MW-13	10/25/94	634.40	636.48	618.80	609.80	NP	0.00	17.33	15.25	619.15	Yes	
MW-13	10/27/94	634.40	636.48	618.80	609.80	NP	0.00	16.82	14.74	619.66	Yes	
MW-13	02/01/95	634.40	636.48	618.80	609.80	NP	0.00	18.51	16.43	617.97	No	
MW-13	04/04/95	634.40	636.48	618.80	609.80	NP	0.00	19.34	17.26	617.14	No	
MW-13	07/12/95	634.40	636.48	618.80	609.80	NP	0.00	18.21	16.13	618.27	No	
MW-13	11/13/95	634.40	636.48	618.80	609.80	NP	0.00	17.22	15.14	619.26	Yes	
MW-13	03/13/96	634.40	636.48	618.80	609.80	NP	0.00	18.68	16.60	617.80	No	
MW-13	10/08/96	634.40	636.48	618.80	609.80	NP	0.00	16.41	14.33	620.07	Yes	
MW-13	04/29/97	634.40	636.48	618.80	609.80	NP	0.00	15.85	13.77	620.63	Yes	
MW-13	11/03/98	634.40	636.48	618.80	609.80	NP	0.00	19.03	16.95	617.45	No	
MW-13	03/02/99	634.40	636.48	618.80	609.80	NP	0.00	19.02	16.94	617.46	No	
MW-13	04/26/00	634.40	636.48	618.80	609.80	NP	0.00	18.36	16.28	618.12	No	
MW-13	08/18/00	634.40	636.48	618.80	609.80	NP	0.00	18.35	16.27	618.13	No	
MW-13	11/05/02	634.40	636.48	618.80	609.80	NP	0.00	18.44	16.36	618.04	No	
MW-13	08/18/03						Abandoned					
MW-14	09/08/88	634.90	636.47	617.90	607.90	20.75	4.35	25.10	20.16	614.74	No	
MW-14	09/20/88	634.90	636.47	617.90	607.90	20.67	6.23	26.90	20.51	614.39	No	
MW-14	04/27/89	634.90	636.47	617.90	607.90	20.68	6.75	27.43	20.63	614.27	No	
MW-14	05/18/89	634.90	636.47	617.90	607.90	20.21	5.14	25.35	19.80	615.10	No	
MW-14	06/30/89	634.90	636.47	617.90	607.90	19.5	5.28	24.78	19.12	615.78	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	07/12/89	634.90	636.47	617.90	607.90	19.93	5.30	25.23	19.56	615.34	No	
MW-14	07/26/89	634.90	636.47	617.90	607.90	19.9	4.78	24.68	19.41	615.49	No	
MW-14	07/27/89	634.90	636.47	617.90	607.90	20.25	7.58	27.83	20.39	614.51	No	
MW-14	09/03/89	634.90	636.47	617.90	607.90	20.65	7.03	27.68	20.67	614.23	No	
MW-14	11/16/89	634.90	636.47	617.90	607.90	20.59	6.79	27.38	20.55	614.35	No	
MW-14	11/29/89	634.90	636.47	617.90	607.90	20.4	4.90	25.30	19.94	614.96	No	
MW-14	12/01/89	634.90	636.47	617.90	607.90	20.6	4.24	24.84	19.99	614.91	No	
MW-14	12/02/89	634.90	636.47	617.90	607.90	20.67	3.85	24.52	19.97	614.93	No	
MW-14	05/04/90	634.90	636.47	617.90	607.90	21.17	5.25	26.42	20.79	614.11	No	
MW-14	06/01/90	634.90	636.47	617.90	607.90	20.9	5.00	25.90	20.46	614.44	No	
MW-14	06/19/90	634.90	636.47	617.90	607.90	20.78	4.42	25.20	20.21	614.69	No	
MW-14	06/27/90	634.90	636.47	617.90	607.90	20.88	5.53	26.41	20.56	614.34	No	
MW-14	07/05/90	634.90	636.47	617.90	607.90	21.17	4.99	26.16	20.73	614.17	No	
MW-14	07/13/90	634.90	636.47	617.90	607.90	20.88	5.62	26.50	20.58	614.32	No	
MW-14	07/17/90	634.90	636.47	617.90	607.90	20.75	5.90	26.65	20.51	614.39	No	
MW-14	07/25/90	634.90	636.47	617.90	607.90	20.87	6.91	27.78	20.86	614.04	No	
MW-14	08/09/90	634.90	636.47	617.90	607.90	20.83	6.27	27.10	20.68	614.22	No	
MW-14	08/27/90	634.90	636.47	617.90	607.90	20.82	5.83	26.65	20.57	614.33	No	
MW-14	09/06/90	634.90	636.47	617.90	607.90	20.68	4.47	25.15	20.12	614.78	No	
MW-14	01/04/91	634.90	636.47	617.90	607.90	20.11	4.76	24.87	19.62	615.28	No	
MW-14	01/30/91	634.90	636.47	617.90	607.90	20.25	5.52	25.77	19.93	614.97	No	
MW-14	04/24/91	634.90	636.47	617.90	607.90	20.78	3.27	24.05	19.95	614.95	No	
MW-14	06/06/91	634.90	636.47	617.90	607.90	19.82	1.70	21.52	18.63	616.27	No	
MW-14	07/09/91	634.90	636.47	617.90	607.90	18.91	1.37	20.28	17.65	617.25	No	
MW-14	08/06/91	634.90	636.47	617.90	607.90	18.02	1.22	19.24	16.73	618.17	Yes	
MW-14	09/04/91	634.90	636.47	617.90	607.90	18.00	1.34	19.34	16.73	618.17	Yes	
MW-14	10/08/91	634.90	636.47	617.90	607.90	17.12	1.30	18.42	15.84	619.06	Yes	
MW-14	11/08/91	634.90	636.47	617.90	607.90	17.79	1.35	19.14	16.52	618.38	Yes	
MW-14	12/03/91	634.90	636.47	617.90	607.90	16.05	1.25	17.30	14.76	620.14	Yes	
MW-14	01/07/92	634.90	636.47	617.90	607.90	17.57	1.27	18.84	16.29	618.61	Yes	
MW-14	02/04/92	634.90	636.47	617.90	607.90	18.30	1.20	19.50	17.00	617.90	No	
MW-14	03/03/92	634.90	636.47	617.90	607.90	18.70	1.38	20.08	17.44	617.46	No	
MW-14	09/24/92	634.90	636.47	617.90	607.90	16.89	1.20	18.09	15.59	619.31	Yes	
MW-14	10/14/92	634.90	636.47	617.90	607.90	17.83	1.31	19.14	16.56	618.34	Yes	
MW-14	06/25/93	634.90	636.47	617.90	607.90	14.65	1.82	16.47	13.49	621.41	Yes	
MW-14	10/28/93	634.90	636.47	617.90	607.90	18.20	1.82	20.02	17.04	617.86	No	
MW-14	01/29/94	634.90	636.47	617.90	607.90	18.89	1.80	20.69	17.73	617.17	No	
MW-14	04/27/94	634.90	636.47	617.90	607.90	18.60	5.07	23.67	18.18	616.72	No	
MW-14	07/21/94	634.90	636.47	617.90	607.90	17.20	2.18	19.38	16.12	618.78	Yes	
MW-14	10/25/94	634.90	636.47	617.90	607.90	17.91	2.10	20.01	16.81	618.09	Yes	
MW-14	11/02/94	634.90	636.47	617.90	607.90	15.58	3.02	18.60	14.69	620.21	Yes	
MW-14	02/01/95	634.90	636.47	617.90	607.90	19.79	1.71	21.50	18.61	616.29	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	04/04/95	634.90	636.47	617.90	607.90	19.98	2.52	22.50	18.98	615.92	No	
MW-14	07/12/95	634.90	636.47	617.90	607.90	19.01	1.23	20.24	17.72	617.18	No	
MW-14	11/14/95	634.90	636.47	617.90	607.90	17.59	0.66	18.25	16.17	618.73	Yes	
MW-14	03/13/96	634.90	636.47	617.90	607.90	19.70	1.70	21.40	18.51	616.39	No	
MW-14	10/08/96	634.90	636.47	617.90	607.90	16.50	1.43	17.93	15.25	619.65	Yes	
MW-14	04/29/97	634.90	636.47	617.90	607.90	15.45	1.40	16.85	14.20	620.70	Yes	
MW-14	06/10/97	634.90	636.47	617.90	607.90	17.18	0.27	17.45	15.67	619.23	Yes	FP bailed 5/22/97
MW-14	11/03/98	634.90	636.47	617.90	607.90	19.60	3.34	22.94	18.78	616.12	No	
MW-14	03/02/99	634.90	636.47	617.90	607.90	19.74	3.44	23.18	18.95	615.95	No	
MW-14	10/07/99	634.90	636.47	617.90	607.90	16.49	0.16	16.65	14.96	619.94	Yes	
MW-14	11/09/99	634.90	636.47	617.90	607.90	16.30	0.41	16.71	14.82	620.08	Yes	bailed <0.1 gal. FP
MW-14	12/21/99	634.90	636.47	617.90	607.90	18.25	0.05	18.30	16.69	618.21	Yes	
MW-14	01/27/00	634.90	636.47	617.90	607.90	19.10	0.01	19.11	17.53	617.37	No	
MW-14	02/24/00	634.90	636.47	617.90	607.90	17.70	2.31	20.01	16.65	618.25	Yes	bailed <0.1 gal. FP
MW-14	03/31/00	634.90	636.47	617.90	607.90	19.17	1.53	20.70	17.95	616.95	No	bailed 0.25 gal. FP
MW-14	04/20/00	634.90	636.47	617.90	607.90	19.00	1.38	20.38	17.74	617.16	No	bailed 0.25 gal. FP
MW-14	04/26/00	634.90	636.47	617.90	607.90	18.93	1.10	20.03	17.61	617.29	No	bailed 1 gal. FP
MW-14	05/31/00	634.90	636.47	617.90	607.90	19.07	0.13	19.20	17.53	617.37	No	bailed 0.125 gal. FP
MW-14	06/29/00	634.90	636.47	617.90	607.90	19.03	0.11	19.14	17.48	617.42	No	bailed 0.1 gal. FP
MW-14	07/26/00	634.90	636.47	617.90	607.90	19.19	0.05	19.24	17.63	617.27	No	
MW-14	08/18/00	634.90	636.47	617.90	607.90	19.56	0.07	19.63	18.01	616.89	No	bailed 0.125 gal. FP
MW-14	09/27/00	634.90	636.47	617.90	607.90	19.76	1.00	20.76	18.42	616.48	No	bailed 0.125 gal. FP
MW-14	10/11/00	634.90	636.47	617.90	607.90	19.97	1.16	21.13	18.66	616.24	No	bailed 0.75 gal. FP
MW-14	11/17/00	634.90	636.47	617.90	607.90	19.53	2.33	21.86	18.49	616.41	No	bailed 1.75 gal. FP
MW-14	12/12/00	634.90	636.47	617.90	607.90	19.50	0.97	20.47	18.15	616.75	No	bailed 1.25 gal. FP
MW-14	01/18/01	634.90	636.47	617.90	607.90	19.76	0.99	20.75	18.41	616.49	No	bailed 2 gal. FP
MW-14	04/24/01	634.90	636.47	617.90	607.90	19.58	2.32	21.90	18.53	616.37	No	product abated using vactruck
MW-14	05/23/01	634.90	636.47	617.90	607.90	18.66	0.92	19.58	17.30	617.60	No	no product bailed
MW-14	06/19/01	634.90	636.47	617.90	607.90	18.49	0.88	19.37	17.12	617.78	No	
MW-14	07/26/01	634.90	636.47	617.90	607.90	19.13	0.90	20.03	17.76	617.14	No	
MW-14	08/31/01	634.90	636.47	617.90	607.90	19.51	0.89	20.40	18.14	616.76	No	
MW-14	09/26/01	634.90	636.47	617.90	607.90	19.71	1.08	20.79	18.38	616.52	No	
MW-14	10/24/01	634.90	636.47	617.90	607.90	19.69	1.46	21.15	18.45	616.45	No	
MW-14	12/20/01	634.90	636.47	617.90	607.90	19.90	2.74	22.64	18.95	615.95	No	
MW-14	01/22/02	634.90	636.47	617.90	607.90	20.39	2.84	23.23	19.46	615.44	No	
MW-14	02/26/02	634.90	636.47	617.90	607.90	20.27	3.74	24.01	19.54	615.36	No	
MW-14	03/20/02	634.90	636.47	617.90	607.90	20.50	3.52	24.02	19.73	615.17	No	
MW-14	04/24/02	634.90	636.47	617.90	607.90	19.78	2.88	22.66	18.86	616.04	No	
MW-14	05/15/02	634.90	636.47	617.90	607.90	19.48	2.42	21.90	18.46	616.44	No	
MW-14	06/27/02	634.90	636.47	617.90	607.90	19.63	1.64	21.27	18.43	616.47	No	
MW-14	07/25/02	634.90	636.47	617.90	607.90	19.69	0.76	20.45	18.29	616.61	No	
MW-14	08/20/02	634.90	636.47	617.90	607.90	19.43	0.85	20.28	18.05	616.85	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	09/30/02	634.90	636.47	617.90	607.90	19.00	0.68	19.68	17.58	617.32	No	
MW-14	11/05/02	634.90	636.47	617.90	607.90	18.71	0.67	19.38	17.29	617.61	No	
MW-14	12/23/02	634.90	636.47	617.90	607.90	19.72	0.68	20.40	18.30	616.60	No	
MW-14	01/28/03	634.90	636.47	617.90	607.90	20.40	0.53	20.93	18.95	615.95	No	
MW-14	02/19/03	634.90	636.47	617.90	607.90	20.38	2.17	22.55	19.30	615.60	No	
MW-14	04/17/03	634.90	636.47	617.90	607.90	20.63	3.57	24.20	19.87	615.03	No	
MW-14	05/15/03	634.90	636.47	617.90	607.90	20.69	3.17	23.86	19.84	615.06	No	
MW-14	06/10/03	634.90	636.47	617.90	607.90	20.51	2.03	22.54	19.40	615.50	No	
MW-14	10/23/03	634.90	636.47	617.90	607.90	20.85	2.43	23.28	19.83	615.07	No	
MW-14	12/03/03	634.90	636.47	617.90	607.90	20.92	2.88	23.80	20.00	614.90	No	
MW-14	04/19/04	635.05	636.38	617.90	607.90	21.35	3.73	25.08	20.86	614.19	No	
MW-14	07/28/04	635.05	636.38	617.90	607.90	20.63	0.94	21.57	19.51	615.54	No	
MW-14	11/15/04	635.05	636.38	617.90	607.90	19.63	0.30	19.93	18.37	616.68	No	
MW-14	04/18/05	635.05	636.38	617.90	607.90	20.37	1.05	21.42	19.28	615.77	No	
MW-14	09/09/05	635.05	636.38	617.90	607.90	19.83	0.91	20.74	18.71	616.34	No	
MW-14	10/11/05	635.05	636.38	617.90	607.90	19.51	0.88	20.39	18.38	616.67	No	
MW-14	05/23/06	635.05	636.38	617.90	607.90	18.54	1.28	19.82	17.50	617.55	No	
MW-14	10/16/06	635.05	636.38	617.90	607.90	19.88	2.33	22.21	19.08	615.97	No	
MW-14	04/23/07	635.05	636.38	617.90	607.90	20.59	3.39	23.98	20.03	615.02	No	
MW-14	09/25/07	635.05	636.38	617.90	607.90	20.48	3.84	24.32	20.02	615.03	No	
MW-14	05/01/08	635.05	636.38	617.90	607.90	19.63	1.01	20.64	18.53	616.52	No	
MW-14	10/20/08	635.05	636.38	617.90	607.90	18.02	1.05	19.07	16.93	618.12	Yes	
MW-14	04/18/09	635.05	636.38	617.90	607.90	19.11	1.05	20.16	18.02	617.03	No	
MW-14	08/04/09	635.05	636.38	617.90	607.90	19.73	1.05	20.78	18.64	616.41	No	
MW-14	08/05/09	635.05	636.38	617.90	607.90	20.48	0.20	20.68	19.20	615.85	No	
MW-14	08/13/09	635.05	636.38	617.90	607.90	19.98	0.13	20.11	18.68	616.37	No	
MW-14	08/18/09	635.05	636.38	617.90	607.90	19.91	0.10	20.01	18.60	616.45	No	
MW-14	08/26/09	635.05	636.38	617.90	607.90	19.51	0.09	19.60	18.20	616.85	No	
MW-14	09/03/09	635.05	636.38	617.90	607.90	19.30	0.10	19.40	17.99	617.06	No	
MW-14	09/08/09	635.05	636.38	617.90	607.90	19.38	0.09	19.47	18.07	616.98	No	
MW-14	09/14/09	635.05	636.38	617.90	607.90	19.44	0.08	19.52	18.13	616.92	No	
MW-14	10/11/09	635.05	636.38	617.90	607.90	20.06	0.15	20.21	18.76	616.29	No	
MW-14	10/15/09	635.05	636.38	617.90	607.90	20.06	0.15	20.21	18.76	616.29	No	
MW-14	04/28/10	635.05	636.38	617.90	607.90	19.92	1.13	21.05	18.85	616.20	No	
MW-14	10/25/10	635.05	636.38	617.90	607.90	17.67	1.05	18.72	16.58	618.47	Yes	
MW-14	04/25/11	635.05	636.38	617.90	607.90	18.89	1.07	19.96	17.80	617.25	No	
MW-14	08/04/11	635.05	636.38	617.90	607.90	17.19	1.03	18.22	16.09	618.96	Yes	
MW-14	09/14/11	635.05	636.38	617.90	607.90	18.45	0.14	18.59	17.15	617.90	No	
MW-14	09/23/11	635.05	636.38	617.90	607.90	18.56	0.15	18.71	17.26	617.79	No	
MW-14	09/29/11	635.05	636.38	617.90	607.90	18.50	0.22	18.72	17.22	617.83	No	
MW-14	10/07/11	635.05	636.38	617.90	607.90	18.58	0.14	18.72	17.28	617.77	No	
MW-14	10/10/11	635.05	636.38	617.90	607.90	18.79	0.10	18.89	17.48	617.57	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-14	10/21/11	635.05	636.38	617.90	607.90	18.99	0.14	19.13	17.69	617.36	No	
MW-14	10/27/11	635.05	636.38	617.90	607.90	19.13	0.16	19.29	17.84	617.21	No	
MW-14	11/04/11	635.05	636.38	617.90	607.90	19.34	0.15	19.49	18.04	617.01	No	
MW-14	11/09/11	635.05	636.38	617.90	607.90	19.23	0.15	19.38	17.93	617.12	No	
MW-14	11/18/11	635.05	636.38	617.90	607.90	19.40	0.15	19.55	18.10	616.95	No	
MW-14	11/22/11	635.05	636.38	617.90	607.90	19.52	0.17	19.69	18.23	616.82	No	
MW-14	12/01/11	635.05	636.38	617.90	607.90	19.91	0.17	20.08	18.62	616.43	No	
MW-14	01/04/12	635.05	636.38	617.90	607.90	20.04	1.08	21.12	18.95	616.10	No	
MW-14	02/16/12	635.05	636.38	617.90	607.90	20.35	2.70	23.05	19.63	615.42	No	
MW-14	03/13/12	635.05	636.38	617.90	607.90	20.32	3.42	23.74	19.76	615.29	No	
MW-14	04/03/12	635.05	636.38	617.90	607.90	20.41	4.01	24.42	19.99	615.06	No	
MW-14	04/03/12	635.05	636.38	617.90	607.90	21.90	1.40	23.30	20.89	614.16	No	Spill Buddy Before Reading
MW-14	04/16/12	635.05	636.38	617.90	607.90	20.58	3.38	23.96	20.01	615.04	No	Spill Buddy After Reading
MW-14	06/18/12	635.05	636.38	617.90	607.90	19.06	0.86	19.92	17.92	617.13	No	
MW-14	06/26/12	635.05	636.38	617.90	607.90	18.31	0.96	19.27	17.20	617.85	No	
MW-14	07/12/12	635.05	636.38	617.90	607.90	18.49	0.97	19.46	17.38	617.67	No	
MW-14	07/24/12	635.05	636.38	617.90	607.90	18.84	0.99	19.83	17.73	617.32	No	
MW-14	08/09/12	635.05	636.38	617.90	607.90	18.99	1.01	20.00	17.89	617.16	No	Spill Buddy Before Reading
MW-14	08/09/12	635.05	636.38	617.90	607.90	ND	0.00	19.30	17.97	617.08	No	Spill Buddy After Reading
MW-14	08/17/12	635.05	636.38	617.90	607.90	19.33	0.09	19.42	18.02	617.03	No	
MW-14	09/17/12	635.05	636.38	617.90	607.90	19.78	0.06	19.84	18.46	616.59	No	
MW-14	09/20/12	635.05	636.38	617.90	607.90	19.85	0.07	19.92	18.54	616.51	No	
MW-14	09/30/12	635.05	636.38	617.90	607.90	19.97	0.06	20.03	18.65	616.40	No	
MW-14	10/22/12	635.05	636.38	617.90	607.90	20.16	1.48	21.64	19.16	615.89	No	
MW-14	11/21/12	635.05	636.38	617.90	607.90	20.05	2.83	22.88	19.36	615.69	No	
MW-14	12/17/12	635.05	636.38	617.90	607.90	20.21	3.51	23.72	19.67	615.38	No	
MW-14	03/25/13	635.05	636.38	617.90	607.90	20.90	4.24	25.14	20.53	614.52	No	
MW-14	05/05/13	635.05	636.38	617.90	607.90	20.75	3.97	24.72	20.32	614.73	No	
MW-14	10/03/13	635.05	636.38	617.90	607.90	20.32	2.21	22.53	19.49	615.56	No	
MW-14	05/22/14	635.05	636.38	617.90	607.90	18.96	0.37	19.33	17.71	617.34	No	
MW-14	10/31/14	635.05	636.38	617.90	607.90	18.63	0.34	18.97	17.38	617.67	No	
MW-14	05/06/15	635.05	636.38	617.90	607.90	20.06	2.41	22.47	19.27	615.78	No	
MW-14	07/10/15	635.05	636.38	617.90	607.90	19.27	0.68	19.95	18.09	616.96	No	
MW-14	10/05/15	635.05	636.38	617.90	607.90	18.43	0.03	18.46	17.11	617.94	Yes	
MW-14	05/23/16	635.05	636.38	617.90	607.90	16.03	0.37	16.40	14.78	620.27	Yes	
MW-14	10/03/16	635.05	636.38	617.90	607.90	17.54	0.01	17.55	16.21	618.84	Yes	
MW-14	06/14/17	635.05	636.38	617.90	607.90	NP	0.00	16.22	14.89	620.16	Yes	
MW-14	06/21/17	635.05	636.38	617.90	607.90	NP	0.00	16.73	15.40	619.65	Yes	
MW-14	06/22/17	635.05	636.38	617.90	607.90	NP	0.00	16.55	15.22	619.83	Yes	
MW-14	06/23/17	635.05	636.38	617.90	607.90	16.65	0.01	16.66	15.32	619.73	Yes	
MW-15S	09/08/88	630.10	632.73	615.10	605.10	NP	0.00	19.92	17.29	612.81	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-15S	09/20/88	630.10	632.73	615.10	605.10	NP	0.00	20.25	17.62	612.48	No	
MW-15S	04/27/89	630.10	632.73	615.10	605.10	NP	0.00	19.84	17.21	612.89	No	
MW-15S	05/18/89	630.10	632.73	615.10	605.10	NP	0.00	19.61	16.98	613.12	No	
MW-15S	06/30/89	630.10	632.73	615.10	605.10	NP	0.00	19.34	16.71	613.39	No	
MW-15S	07/12/89	630.10	632.73	615.10	605.10	NP	0.00	19.45	16.82	613.28	No	
MW-15S	07/26/89	630.10	632.73	615.10	605.10	NP	0.00	19.52	16.89	613.21	No	
MW-15S	07/27/89	630.10	632.73	615.10	605.10	NP	0.00	19.66	17.03	613.07	No	
MW-15S	09/03/89	630.10	632.73	615.10	605.10	NP	0.00	19.76	17.13	612.97	No	
MW-15S	11/16/89	630.10	632.73	615.10	605.10	NP	0.00	19.92	17.29	612.81	No	
MW-15S	11/28/89	630.10	632.73	615.10	605.10	NP	0.00	20.09	17.46	612.64	No	
MW-15S	06/01/90	630.10	632.73	615.10	605.10	NP	0.00	20.09	17.46	612.64	No	
MW-15S	06/19/90	630.10	632.73	615.10	605.10	NP	0.00	19.91	17.28	612.82	No	
MW-15S	06/27/90	630.10	632.73	615.10	605.10	NP	0.00	19.94	17.31	612.79	No	
MW-15S	07/05/90	630.10	632.73	615.10	605.10	NP	0.00	20.05	17.42	612.68	No	
MW-15S	07/13/90	630.10	632.73	615.10	605.10	NP	0.00	20.14	17.51	612.59	No	
MW-15S	07/17/90	630.10	632.73	615.10	605.10	NP	0.00	19.98	17.35	612.75	No	
MW-15S	07/25/90	630.10	632.73	615.10	605.10	NP	0.00	20.09	17.46	612.64	No	
MW-15S	08/09/90	630.10	632.73	615.10	605.10	NP	0.00	20.50	17.87	612.23	No	
MW-15S	08/14/90	630.10	632.73	615.10	605.10	NP	0.00	20.18	17.55	612.55	No	
MW-15S	01/04/91	630.10	632.73	615.10	605.10	NP	0.00	19.57	16.94	613.16	No	
MW-15S	01/30/91	630.10	632.73	615.10	605.10	NP	0.00	19.80	17.17	612.93	No	
MW-15S	04/24/91	630.10	632.73	615.10	605.10	NP	0.00	19.96	17.33	612.77	No	
MW-15S	07/09/91	630.10	632.73	615.10	605.10	NP	0.00	18.13	15.50	614.60	No	
MW-15S	10/08/91	630.10	632.73	615.10	605.10	NP	0.00	17.10	14.47	615.63	Yes	
MW-15S	01/07/92	630.10	632.73	615.10	605.10	NP	0.00	17.03	14.40	615.70	Yes	
MW-15S	10/14/92	630.10	632.73	615.10	605.10	NP	0.00	16.89	14.26	615.84	Yes	
MW-15S	06/25/93	630.10	632.73	615.10	605.10	NP	0.00	15.74	13.11	616.99	Yes	
MW-15S	10/28/93	630.10	632.73	615.10	605.10	NP	0.00	17.00	14.37	615.73	Yes	
MW-15S	01/29/94	630.10	632.73	615.10	605.10	NP	0.00	17.34	14.71	615.39	Yes	
MW-15S	04/27/94	630.10	632.73	615.10	605.10	NP	0.00	17.70	15.07	615.03	No	
MW-15S	06/14/94	630.10	632.73	615.10	605.10	NP	0.00	17.01	14.38	615.72	Yes	
MW-15S	07/21/94	630.10	632.73	615.10	605.10	NP	0.00	16.92	14.29	615.81	Yes	
MW-15S	08/30/94	630.10	632.73	615.10	605.10	NP	0.00	17.65	15.02	615.08	No	
MW-15S	10/25/94	630.10	632.73	615.10	605.10	NP	0.00	17.16	14.53	615.57	Yes	
MW-15S	10/27/94	630.10	632.73	615.10	605.10	NP	0.00	16.98	14.35	615.75	Yes	
MW-15S	02/01/95	630.10	632.73	615.10	605.10	NP	0.00	18.42	15.79	614.31	No	
MW-15S	04/04/95	630.10	632.73	615.10	605.10	NP	0.00	18.75	16.12	613.98	No	
MW-15S	07/12/95	630.10	632.73	615.10	605.10	NP	0.00	18.09	15.46	614.64	No	
MW-15S	11/13/95	630.10	632.73	615.10	605.10	NP	0.00	17.19	14.56	615.54	Yes	
MW-15S	03/13/96	630.10	632.73	615.10	605.10	NP	0.00	18.61	15.98	614.12	No	
MW-15S	04/22/96	630.10	632.73	615.10	605.10	NP	0.00	17.39	14.76	615.34	Yes	
MW-15S	10/08/96	630.10	632.73	615.10	605.10	NP	0.00	16.43	13.80	616.30	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-15S	04/29/97	630.10	632.73	615.10	605.10	NP	0.00	15.85	13.22	616.88	Yes	
MW-15S	11/03/98	630.10	632.73	615.10	605.10	NP	0.00	18.74	16.11	613.99	No	
MW-15S	03/02/99	630.10	632.73	615.10	605.10	NP	0.00	18.93	16.30	613.80	No	
MW-15S	04/26/00	630.10	632.73	615.10	605.10	NP	0.00	18.14	15.51	614.59	No	
MW-15S	10/10/00	630.10	632.73	615.10	605.10	NP	0.00	18.60	15.97	614.13	No	
MW-15S	10/23/01	630.10	632.73	615.10	605.10	NP	0.00	18.57	15.94	614.16	No	
MW-15S	04/23/02	630.10	632.73	615.10	605.10	NP	0.00	19.06	16.43	613.67	No	
MW-15S	11/05/02	630.10	632.73	615.10	605.10	NP	0.00	17.86	15.23	614.87	No	
MW-15S	04/17/03	630.10	632.73	615.10	605.10	NP	0.00	19.72	17.09	613.01	No	
MW-15S	10/20/03	630.10	632.73	615.10	605.10	NP	0.00	19.54	16.91	613.19	No	
MW-15S	04/19/04	632.01	632.44	615.10	605.10	NP	0.00	20.02	19.59	612.42	No	
MW-15S	11/16/04	632.01	632.44	615.10	605.10	NP	0.00	18.33	17.90	614.11	No	
MW-15S	04/18/05	632.01	632.44	615.10	605.10	NP	0.00	18.70	18.27	613.74	No	
MW-15S	10/11/05	632.01	632.44	615.10	605.10	NP	0.00	17.94	17.51	614.50	No	
MW-15S	05/23/06	632.01	632.44	615.10	605.10	NP	0.00	17.43	17.00	615.01	No	
MW-15S	10/16/06	632.01	632.44	615.10	605.10	NP	0.00	18.37	17.94	614.07	No	
MW-15S	04/23/07	632.01	632.44	615.10	605.10	NP	0.00	19.03	18.60	613.41	No	
MW-15S	09/25/07	632.01	634.52	615.10	605.10	NP	0.00	20.96	18.45	613.56	No	
MW-15S	05/01/08	632.01	634.52	615.10	605.10	NP	0.00	19.59	17.08	614.93	No	
MW-15S	10/20/08	632.01	634.52	615.10	605.10	NP	0.00	18.41	15.90	616.11	Yes	
MW-15S	04/18/09	632.01	634.52	615.10	605.10	NP	0.00	19.40	16.89	615.12	Yes	
MW-15S	10/11/09	632.01	634.52	615.10	605.10	NP	0.00	19.86	17.35	614.66	No	
MW-15S	04/28/10	632.01	634.52	615.10	605.10	NP	0.00	20.31	17.80	614.21	No	
MW-15S	10/25/10	632.01	634.52	615.10	605.10	NP	0.00	18.58	16.07	615.94	Yes	
MW-15S	04/25/11	632.01	634.52	615.10	605.10	NP	0.00	19.43	16.92	615.09	No	
MW-15S	10/10/11	632.01	634.52	615.10	605.10	NP	0.00	18.85	16.34	615.67	Yes	
MW-15S	01/04/12	632.01	634.52	615.10	605.10	NP	0.00	20.09	17.58	614.43	No	
MW-15S	04/16/12	632.01	634.52	615.10	605.10	NP	0.00	20.78	18.27	613.74	No	
MW-15S	06/26/12	632.01	634.52	615.10	605.10	NP	0.00	18.46	15.95	616.06	Yes	
MW-15S	09/30/12	632.01	634.52	615.10	605.10	NP	0.00	19.87	17.36	614.65	No	
MW-15S	12/17/12	632.01	634.52	615.10	605.10	NP	0.00	20.56	18.05	613.96	No	
MW-15S	03/25/13	632.01	634.52	615.10	605.10	NP	0.00	21.48	18.97	613.04	No	
MW-15S	05/05/13	632.01	634.52	615.10	605.10	NP	0.00	20.84	18.33	613.68	No	
MW-15S	10/03/13	632.01	634.52	615.10	605.10	NP	0.00	20.31	17.80	614.21	No	
MW-15D	06/14/94	630.00	632.81	577.81	574.81	NP	0.00	17.17	14.36	615.64	Yes	
MW-15D	07/21/94	630.00	632.81	577.81	574.81	NP	0.00	17.13	14.32	615.68	Yes	
MW-15D	08/30/94	630.00	632.81	577.81	574.81	NP	0.00	17.83	15.02	614.98	Yes	
MW-15D	10/25/94	630.00	632.81	577.81	574.81	NP	0.00	17.39	14.58	615.42	Yes	
MW-15D	10/27/94	630.00	632.81	577.81	574.81	NP	0.00	17.22	14.41	615.59	Yes	
MW-15D	02/01/95	630.00	632.81	577.81	574.81	NP	0.00	18.52	15.71	614.29	Yes	
MW-15D	04/04/95	630.00	632.81	577.81	574.81	NP	0.00	18.96	16.15	613.85	Yes	

Table 2
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MW-15D	07/12/95	630.00	632.81	577.81	574.81	NP	0.00	18.33	15.52	614.48	Yes	
MW-15D	11/13/95	630.00	632.81	577.81	574.81	NP	0.00	17.35	14.54	615.46	Yes	
MW-15D	03/13/96	630.00	632.81	577.81	574.81	NP	0.00	18.85	16.04	613.96	Yes	
MW-15D	04/22/96	630.00	632.81	577.81	574.81	NP	0.00	17.46	14.65	615.35	Yes	
MW-15D	10/08/96	630.00	632.81	577.81	574.81	NP	0.00	16.17	13.36	616.64	Yes	
MW-15D	04/29/97	630.00	632.81	577.81	574.81	NP	0.00	15.98	13.17	616.83	Yes	
MW-15D	11/03/98	630.00	632.81	577.81	574.81	NP	0.00	18.92	16.11	613.89	Yes	
MW-15D	03/02/99	630.00	632.81	577.81	574.81	NP	0.00	19.08	16.27	613.73	Yes	
MW-15D	04/26/00	630.00	632.81	577.81	574.81	NP	0.00	18.21	15.40	614.60	Yes	
MW-15D	10/10/00	630.00	632.81	577.81	574.81	NP	0.00	18.79	15.98	614.02	Yes	
MW-15D	10/23/01	630.00	632.81	577.81	574.81	NP	0.00	18.76	15.95	614.05	Yes	
MW-15D	04/23/02	630.00	632.81	577.81	574.81	NP	0.00	19.20	16.39	613.61	Yes	
MW-15D	11/05/02	630.00	632.81	577.81	574.81	NP	0.00	17.99	15.18	614.82	Yes	
MW-15D	04/17/03	630.00	632.81	577.81	574.81	NP	0.00	19.87	17.06	612.94	Yes	
MW-15D	10/20/03	630.00	632.81	577.81	574.81	NP	0.00	19.68	16.87	613.13	Yes	
MW-15D	04/19/04	632.28	632.55	577.81	574.81	NP	0.00	20.13	19.86	612.42	Yes	
MW-15D	11/16/04	632.28	632.55	577.81	574.81	NP	0.00	18.46	18.19	614.09	Yes	
MW-15D	04/18/05	632.28	632.55	577.81	574.81	NP	0.00	18.83	18.56	613.72	Yes	
MW-15D	10/11/05	632.28	632.55	577.81	574.81	NP	0.00	18.09	17.82	614.46	Yes	
MW-15D	05/23/06	632.28	632.55	577.81	574.81	NP	0.00	17.57	17.30	614.98	Yes	
MW-15D	10/16/06	632.28	632.55	577.81	574.81	NP	0.00	18.57	18.30	613.98	Yes	
MW-15D	04/23/07	632.28	632.55	577.81	574.81	NP	0.00	19.23	18.96	613.32	Yes	
MW-15D	09/25/07	632.28	634.55	577.81	574.81	NP	0.00	20.95	18.68	613.60	Yes	
MW-15D	05/01/08	632.28	634.55	577.81	574.81	NP	0.00	19.64	17.37	614.91	Yes	
MW-15D	10/20/08	632.28	634.55	577.81	574.81	NP	0.00	18.49	16.22	616.06	Yes	
MW-15D	04/18/09	632.28	634.55	577.81	574.81	NP	0.00	19.52	17.25	615.03	Yes	
MW-15D	10/11/09	632.28	634.55	577.81	574.81	NP	0.00	19.97	17.70	614.58	Yes	
MW-15D	04/28/10	632.28	634.55	577.81	574.81	NP	0.00	20.37	18.10	614.18	Yes	
MW-15D	10/25/10	632.28	634.55	577.81	574.81	NP	0.00	18.73	16.46	615.82	Yes	
MW-15D	04/25/11	632.28	634.55	577.81	574.81	NP	0.00	19.51	17.24	615.04	Yes	
MW-15D	10/10/11	632.28	634.55	577.81	574.81	NP	0.00	19.02	16.75	615.53	Yes	
MW-15D	01/04/12	632.28	634.55	577.81	574.81	NP	0.00	20.2	17.93	614.35	Yes	
MW-15D	04/16/12	632.28	634.55	577.81	574.81	NP	0.00	20.74	18.47	613.81	Yes	
MW-15D	06/26/12	632.28	634.55	577.81	574.81	NP	0.00	18.48	16.21	616.07	Yes	
MW-15D	09/30/12	632.28	634.55	577.81	574.81	NP	0.00	20.02	17.75	614.53	Yes	
MW-15D	12/17/12	632.28	634.55	577.81	574.81	NP	0.00	20.64	18.37	613.91	Yes	
MW-15D	03/25/13	632.28	634.55	577.81	574.81	NP	0.00	21.58	19.31	612.97	Yes	
MW-15D	05/05/13	632.28	634.55	577.81	574.81	NP	0.00	20.88	18.61	613.67	Yes	
MW-15D	10/03/13	632.28	634.55	577.81	574.81	NP	0.00	20.38	18.11	614.17	Yes	
MW-16	09/08/88	634.30	636.37	619.30	604.30	NP	0.00	22.60	20.53	613.77	No	
MW-16	09/20/88	634.30	636.37	619.30	604.30	NP	0.00	22.76	20.69	613.61	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	04/27/89	634.30	636.37	619.30	604.30	NP	0.00	22.44	20.37	613.93	No	
MW-16	05/18/89	634.30	636.37	619.30	604.30	NP	0.00	22.19	20.12	614.18	No	
MW-16	06/30/89	634.30	636.37	619.30	604.30	NP	0.00	21.91	19.84	614.46	No	
MW-16	07/12/89	634.30	636.37	619.30	604.30	NP	0.00	22.12	20.05	614.25	No	
MW-16	07/26/89	634.30	636.37	619.30	604.30	NP	0.00	22.38	20.31	613.99	No	
MW-16	07/27/89	634.30	636.37	619.30	604.30	NP	0.00	22.45	20.38	613.92	No	
MW-16	09/03/89	634.30	636.37	619.30	604.30	NP	0.00	22.59	20.52	613.78	No	
MW-16	11/16/89	634.30	636.37	619.30	604.30	NP	0.00	22.76	20.69	613.61	No	
MW-16	11/28/89	634.30	636.37	619.30	604.30	NP	0.00	22.81	20.74	613.56	No	
MW-16	06/01/90	634.30	636.37	619.30	604.30	NP	0.00	22.75	20.68	613.62	No	
MW-16	06/19/90	634.30	636.37	619.30	604.30	NP	0.00	22.57	20.50	613.80	No	
MW-16	06/27/90	634.30	636.37	619.30	604.30	NP	0.00	22.68	20.61	613.69	No	
MW-16	07/05/90	634.30	636.37	619.30	604.30	NP	0.00	22.83	20.76	613.54	No	
MW-16	07/13/90	634.30	636.37	619.30	604.30	NP	0.00	22.80	20.73	613.57	No	
MW-16	07/17/90	634.30	636.37	619.30	604.30	NP	0.00	22.80	20.73	613.57	No	
MW-16	07/25/90	634.30	636.37	619.30	604.30	NP	0.00	22.93	20.86	613.44	No	
MW-16	08/09/90	634.30	636.37	619.30	604.30	NP	0.00	22.90	20.83	613.47	No	
MW-16	08/14/90	634.30	636.37	619.30	604.30	NP	0.00	22.99	20.92	613.38	No	product beads on probe
MW-16	08/27/90	634.30	636.37	619.30	604.30	NP	0.00	22.68	20.61	613.69	No	
MW-16	09/06/90	634.30	636.37	619.30	604.30	NP	0.00	22.52	20.45	613.85	No	
MW-16	01/04/91	634.30	636.37	619.30	604.30	NP	0.00	22.33	20.26	614.04	No	
MW-16	01/30/91	634.30	636.37	619.30	604.30	NP	0.00	22.57	20.50	613.80	No	
MW-16	04/24/91	634.30	636.37	619.30	604.30	NP	0.00	22.46	20.39	613.91	No	
MW-16	06/06/91	634.30	636.37	619.30	604.30	NP	0.00	21.10	19.03	615.27	No	
MW-16	07/09/91	634.30	636.37	619.30	604.30	20.31	0.01	20.32	18.24	616.06	No	
MW-16	08/06/91	634.30	636.37	619.30	604.30	19.41	1.45	20.86	17.67	616.63	No	
MW-16	09/04/91	634.30	636.37	619.30	604.30	18.30	6.55	24.85	17.71	616.59	No	
MW-16	10/08/91	634.30	636.37	619.30	604.30	17.70	7.15	24.85	17.24	617.06	No	
MW-16	11/08/91	634.30	636.37	619.30	604.30	18.13	6.93	25.06	17.63	616.67	No	
MW-16	12/03/91	634.30	636.37	619.30	604.30	16.25	9.40	25.65	16.30	618.00	No	
MW-16	01/07/92	634.30	636.37	619.30	604.30	17.78	7.96	25.74	17.51	616.79	No	
MW-16	02/04/92	634.30	636.37	619.30	604.30	18.40	8.25	26.65	18.19	616.11	No	
MW-16	03/03/92	634.30	636.37	619.30	604.30	18.80	8.30	27.10	18.60	615.70	No	
MW-16	09/24/92	634.30	636.37	619.30	604.30	16.92	10.28	27.20	17.17	617.13	No	
MW-16	10/14/92	634.30	636.37	619.30	604.30	17.88	8.52	26.40	17.73	616.57	No	
MW-16	06/25/93	634.30	636.37	619.30	604.30	14.56	12.99	27.55	15.42	618.88	No	
MW-16	10/28/93	634.30	636.37	619.30	604.30	18.27	8.80	27.07	18.19	616.11	No	
MW-16	01/29/94	634.30	636.37	619.30	604.30	19.70	5.51	25.21	18.87	615.43	No	
MW-16	04/27/94	634.30	636.37	619.30	604.30	18.97	5.72	24.69	18.19	616.11	No	
MW-16	07/21/94	634.30	636.37	619.30	604.30	17.80	8.80	26.60	17.72	616.58	No	
MW-16	08/30/94	634.30	636.37	619.30	604.30	18.84	8.58	27.42	18.71	615.59	No	
MW-16	10/25/94	634.30	636.37	619.30	604.30	18.26	8.04	26.30	18.01	616.29	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	11/02/94	634.30	636.37	619.30	604.30	18.49	6.71	25.20	17.94	616.36	No	
MW-16	02/01/95	634.30	636.37	619.30	604.30	22.12	0.09	22.21	20.07	614.23	No	
MW-16	04/04/95	634.30	636.37	619.30	604.30	21.78	0.15	21.93	19.74	614.56	No	
MW-16	07/12/95	634.30	636.37	619.30	604.30	20.65	0.55	21.20	18.70	615.60	No	
MW-16	11/14/95	634.30	636.37	619.30	604.30	18.05	6.80	24.85	17.52	616.78	No	
MW-16	03/13/96	634.30	636.37	619.30	604.30	19.85	7.35	27.20	19.44	614.86	No	
MW-16	10/08/96	634.30	636.37	619.30	604.30	19.43	0.08	19.51	17.38	616.92	No	
MW-16	04/29/97	634.30	636.37	619.30	604.30	16.32	9.58	25.90	16.41	617.89	No	
MW-16	06/10/97	634.30	636.37	619.30	604.30	18.02	6.41	24.43	17.40	616.90	No	FP bailed 5/22/97
MW-16	11/03/98	634.30	636.37	619.30	604.30	19.70	9.25	28.95	19.72	614.58	No	
MW-16	09/27/00	634.30	634.92	619.30	604.30	19.35	8.84	28.19	20.73	613.57	No	bailed 2.5 gal. FP
MW-16	10/11/00	634.30	634.92	619.30	604.30	17.70	10.20	27.90	19.38	614.92	No	bailed 2.6 gal. FP
MW-16	11/17/00	634.30	634.92	619.30	604.30	17.84	7.42	25.26	18.90	615.40	No	bailed 2.5 gal. FP
MW-16	12/12/00	634.30	634.92	619.30	604.30	17.98	5.93	23.91	18.70	615.60	No	bailed 2.5 gal. FP
MW-16	01/18/01	634.30	634.92	619.30	604.30	17.85	5.76	23.61	18.53	615.77	No	bailed 2 gal. FP
MW-16	04/24/01	634.30	634.92	619.30	604.30	17.95	5.89	23.84	18.66	615.64	No	product abated using vactruck
MW-16	05/23/01	634.30	634.92	619.30	604.30	17.25	4.37	21.62	17.62	616.68	No	no product bailed
MW-16	06/19/01	635.30	634.92	619.30	604.30	17.02	5.64	22.66	18.67	616.63	No	
MW-16	07/26/01	634.30	634.92	619.30	604.30	17.49	7.56	25.05	18.58	615.72	No	
MW-16	08/31/01	635.30	634.92	619.30	604.30	17.81	7.84	25.65	19.96	615.34	No	
MW-16	09/26/01	636.30	634.92	619.30	604.30	17.64	9.99	27.63	21.28	615.02	No	
MW-16	10/24/01	635.30	634.92	619.30	604.30	17.77	9.51	27.28	20.30	615.00	No	
MW-16	12/20/01	635.30	634.92	619.30	604.30	18.09	8.23	26.32	20.33	614.97	No	
MW-16	01/22/02	635.30	634.92	619.30	604.30	18.16	9.78	27.94	20.75	614.55	No	
MW-16	02/26/02	635.30	634.92	619.30	604.30	18.43	9.97	28.40	21.06	614.24	No	
MW-16	03/20/02	635.30	634.92	619.30	604.30	18.57	9.97	28.54	21.20	614.10	No	
MW-16	04/24/02	635.30	634.92	619.30	604.30	18.16	8.77	26.93	20.52	614.78	No	
MW-16	05/15/02	635.30	634.92	619.30	604.30	17.86	7.09	24.95	19.84	615.46	No	
MW-16	06/27/02	635.30	634.92	619.30	604.30	17.95	6.86	24.81	19.88	615.42	No	
MW-16	07/25/02	635.30	634.92	619.30	604.30	18.00	6.87	24.87	19.93	615.37	No	
MW-16	08/20/02	635.30	634.92	619.30	604.30	17.84	6.75	24.59	19.74	615.56	No	
MW-16	09/30/02	635.30	634.92	619.30	604.30	17.60	6.57	24.17	19.46	615.84	No	
MW-16	11/05/02	635.30	634.92	619.30	604.30	17.33	5.86	23.19	19.03	616.27	No	
MW-16	12/23/02	635.30	634.92	619.30	604.30	17.78	8.28	26.06	20.03	615.27	No	
MW-16	01/28/03	635.30	634.92	619.30	604.30	18.03	9.62	27.65	20.58	614.72	No	
MW-16	02/19/03	635.30	634.92	619.30	604.30	18.22	10.15	28.37	20.89	614.41	No	
MW-16	04/17/03	635.30	634.92	619.30	604.30	18.64	10.26	28.90	21.34	613.96	No	
MW-16	05/15/03	635.30	634.92	619.30	604.30	18.74	8.61	27.35	21.06	614.24	No	
MW-16	06/10/03	635.30	634.92	619.30	604.30	18.50	7.91	26.41	20.67	614.63	No	
MW-16	10/23/03	635.30	634.92	619.30	604.30	18.78	9.46	28.24	21.30	614.00	No	
MW-16	12/03/03	635.30	634.92	619.30	604.30	18.91	9.46	28.37	21.43	613.87	No	
MW-16	04/19/04	633.67	634.42	619.30	604.30	19.60	6.26	25.86	20.26	613.41	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	07/28/04	633.67	634.42	619.30	604.30	18.77	5.84	24.61	19.34	614.33	No	
MW-16	11/15/04	633.67	634.42	619.30	604.30	18.11	4.59	22.70	18.40	615.27	No	
MW-16	04/18/05	633.67	634.42	619.30	604.30	18.25	6.23	24.48	18.91	614.76	No	
MW-16	09/09/05	633.67	634.42	619.30	604.30	20.98	6.73	27.71	21.75	611.92	No	
MW-16	10/11/05	633.67	634.42	619.30	604.30	20.43	6.30	26.73	21.10	612.57	No	
MW-16	05/23/06	633.67	634.42	619.30	604.30	20.35	4.00	24.35	20.50	613.17	No	
MW-16	10/16/06	633.67	634.42	619.30	604.30	21.02	7.14	28.16	21.88	611.79	No	
MW-16	04/23/07	633.67	634.42	619.30	604.30	21.53	7.35	28.88	22.44	611.23	No	
MW-16	09/25/07	633.67	637.46	619.30	604.30	22.37	6.88	29.25	20.13	613.54	No	
MW-16	05/01/08	633.67	637.46	619.30	604.30	20.81	3.78	24.59	17.87	615.80	No	
MW-16	10/20/08	633.67	637.46	619.30	604.30	19.57	3.68	23.25	16.61	617.06	No	
MW-16	04/18/09	633.67	637.46	619.30	604.30	20.26	5.04	25.30	17.61	616.06	No	
MW-16	08/04/09	633.67	637.46	619.30	604.30	20.57	6.30	26.87	18.20	615.47	No	
MW-16	08/05/09	633.67	637.46	619.30	604.30	20.79	6.04	26.83	18.36	615.31	No	
MW-16	08/13/09	633.67	637.46	619.30	604.30	20.53	6.23	26.76	18.15	615.52	No	
MW-16	08/18/09	633.67	637.46	619.30	604.30	20.65	6.16	26.81	18.25	615.42	No	
MW-16	08/26/09	633.67	637.46	619.30	604.30	20.51	5.42	25.93	17.94	615.73	No	
MW-16	09/03/09	633.67	637.46	619.30	604.30	20.31	5.79	26.10	17.83	615.84	No	
MW-16	09/08/09	633.67	637.46	619.30	604.30	20.29	5.79	26.08	17.81	615.86	No	
MW-16	09/14/09	633.67	637.46	619.30	604.30	20.31	6.29	26.60	17.94	615.73	No	
MW-16	10/11/09	633.67	637.46	619.30	604.30	20.69	6.59	27.28	18.39	615.28	No	
MW-16	10/15/09	633.67	637.46	619.30	604.30	20.69	6.59	27.28	18.39	615.28	No	
MW-16	04/28/10	633.67	637.46	619.30	604.30	20.73	7.26	27.99	18.58	615.09	No	
MW-16	10/25/10	633.67	637.46	619.30	604.30	18.94	7.01	25.95	16.73	616.94	No	
MW-16	04/25/11	633.67	637.46	619.30	604.30	20.01	6.04	26.05	17.58	616.09	No	
MW-16	08/04/11	633.67	637.46	619.30	604.30	18.31	6.08	24.39	15.89	617.78	No	
MW-16	09/14/11	633.67	637.46	619.30	604.30	19.32	6.16	25.48	16.92	616.75	No	
MW-16	09/23/11	633.67	637.46	619.30	604.30	19.52	6.18	25.70	17.13	616.54	No	
MW-16	09/29/11	633.67	637.46	619.30	604.30	19.53	6.37	25.90	17.18	616.49	No	
MW-16	10/07/11	633.67	637.46	619.30	604.30	19.71	6.32	26.03	17.35	616.32	No	
MW-16	10/10/11	633.67	637.46	619.30	604.30	19.82	6.30	26.12	17.45	616.22	No	
MW-16	10/21/11	633.67	637.46	619.30	604.30	20.05	6.27	26.32	17.68	615.99	No	
MW-16	10/27/11	633.67	637.46	619.30	604.30	20.15	6.25	26.40	17.77	615.90	No	
MW-16	11/04/11	633.67	637.46	619.30	604.30	20.29	6.25	26.54	17.91	615.76	No	
MW-16	11/09/11	633.67	637.46	619.30	604.30	20.31	6.27	26.58	17.94	615.73	No	
MW-16	11/18/11	633.67	637.46	619.30	604.30	20.46	6.22	26.68	18.07	615.60	No	
MW-16	11/22/11	633.67	637.46	619.30	604.30	20.59	6.18	26.77	18.20	615.47	No	
MW-16	12/01/11	633.67	637.46	619.30	604.30	20.83	6.13	26.96	18.42	615.25	No	
MW-16	01/04/12	633.67	637.46	619.30	604.30	21.17	6.28	27.45	18.80	614.87	No	
MW-16	02/16/12	633.67	637.46	619.30	604.30	21.64	6.88	28.52	19.40	614.27	No	
MW-16	03/13/12	633.67	637.46	619.30	604.30	21.64	8.08	29.72	19.68	613.99	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-16	04/03/12	633.67	637.46	619.30	604.30	21.34	8.29	29.63	19.42	614.25	No	Spill Buddy Probe could not go past approximately 12-15 feet in well, could not recover with Spill Buddy
MW-16	04/16/12	633.67	637.46	619.30	604.30	21.15	7.80	28.95	19.12	614.55	No	
MW-16	06/26/12	633.67	637.46	619.30	604.30	19.89	1.94	21.83	16.54	617.13	No	
MW-16	07/12/12	633.67	637.46	619.30	604.30	19.95	3.91	23.86	17.04	616.63	No	Gauge before hand bail
MW-16	07/12/12	633.67	637.46	619.30	604.30	21.81	0.14	21.95	18.05	615.62	No	Gauge after hand bail
MW-16	07/24/12	633.67	637.46	619.30	604.30	19.90	5.04	24.94	17.25	616.42	No	
MW-16	08/17/12	633.67	637.46	619.30	604.30	20.14	5.53	25.67	17.60	616.07	No	
MW-16	09/17/12	633.67	637.46	619.30	604.30	20.45	7.09	27.54	18.26	615.41	No	
MW-16	09/20/12	633.67	637.46	619.30	604.30	20.44	7.15	27.59	18.26	615.41	No	
MW-16	09/30/12	633.67	637.46	619.30	604.30	21.67	6.28	27.95	19.30	614.37	No	
MW-16	10/22/12	633.67	637.46	619.30	604.30	21.03	7.13	28.16	18.85	614.82	No	
MW-16	11/21/12	633.67	637.46	619.30	604.30	21.15	6.94	28.09	18.93	614.74	No	
MW-16	12/17/12	633.67	637.46	619.30	604.30	21.37	6.92	28.29	19.14	614.53	No	
MW-16	03/25/13	633.67	637.46	619.30	604.30	21.71	9.54	31.25	20.07	613.60	No	
MW-16	04/03/13	633.67	637.46	619.30	604.30	21.37	9.72	31.09	19.78	613.89	No	Spill Buddy Before Reading
MW-16	04/03/13	633.67	637.46	619.30	604.30	24.29	0.58	24.87	20.63	613.04	No	Spill Buddy After Reading
MW-16	05/05/13	633.67	637.46	619.30	604.30	21.65	6.45	28.10	19.32	614.35	No	
MW-16	10/03/13	633.67	637.46	619.30	604.30	21.24	5.87	27.11	18.78	614.89	No	
MW-16	05/22/14	633.67	637.46	619.30	604.30	20.30	2.09	22.39	16.98	616.69	No	
MW-16	10/31/14	633.67	637.46	619.30	604.30	19.49	5.64	25.13	16.97	616.70	No	
MW-16	05/06/15	633.67	637.46	619.30	604.30	20.89	6.75	27.64	18.62	615.05	No	
MW-16	07/10/15	633.67	637.46	619.30	604.30	20.26	4.21	24.47	17.42	616.25	No	
MW-16	10/05/15	633.67	637.46	619.30	604.30	19.50	4.12	23.62	16.64	617.03	No	
MW-16	05/23/16	633.67	637.46	619.30	604.30	16.49	11.46	27.95	15.29	618.38	No	
MW-16	10/03/16	633.67	637.46	619.30	604.30	18.27	7.27	25.54	16.12	617.55	No	
MW-16	06/14/17	633.67	637.46	619.30	604.30	16.96	10.44	27.40	15.53	618.14	No	
MW-16	06/21/17	633.67	637.46	619.30	604.30	17.08	10.17	27.25	15.59	618.08	No	
MW-16	06/22/17	633.67	637.46	619.30	604.30	18.75	1.48	20.23	15.29	618.38	No	
MW-16	06/23/17	633.67	637.46	619.30	604.30	18.87	1.33	20.20	15.38	618.29	No	
MW-18	09/08/88	634.60	636.91	619.60	609.60	NP	0.00	20.90	18.59	616.01	No	
MW-18	09/20/88	634.60	636.91	619.60	609.60	NP	0.00	21.20	18.89	615.71	No	
MW-18	04/27/89	634.60	636.91	619.60	609.60	NP	0.00	20.93	18.62	615.98	No	
MW-18	05/18/89	634.60	636.91	619.60	609.60	NP	0.00	20.56	18.25	616.35	No	
MW-18	06/30/89	634.60	636.91	619.60	609.60	NP	0.00	20.27	17.96	616.64	No	
MW-18	07/12/89	634.60	636.91	619.60	609.60	NP	0.00	20.43	18.12	616.48	No	
MW-18	07/26/89	634.60	636.91	619.60	609.60	NP	0.00	20.32	18.01	616.59	No	
MW-18	07/27/89	634.60	636.91	619.60	609.60	NP	0.00	20.48	18.17	616.43	No	
MW-18	09/03/89	634.60	636.91	619.60	609.60	NP	0.00	20.64	18.33	616.27	No	
MW-18	11/16/89	634.60	636.91	619.60	609.60	NP	0.00	20.57	18.26	616.34	No	
MW-18	11/28/89	634.60	636.91	619.60	609.60	NP	0.00	20.81	18.50	616.10	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-18	06/01/90	634.60	636.91	619.60	609.60	NP	0.00	20.75	18.44	616.16	No	
MW-18	06/19/90	634.60	636.91	619.60	609.60	NP	0.00	20.70	18.39	616.21	No	
MW-18	06/27/90	634.60	636.91	619.60	609.60	NP	0.00	20.89	18.58	616.02	No	
MW-18	07/05/90	634.60	636.91	619.60	609.60	NP	0.00	21.11	18.80	615.80	No	
MW-18	07/13/90	634.60	636.91	619.60	609.60	NP	0.00	20.98	18.67	615.93	No	
MW-18	07/17/90	634.60	636.91	619.60	609.60	NP	0.00	20.71	18.40	616.20	No	
MW-18	07/25/90	634.60	636.91	619.60	609.60	NP	0.00	20.95	18.64	615.96	No	
MW-18	08/09/90	634.60	636.91	619.60	609.60	NP	0.00	20.96	18.65	615.95	No	
MW-18	08/14/90	634.60	636.91	619.60	609.60	NP	0.00	20.90	18.59	616.01	No	
MW-18	08/27/90	634.60	636.91	619.60	609.60	NP	0.00	20.75	18.44	616.16	No	
MW-18	01/04/91	634.60	636.91	619.60	609.60	NP	0.00	20.16	17.85	616.75	No	
MW-18	01/30/91	634.60	636.91	619.60	609.60	NP	0.00	20.25	17.94	616.66	No	
MW-18	04/24/91	634.60	636.91	619.60	609.60	NP	0.00	20.82	18.51	616.09	No	
MW-18	07/09/91	634.60	636.91	619.60	609.60	NP	0.00	19.05	16.74	617.86	No	
MW-18	10/08/91	634.60	636.91	619.60	609.60	NP	0.00	17.57	15.26	619.34	No	
MW-18	01/07/92	634.60	636.91	619.60	609.60	NP	0.00	17.76	15.45	619.15	No	
MW-18	10/14/92	634.60	636.91	619.60	609.60	NP	0.00	17.60	15.29	619.31	No	
MW-18	01/29/94	634.60	636.91	619.60	609.60	NP	0.00	18.76	16.45	618.15	No	
MW-18	04/27/94	634.60	636.91	619.60	609.60	NP	0.00	18.90	16.59	618.01	No	
MW-18	07/21/94	634.60	636.91	619.60	609.60	NP	0.00	17.52	15.21	619.39	No	
MW-18	10/25/94	634.60	636.91	619.60	609.60	NP	0.00	18.00	15.69	618.91	No	
MW-18	10/27/94	634.60	636.91	619.60	609.60	NP	0.00	17.44	15.13	619.47	No	
MW-18	02/01/95	634.60	636.91	619.60	609.60	NP	0.00	19.22	16.91	617.69	No	
MW-18	04/04/95	634.60	636.91	619.60	609.60	NP	0.00	19.94	17.63	616.97	No	
MW-18	07/12/95	634.60	636.91	619.60	609.60	NP	0.00	18.90	16.59	618.01	No	
MW-18	11/13/95	634.60	636.91	619.60	609.60	NP	0.00	17.71	15.40	619.20	No	
MW-18	03/13/96	634.60	636.91	619.60	609.60	NP	0.00	19.33	17.02	617.58	No	
MW-18	10/08/96	634.60	636.91	619.60	609.60	NP	0.00	16.89	14.58	620.02	Yes	
MW-18	04/29/97	634.60	636.91	619.60	609.60	NP	0.00	16.25	13.94	620.66	Yes	
MW-18	11/03/98	634.60	636.91	619.60	609.60	NP	0.00	19.75	17.44	617.16	No	
MW-18	03/02/99	634.60	636.91	619.60	609.60	NP	0.00	19.76	17.45	617.15	No	
MW-18	04/26/00	634.60	636.91	619.60	609.60	NP	0.00	18.92	16.61	617.99	No	
MW-18	08/18/00	634.60	636.91	619.60	609.60	NP	0.00	19.40	17.09	617.51	No	
MW-18	11/05/02	634.60	636.91	619.60	609.60	NP	0.00	19.01	16.70	617.90	No	
MW-18	08/18/03						Abandoned					
MW-19	06/30/89	632.80	635.42	611.10	601.10	NP	0.00	20.95	18.33	614.47	Yes	
MW-19	07/12/89	632.80	635.42	611.10	601.10	NP	0.00	22.86	20.24	612.56	Yes	
MW-19	07/26/89	632.80	635.42	611.10	601.10	NP	0.00	23.09	20.47	612.33	Yes	
MW-19	07/27/89	632.80	635.42	611.10	601.10	NP	0.00	23.17	20.55	612.25	Yes	
MW-19	09/03/89	632.80	635.42	611.10	601.10	NP	0.00	23.13	20.51	612.29	Yes	
MW-19	11/16/89	632.80	635.42	611.10	601.10	NP	0.00	23.42	20.80	612.00	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-19	11/28/89	632.80	635.42	611.10	601.10	NP	0.00	23.72	21.10	611.70	Yes	
MW-19	06/19/90	632.80	635.42	611.10	601.10	NP	0.00	23.20	20.58	612.22	Yes	
MW-19	06/27/90	632.80	635.42	611.10	601.10	NP	0.00	23.61	20.99	611.81	Yes	
MW-19	07/05/90	632.80	635.42	611.10	601.10	NP	0.00	23.86	21.24	611.56	Yes	
MW-19	07/13/90	632.80	635.42	611.10	601.10	NP	0.00	23.88	21.26	611.54	Yes	
MW-19	07/17/90	632.80	635.42	611.10	601.10	NP	0.00	23.72	21.10	611.70	Yes	
MW-19	07/25/90	632.80	635.42	611.10	601.10	NP	0.00	23.38	20.76	612.04	Yes	
MW-19	08/09/90	632.80	635.42	611.10	601.10	NP	0.00	23.85	21.23	611.57	Yes	
MW-19	08/14/90	632.80	635.42	611.10	601.10	NP	0.00	23.93	21.31	611.49	Yes	
MW-19	08/27/90	632.80	635.42	611.10	601.10	NP	0.00	23.70	21.08	611.72	Yes	
MW-19	09/06/90	632.80	635.42	611.10	601.10	NP	0.00	23.34	20.72	612.08	Yes	
MW-19	01/04/91	632.80	635.42	611.10	601.10	NP	0.00	23.42	20.80	612.00	Yes	
MW-19	01/30/91	632.80	635.42	611.10	601.10	NP	0.00	23.64	21.02	611.78	Yes	
MW-19	04/24/91	632.80	635.42	611.10	601.10	NP	0.00	23.47	20.85	611.95	Yes	
MW-19	07/09/91	632.80	635.42	611.10	601.10	NP	0.00	21.72	19.10	613.70	Yes	
MW-19	10/08/91	632.80	635.42	611.10	601.10	NP	0.00	20.84	18.22	614.58	Yes	
MW-19	01/07/92	632.80	635.42	611.10	601.10	NP	0.00	20.99	18.37	614.43	Yes	
MW-19	10/14/92	632.80	635.42	611.10	601.10	NP	0.00	20.98	18.36	614.44	Yes	
MW-19	06/25/93	632.80	635.42	611.10	601.10	NP	0.00	19.56	16.94	615.86	Yes	
MW-19	10/28/93	632.80	635.42	611.10	601.10	NP	0.00	21.12	18.50	614.30	Yes	
MW-19	01/29/94	632.80	635.42	611.10	601.10	NP	0.00	21.82	19.20	613.60	Yes	
MW-19	04/27/94	632.80	635.42	611.10	601.10	NP	0.00	21.56	18.94	613.86	Yes	
MW-19	07/21/94	632.80	635.42	611.10	601.10	NP	0.00	20.61	17.99	614.81	Yes	
MW-19	10/25/94	632.80	635.42	611.10	601.10	NP	0.00	20.91	18.29	614.51	Yes	
MW-19	10/28/94	632.80	635.42	611.10	601.10	NP	0.00	20.58	17.96	614.84	Yes	
MW-19	02/01/95	632.80	635.42	611.10	601.10	NP	0.00	22.23	19.61	613.19	Yes	
MW-19	04/04/95	632.80	635.42	611.10	601.10	NP	0.00	22.40	19.78	613.02	Yes	
MW-19	07/12/95	632.80	635.42	611.10	601.10	NP	0.00	29.61	26.99	605.81	No	
MW-19	11/13/95	632.80	635.42	611.10	601.10	NP	0.00	20.72	18.10	614.70	Yes	
MW-19	03/13/96	632.80	635.42	611.10	601.10	NP	0.00	23.25	20.63	612.17	Yes	
MW-19	04/22/96	632.80	635.42	611.10	601.10	NP	0.00	20.85	18.23	614.57	Yes	
MW-19	10/08/96	632.80	635.42	611.10	601.10	NP	0.00	20.02	17.40	615.40	Yes	
MW-19	04/29/97	632.80	635.42	611.10	601.10	NP	0.00	19.40	16.78	616.02	Yes	
MW-19	11/03/98	632.80	635.42	611.10	601.10	NP	0.00	22.31	19.69	613.11	Yes	
MW-19	03/02/99	632.80	635.42	611.10	601.10	NP	0.00	22.67	20.05	612.75	Yes	
MW-19	03/02/99	632.80	635.42	611.10	601.10	NP	0.00	21.68	19.06	613.74	Yes	
MW-19	10/10/00	632.80	635.42	611.10	601.10	NP	0.00	22.27	19.65	613.15	Yes	
MW-19	04/24/01	632.80	635.42	611.10	601.10	NP	0.00	21.64	19.02	613.78	Yes	
MW-19	10/23/01	632.80	635.42	611.10	601.10	NP	0.00	22.26	19.64	613.16	Yes	
MW-19	04/23/02	632.80	635.42	611.10	601.10	NP	0.00	22.54	19.92	612.88	Yes	
MW-19	11/05/02	632.80	635.42	611.10	601.10	NP	0.00	21.27	18.65	614.15	Yes	
MW-19	04/17/03	632.80	635.42	611.10	601.10	NP	0.00	23.33	20.71	612.09	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-19	05/15/03	632.80	635.42	611.10	601.10	NM	NM	NM	NM	NM		
MW-19	10/21/03	MW-19 abandoned and replaced as MW-19 due to city road construction										
MW-19	04/19/04	633.62	636.61			NP	0.00	24.61	21.62	612.00	NA	
MW-19	11/18/04	633.62	636.61			NP	0.00	22.95	19.96	613.66	NA	
MW-19	04/18/05	633.62	636.61			NP	0.00	23.12	20.13	613.49	NA	
MW-19	09/07/05	MW-19 again abandoned and replaced as MW-19R due to reconstruction of nearby retention basin by city										
MW-19R	10/11/05	630.50	633.05	11 bgs	26 bgs	NP	0.00	18.47	15.92	614.58	NA	
MW-19R	05/23/06	630.50	633.05	need new survey		17.70	1.72	19.42	15.54	614.96	NA	
MW-19R	10/16/06	630.50	633.05	need new survey		19.19	2.07	21.26	17.11	613.39	NA	
MW-19R	04/23/07	630.50	633.05	need new survey		19.53	1.12	20.65	17.23	613.27	NA	
MW-19R	09/25/07	630.50	633.05	need new survey		19.60	2.53	22.13	17.62	612.88	NA	
MW-19R	05/01/08	630.50	633.05	need new survey		18.02	0.50	18.52	15.58	614.92	NA	
MW-19R	10/20/08	630.50	633.05	need new survey		17.21	0.68	17.89	14.81	615.69	NA	
MW-19R	04/18/09	630.50	633.05	need new survey		18.12	0.49	18.61	15.68	614.82	NA	
MW-19R	10/11/09	630.50	633.05	need new survey		18.57	1.67	20.24	16.40	614.10	NA	
MW-19R	04/28/10	630.50	633.05	need new survey		18.86	1.30	20.16	16.60	613.90	NA	
MW-19R	10/25/10	630.50	633.05	need new survey		17.41	1.46	18.87	15.19	615.31	NA	
MW-19R	04/25/11	630.50	633.05	need new survey		18.18	0.89	19.07	15.83	614.67	NA	
MW-19R	10/10/11	630.50	633.05	need new survey		17.86	2.11	19.97	15.79	614.71	NA	
MW-19R	01/04/12	630.50	633.05	need new survey		19.14	2.25	21.39	17.10	613.40	NA	
MW-19R	04/05/12	630.50	633.05	need new survey		19.57	2.62	22.19	17.61	612.89	NA	Spill Buddy Before Reading
MW-19R	04/05/12	630.50	633.05	need new survey		20.67	0.14	20.81	18.15	612.35	NA	Spill Buddy After Reading
MW-19R	04/16/12	630.50	633.05	need new survey		19.75	1.07	20.82	17.44	613.06	NA	
MW-19R	06/26/12	630.50	633.05	need new survey		17.14	0.01	17.15	14.59	615.91	NA	
MW-19R	07/26/12	630.50	633.05	need new survey		17.65	1.03	18.68	15.33	615.17	NA	Spill Buddy Before Reading
MW-19R	07/26/12	630.50	633.05	need new survey		18.26	0.03	18.29	15.72	614.78	NA	Spill Buddy After Reading
MW-19R	08/09/12	630.50	633.05	need new survey		17.79	1.26	19.05	15.52	614.98	NA	Spill Buddy Before Reading
MW-19R	08/09/12	630.50	633.05	need new survey		18.38	0.07	18.45	15.85	614.65	NA	Spill Buddy After Reading
MW-19R	09/29/12	630.50	633.05	need new survey		18.84	1.75	20.59	16.69	613.81	NA	Spill Buddy Before Reading
MW-19R	09/29/12	630.50	633.05	need new survey		19.50	0.09	19.59	16.97	613.53	NA	Spill Buddy After Reading
MW-19R	09/30/12	630.50	633.05	need new survey		18.94	0.68	19.62	16.54	613.96	NA	
MW-19R	11/21/12	630.50	633.05	need new survey		19.35	0.79	20.14	16.98	613.52	NA	
MW-19R	12/17/12	630.50	633.05	need new survey		19.60	0.85	20.45	17.24	613.26	NA	
MW-19R	03/25/13	630.50	633.05	need new survey		21.39	-0.97	20.42	18.62	612.63	NA	
MW-19R	05/05/13	630.50	633.05	need new survey		19.52	1.11	20.63	17.22	613.28	NA	
MW-19R	10/03/13	630.50	633.05	need new survey		18.91	2.08	20.99	16.83	613.67	NA	
MW-20	06/30/89	633.80	636.47	619.00	609.00	NP	0.00	19.86	17.19	616.61	No	
MW-20	07/12/89	633.80	636.47	619.00	609.00	NP	0.00	19.98	17.31	616.49	No	
MW-20	07/26/89	633.80	636.47	619.00	609.00	NP	0.00	19.92	17.25	616.55	No	
MW-20	07/27/89	633.80	636.47	619.00	609.00	NP	0.00	20.05	17.38	616.42	No	
MW-20	09/03/89	633.80	636.47	619.00	609.00	NP	0.00	20.16	17.49	616.31	No	

Table 2
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Former Amoco Terminal
Superior, Wisconsin

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MW-20	11/16/89	633.80	636.47	619.00	609.00	NP	0.00	20.17	17.50	616.30	No	
MW-20	11/28/89	633.80	636.47	619.00	609.00	NP	0.00	20.33	17.66	616.14	No	
MW-20	06/01/90	633.80	636.47	619.00	609.00	NP	0.00	20.33	17.66	616.14	No	
MW-20	06/19/90	633.80	636.47	619.00	609.00	NP	0.00	20.20	17.53	616.27	No	
MW-20	06/27/90	633.80	636.47	619.00	609.00	NP	0.00	20.27	17.60	616.20	No	
MW-20	07/05/90	633.80	636.47	619.00	609.00	NP	0.00	20.47	17.80	616.00	No	
MW-20	07/13/90	633.80	636.47	619.00	609.00	NP	0.00	20.46	17.79	616.01	No	
MW-20	07/17/90	633.80	636.47	619.00	609.00	NP	0.00	20.24	17.57	616.23	No	
MW-20	07/25/90	633.80	636.47	619.00	609.00	NP	0.00	20.43	17.76	616.04	No	
MW-20	08/09/90	633.80	636.47	619.00	609.00	NP	0.00	20.35	17.68	616.12	No	
MW-20	08/14/90	633.80	636.47	619.00	609.00	NP	0.00	20.41	17.74	616.06	No	
MW-20	08/27/90	633.80	636.47	619.00	609.00	NP	0.00	20.24	17.57	616.23	No	
MW-20	09/06/90	633.80	636.47	619.00	609.00	NP	0.00	19.98	17.31	616.49	No	
MW-20	01/04/91	633.80	636.47	619.00	609.00	NP	0.00	19.76	17.09	616.71	No	
MW-20	01/30/91	633.80	636.47	619.00	609.00	NP	0.00	19.86	17.19	616.61	No	
MW-20	04/24/91	633.80	636.47	619.00	609.00	NP	0.00	20.26	17.59	616.21	No	
MW-20	07/09/91	633.80	636.47	619.00	609.00	NP	0.00	18.83	16.16	617.64	No	
MW-20	10/08/91	633.80	636.47	619.00	609.00	NP	0.00	17.33	14.66	619.14	Yes	
MW-20	01/07/92	633.80	636.47	619.00	609.00	NP	0.00	17.49	14.82	618.98	No	
MW-20	10/14/92	633.80	636.47	619.00	609.00	NP	0.00	17.23	14.56	619.24	Yes	
MW-20	06/25/93	633.80	636.47	619.00	609.00	NP	0.00	15.86	13.19	620.61	Yes	
MW-20	10/28/93	633.80	636.47	619.00	609.00	NP	0.00	17.43	14.76	619.04	Yes	
MW-20	01/29/94	633.80	636.47	619.00	609.00	NP	0.00	18.41	15.74	618.06	No	
MW-20	04/27/94	633.80	636.47	619.00	609.00	NP	0.00	18.52	15.85	617.95	No	
MW-20	07/21/94	633.80	636.47	619.00	609.00	NP	0.00	17.30	14.63	619.17	Yes	
MW-20	10/25/94	633.80	636.47	619.00	609.00	NP	0.00	17.67	15.00	618.80	No	
MW-20	10/27/94	633.80	636.47	619.00	609.00	NP	0.00	16.93	14.26	619.54	Yes	
MW-20	02/01/95	633.80	636.47	619.00	609.00	NP	0.00	18.71	16.04	617.76	No	
MW-20	04/04/95	633.80	636.47	619.00	609.00	NP	0.00	19.35	16.68	617.12	No	
MW-20	11/13/95	633.80	636.47	619.00	609.00	NP	0.00	17.54	14.87	618.93	No	
MW-20	03/13/96	633.80	636.47	619.00	609.00	NP	0.00	19.01	16.34	617.46	No	
MW-20	04/22/96	633.80	636.47	619.00	609.00	NP	0.00	18.35	15.68	618.12	No	
MW-20	10/08/96	633.80	636.47	619.00	609.00	NP	0.00	16.83	14.16	619.64	Yes	
MW-20	04/29/97	633.80	636.47	619.00	609.00	NP	0.00	16.30	13.63	620.17	Yes	
MW-20	11/03/98	633.80	636.47	619.00	609.00	NP	0.00	19.39	16.72	617.08	No	
MW-20	03/02/99	633.80	636.47	619.00	609.00	NP	0.00	19.39	16.72	617.08	No	
MW-20	04/26/00	633.80	636.47	619.00	609.00	NP	0.00	18.71	16.04	617.76	No	
MW-20	10/10/00	633.80	636.47	619.00	609.00	NP	0.00	18.95	16.28	617.52	No	
MW-20	11/05/02	633.80	636.47	619.00	609.00	NP	0.00	18.88	16.21	617.59	No	
MW-20	04/17/03	633.80	636.47	619.00	609.00	NM	NM	NM	NM	NM	NM	
MW-20	05/15/03	633.80	636.47	619.00	609.00	NM	NM	NM	NM	NM	NM	
MW-20	08/18/03						Abandoned					

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-21	06/30/89	635.10	637.26	618.50	608.50	NP	0.00	20.53	18.37	616.73	No	
MW-21	07/12/89	635.10	637.26	618.50	608.50	NP	0.00	20.68	18.52	616.58	No	
MW-21	07/26/89	635.10	637.26	618.50	608.50	NP	0.00	20.53	18.37	616.73	No	
MW-21	07/27/89	635.10	637.26	618.50	608.50	NP	0.00	20.69	18.53	616.57	No	
MW-21	09/03/89	635.10	637.26	618.50	608.50	NP	0.00	20.89	18.73	616.37	No	
MW-21	11/16/89	635.10	637.26	618.50	608.50	NP	0.00	20.80	18.64	616.46	No	
MW-21	11/28/89	635.10	637.26	618.50	608.50	NP	0.00	21.03	18.87	616.23	No	
MW-21	06/01/90	635.10	637.26	618.50	608.50	NP	0.00	21.05	18.89	616.21	No	
MW-21	06/19/90	635.10	637.26	618.50	608.50	NP	0.00	21.06	18.90	616.20	No	
MW-21	06/27/90	635.10	637.26	618.50	608.50	NP	0.00	21.25	19.09	616.01	No	
MW-21	07/05/90	635.10	637.26	618.50	608.50	NP	0.00	21.50	19.34	615.76	No	
MW-21	07/13/90	635.10	637.26	618.50	608.50	NP	0.00	21.37	19.21	615.89	No	
MW-21	07/17/90	635.10	637.26	618.50	608.50	NP	0.00	21.06	18.90	616.20	No	
MW-21	07/25/90	635.10	637.26	618.50	608.50	NP	0.00	21.30	19.14	615.96	No	
MW-21	08/09/90	635.10	637.26	618.50	608.50	NP	0.00	21.17	19.01	616.09	No	
MW-21	08/14/90	635.10	637.26	618.50	608.50	NP	0.00	21.33	19.17	615.93	No	
MW-21	08/27/90	635.10	637.26	618.50	608.50	NP	0.00	21.24	19.08	616.02	No	
MW-21	09/06/90	635.10	637.26	618.50	608.50	NP	0.00	21.02	18.86	616.24	No	
MW-21	01/04/91	635.10	637.26	618.50	608.50	NP	0.00	20.41	18.25	616.85	No	
MW-21	01/30/91	635.10	637.26	618.50	608.50	NP	0.00	20.52	18.36	616.74	No	
MW-21	04/24/91	635.10	637.26	618.50	608.50	NP	0.00	21.04	18.88	616.22	No	
MW-21	06/06/91	635.10	637.26	618.50	608.50	NP	0.00	20.06	17.90	617.20	No	
MW-21	07/09/91	635.10	637.26	618.50	608.50	NP	0.00	19.18	17.02	618.08	No	
MW-21	08/06/91	635.10	637.26	618.50	608.50	NP	0.00	18.49	16.33	618.77	Yes	
MW-21	09/04/91	635.10	637.26	618.50	608.50	NP	0.00	18.37	16.21	618.89	Yes	
MW-21	10/08/91	635.10	637.26	618.50	608.50	NP	0.00	17.59	15.43	619.67	Yes	
MW-21	11/08/91	635.10	637.26	618.50	608.50	NP	0.00	18.28	16.12	618.98	Yes	
MW-21	12/03/91	635.10	637.26	618.50	608.50	NP	0.00	16.53	14.37	620.73	Yes	
MW-21	01/07/92	635.10	637.26	618.50	608.50	NP	0.00	17.83	15.67	619.43	Yes	
MW-21	02/04/92	635.10	637.26	618.50	608.50	NP	0.00	18.53	16.37	618.73	Yes	
MW-21	03/03/92	635.10	637.26	618.50	608.50	NP	0.00	18.95	16.79	618.31	No	
MW-21	09/24/92	635.10	637.26	618.50	608.50	NP	0.00	17.08	14.92	620.18	Yes	
MW-21	10/14/92	635.10	637.26	618.50	608.50	NP	0.00	17.84	15.68	619.42	Yes	
MW-21	06/25/93	635.10	637.26	618.50	608.50	NP	0.00	15.67	13.51	621.59	Yes	
MW-21	10/28/93	635.10	637.26	618.50	608.50	NP	0.00	18.26	16.10	619.00	Yes	
MW-21	04/27/94	635.10	637.26	618.50	608.50	NP	0.00	19.03	16.87	618.23	No	
MW-21	07/21/94	635.10	637.26	618.50	608.50	NP	0.00	17.59	15.43	619.67	Yes	
MW-21	04/04/95	635.10	637.26	618.50	608.50	NP	0.00	20.21	18.05	617.05	No	
MW-21	07/12/95	635.10	637.26	618.50	608.50	NP	0.00	19.04	16.88	618.22	No	
MW-21	11/13/95	635.10	637.26	618.50	608.50	17.78	0.01	17.79	15.62	619.48	Yes	
MW-21	10/08/96	635.10	637.26	618.50	608.50	NP	0.00	16.93	14.77	620.33	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-21	04/29/97	635.10	637.26	618.50	608.50	NP	0.00	16.10	13.94	621.16	Yes	
MW-21	03/02/99	635.10	637.26	618.50	608.50	NP	0.00	19.99	17.83	617.27	No	
MW-21	10/07/99	635.10	637.26	618.50	608.50	NP	0.00	16.89	14.73	620.37	Yes	
MW-21	11/09/99	635.10	637.26	618.50	608.50	NP	0.00	16.60	14.44	620.66	Yes	
MW-21	01/27/00	635.10	637.26	618.50	608.50	NP	0.00	19.18	17.02	618.08	No	
MW-21	04/20/00	635.10	637.26	618.50	608.50	NP	0.00	19.11	16.95	618.15	No	
MW-21	04/26/00	635.10	637.26	618.50	608.50	NP	0.00	19.12	16.96	618.14	No	
MW-21	08/18/00	635.10	637.26	618.50	608.50	NP	0.00	19.62	17.46	617.64	No	
MW-21	11/05/02	635.10	637.26	618.50	608.50	NP	0.00	19.01	16.85	618.25	No	
MW-21	10/23/03	635.10	637.26	618.50	608.50	NP	0.00	21.01	18.85	616.25	No	
MW-21	04/19/04	635.88	637.31	618.50	608.50	NP	0.00	21.87	20.44	615.44	No	
MW-21	11/16/04	635.88	637.31	618.50	608.50	NP	0.00	20.14	18.71	617.17	No	
MW-21	04/18/05	635.88	637.31	618.50	608.50	NP	0.00	20.36	18.93	616.95	No	
MW-21	10/11/05	635.88	637.31	618.50	608.50	NP	0.00	19.83	18.40	617.48	No	
MW-21	05/23/06	635.88	637.31	618.50	608.50	NP	0.00	19.08	17.65	618.23	No	
MW-21	10/16/06	635.88	637.31	618.50	608.50	NP	0.00	19.87	18.44	617.44	No	
MW-21	04/23/07	635.88	637.31	618.50	608.50	NP	0.00	20.82	19.39	616.49	No	
MW-21	06/26/07						Abandoned					Well bent
MW-22	06/30/89	636.30	638.97	618.60	608.60	22.21	1.50	23.71	19.88	616.42	No	
MW-22	07/12/89	636.30	638.97	618.60	608.60	22.10	2.50	24.60	19.99	616.31	No	
MW-22	07/26/89	636.30	638.97	618.60	608.60	22.01	2.71	24.72	19.95	616.35	No	
MW-22	07/27/89	636.30	638.97	618.60	608.60	22.06	2.78	24.84	20.02	616.28	No	
MW-22	09/03/89	636.30	638.97	618.60	608.60	22.25	2.64	24.89	20.18	616.12	No	
MW-22	11/16/89	636.30	638.97	618.60	608.60	22.08	2.61	24.69	20.00	616.30	No	
MW-22	11/29/89	636.30	638.97	618.60	608.60	22.02	2.62	24.64	19.94	616.36	No	
MW-22	12/01/89	636.30	638.97	618.60	608.60	22.35	2.45	24.80	20.23	616.07	No	
MW-22	12/02/89	636.30	638.97	618.60	608.60	22.55	2.05	24.60	20.34	615.96	No	
MW-22	05/04/90	636.30	638.97	618.60	608.60	22.78	3.56	26.34	20.91	615.39	No	
MW-22	06/01/90	636.30	638.97	618.60	608.60	22.52	3.53	26.05	20.65	615.65	No	
MW-22	06/19/90	636.30	638.97	618.60	608.60	22.52	3.24	25.76	20.58	615.72	No	
MW-22	06/27/90	636.30	638.97	618.60	608.60	22.69	3.07	25.76	20.71	615.59	No	
MW-22	07/05/90	636.30	638.97	618.60	608.60	22.85	3.22	26.07	20.91	615.39	No	
MW-22	07/13/90	636.30	638.97	618.60	608.60	22.65	3.11	25.76	20.68	615.62	No	
MW-22	07/17/90	636.30	638.97	618.60	608.60	22.46	3.11	25.57	20.49	615.81	No	
MW-22	07/25/90	636.30	638.97	618.60	608.60	22.65	3.15	25.80	20.69	615.61	No	
MW-22	08/27/90	636.30	638.97	618.60	608.60	22.60	3.08	25.68	20.63	615.67	No	
MW-22	09/06/90	636.30	638.97	618.60	608.60	22.50	2.94	25.44	20.49	615.81	No	
MW-22	01/04/91	636.30	638.97	618.60	608.60	22.02	1.99	24.01	19.80	616.50	No	
MW-22	01/30/91	636.30	638.97	618.60	608.60	22.10	2.29	24.39	19.95	616.35	No	
MW-22	04/24/91	636.30	638.97	618.60	608.60	22.42	3.02	25.44	20.43	615.87	No	
MW-22	07/09/91	636.30	638.97	618.60	608.60	21.41	0.50	21.91	18.85	617.45	No	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-22	10/08/91	636.30	638.97	618.60	608.60	18.94	3.40	22.34	17.04	619.26	Yes	
MW-22	01/07/92	636.30	638.97	618.60	608.60	19.20	2.74	21.94	17.15	619.15	Yes	
MW-22	10/14/92	636.30	638.97	618.60	608.60	19.32	2.74	22.06	17.27	619.03	Yes	
MW-22	06/25/93	636.30	638.97	618.60	608.60	16.97	4.22	21.19	15.25	621.05	Yes	
MW-22	10/28/93	636.30	638.97	618.60	608.60	16.79	5.13	21.92	15.28	621.02	Yes	
MW-22	01/29/94	636.30	638.97	618.60	608.60	20.64	1.40	22.04	18.29	618.01	No	
MW-22	04/27/94	636.30	638.97	618.60	608.60	20.74	1.58	22.32	18.43	617.87	No	
MW-22	07/21/94	636.30	638.97	618.60	608.60	18.96	3.00	21.96	16.97	619.33	Yes	
MW-22	10/25/94	636.30	638.97	618.60	608.60	19.77	2.08	21.85	17.57	618.73	Yes	
MW-22	02/01/95	636.30	638.97	618.60	608.60	21.15	1.17	22.32	18.74	617.56	No	
MW-22	04/04/95	636.30	638.97	618.60	608.60	21.80	1.18	22.98	19.40	616.90	No	
MW-22	07/12/95	636.30	638.97	618.60	608.60	20.90	0.78	21.68	18.41	617.89	No	
MW-22	11/14/95	636.30	638.97	618.60	608.60	19.55	1.00	20.55	17.11	619.19	Yes	
MW-22	03/13/96	636.30	638.97	618.60	608.60	21.34	1.44	22.78	19.00	617.30	No	
MW-22	10/08/96	636.30	638.97	618.60	608.60	18.30	2.42	20.72	16.18	620.12	Yes	
MW-22	04/29/97	636.30	638.97	618.60	608.60	17.60	2.00	19.60	15.38	620.92	Yes	
MW-22	06/10/97	636.30	638.97	618.60	608.60	18.75	2.40	21.15	16.62	619.68	Yes	
MW-22	11/03/98	636.30	638.97	618.60	608.60	21.79	0.64	22.43	19.26	617.04	No	
MW-22	03/02/99	636.30	638.97	618.60	608.60	21.85	1.45	23.30	19.51	616.79	No	
MW-22	10/07/99	636.30	638.97	618.60	608.60	18.62	0.20	18.82	16.00	620.30	Yes	
MW-22	11/09/99	636.30	638.97	618.60	608.60	18.52	0.05	18.57	15.86	620.44	Yes	bailed <0.1 gal. FP
MW-22	12/21/99	636.30	638.97	618.60	608.60	18.36	0.06	18.42	15.70	620.60	Yes	
MW-22	01/27/00	636.30	638.97	618.60	608.60	20.60	1.34	21.94	18.23	618.07	No	bailed 0.3 gal. FP
MW-22	02/24/00	636.30	638.97	618.60	608.60	21.10	0.83	21.93	18.62	617.68	No	bailed 0.2 gal. FP
MW-22	03/31/00	636.30	638.97	618.60	608.60	21.34	0.32	21.66	18.74	617.56	No	bailed 0.12 gal. FP
MW-22	04/20/00	636.30	638.97	618.60	608.60	21.08	1.06	22.14	18.65	617.65	No	bailed 0.5 gal. FP
MW-22	04/26/00	636.30	638.97	618.60	608.60	20.97	0.43	21.40	18.40	617.90	No	bailed 0.25 gal. FP
MW-22	05/31/00	636.30	638.97	618.60	608.60	21.07	0.29	21.36	18.47	617.83	No	bailed 0.125 gal. FP
MW-22	06/29/00	636.30	638.97	618.60	608.60	20.88	0.26	21.14	18.27	618.03	No	bailed 0.1 gal. FP
MW-22	07/26/00	636.30	638.97	618.60	608.60	20.95	0.25	21.20	18.34	617.96	No	bailed <0.1 gal. FP
MW-22	08/18/00	636.30	638.97	618.60	608.60	21.06	0.23	21.29	18.44	617.86	No	bailed 0.125 gal. FP
MW-22	09/27/00	636.30	638.97	618.60	608.60	21.69	0.36	22.05	19.10	617.20	No	bailed <0.05 gal. FP
MW-22	10/11/00	636.30	638.97	618.60	608.60	21.57	0.03	21.60	18.91	617.39	No	
MW-22	11/17/00	636.30	638.97	618.60	608.60	21.62	0.86	22.48	19.14	617.16	No	bailed 0.5 gal. FP
MW-22	12/12/00	636.30	638.97	618.60	608.60	21.30	0.51	21.81	18.75	617.55	No	bailed 0.25 gal. FP
MW-22	01/18/01	636.30	638.97	618.60	608.60	21.71	0.57	22.28	19.17	617.13	No	bailed 0.25 gal. FP
MW-22	04/24/01	636.30	638.97	618.60	608.60	21.80	1.59	23.39	19.49	616.81	No	product abated using vactruck
MW-22	05/23/01	636.30	638.97	618.60	608.60	20.78	1.26	22.04	18.39	617.91	No	no product bailed
MW-22	06/19/01	636.30	638.97	618.60	608.60	20.56	1.17	21.73	18.15	618.15	No	
MW-22	07/26/01	636.30	638.97	618.60	608.60	21.04	0.98	22.02	18.59	617.71	No	
MW-22	08/31/01	636.30	638.97	618.60	608.60	21.37	0.67	22.04	18.85	617.45	No	
MW-22	09/26/01	636.30	638.97	618.60	608.60	21.44	0.46	21.90	18.87	617.43	No	

Table 2
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-22	10/24/01	636.30	638.97	618.60	608.60	21.50	0.40	21.90	18.92	617.38	No	
MW-22	12/20/01	636.30	638.97	618.60	608.60	21.95	1.39	23.34	19.59	616.71	No	
MW-22	01/22/02	636.30	638.97	618.60	608.60	21.64	2.08	23.72	19.44	616.86	No	
MW-22	02/26/02	636.30	638.97	618.60	608.60	22.05	2.34	24.39	19.91	616.39	No	
MW-22	03/20/02	636.30	638.97	618.60	608.60	22.20	2.56	24.76	20.11	616.19	No	
MW-22	04/24/02	636.30	638.97	618.60	608.60	21.51	3.78	25.29	19.69	616.61	No	
MW-22	05/15/02	636.30	638.97	618.60	608.60	21.32	3.00	24.32	19.33	616.97	No	
MW-22	06/27/02	636.30	638.97	618.60	608.60	21.70	2.15	23.85	19.52	616.78	No	
MW-22	07/25/02	636.30	638.97	618.60	608.60	21.46	2.08	23.54	19.26	617.04	No	
MW-22	08/20/02	636.30	638.97	618.60	608.60	21.59	1.73	23.32	19.31	616.99	No	
MW-22	09/30/02	636.30	638.97	618.60	608.60	21.07	1.37	22.44	18.71	617.59	No	
MW-22	11/05/02	636.30	638.97	618.60	608.60	21.09	0.89	21.98	18.62	617.68	No	
MW-22	12/23/02	636.30	638.97	618.60	608.60	21.71	0.26	21.97	19.10	617.20	No	
MW-22	01/28/03	636.30	638.97	618.60	608.60	21.99	1.34	23.33	19.62	616.68	No	
MW-22	02/19/03	636.30	638.97	618.60	608.60	22.04	1.64	23.68	19.74	616.56	No	
MW-22	04/17/03	636.30	638.97	618.60	608.60	22.35	2.70	25.05	20.29	616.01	No	
MW-22	05/15/03	636.30	638.97	618.60	608.60	22.71	2.56	25.27	20.62	615.68	No	
MW-22	06/10/03	636.30	638.97	618.60	608.60	22.36	2.31	24.67	20.21	616.09	No	
MW-22	10/23/03	636.30	638.97	618.60	608.60	22.44	2.53	24.97	20.34	615.96	No	
MW-22	12/03/03	636.30	638.97	618.60	608.60	22.53	2.81	25.34	20.49	615.81	No	
MW-22	04/19/04	636.32	639.10	618.60	608.60	23.09	3.81	26.90	21.17	615.15	No	
MW-22	07/28/04	636.32	639.10	618.60	608.60	22.49	1.92	24.41	20.14	616.18	No	
MW-22	11/15/04	636.32	639.10	618.60	608.60	21.87	1.25	23.12	19.37	616.95	No	
MW-22	04/18/05	636.32	639.10	618.60	608.60	22.13	1.97	24.10	19.79	616.53	No	
MW-22	09/09/05	636.32	639.10	618.60	608.60	21.69	0.68	22.37	19.06	617.26	No	
MW-22	05/23/06	636.32	639.10	618.60	608.60	20.88	1.11	21.99	18.35	617.97	No	
MW-22	10/16/06	636.32	639.10	618.60	608.60	21.72	1.11	22.83	19.19	617.13	No	
MW-22	04/23/07	636.32	639.10	618.60	608.60	22.54	2.49	25.03	20.32	616.00	No	
MW-22	09/25/07	636.32	639.10	618.60	608.60	22.37	2.28	24.65	20.10	616.22	No	
MW-22	05/01/08	636.32	639.10	618.60	608.60	21.52	1.26	22.78	19.02	617.30	No	
MW-22	10/20/08	636.32	639.10	618.60	608.60	20.26	0.36	20.62	17.56	618.76	Yes	
MW-22	04/18/09	636.32	639.10	618.60	608.60	21.11	0.43	21.54	18.43	617.89	No	
MW-22	10/11/09	636.32	639.10	618.60	608.60	21.64	0.48	22.12	18.97	617.35	No	
MW-22	04/28/10	636.32	639.10	618.60	608.60	21.58	0.98	22.56	19.02	617.30	No	
MW-22	10/25/10	636.32	639.10	618.60	608.60	19.32	1.13	20.45	16.80	619.52	Yes	
MW-22	04/25/11	636.32	639.10	618.60	608.60	20.64	0.98	21.62	18.08	618.24	No	
MW-22	08/03/11	636.32	639.10	618.60	608.60	19.17	0.96	20.13	16.61	619.71	Yes	
MW-22	10/10/11	636.32	639.10	618.60	608.60	20.22	0.17	20.39	17.48	618.84	Yes	
MW-22	01/04/12	636.32	639.10	618.60	608.60	21.51	0.49	22.00	18.84	617.48	No	
MW-22	04/05/12	636.32	639.10	618.60	608.60	22.26	1.15	23.41	19.74	616.58	No	Spill Buddy Before Reading
MW-22	04/05/12	636.32	639.10	618.60	608.60	22.48	0.32	22.80	19.77	616.55	No	Spill Buddy After Reading
MW-22	04/16/12	636.32	639.10	618.60	608.60	22.44	1.24	23.68	19.94	616.38	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-22	06/18/12	636.32	639.10	618.60	608.60	20.85	0.77	21.62	18.24	618.08	No	
MW-22	06/26/12	636.32	639.10	618.60	608.60	20.44	0.66	21.10	17.81	618.51	No	
MW-22	09/30/12	636.32	639.10	618.60	608.60	21.32	0.73	22.05	18.70	617.62	No	
MW-22	11/21/12	636.32	639.10	618.60	608.60	21.88	0.07	21.95	19.12	617.20	No	
MW-22	12/17/12	636.32	639.10	618.60	608.60	22.12	0.18	22.30	19.38	616.94	No	
MW-22	03/25/13	636.32	639.10	618.60	608.60	22.28	2.47	24.75	20.06	616.26	No	
MW-22	05/05/13	636.32	639.10	618.60	608.60	22.32	2.78	25.10	20.17	616.15	No	
MW-22	10/03/13	636.32	639.10	618.60	608.60	22.08	1.02	23.10	19.53	616.79	No	
MW-22	05/22/14	636.32	639.10	618.60	608.60	20.34	1.77	22.11	17.96	618.36	No	
MW-22	10/31/14	636.32	639.10	618.60	608.60	20.16	0.77	20.93	17.55	618.77	Yes	
MW-22	05/06/15	636.32	639.10	618.60	608.60	21.99	0.04	22.03	19.22	617.10	No	
MW-22	10/05/15	636.32	639.10	618.60	608.60	20.35	0.09	20.44	17.59	618.73	Yes	
MW-22	05/23/16	636.32	639.10	618.60	608.60	17.82	0.07	17.89	15.06	621.26	Yes	
MW-22	10/03/16	636.32	639.10	618.60	608.60	18.92	0.10	19.02	16.16	620.16	Yes	
MW-22	06/14/17	636.32	639.10	618.60	608.60	18.00	0.10	18.10	15.24	621.08	Yes	
MW-22	06/21/17	636.32	639.10	618.60	608.60	18.36	0.13	18.49	15.61	620.71	Yes	
MW-22	06/22/17	636.32	639.10	618.60	608.60	18.23	0.10	18.33	15.47	620.85	Yes	
MW-22	06/23/17	636.32	639.10	618.60	608.60	18.32	0.11	18.43	15.56	620.76	Yes	
MW-23	06/30/89	633.90	636.81	624.70	609.70	17.07	3.20	20.27	14.88	619.02	No	
MW-23	07/12/89	633.90	636.81	624.70	609.70	15.08	2.50	17.58	12.73	621.17	No	
MW-23	07/26/89	633.90	636.81	624.70	609.70	17.81	2.73	20.54	15.52	618.38	No	
MW-23	07/27/89	633.90	636.81	624.70	609.70	17.83	2.77	20.60	15.55	618.35	No	
MW-23	09/03/89	633.90	636.81	624.70	609.70	17.95	3.72	21.67	15.88	618.02	No	
MW-23	11/16/89	633.90	636.81	624.70	609.70	17.20	5.15	22.35	15.45	618.45	No	
MW-23	11/29/89	633.90	636.81	624.70	609.70	17.55	3.98	21.53	15.54	618.36	No	
MW-23	12/01/89	633.90	636.81	624.70	609.70	18.20	2.27	20.47	15.80	618.10	No	
MW-23	12/02/89	633.90	636.81	624.70	609.70	18.41	1.41	19.82	15.82	618.08	No	
MW-23	05/04/90	633.90	636.81	624.70	609.70	18.03	4.26	22.29	16.08	617.82	No	
MW-23	06/01/90	633.90	636.81	624.70	609.70	17.35	3.65	21.00	15.26	618.64	No	
MW-23	06/19/90	633.90	636.81	624.70	609.70	17.49	3.37	20.86	15.34	618.56	No	
MW-23	06/27/90	633.90	636.81	624.70	609.70	17.78	3.28	21.06	15.61	618.29	No	
MW-23	07/05/90	633.90	636.81	624.70	609.70	18.10	3.43	21.53	15.96	617.94	No	
MW-23	07/13/90	633.90	636.81	624.70	609.70	18.02	3.65	21.67	15.93	617.97	No	
MW-23	07/17/90	633.90	636.81	624.70	609.70	17.78	3.57	21.35	15.68	618.22	No	
MW-23	07/25/90	633.90	636.81	624.70	609.70	18.10	3.79	21.89	16.05	617.85	No	
MW-23	08/09/90	633.90	636.81	624.70	609.70	20.68	2.65	23.33	18.37	615.53	No	
MW-23	08/27/90	633.90	636.81	624.70	609.70	18.29	3.71	22.00	16.22	617.68	No	
MW-23	09/06/90	633.90	636.81	624.70	609.70	17.75	3.07	20.82	15.53	618.37	No	
MW-23	01/04/91	633.90	636.81	624.70	609.70	17.84	2.56	20.40	15.51	618.39	No	
MW-23	01/30/91	633.90	636.81	624.70	609.70	18.05	3.18	21.23	15.86	618.04	No	
MW-23	04/24/91	633.90	636.81	624.70	609.70	17.18	3.78	20.96	15.12	618.78	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	06/06/91	633.90	636.81	624.70	609.70	15.11	4.67	19.78	13.25	620.65	No	
MW-23	07/09/91	633.90	636.81	624.70	609.70	13.76	5.93	19.69	12.19	621.71	No	
MW-23	08/06/91	633.90	636.81	624.70	609.70	12.87	7.10	19.97	11.56	622.34	No	
MW-23	09/04/91	633.90	636.81	624.70	609.70	13.93	6.02	19.95	12.38	621.52	No	
MW-23	10/08/91	633.90	636.81	624.70	609.70	13.10	6.60	19.70	11.68	622.22	No	
MW-23	11/08/91	633.90	636.81	624.70	609.70	14.32	5.15	19.47	12.57	621.33	No	
MW-23	12/03/91	633.90	636.81	624.70	609.70	10.40	10.15	20.55	9.78	624.12	No	
MW-23	01/07/92	633.90	636.81	624.70	609.70	13.27	7.60	20.87	12.08	621.82	No	
MW-23	02/04/92	633.90	636.81	624.70	609.70	15.40	4.54	19.94	13.52	620.38	No	
MW-23	03/03/92	633.90	636.81	624.70	609.70	15.45	5.75	21.20	13.84	620.06	No	
MW-23	09/24/92	633.90	636.81	624.70	609.70	13.02	6.61	19.63	11.60	622.30	No	
MW-23	10/14/92	633.90	636.81	624.70	609.70	14.23	5.64	19.87	12.59	621.31	No	
MW-23	06/25/93	633.90	636.81	624.70	609.70	9.77	9.74	19.51	9.06	624.84	Yes	
MW-23	10/28/93	633.90	636.81	624.70	609.70	15.31	4.55	19.86	13.43	620.47	No	
MW-23	01/29/94	633.90	636.81	624.70	609.70	16.32	3.70	20.02	14.25	619.65	No	
MW-23	04/27/94	633.90	636.81	624.70	609.70	13.99	6.34	20.33	12.51	621.39	No	
MW-23	07/21/94	633.90	636.81	624.70	609.70	13.72	5.86	19.58	12.13	621.77	No	
MW-23	10/25/94	633.90	636.81	624.70	609.70	13.84	6.49	20.33	12.40	621.50	No	
MW-23	02/01/95	633.90	636.81	624.70	609.70	17.28	2.53	19.81	14.94	618.96	No	
MW-23	04/04/95	633.90	636.81	624.70	609.70	17.60	2.65	20.25	15.29	618.61	No	
MW-23	11/13/95	633.90	636.81	624.70	609.70	13.05	6.90	19.95	11.70	622.20	No	
MW-23	10/08/96	633.90	636.81	624.70	609.70	12.78	6.47	19.25	11.33	622.57	No	
MW-23	04/29/97	633.90	636.81	624.70	609.70	10.25	9.20	19.45	9.42	624.48	No	
MW-23	06/10/97	633.90	636.81	624.70	609.70	13.45	5.40	18.85	11.76	622.14	No	FP bailed 5/22/97
MW-23	11/03/98	633.90	636.81	624.70	609.70	16.05	5.16	21.21	14.31	619.59	No	
MW-23	03/02/99	633.90	636.81	624.70	609.70	16.91	4.04	20.95	14.91	618.99	No	
MW-23	10/07/99	633.90	636.81	624.70	609.70	12.44	5.61	18.05	10.80	623.10	No	
MW-23	11/09/99	633.90	636.81	624.70	609.70	11.95	6.75	18.70	10.56	623.34	No	bailed 3 gal. FP
MW-23	12/21/99	633.90	636.81	624.70	609.70	14.55	4.45	19.00	12.65	621.25	No	bailed 8 gal. FP
MW-23	01/27/00	633.90	636.81	624.70	609.70	17.32	1.58	18.90	14.77	619.13	No	bailed 0.4 gal. FP
MW-23	02/24/00	633.90	636.81	624.70	609.70	17.64	1.32	18.96	15.03	618.87	No	bailed 0.25 gal. FP
MW-23	03/31/00	633.90	636.81	624.70	609.70	15.70	4.07	19.77	13.71	620.19	No	bailed 2 gal. FP
MW-23	04/20/00	633.90	636.81	624.70	609.70	13.18	7.37	20.55	11.93	621.97	No	bailed 6 gal. FP
MW-23	04/26/00	633.90	636.81	624.70	609.70	15.82	3.18	19.00	13.63	620.27	No	bailed 2 gal. FP
MW-23	05/31/00	633.90	636.81	624.70	609.70	16.20	2.58	18.78	13.87	620.03	No	bailed 3 gal. FP
MW-23	06/29/00	633.90	636.81	624.70	609.70	15.15	3.60	18.75	13.05	620.85	No	bailed 1 gal. FP
MW-23	07/26/00	633.90	636.81	624.70	609.70	16.02	2.84	18.86	13.75	620.15	No	bailed 1 gal. FP
MW-23	08/18/00	633.90	636.81	624.70	609.70	16.55	2.50	19.05	14.20	619.70	No	bailed 1 gal. FP
MW-23	09/27/00	633.90	636.81	624.70	609.70	17.41	2.12	19.53	14.98	618.92	No	bailed 1.25 gal. FP
MW-23	10/11/00	633.90	636.81	624.70	609.70	17.60	1.75	19.35	15.09	618.81	No	bailed .25 gal. FP
MW-23	11/17/00	633.90	636.81	624.70	609.70	14.98	5.33	20.31	13.27	620.63	No	bailed 4.25 gal. FP
MW-23	12/12/00	633.90	636.81	624.70	609.70	15.11	4.98	20.09	13.32	620.58	No	bailed 2.5 gal. FP

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	01/18/01	633.90	636.81	624.70	609.70	15.51	4.92	20.43	13.71	620.19	No	
MW-23	04/24/01	633.90	636.81	624.70	609.70	16.16	3.46	19.62	14.03	619.87	No	bailed 2.75 gal. FP
MW-23	05/23/01	633.90	636.81	624.70	609.70	13.73	5.82	19.55	12.13	621.77	No	product abated using vactruck
MW-23	06/19/01	633.90	636.81	624.70	609.70	14.77	4.47	19.24	12.87	621.03	No	no product bailed
MW-23	07/26/01	633.90	636.81	624.70	609.70	16.99	2.36	19.35	14.61	619.29	No	
MW-23	08/31/01	633.90	636.81	624.70	609.70	16.99	2.69	19.68	14.69	619.21	No	
MW-23	09/26/01	633.90	636.81	624.70	609.70	17.59	2.01	19.60	15.13	618.77	No	
MW-23	10/24/01	633.90	636.81	624.70	609.70	17.16	2.70	19.86	14.86	619.04	No	
MW-23	12/20/01	633.90	636.81	624.70	609.70	17.90	2.43	20.33	15.54	618.36	No	
MW-23	01/22/02	633.90	636.81	624.70	609.70	17.89	2.01	19.90	15.43	618.47	No	
MW-23	02/26/02	633.90	636.81	624.70	609.70	18.32	2.89	21.21	16.06	617.84	No	
MW-23	03/20/02	633.90	636.81	624.70	609.70	18.45	3.10	21.55	16.24	617.66	No	
MW-23	04/24/02	633.90	636.81	624.70	609.70	17.33	2.73	20.06	15.04	618.86	No	
MW-23	05/15/02	633.90	636.81	624.70	609.70	16.47	2.99	19.46	14.24	619.66	No	
MW-23	06/27/02	633.90	636.81	624.70	609.70	16.97	2.52	19.49	14.63	619.27	No	
MW-23	07/25/02	633.90	636.81	624.70	609.70	17.23	1.94	19.17	14.76	619.14	No	
MW-23	08/20/02	633.90	636.81	624.70	609.70	17.44	1.95	19.39	14.97	618.93	No	
MW-23	09/30/02	633.90	636.81	624.70	609.70	16.65	2.05	18.70	14.20	619.70	No	
MW-23	11/05/02	633.90	636.81	624.70	609.70	15.29	4.37	19.66	13.37	620.53	No	
MW-23	12/23/02	633.90	636.81	624.70	609.70	17.69	1.78	19.47	15.18	618.72	No	
MW-23	01/28/03	633.90	636.81	624.70	609.70	18.18	1.94	20.12	15.71	618.19	No	
MW-23	02/19/03	633.90	636.81	624.70	609.70	18.31	2.64	20.95	16.00	617.90	No	
MW-23	04/17/03	633.90	636.81	624.70	609.70	18.63	3.61	22.24	16.54	617.36	No	
MW-23	05/15/03	633.90	636.81	624.70	609.70	18.42	3.58	22.00	16.32	617.58	No	
MW-23	06/10/03	633.90	636.81	624.70	609.70	18.10	2.32	20.42	15.71	618.19	No	
MW-23	10/23/03	633.90	636.81	624.70	609.70	18.46	3.32	21.78	16.30	617.60	No	
MW-23	12/03/03	633.90	636.81	624.70	609.70	18.58	3.58	22.16	16.48	617.42	No	
MW-23	04/19/04	635.07	636.91	624.70	609.70	18.89	3.75	22.64	17.90	617.17	No	
MW-23	07/28/04	635.07	636.91	624.70	609.70	17.95	2.15	20.10	16.60	618.47	No	
MW-23	11/15/04	635.07	636.91	624.70	609.70	16.31	3.23	19.54	15.20	619.87	No	
MW-23	04/18/05	635.07	636.91	624.70	609.70	16.59	3.89	20.48	15.63	619.44	No	
MW-23	09/09/05	635.07	636.91	624.70	609.70	17.85	1.40	19.25	16.33	618.74	No	
MW-23	10/11/05	635.07	636.91	624.70	609.70	16.07	4.22	20.29	15.18	619.89	No	
MW-23	05/23/06	635.07	636.91	624.70	609.70	15.63	2.66	18.29	14.39	620.68	No	
MW-23	10/16/06	635.07	636.91	624.70	609.70	17.59	1.53	19.12	16.10	618.97	No	
MW-23	04/23/07	635.07	636.91	624.70	609.70	18.25	3.31	21.56	17.16	617.91	No	
MW-23	09/25/07	635.07	636.91	624.70	609.70	17.93	3.27	21.20	16.83	618.24	No	
MW-23	05/01/08	635.07	636.91	624.70	609.70	15.32	3.84	19.16	14.35	620.72	No	
MW-23	10/20/08	635.07	636.91	624.70	609.70	12.98	6.13	19.11	12.52	622.55	No	
MW-23	04/18/09	635.07	636.91	624.70	609.70	15.02	4.13	19.15	14.11	620.96	No	
MW-23	10/11/09	635.07	636.91	624.70	609.70	17.82	0.52	18.34	16.10	618.97	No	
MW-23	04/28/10	635.07	636.91	624.70	609.70	17.22	1.04	18.26	15.61	619.46	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-23	10/25/10	635.07	636.91	624.70	609.70	14.84	2.69	17.53	13.61	621.46	No	
MW-23	04/25/11	635.07	636.91	624.70	609.70	15.62	2.62	18.24	14.37	620.70	No	
MW-23	08/03/11	635.07	636.91	624.70	609.70	14.29	3.38	17.67	13.21	621.86	No	
MW-23	10/10/11	635.07	636.91	624.70	609.70	16.41	1.13	17.54	14.83	620.24	No	
MW-23	01/04/12	635.07	636.91	624.70	609.70	17.95	0.51	18.46	16.23	618.84	No	
MW-23	04/05/12	635.07	636.91	624.70	609.70	18.21	2.08	20.29	16.84	618.23	No	Spill Buddy Before Reading
MW-23	04/05/12	635.07	636.91	624.70	609.70	19.55	0.05	19.60	17.72	617.35	No	Spill Buddy After Reading
MW-23	04/16/12	635.07	636.91	624.70	609.70	17.88	1.73	19.61	16.43	618.64	No	
MW-23	06/26/12	635.07	636.91	624.70	609.70	14.11	3.82	17.93	13.13	621.94	No	
MW-23	07/11/12	635.07	636.91	624.70	609.70	13.95	3.90	17.85	12.99	622.08	No	Spill Buddy Before Reading
MW-23	07/11/12	635.07	636.91	624.70	609.70	17.00	0.23	17.23	15.21	619.86	No	Spill Buddy After Reading
MW-23	08/09/12	635.07	636.91	624.70	609.70	16.72	0.98	17.70	15.10	619.97	No	Spill Buddy Before Reading
MW-23	08/09/12	635.07	636.91	624.70	609.70	17.40	0.15	17.55	15.59	619.48	No	Spill Buddy After Reading
MW-23	09/29/12	635.07	636.91	624.70	609.70	17.95	0.50	18.45	16.22	618.85	No	Spill buddy not working
MW-23	09/30/12	635.07	636.91	624.70	609.70	17.88	0.50	18.38	16.15	618.92	No	
MW-23	11/17/12	635.07	636.91	624.70	609.70	18.18	1.35	19.53	16.64	618.43	No	
MW-23	03/25/13	635.07	636.91	624.70	609.70	18.68	3.09	21.77	17.54	617.53	No	
MW-23	05/05/13	635.07	636.91	624.70	609.70	18.23	2.33	20.56	16.92	618.15	No	
MW-23	10/03/13	635.07	636.91	624.70	609.70	18.13	1.48	19.61	16.62	618.45	No	
MW-23	05/22/14	635.07	636.91	624.70	609.70	14.01	2.18	16.19	12.66	622.41	No	
MW-23	10/31/14	635.07	636.91	624.70	609.70	15.17	3.74	18.91	14.17	620.90	No	
MW-23	05/06/15	635.07	636.91	624.70	609.70	17.86	1.04	18.90	16.25	618.82	No	
MW-23	10/05/15	635.07	636.91	624.70	609.70	13.50	5.10	18.60	12.81	622.26	No	
MW-23	05/23/16	635.07	636.91	624.70	609.70	11.52	6.40	17.92	11.13	623.94	No	
MW-23	10/03/16	635.07	636.91	624.70	609.70	13.55	4.30	17.85	12.68	622.39	No	
MW-23	06/14/17	635.07	636.91	624.70	609.70	11.45	6.51	17.96	11.08	623.99	No	
MW-23	06/21/17	635.07	636.91	624.70	609.70	12.22	5.72	17.94	11.67	623.40	No	
MW-23	06/22/17	635.07	636.91	624.70	609.70	12.10	5.80	17.90	11.57	623.50	No	
MW-23	06/23/17	635.07	636.91	624.70	609.70	13.06	2.19	15.25	11.71	623.36	No	
MW-24	06/30/89	636.10	638.42	625.37	610.37	19.80	5.40	25.20	18.70	617.40	No	
MW-24	07/12/89	636.10	638.42	625.37	610.37	20.39	4.97	25.36	19.19	616.91	No	
MW-24	07/26/89	636.10	638.42	625.37	610.37	20.40	4.83	25.23	19.17	616.93	No	
MW-24	07/27/89	636.10	638.42	625.37	610.37	20.58	4.69	25.27	19.32	616.78	No	
MW-24	09/03/89	636.10	638.42	625.37	610.37	20.81	4.42	25.23	19.49	616.61	No	
MW-24	11/16/89	636.10	638.42	625.37	610.37	20.83	4.52	25.35	19.53	616.57	No	
MW-24	11/29/89	636.10	638.42	625.37	610.37	20.73	4.60	25.33	19.45	616.65	No	
MW-24	12/01/89	636.10	638.42	625.37	610.37	21.18	4.11	25.29	19.79	616.31	No	
MW-24	12/02/89	636.10	638.42	625.37	610.37	21.27	4.05	25.32	19.86	616.24	No	
MW-24	05/04/90	636.10	638.42	625.37	610.37	21.81	3.43	25.24	20.26	615.84	No	
MW-24	06/01/90	636.10	638.42	625.37	610.37	21.05	4.20	25.25	19.68	616.42	No	
MW-24	06/19/90	636.10	638.42	625.37	610.37	20.98	4.22	25.20	19.61	616.49	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-24	06/27/90	636.10	638.42	625.37	610.37	21.36	3.78	25.14	19.89	616.21	No	
MW-24	07/05/90	636.10	638.42	625.37	610.37	21.80	3.43	25.23	20.25	615.85	No	
MW-24	07/13/90	636.10	638.42	625.37	610.37	21.55	3.63	25.18	20.05	616.05	No	
MW-24	07/17/90	636.10	638.42	625.37	610.37	21.22	3.93	25.15	19.79	616.31	No	
MW-24	07/25/90	636.10	638.42	625.37	610.37	21.70	3.48	25.18	20.17	615.93	No	
MW-24	08/09/90	636.10	638.42	625.37	610.37	21.46	3.74	25.20	19.98	616.12	No	
MW-24	08/27/90	636.10	638.42	625.37	610.37	21.39	3.78	25.17	19.92	616.18	No	
MW-24	09/06/90	636.10	638.42	625.37	610.37	20.86	4.26	25.12	19.50	616.60	No	
MW-24	01/04/91	636.10	638.42	625.37	610.37	20.47	4.80	25.27	19.23	616.87	No	
MW-24	01/30/91	636.10	638.42	625.37	610.37	20.78	4.47	25.25	19.47	616.63	No	
MW-24	04/24/91	636.10	638.42	625.37	610.37	20.72	4.43	25.15	19.40	616.70	No	
MW-24	07/09/91	636.10	638.42	625.37	610.37	17.27	7.66	24.93	16.68	619.42	No	
MW-24	10/08/91	636.10	638.42	625.37	610.37	15.44	9.60	25.04	15.29	620.81	No	
MW-24	12/03/91	636.10	638.42	625.37	610.37	13.80	11.25	25.05	14.02	622.08	No	
MW-24	01/07/92	636.10	638.42	625.37	610.37	16.58	8.48	25.06	16.18	619.92	No	
MW-24	10/14/92	636.10	638.42	625.37	610.37	16.36	8.78	25.14	16.02	620.08	No	
MW-24	06/25/93	636.10	638.42	625.37	610.37	12.73	12.16	24.89	13.16	622.94	No	
MW-24	10/28/93	636.10	638.42	625.37	610.37	17.58	7.64	25.22	16.99	619.11	No	
MW-24	01/29/94	636.10	638.42	625.37	610.37	18.88	6.36	25.24	18.00	618.10	No	
MW-24	04/27/94	636.10	638.42	625.37	610.37	17.99	7.01	25.00	17.25	618.85	No	
MW-24	07/21/94	636.10	638.42	625.37	610.37	16.35	8.70	25.05	16.00	620.10	No	
MW-24	10/25/94	636.10	638.42	625.37	610.37	16.96	8.13	25.09	16.48	619.62	No	
MW-24	02/01/95	636.10	638.42	625.37	610.37	19.33	5.77	25.10	18.31	617.79	No	
MW-24	04/04/95	636.10	638.42	625.37	610.37	20.32	4.73	25.05	19.07	617.03	No	
MW-24	07/12/95	636.10	638.42	625.37	610.37	18.84	6.11	24.95	17.90	618.20	No	
MW-24	10/08/96	636.10	638.42	625.37	610.37	15.34	9.64	24.98	15.20	620.90	No	
MW-24	03/13/97	636.10	638.42	625.37	610.37	19.60	5.45	25.05	18.51	617.59	No	
MW-24	04/29/97	636.10	638.42	625.37	610.37	13.65	11.17	24.82	13.85	622.25	No	
MW-24	06/10/97	636.10	638.42	625.37	610.37	15.85	8.90	24.75	15.54	620.56	No	FP bailed 5/22/97
MW-24	11/03/98	636.10	638.42	625.37	610.37	19.74	5.30	25.04	18.62	617.48	No	
MW-24	03/02/99	636.10	638.42	625.37	610.37	20.24	4.86	25.10	19.02	617.08	No	
MW-24	10/07/99	636.10	638.42	625.37	610.37	15.32	9.35	24.67	15.11	620.99	No	
MW-24	11/09/99	636.10	638.42	625.37	610.37	14.97	9.66	24.63	14.83	621.27	No	bailed 6 gal. FP
MW-24	12/21/99	636.10	638.42	625.37	610.37	17.30	7.45	24.75	16.66	619.44	No	bailed 10 gal. FP
MW-24	01/27/00	636.10	638.42	625.37	610.37	19.20	5.43	24.63	18.11	617.99	No	bailed 1 gal. FP
MW-24	02/24/00	636.10	638.42	625.37	610.37	19.71	4.91	24.62	18.50	617.60	No	bailed 5 gal. FP
MW-24	03/31/00	636.10	638.42	625.37	610.37	19.36	4.99	24.35	18.17	617.93	No	bailed 4 gal. FP
MW-24	04/20/00	636.10	638.42	625.37	610.37	18.02	9.84	27.86	17.92	618.18	No	bailed 6.75 gal. FP
MW-24	04/26/00	636.10	638.42	625.37	610.37	18.77	5.55	24.32	17.70	618.40	No	bailed 4 gal. FP
MW-24	05/31/00	636.10	638.42	625.37	610.37	18.90	5.42	24.32	17.80	618.30	No	bailed 6 gal. FP
MW-24	06/29/00	636.10	638.42	625.37	610.37	18.55	5.40	23.95	17.45	618.65	No	bailed 2.5 gal. FP
MW-24	07/26/00	636.10	638.42	625.37	610.37	18.98	5.13	24.11	17.82	618.28	No	bailed 3 gal. FP

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-24	08/18/00	636.10	638.42	625.37	610.37	19.21	5.16	24.37	18.06	618.04	No	bailed 4 gal. FP
MW-24	09/27/00	636.10	638.42	625.37	610.37	20.08	4.50	24.58	18.78	617.32	No	bailed 4 gal. FP
MW-24	10/11/00	636.10	638.42	625.37	610.37	20.37	3.07	23.44	18.74	617.36	No	bailed 2.5 gal. FP
MW-24	11/17/00	636.10	638.42	625.37	610.37	19.86	3.55	23.41	18.34	617.76	No	bailed 4 gal. FP
MW-24	12/12/00	636.10	638.42	625.37	610.37	20.00	1.52	21.52	18.02	618.08	No	bailed 2 gal. FP
MW-24	01/18/01	636.10	638.42	625.37	610.37	20.39	1.60	21.99	18.43	617.67	No	bailed 1.75 gal. FP
MW-24	04/24/01	636.10	638.42	625.37	610.37	20.00	3.40	23.40	18.45	617.65	No	product abated using vactruck
MW-24	05/23/01	636.10	638.42	625.37	610.37	18.61	4.79	23.40	17.37	618.73	No	no product bailed
MW-24	06/19/01	636.10	638.42	625.37	610.37	18.55	4.23	22.78	17.19	618.91	No	
MW-24	07/26/01	636.10	638.42	625.37	610.37	19.61	4.22	23.83	18.24	617.86	No	
MW-24	08/31/01	636.10	638.42	625.37	610.37	19.67	4.76	24.43	18.43	617.67	No	
MW-24	09/26/01	636.10	638.42	625.37	610.37	19.93	4.36	24.29	18.59	617.51	No	
MW-24	10/24/01	636.10	638.42	625.37	610.37	19.77	4.55	24.32	18.48	617.62	No	
MW-24	12/20/01	636.10	638.42	625.37	610.37	20.10	4.52	24.62	18.80	617.30	No	
MW-24	01/22/02	636.10	638.42	625.37	610.37	20.43	4.20	24.63	19.06	617.04	No	
MW-24	02/26/02	636.10	638.42	625.37	610.37	21.19	3.50	24.69	19.66	616.44	No	
MW-24	03/20/02	636.10	638.42	625.37	610.37	21.45	3.35	24.80	19.89	616.21	No	
MW-24	04/24/02	636.10	638.42	625.37	610.37	20.12	4.23	24.35	18.76	617.34	No	
MW-24	05/15/02	636.10	638.42	625.37	610.37	19.32	4.72	24.04	18.07	618.03	No	
MW-24	06/27/02	636.10	638.42	625.37	610.37	19.56	4.79	24.35	18.32	617.78	No	
MW-24	07/25/02	636.10	638.42	625.37	610.37	19.49	4.85	24.34	18.27	617.83	No	
MW-24	08/20/02	636.10	638.42	625.37	610.37	19.46	4.83	24.29	18.23	617.87	No	
MW-24	09/30/02	636.10	638.42	625.37	610.37	18.52	5.63	24.15	17.47	618.63	No	
MW-24	11/05/02	636.10	638.42	625.37	610.37	18.08	6.32	24.40	17.19	618.91	No	
MW-24	12/23/02	636.10	638.42	625.37	610.37	19.89	5.06	24.95	18.71	617.39	No	
MW-24	01/28/03	636.10	638.42	625.37	610.37	20.61	4.26	24.87	19.25	616.85	No	
MW-24	02/19/03	636.10	638.42	625.37	610.37	21.03	3.85	24.88	19.58	616.52	No	
MW-24	04/17/03	636.10	638.42	625.37	610.37	21.81	3.03	24.84	20.17	615.93	No	
MW-24	05/15/03	636.10	638.42	625.37	610.37	21.71	3.13	24.84	20.10	616.00	No	
MW-24	06/10/03	636.10	638.42	625.37	610.37	21.04	3.62	24.66	19.54	616.56	No	
MW-24	10/23/03	636.10	638.42	625.37	610.37	21.35	3.42	24.77	19.80	616.30	No	
MW-24	12/03/03	636.10	638.42	625.37	610.37	21.55	3.30	24.85	19.98	616.12	No	
MW-24	04/19/04	636.19	638.55	625.37	610.37	22.27	2.77	25.04	20.54	615.65	No	
MW-24	07/28/04	636.19	638.55	625.37	610.37	20.63	3.91	24.54	19.15	617.04	No	
MW-24	11/15/04	636.19	638.55	625.37	610.37	19.29	4.86	24.15	18.03	618.16	No	
MW-24	04/18/05	636.19	638.55	625.37	610.37	19.72	4.74	24.46	18.43	617.76	No	
MW-24	09/09/05	636.19	638.55	625.37	610.37	20.02	4.46	24.48	18.67	617.52	No	
MW-24	10/11/05	636.19	638.55	625.37	610.37	19.21	4.81	24.02	17.94	618.25	No	
MW-24	05/23/06	636.19	638.55	625.37	610.37	17.86	6.35	24.21	16.93	619.26	No	
MW-24	10/16/06	636.19	638.55	625.37	610.37	19.96	4.73	24.69	18.67	617.52	No	
MW-24	04/23/07	636.19	638.55	625.37	610.37	21.44	3.48	24.92	19.87	616.32	No	
MW-24	09/25/07	636.19	638.55	625.37	610.37	21.38	3.24	24.62	19.75	616.44	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-24	05/01/08	636.19	638.55	625.37	610.37	18.94	5.07	24.01	17.73	618.46	No	
MW-24	10/20/08	636.19	638.55	625.37	610.37	16.85	7.24	24.09	16.13	620.06	No	
MW-24	04/18/09	636.19	638.55	625.37	610.37	18.80	5.09	23.89	17.59	618.60	No	
MW-24	10/11/09	636.19	638.55	625.37	610.37	19.74	4.70	24.44	18.44	617.75	No	
MW-24	04/28/10	636.19	638.55	625.37	610.37	19.89	4.25	24.14	18.49	617.70	No	
MW-24	10/25/10	636.19	638.55	625.37	610.37	16.84	7.20	24.04	16.11	620.08	No	
MW-24	04/25/11	636.19	638.55	625.37	610.37	18.52	2.95	21.47	16.83	619.36	No	
MW-24	08/02/11	636.19	638.55	625.37	610.37	15.96	7.63	23.59	15.32	620.87	No	
MW-24	10/10/11	636.19	638.55	625.37	610.37	18.35	5.59	23.94	17.25	618.94	No	
MW-24	01/04/12	636.19	638.55	625.37	610.37	19.97	4.61	24.58	18.65	617.54	No	
MW-24	04/05/12	636.19	638.55	625.37	610.37	21.20	3.44	24.64	19.62	616.57	No	Spill Buddy Before Reading
MW-24	04/05/12	636.19	638.55	625.37	610.37	21.94	0.76	22.70	19.75	616.44	No	Spill Buddy After Reading
MW-24	04/16/12	636.19	638.55	625.37	610.37	21.23	3.25	24.48	19.60	616.59	No	
MW-24	06/18/12	636.19	638.55	625.37	610.37	18.23	5.33	23.56	17.07	619.12	No	Spill Buddy Before Reading
MW-24	06/18/12	636.19	638.55	625.37	610.37	19.47	0.89	20.36	17.31	618.88	No	Spill Buddy After Reading
MW-24	06/26/12	636.19	638.55	625.37	610.37	17.59	4.80	22.39	16.31	619.88	No	
MW-24	07/11/12	636.19	638.55	625.37	610.37	18.07	5.08	23.15	16.86	619.33	No	Spill Buddy Before Reading
MW-24	07/11/12	636.19	638.55	625.37	610.37	19.45	0.34	19.79	17.17	619.02	No	Spill Buddy After Reading
MW-24	08/09/12	636.19	638.55	625.37	610.37	18.95	4.28	23.23	17.56	618.63	No	Spill Buddy Before Reading
MW-24	08/09/12	636.19	638.55	625.37	610.37	20.07	0.64	20.71	17.85	618.34	No	Spill Buddy After Reading
MW-24	09/29/12	636.19	638.55	625.37	610.37	20.32	3.32	23.64	18.71	617.48	No	Spill Buddy Before Reading
MW-24	09/29/12	636.19	638.55	625.37	610.37	21.15	0.37	21.52	18.87	617.32	No	Spill Buddy After Reading
MW-24	09/30/12	636.19	638.55	625.37	610.37	20.49	2.37	22.86	18.67	617.52	No	
MW-24	11/21/12	636.19	638.55	625.37	610.37	20.60	3.15	23.75	18.95	617.24	No	
MW-24	12/17/12	636.19	638.55	625.37	610.37	20.84	3.21	24.05	19.21	616.98	No	
MW-24	03/25/13	636.19	638.55	625.37	610.37	22.22	2.10	24.32	20.33	615.86	No	
MW-24	05/05/13	636.19	638.55	625.37	610.37	21.44	2.54	23.98	19.65	616.54	No	
MW-24	10/03/13	636.19	638.55	625.37	610.37	20.84	3.17	24.01	19.20	616.99	No	
MW-24	05/22/14	636.19	638.55	625.37	610.37	18.61	4.32	22.93	17.23	618.96	No	
MW-24	10/31/14	636.19	638.55	625.37	610.37	18.51	4.50	23.01	17.17	619.02	No	
MW-24	05/06/15	636.19	638.55	625.37	610.37	20.75	2.88	23.63	19.04	617.15	No	
MW-24	10/05/15	636.19	638.55	625.37	610.37	17.90	5.20	23.10	16.71	619.48	No	
MW-24	05/23/16	636.19	638.55	625.37	610.37	14.63	9.36	23.99	14.38	621.81	No	
MW-24	10/03/16	636.19	638.55	625.37	610.37	16.44	7.02	23.46	15.67	620.52	No	
MW-24	06/29/17	636.19	638.55	625.37	610.37	15.97	7.28	23.25	15.25	620.94	No	
MW-25	06/30/89	634.90	637.59	617.50	602.50	20.35	1.15	21.50	17.92	616.98	No	
MW-25	07/12/89	634.90	637.59	617.50	602.50	20.85	1.63	22.48	18.53	616.37	No	
MW-25	07/26/89	634.90	637.59	617.50	602.50	20.83	1.97	22.80	18.58	616.32	No	
MW-25	07/27/89	634.90	637.59	617.50	602.50	20.85	2.24	23.09	18.67	616.23	No	
MW-25	09/03/89	634.90	637.59	617.50	602.50	20.78	3.52	24.30	18.89	616.01	No	
MW-25	11/16/89	634.90	637.59	617.50	602.50	20.72	4.04	24.76	18.94	615.96	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-25	11/29/89	634.90	637.59	617.50	602.50	20.87	3.56	24.43	18.98	615.92	No	
MW-25	12/01/89	634.90	637.59	617.50	602.50	21.33	2.18	23.51	19.13	615.77	No	
MW-25	12/02/89	634.90	637.59	617.50	602.50	21.54	1.17	22.71	19.11	615.79	No	
MW-25	05/04/90	634.90	637.59	617.50	602.50	21.48	5.67	27.15	20.07	614.83	No	
MW-25	06/01/90	634.90	637.59	617.50	602.50	21.20	3.70	24.90	19.35	615.55	No	
MW-25	06/19/90	634.90	637.59	617.50	602.50	20.94	3.88	24.82	19.13	615.77	No	
MW-25	06/27/90	634.90	637.59	617.50	602.50	21.09	3.61	24.70	19.22	615.68	No	
MW-25	07/05/90	634.90	637.59	617.50	602.50	21.23	3.85	25.08	19.41	615.49	No	
MW-25	07/13/90	634.90	637.59	617.50	602.50	21.30	3.37	24.67	19.37	615.53	No	
MW-25	07/17/90	634.90	637.59	617.50	602.50	21.08	3.43	24.51	19.16	615.74	No	
MW-25	07/25/90	634.90	637.59	617.50	602.50	21.27	3.65	24.92	19.40	615.50	No	
MW-25	08/09/90	634.90	637.59	617.50	602.50	21.13	3.75	24.88	19.29	615.61	No	
MW-25	08/27/90	634.90	637.59	617.50	602.50	20.80	4.96	25.76	19.23	615.67	No	
MW-25	09/06/90	634.90	637.59	617.50	602.50	20.65	4.16	24.81	18.90	616.00	No	
MW-25	01/04/91	634.90	637.59	617.50	602.50	20.68	2.87	23.55	18.64	616.26	No	
MW-25	01/30/91	634.90	637.59	617.50	602.50	20.93	2.76	23.69	18.86	616.04	No	
MW-25	04/24/91	634.90	637.59	617.50	602.50	20.40	4.81	25.21	18.80	616.10	No	
MW-25	07/09/91	634.90	637.59	617.50	602.50	17.42	5.97	23.39	16.08	618.82	Yes	
MW-25	10/08/91	634.90	637.59	617.50	602.50	16.36	4.90	21.26	14.78	620.12	Yes	
MW-25	01/07/92	634.90	637.59	617.50	602.50	17.50	3.63	21.13	15.63	619.27	Yes	
MW-25	10/14/92	634.90	637.59	617.50	602.50	17.27	3.72	20.99	15.42	619.48	Yes	
MW-25	06/25/93	634.90	637.59	617.50	602.50	13.16	7.78	20.94	12.23	622.67	Yes	
MW-25	10/28/93	634.90	637.59	617.50	602.50	18.52	2.50	21.02	16.39	618.51	Yes	
MW-25	01/29/94	634.90	637.59	617.50	602.50	19.58	1.76	21.34	17.29	617.61	Yes	
MW-25	04/27/94	634.90	637.59	617.50	602.50	18.41	2.89	21.30	16.37	618.53	Yes	
MW-25	07/21/94	634.90	637.59	617.50	602.50	17.32	3.63	20.95	15.45	619.45	Yes	
MW-25	10/25/94	634.90	637.59	617.50	602.50	17.82	3.42	21.24	15.90	619.00	Yes	
MW-25	02/01/95	634.90	637.59	617.50	602.50	20.20	1.01	21.21	17.74	617.16	No	
MW-25	04/04/95	634.90	637.59	617.50	602.50	20.50	0.73	21.23	17.97	616.93	No	
MW-25	07/12/95	634.90	637.59	617.50	602.50	18.21	3.39	21.60	16.29	618.61	Yes	
MW-25	03/13/96	634.90	637.59	617.50	602.50	20.48	0.82	21.30	17.98	616.92	No	
MW-25	10/08/96	634.90	637.59	617.50	602.50	16.65	3.37	20.02	14.72	620.18	Yes	
MW-25	04/29/97	634.90	637.59	617.50	602.50	14.40	6.12	20.52	13.09	621.81	Yes	
MW-25	06/10/97	634.90	637.59	617.50	602.50	17.33	1.28	18.61	14.93	619.97	Yes	FP bailed 5/22/97
MW-25	11/03/98	634.90	637.59	617.50	602.50	20.24	0.70	20.94	17.71	617.19	No	
MW-25	03/02/99	634.90	637.59	617.50	602.50	20.89	0.30	21.19	18.27	616.63	No	
MW-25	10/07/99	634.90	637.59	617.50	602.50	16.87	0.66	17.53	14.33	620.57	Yes	
MW-25	11/09/99	634.90	637.59	617.50	602.50	16.70	0.80	17.50	14.19	620.71	Yes	bailed 0.25 gal. FP
MW-25	12/21/99	634.90	637.59	617.50	602.50	18.58	0.33	18.91	15.96	618.94	Yes	bailed 0.25 gal. FP
MW-25	01/27/00	634.90	637.59	617.50	602.50	19.19	1.05	20.24	16.74	618.16	Yes	bailed 0.2 gal. FP
MW-25	02/24/00	634.90	637.59	617.50	602.50	20.49	0.26	20.75	17.86	617.04	No	bailed <0.1 gal. FP
MW-25	03/31/00	634.90	637.59	617.50	602.50	20.00	0.15	20.15	17.34	617.56	Yes	No product bailed

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-25	04/20/00	634.90	637.59	617.50	602.50	18.81	1.28	20.09	16.41	618.49	Yes	bailed 0.25 gal. FP
MW-25	04/26/00	634.90	637.59	617.50	602.50	19.68	0.06	19.74	17.00	617.90	Yes	No product bailed
MW-25	05/31/00	634.90	637.59	617.50	602.50	19.64	0.12	19.76	16.98	617.92	Yes	bailed 0.125 gal. FP
MW-25	06/29/00	634.90	637.59	617.50	602.50	19.33	0.10	19.43	16.66	618.24	Yes	bailed 0.05 gal. FP
MW-25	07/26/00	634.90	637.59	617.50	602.50	18.84	0.86	19.70	16.34	618.56	Yes	bailed <0.1 gal. FP
MW-25	08/18/00	634.90	637.59	617.50	602.50	19.93	0.06	19.99	17.25	617.65	Yes	No product bailed
MW-25	09/27/00	634.90	637.59	617.50	602.50	20.51	0.20	20.71	17.87	617.03	No	bailed <0.1 gal. FP
MW-25	10/11/00	634.90	637.59	617.50	602.50	NP	0.00	19.62	16.93	617.97	Yes	No product bailed
MW-25	11/17/00	634.90	637.59	617.50	602.50	19.01	0.05	19.06	16.33	618.57	Yes	No product bailed
MW-25	12/12/00	634.90	637.59	617.50	602.50	19.20	0.01	19.21	16.51	618.39	Yes	No product bailed
MW-25	01/18/01	634.90	637.59	617.50	602.50	19.68	0.02	19.70	16.99	617.91	Yes	No product bailed
MW-25	04/24/01	634.90	637.59	617.50	602.50	NP	0.00	19.68	16.99	617.91	Yes	No product bailed
MW-25	05/23/01	634.90	637.59	617.50	602.50	NP	0.00	18.48	15.79	619.11	Yes	No product bailed
MW-25	06/19/01	634.90	637.59	617.50	602.50	NP	0.00	18.66	15.97	618.93	Yes	
MW-25	07/26/01	634.90	637.59	617.50	602.50	19.94	0.03	19.97	17.26	617.64	Yes	
MW-25	08/31/01	634.90	637.59	617.50	602.50	20.15	0.04	20.19	17.47	617.43	No	
MW-25	09/26/01	634.90	637.59	617.50	602.50	NP	0.00	20.52	17.83	617.07	No	
MW-25	10/24/01	634.90	637.59	617.50	602.50	20.40	0.00	20.40	17.71	617.19	No	
MW-25	12/20/01	634.90	637.59	617.50	602.50	20.48	0.07	20.55	17.81	617.09	No	
MW-25	01/22/02	634.90	637.59	617.50	602.50	NP	0.00	21.03	18.34	616.56	No	
MW-25	02/26/02	634.90	637.59	617.50	602.50	21.39	0.01	21.40	18.70	616.20	No	
MW-25	03/20/02	634.90	637.59	617.50	602.50	NP	0.00	21.44	18.75	616.15	No	
MW-25	04/24/02	635.90	637.59	617.50	602.50	20.43	0.01	20.44	18.74	617.16	No	
MW-25	05/15/02	635.90	637.59	617.50	602.50	NP	0.00	19.36	17.67	618.23	Yes	
MW-25	06/27/02	635.90	637.59	617.50	602.50	NP	0.00	19.56	17.87	618.03	Yes	
MW-25	07/25/02	635.90	637.59	617.50	602.50	NP	0.00	19.98	18.29	617.61	Yes	
MW-25	08/20/02	635.90	637.59	617.50	602.50	NP	0.00	19.57	17.88	618.02	Yes	
MW-25	09/30/02	635.90	637.59	617.50	602.50	NP	0.00	19.18	17.49	618.41	Yes	
MW-25	11/05/02	635.90	637.59	617.50	602.50	NP	0.00	18.87	17.18	618.72	Yes	
MW-25	12/23/02	635.90	637.59	617.50	602.50	20.40	0.03	20.43	18.72	617.18	No	
MW-25	01/28/03	635.90	637.59	617.50	602.50	21.07	0.01	21.08	19.38	616.52	No	
MW-25	02/19/03	635.90	637.59	617.50	602.50	NP	0.00	21.41	19.72	616.18	No	
MW-25	04/17/03	635.90	637.59	617.50	602.50	21.91	0.32	22.23	20.29	615.61	No	
MW-25	05/15/03	635.90	637.59	617.50	602.50	21.60	0.10	21.70	19.93	615.97	No	
MW-25	06/10/03	635.90	637.59	617.50	602.50	21.20	0.14	21.34	19.54	616.36	No	
MW-25	10/23/03	635.90	637.59	617.50	602.50	21.49	0.69	22.18	19.96	615.94	No	
MW-25	12/03/03	635.90	637.59	617.50	602.50	21.51	2.01	23.52	20.27	615.63	No	
MW-25	04/19/04	635.42	637.70	617.50	602.50	21.29	4.58	25.87	20.04	615.38	No	
MW-25	07/28/04	635.42	637.70	617.50	602.50	20.44	2.63	23.07	18.75	616.67	No	
MW-25	11/15/04	635.42	637.70	617.50	602.50	19.10	2.86	21.96	17.47	617.95	Yes	
MW-25	04/18/05	635.42	637.70	617.50	602.50	19.82	2.16	21.98	18.03	617.39	No	
MW-25	09/09/05	635.42	637.70	617.50	602.50	20.12	2.06	22.18	18.31	617.11	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

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MW-25	10/11/05	635.42	637.70	617.50	602.50	18.89	2.72	21.61	17.22	618.20	Yes	
MW-25	05/23/06	635.42	637.70	617.50	602.50	17.99	3.57	21.56	16.52	618.90	Yes	
MW-25	10/16/06	635.42	637.70	617.50	602.50	20.16	2.12	22.28	18.36	617.06	No	
MW-25	04/23/07	635.42	637.70	617.50	602.50	21.05	0.98	22.03	18.99	616.43	No	
MW-25	09/25/07	635.42	637.70	617.50	602.50	20.98	0.74	21.72	18.87	616.55	No	
MW-25	05/01/08	635.42	637.70	617.50	602.50	19.04	2.49	21.53	17.32	618.10	Yes	
MW-25	10/20/08	635.42	637.70	617.50	602.50	16.98	4.55	21.53	15.73	619.69	Yes	
MW-25	04/18/09	635.42	637.70	617.50	602.50	18.92	2.71	21.63	17.25	618.17	Yes	
MW-25	10/11/09	635.42	637.70	617.50	602.50	19.75	1.99	21.74	17.92	617.50	Yes	
MW-25	04/28/10	635.42	637.70	617.50	602.50	20.03	1.75	21.78	18.15	617.27	No	
MW-25	10/25/10	635.42	637.70	617.50	602.50	16.42	5.10	21.52	15.29	620.13	Yes	
MW-25	04/25/11	635.42	637.70	617.50	602.50	18.41	5.54	23.95	17.38	618.04	Yes	
MW-25	08/02/11	635.42	637.70	617.50	602.50	16.07	5.16	21.23	14.96	620.46	Yes	
MW-25	10/10/11	635.42	637.70	617.50	602.50	18.82	2.12	20.94	17.02	618.40	Yes	
MW-25	01/04/12	635.42	637.70	617.50	602.50	20.53	0.71	21.24	18.41	617.01	No	
MW-25	04/05/12	635.42	637.70	617.50	602.50	21.43	0.30	21.73	19.22	616.20	No	
MW-25	04/16/12	635.42	637.70	617.50	602.50	21.41	0.12	21.53	19.16	616.26	No	
MW-25	06/18/12	635.42	637.70	617.50	602.50	18.75	2.10	20.85	16.94	618.48	Yes	Spill Buddy Before Reading
MW-25	06/18/12	635.42	637.70	617.50	602.50	19.15	0.68	19.83	17.02	618.40	Yes	Spill Buddy After Reading
MW-25	06/26/12	635.42	637.70	617.50	602.50	17.82	1.83	19.65	15.95	619.47	Yes	
MW-25	07/11/12	635.42	637.70	617.50	602.50	18.42	1.68	20.10	16.52	618.90	Yes	Spill Buddy Before Reading
MW-25	07/11/12	635.42	637.70	617.50	602.50	18.88	0.40	19.28	16.69	618.73	Yes	Spill Buddy After Reading
MW-25	08/09/12	635.42	637.70	617.50	602.50	19.26	1.00	20.26	17.21	618.21	Yes	Spill Buddy Before Reading
MW-25	08/09/12	635.42	637.70	617.50	602.50	19.64	0.06	19.70	17.37	618.05	Yes	Spill Buddy After Reading
MW-25	09/29/12	635.42	637.70	617.50	602.50	20.48	0.47	20.95	18.31	617.11	No	Spill Buddy Before Reading
MW-25	09/29/12	635.42	637.70	617.50	602.50	NP	0.00	20.64	18.36	617.06	No	Spill Buddy After Reading
MW-25	09/30/12	635.42	637.70	617.50	602.50	20.48	0.37	20.85	18.28	617.14	No	
MW-25	11/21/12	635.42	637.70	617.50	602.50	20.96	0.06	21.02	18.69	616.73	No	
MW-25	12/17/12	635.42	637.70	617.50	602.50	21.18	0.12	21.30	18.93	616.49	No	
MW-25	03/25/13	635.42	637.70	617.50	602.50	21.76	2.32	24.08	20.00	615.42	No	
MW-25	05/05/13	635.42	637.70	617.50	602.50	20.75	2.24	22.99	18.98	616.44	No	
MW-25	10/03/13	635.42	637.70	617.50	602.50	20.59	2.37	22.96	18.85	616.57	No	
MW-25	05/22/14	635.42	637.70	617.50	602.50	18.23	3.56	21.79	16.75	618.67	Yes	
MW-25	06/19/14	635.42	637.70	617.50	602.50	18.18	4.42	22.60	16.90	618.52	Yes	
MW-25	10/31/14	635.42	637.70	617.50	602.50	18.53	2.15	20.68	16.74	618.68	Yes	
MW-25	05/06/15	635.42	637.70	617.50	602.50	20.91	0.31	21.22	18.70	616.72	No	
MW-25	10/05/15	635.42	637.70	617.50	602.50	18.10	2.72	20.82	16.43	618.99	Yes	
MW-25	05/23/16	635.42	637.70	617.50	602.50	15.89	2.45	18.34	14.16	621.26	Yes	
MW-25	10/03/16	635.42	637.70	617.50	602.50	17.38	1.96	19.34	15.54	619.88	Yes	
MW-25	06/29/17	635.42	637.70	617.50	602.50	16.92	1.93	18.85	15.08	620.34	Yes	
MW-26	06/30/89	632.70	635.98	619.20	604.20	19.55	2.50	22.05	16.83	615.87	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	07/12/89	632.70	635.98	619.20	604.20	19.90	2.40	22.30	17.16	615.54	No	
MW-26	07/26/89	632.70	635.98	619.20	604.20	19.96	2.40	22.36	17.22	615.48	No	
MW-26	07/27/89	632.70	635.98	619.20	604.20	20.07	2.44	22.51	17.34	615.36	No	
MW-26	09/03/89	632.70	635.98	619.20	604.20	20.32	2.64	22.96	17.64	615.06	No	
MW-26	11/16/89	632.70	635.98	619.20	604.20	20.42	2.78	23.20	17.77	614.93	No	
MW-26	11/29/89	632.70	635.98	619.20	604.20	20.30	2.81	23.11	17.65	615.05	No	
MW-26	12/01/89	632.70	635.98	619.20	604.20	20.47	2.63	23.10	17.78	614.92	No	
MW-26	12/02/89	632.70	635.98	619.20	604.20	20.48	2.63	23.11	17.79	614.91	No	
MW-26	05/04/90	632.70	635.98	619.20	604.20	21.16	3.23	24.39	18.61	614.09	No	
MW-26	06/01/90	632.70	635.98	619.20	604.20	23.50	6.40	29.90	21.67	611.03	No	
MW-26	06/19/90	632.70	635.98	619.20	604.20	20.82	2.46	23.28	18.10	614.60	No	
MW-26	06/27/90	632.70	635.98	619.20	604.20	20.81	2.42	23.23	18.08	614.62	No	
MW-26	07/05/90	632.70	635.98	619.20	604.20	20.80	2.45	23.25	18.07	614.63	No	
MW-26	07/13/90	632.70	635.98	619.20	604.20	20.80	2.48	23.28	18.08	614.62	No	
MW-26	07/17/90	632.70	635.98	619.20	604.20	20.78	2.45	23.23	18.05	614.65	No	
MW-26	07/25/90	632.70	635.98	619.20	604.20	20.80	2.58	23.38	18.10	614.60	No	
MW-26	08/09/90	632.70	635.98	619.20	604.20	20.77	2.63	23.40	18.08	614.62	No	
MW-26	08/27/90	632.70	635.98	619.20	604.20	20.83	2.57	23.40	18.13	614.57	No	
MW-26	09/06/90	632.70	635.98	619.20	604.20	20.67	2.51	23.18	17.96	614.74	No	
MW-26	01/04/91	632.70	635.98	619.20	604.20	19.95	2.47	22.42	17.23	615.47	No	
MW-26	01/30/91	632.70	635.98	619.20	604.20	20.18	2.60	22.78	17.49	615.21	No	
MW-26	04/24/91	632.70	635.98	619.20	604.20	20.41	2.42	22.83	17.68	615.02	No	
MW-26	07/09/91	632.70	635.98	619.20	604.20	17.93	2.59	20.52	15.23	617.47	No	
MW-26	10/08/91	632.70	635.98	619.20	604.20	15.75	5.50	21.25	13.71	618.99	No	
MW-26	01/07/92	632.70	635.98	619.20	604.20	16.55	4.59	21.14	14.31	618.39	No	
MW-26	10/14/92	632.70	635.98	619.20	604.20	16.85	4.25	21.10	14.53	618.17	No	
MW-26	06/25/93	632.70	635.98	619.20	604.20	12.58	7.92	20.50	11.09	621.61	Yes	
MW-26	10/28/93	632.70	635.98	619.20	604.20	17.77	3.10	20.87	15.19	617.51	No	
MW-26	01/29/94	632.70	635.98	619.20	604.20	18.72	2.01	20.73	15.89	616.81	No	
MW-26	04/27/94	632.70	635.98	619.20	604.20	17.97	2.65	20.62	15.29	617.41	No	
MW-26	07/21/94	632.70	635.98	619.20	604.20	16.73	3.72	20.45	14.29	618.41	No	
MW-26	10/25/94	632.70	635.98	619.20	604.20	17.44	3.18	20.62	14.88	617.82	No	
MW-26	02/01/95	632.70	635.98	619.20	604.20	19.14	1.93	21.07	16.30	616.40	No	
MW-26	04/04/95	632.70	635.98	619.20	604.20	19.50	2.33	21.83	16.75	615.95	No	
MW-26	07/12/95	632.70	635.98	619.20	604.20	18.70	1.72	20.42	15.81	616.89	No	
MW-26	11/13/95	632.70	635.98	619.20	604.20	16.45	3.85	20.30	14.04	618.66	No	
MW-26	10/08/96	632.70	635.98	619.20	604.20	15.30	4.93	20.23	13.13	619.57	Yes	
MW-26	04/29/97	632.70	635.98	619.20	604.20	13.95	6.20	20.15	12.07	620.63	Yes	
MW-26	06/10/97	632.70	635.98	619.20	604.20	16.20	3.83	20.03	13.79	618.91	No	FP bailed 5/22/97
MW-26	11/03/98	632.70	635.98	619.20	604.20	19.49	2.26	21.75	16.72	615.98	No	
MW-26	03/04/99	632.70	635.98	619.20	604.20	19.56	2.34	21.90	16.81	615.89	No	
MW-26	10/07/99	632.70	635.98	619.20	604.20	15.10	4.95	20.05	12.94	619.76	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	11/09/99	632.70	635.98	619.20	604.20	14.80	5.38	20.18	12.74	619.96	Yes	bailed 4 gal. FP
MW-26	12/21/99	632.70	635.98	619.20	604.20	17.55	1.67	19.22	14.65	618.05	No	bailed 0.25 gal. FP
MW-26	01/27/00	632.70	635.98	619.20	604.20	18.75	1.18	19.93	15.74	616.96	No	bailed 0.2 gal. FP
MW-26	02/24/00	632.70	635.98	619.20	604.20	19.18	1.50	20.68	16.24	616.46	No	bailed 2 gal. FP
MW-26	03/31/00	632.70	635.98	619.20	604.20	18.71	1.92	20.63	15.86	616.84	No	bailed 0.25 gal. FP
MW-26	04/20/00	632.70	635.98	619.20	604.20	18.51	1.81	20.32	15.64	617.06	No	bailed 2 gal. FP
MW-26	04/26/00	632.70	635.98	619.20	604.20	18.52	1.56	20.08	15.59	617.11	No	bailed 1.5 gal. FP
MW-26	05/31/00	632.70	635.98	619.20	604.20	18.16	1.60	19.76	15.24	617.46	No	bailed 2 gal. FP
MW-26	06/29/00	632.70	635.98	619.20	604.20	18.25	1.95	20.20	15.41	617.29	No	bailed 0.5 gal. FP
MW-26	07/26/00	632.70	635.98	619.20	604.20	18.80	0.16	18.96	15.56	617.14	No	bailed 2 gal. FP
MW-26	08/18/00	632.70	635.98	619.20	604.20	18.94	1.19	20.13	15.93	616.77	No	bailed 0.25 gal. FP
MW-26	09/27/00	632.70	635.98	619.20	604.20	19.42	1.84	21.26	16.56	616.14	No	bailed 0.5 gal. FP
MW-26	10/11/00	632.70	635.98	619.20	604.20	19.27	2.33	21.60	16.52	616.18	No	bailed 1.5 gal. FP
MW-26	11/17/00	632.70	635.98	619.20	604.20	19.31	1.84	21.15	16.45	616.25	No	bailed 2.5 gal. FP
MW-26	12/12/00	632.70	635.98	619.20	604.20	19.11	0.52	19.63	15.95	616.75	No	bailed 0.25 gal. FP
MW-26	01/18/01	632.70	635.98	619.20	604.20	19.52	0.47	19.99	16.35	616.35	No	bailed 0.2 gal. FP
MW-26	04/24/01	632.70	635.98	619.20	604.20	19.37	1.06	20.43	16.33	616.37	No	product abated using vactruck no product bailed
MW-26	05/23/01	632.70	635.98	619.20	604.20	17.94	1.88	19.82	15.08	617.62	No	
MW-26	06/19/01	632.70	635.98	619.20	604.20	17.78	2.07	19.85	14.97	617.73	No	
MW-26	07/26/01	632.70	635.98	619.20	604.20	18.96	0.88	19.84	15.88	616.82	No	
MW-26	08/31/01	632.70	635.98	619.20	604.20	19.29	1.02	20.31	16.24	616.46	No	
MW-26	09/26/01	632.70	635.98	619.20	604.20	19.28	1.81	21.09	16.41	616.29	No	
MW-26	10/24/01	632.70	635.98	619.20	604.20	19.32	2.00	21.32	16.49	616.21	No	
MW-26	12/20/01	632.70	635.98	619.20	604.20	19.58	1.94	21.52	16.74	615.96	No	
MW-26	01/22/02	632.70	635.98	619.20	604.20	19.66	2.68	22.34	16.99	615.71	No	
MW-26	02/26/02	632.70	635.98	619.20	604.20	20.00	2.94	22.94	17.38	615.32	No	
MW-26	03/20/02	632.70	635.98	619.20	604.20	20.22	2.44	22.66	17.49	615.21	No	
MW-26	04/24/02	632.70	635.98	619.20	604.20	19.65	1.05	20.70	16.61	616.09	No	
MW-26	05/15/02	632.70	635.98	619.20	604.20	19.27	0.89	20.16	16.19	616.51	No	
MW-26	06/27/02	632.70	635.98	619.20	604.20	19.30	0.99	20.29	16.24	616.46	No	
MW-26	07/25/02	632.70	635.98	619.20	604.20	19.27	0.77	20.04	16.16	616.54	No	
MW-26	08/20/02	632.70	635.98	619.20	604.20	19.05	1.12	20.17	16.02	616.68	No	
MW-26	09/30/02	632.70	635.98	619.20	604.20	18.42	1.37	19.79	15.45	617.25	No	
MW-26	11/05/02	632.70	635.98	619.20	604.20	18.10	1.61	19.71	15.18	617.52	No	
MW-26	12/23/02	632.70	635.98	619.20	604.20	19.32	1.17	20.49	16.30	616.40	No	
MW-26	01/28/03	632.70	635.98	619.20	604.20	19.68	2.59	22.27	16.98	615.72	No	
MW-26	02/19/03	632.70	635.98	619.20	604.20	19.80	3.41	23.21	17.29	615.41	No	
MW-26	04/17/03	632.70	635.98	619.20	604.20	20.41	2.72	23.13	17.74	614.96	No	
MW-26	05/15/03	632.70	635.98	619.20	604.20	20.51	1.16	21.67	17.49	615.21	No	
MW-26	06/10/03	632.70	635.98	619.20	604.20	20.10	1.10	21.20	17.07	615.63	No	
MW-26	10/23/03	632.70	635.98	619.20	604.20	20.39	2.81	23.20	17.74	614.96	No	
MW-26	12/03/03	632.70	635.98	619.20	604.20	20.59	2.79	23.38	17.94	614.76	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	04/19/04	633.45	636.11	619.20	604.20	20.89	2.43	23.32	18.78	614.67	No	
MW-26	07/28/04	633.45	636.11	619.20	604.20	20.09	1.67	21.76	17.81	615.64	No	
MW-26	11/15/04	633.45	636.11	619.20	604.20	19.25	0.65	19.90	16.74	616.71	No	
MW-26	04/18/05	633.45	636.11	619.20	604.20	19.73	0.57	20.30	17.20	616.25	No	
MW-26	09/09/05	633.45	636.11	619.20	604.20	19.31	1.88	21.19	17.07	616.38	No	
MW-26	10/11/05	633.45	636.11	619.20	604.20	18.82	1.42	20.24	16.48	616.97	No	
MW-26	05/23/06	633.45	636.11	619.20	604.20	17.75	2.11	19.86	15.57	617.88	No	
MW-26	10/16/06	633.45	636.11	619.20	604.20	19.49	2.48	21.97	17.39	616.06	No	
MW-26	04/23/07	633.45	636.11	619.20	604.20	20.39	0.31	20.70	17.80	615.65	No	
MW-26	09/25/07	633.45	636.11	619.20	604.20	20.37	0.38	20.75	17.80	615.65	No	
MW-26	05/01/08	633.45	636.11	619.20	604.20	19.05	0.59	19.64	16.52	616.93	No	
MW-26	10/20/08	633.45	636.11	619.20	604.20	16.92	3.06	19.98	14.95	618.50	No	
MW-26	04/18/09	633.45	636.11	619.20	604.20	18.22	2.08	20.30	16.03	617.42	No	
MW-26	10/11/09	633.45	636.11	619.20	604.20	19.43	1.50	20.93	17.11	616.34	No	
MW-26	04/28/10	633.45	636.11	619.20	604.20	19.29	1.10	20.39	16.88	616.57	No	
MW-26	10/25/10	633.45	636.11	619.20	604.20	16.86	2.90	19.76	14.86	618.59	No	
MW-26	04/25/11	633.45	636.11	619.20	604.20	18.07	1.99	20.06	15.86	617.59	No	
MW-26	08/03/11	633.45	636.11	619.20	604.20	16.12	3.43	19.55	14.23	619.22	Yes	
MW-26	10/10/11	633.45	636.11	619.20	604.20	18.03	1.66	19.69	15.74	617.71	No	
MW-26	01/04/12	633.45	636.11	619.20	604.20	19.38	2.00	21.38	17.17	616.28	No	
MW-26	04/05/12	633.45	636.11	619.20	604.20	20.14	1.81	21.95	17.89	615.56	No	Spill Buddy Before Reading
MW-26	04/05/12	633.45	636.11	619.20	604.20	21.21	0.49	21.70	18.66	614.79	No	Spill Buddy After Reading
MW-26	04/16/12	633.45	636.11	619.20	604.20	20.28	0.17	20.45	17.66	615.79	No	
MW-26	06/26/12	633.45	636.11	619.20	604.20	17.20	1.69	18.89	14.92	618.53	No	
MW-26	07/11/12	633.45	636.11	619.20	604.20	17.80	1.42	19.22	15.46	617.99	No	
MW-26	07/11/12	633.45	636.11	619.20	604.20	18.14	0.34	18.48	15.56	617.89	No	
MW-26	09/29/12	633.45	636.11	619.20	604.20	19.46	0.89	20.35	17.00	616.45	No	Spill Buddy Before Reading
MW-26	09/29/12	633.45	636.11	619.20	604.20	19.76	0.17	19.93	17.14	616.31	No	Spill Buddy After Reading
MW-26	09/30/12	633.45	636.11	619.20	604.20	19.40	0.90	20.30	16.94	616.51	No	
MW-26	11/21/12	633.45	636.11	619.20	604.20	19.70	2.19	21.89	17.53	615.92	No	
MW-26	12/17/12	633.45	636.11	619.20	604.20	19.85	2.60	22.45	17.78	615.67	No	
MW-26	03/25/13	633.45	636.11	619.20	604.20	20.68	2.73	23.41	18.64	614.81	No	
MW-26	05/05/13	633.45	636.11	619.20	604.20	NP	0.00	20.45	17.79	615.66	No	
MW-26	10/03/13	633.45	636.11	619.20	604.20	19.84	1.86	21.70	17.60	615.85	No	
MW-26	05/22/14	633.45	636.11	619.20	604.20	18.34	0.56	18.90	15.81	617.64	No	
MW-26	06/19/14	633.45	636.11	619.20	604.20	17.27	0.71	17.98	14.77	618.68	No	
MW-26	10/31/14	633.45	636.11	619.20	604.20	17.92	2.11	20.03	15.74	617.71	No	
MW-26	05/06/15	633.45	636.11	619.20	604.20	19.56	0.65	20.21	17.05	616.40	No	
MW-26	10/05/15	633.45	636.11	619.20	604.20	17.62	1.68	19.30	15.34	618.11	No	
MW-26	05/23/16	633.45	636.11	619.20	604.20	14.34	5.28	19.62	12.87	620.58	Yes	
MW-26	10/03/16	633.45	636.11	619.20	604.20	16.51	3.03	19.54	14.53	618.92	No	
MW-26	06/21/17	633.45	636.11	619.20	604.20	15.25	4.30	19.55	13.56	619.89	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-26	06/22/17	633.45	636.11	619.20	604.20	16.09	3.44	19.53	14.21	619.24	Yes	
MW-26	06/23/17	633.45	636.11	619.20	604.20	15.23	4.30	19.53	13.54	619.91	Yes	
MW-27	06/30/89	635.10	637.02	620.89	605.89	21.60	4.40	26.00	20.67	614.43	No	
MW-27	07/12/89	635.10	637.02	620.89	605.89	21.70	4.50	26.20	20.80	614.30	No	
MW-27	07/26/89	635.10	637.02	620.89	605.89	21.80	4.14	25.94	20.82	614.28	No	
MW-27	07/27/89	635.10	637.02	620.89	605.89	21.94	7.62	29.56	21.74	613.36	No	
MW-27	09/03/89	635.10	637.02	620.89	605.89	22.10	8.49	30.59	22.10	613.00	No	
MW-27	11/16/89	635.10	637.02	620.89	605.89	21.95	8.27	30.22	21.90	613.20	No	
MW-27	11/29/89	635.10	637.02	620.89	605.89	22.03	7.92	29.95	21.90	613.20	No	
MW-27	12/01/89	635.10	637.02	620.89	605.89	22.15	8.12	30.27	22.06	613.04	No	
MW-27	12/02/89	635.10	637.02	620.89	605.89	22.19	8.16	30.35	22.11	612.99	No	
MW-27	05/04/90	635.10	637.02	620.89	605.89	22.84	8.86	31.70	22.92	612.18	No	
MW-27	06/01/90	635.10	637.02	620.89	605.89	22.65	7.55	30.20	22.44	612.66	No	
MW-27	06/19/90	635.10	637.02	620.89	605.89	22.60	6.67	29.27	22.19	612.91	No	
MW-27	06/27/90	635.10	637.02	620.89	605.89	21.55	6.51	28.06	21.10	614.00	No	
MW-27	07/05/90	635.10	637.02	620.89	605.89	21.58	7.36	28.94	21.32	613.78	No	
MW-27	07/13/90	635.10	637.02	620.89	605.89	21.50	7.00	28.50	21.16	613.94	No	
MW-27	07/17/90	635.10	637.02	620.89	605.89	21.49	6.94	28.43	21.14	613.96	No	
MW-27	07/25/90	635.10	637.02	620.89	605.89	21.50	7.26	28.76	21.22	613.88	No	
MW-27	08/09/90	635.10	637.02	620.89	605.89	21.47	7.30	28.77	21.20	613.90	No	
MW-27	08/27/90	635.10	637.02	620.89	605.89	21.49	6.55	28.04	21.05	614.05	No	
MW-27	09/06/90	635.10	637.02	620.89	605.89	21.40	3.70	25.10	20.32	614.78	No	
MW-27	01/04/91	635.10	637.02	620.89	605.89	20.70	4.12	24.82	19.71	615.39	No	
MW-27	01/30/91	635.10	637.02	620.89	605.89	20.81	7.01	27.82	20.47	614.63	No	
MW-27	04/24/91	635.10	637.02	620.89	605.89	21.17	4.73	25.90	20.32	614.78	No	
MW-27	06/06/91	635.10	637.02	620.89	605.89	20.25	2.90	23.15	18.99	616.11	No	
MW-27	07/09/91	635.10	637.02	620.89	605.89	19.35	2.63	21.98	18.02	617.08	No	
MW-27	08/06/91	635.10	637.02	620.89	605.89	18.44	2.60	21.04	17.11	617.99	No	
MW-27	09/04/91	635.10	637.02	620.89	605.89	18.47	2.47	20.94	17.11	617.99	No	
MW-27	10/08/91	635.10	637.02	620.89	605.89	17.50	3.00	20.50	16.26	618.84	No	
MW-27	11/08/91	635.10	637.02	620.89	605.89	18.17	2.50	20.67	16.81	618.29	No	
MW-27	12/03/91	635.10	637.02	620.89	605.89	16.15	4.15	20.30	15.17	619.93	No	
MW-27	01/07/92	635.10	637.02	620.89	605.89	17.95	2.40	20.35	16.57	618.53	No	
MW-27	02/04/92	635.10	637.02	620.89	605.89	18.65	2.27	20.92	17.24	617.86	No	
MW-27	03/03/92	635.10	637.02	620.89	605.89	19.02	2.48	21.50	17.66	617.44	No	
MW-27	09/24/92	635.10	637.02	620.89	605.89	16.80	3.55	20.35	15.68	619.42	No	
MW-27	10/14/92	635.10	637.02	620.89	605.89	18.21	2.41	20.62	16.83	618.27	No	
MW-27	06/25/93	635.10	637.02	620.89	605.89	14.71	4.95	19.66	13.91	621.19	Yes	
MW-27	10/28/93	635.10	637.02	620.89	605.89	18.74	2.14	20.88	17.30	617.80	No	
MW-27	01/29/94	635.10	637.02	620.89	605.89	19.30	2.61	21.91	17.97	617.13	No	
MW-27	04/27/94	635.10	637.02	620.89	605.89	19.21	2.23	21.44	17.79	617.31	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	07/21/94	635.10	637.02	620.89	605.89	17.95	2.09	20.04	16.50	618.60	No	
MW-27	10/25/94	635.10	637.02	620.89	605.89	18.61	1.81	20.42	17.10	618.00	No	
MW-27	11/02/94	635.10	637.02	620.89	605.89	18.20	2.50	20.70	16.84	618.26	No	
MW-27	02/01/95	635.10	637.02	620.89	605.89	20.24	4.16	24.40	19.26	615.84	No	
MW-27	04/04/95	635.10	637.02	620.89	605.89	20.17	2.90	23.07	18.91	616.19	No	
MW-27	07/12/95	635.10	637.02	620.89	605.89	19.43	1.23	20.66	17.79	617.31	No	
MW-27	11/14/95	635.10	637.02	620.89	605.89	18.10	1.22	19.32	16.46	618.64	No	
MW-27	03/13/96	635.10	637.02	620.89	605.89	19.75	2.90	22.65	18.49	616.61	No	
MW-27	10/08/96	635.10	637.02	620.89	605.89	16.92	2.36	19.28	15.53	619.57	No	
MW-27	04/29/97	635.10	637.02	620.89	605.89	15.80	3.20	19.00	14.60	620.50	No	
MW-27	06/10/97	635.10	637.02	620.89	605.89	17.55	1.60	19.15	15.99	619.11	No	FP bailed 5/22/97
MW-27	11/03/98	635.10	637.02	620.89	605.89	20.18	3.33	23.51	19.01	616.09	No	
MW-27	03/02/99	635.10	637.02	620.89	605.89	20.88	1.62	22.50	19.33	615.77	No	
MW-27	10/07/99	635.10	637.02	620.89	605.89	16.78	3.14	19.92	15.57	619.53	No	
MW-27	11/09/99	635.10	637.02	620.89	605.89	16.55	2.50	19.05	15.19	619.91	No	bailed 1.5 gal. FP
MW-27	12/21/99	635.10	637.02	620.89	605.89	18.70	0.58	19.28	16.91	618.19	No	bailed 0.25 gal. FP
MW-27	01/27/00	635.10	637.02	620.89	605.89	19.88	2.12	22.00	18.44	616.66	No	bailed 0.3 gal. FP
MW-27	02/24/00	635.10	637.02	620.89	605.89	19.94	1.93	21.87	18.46	616.64	No	bailed 1 gal. FP
MW-27	03/31/00	635.10	637.02	620.89	605.89	19.63	3.27	22.90	18.45	616.65	No	bailed 2.5 gal. FP
MW-27	04/20/00	635.10	637.02	620.89	605.89	19.65	1.12	20.77	17.98	617.12	No	bailed 0.25 gal. FP
MW-27	04/26/00	635.10	637.02	620.89	605.89	19.57	0.96	20.53	17.87	617.23	No	bailed 1 gal. FP
MW-27	05/31/00	635.10	637.02	620.89	605.89	19.63	0.45	20.08	17.81	617.29	No	bailed 0.125 gal. FP
MW-27	06/29/00	635.10	637.02	620.89	605.89	19.54	0.65	20.19	17.77	617.33	No	bailed 0.25 gal. FP
MW-27	07/26/00	635.10	637.02	620.89	605.89	19.61	0.07	19.68	17.71	617.39	No	
MW-27	08/18/00	635.10	637.02	620.89	605.89	19.55	4.65	24.20	18.68	616.42	No	bailed 1.5 gal. FP
MW-27	09/27/00	635.10	637.02	620.89	605.89	20.10	2.37	22.47	18.72	616.38	No	bailed 1 gal. FP
MW-27	10/11/00	635.10	637.02	620.89	605.89	19.93	2.76	22.69	18.63	616.47	No	bailed 3 gal. FP
MW-27	11/17/00	635.10	637.02	620.89	605.89	20.07	2.92	22.99	18.81	616.29	No	bailed 3 gal. FP
MW-27	12/12/00	635.10	637.02	620.89	605.89	19.92	1.14	21.06	18.26	616.84	No	bailed 2 gal. FP
MW-27	01/18/01	635.10	637.02	620.89	605.89	20.51	1.26	21.77	18.87	616.23	No	bailed 2 gal. FP
MW-27	04/24/01	635.10	637.02	620.89	605.89	19.98	2.19	22.17	18.55	616.55	No	product abated using vactruck
MW-27	05/23/01	635.10	637.02	620.89	605.89	19.47	0.02	19.49	17.55	617.55	No	no product bailed
MW-27	06/19/01	635.10	637.02	620.89	605.89	19.91	0.10	20.01	18.01	617.09	No	TPC = TOC + 0.61 feet
MW-27	07/26/01	635.10	637.02	620.89	605.89	19.82	0.51	20.33	18.02	617.08	No	
MW-27	08/31/01	635.10	637.02	620.89	605.89	20.02	1.41	21.43	18.42	616.68	No	
MW-27	09/26/01	635.10	637.02	620.89	605.89	20.10	1.88	21.98	18.60	616.50	No	
MW-27	10/24/01	635.10	637.02	620.89	605.89	20.08	2.60	22.68	18.75	616.35	No	
MW-27	12/20/01	635.10	637.02	620.89	605.89	21.13	2.68	23.81	19.82	615.28	No	
MW-27	01/22/02	635.10	637.02	620.89	605.89	20.78	2.99	23.77	19.54	615.56	No	
MW-27	02/26/02	635.10	637.02	620.89	605.89	20.92	3.35	24.27	19.76	615.34	No	
MW-27	03/20/02	635.10	637.02	620.89	605.89	21.09	3.31	24.40	19.92	615.18	No	
MW-27	04/24/02	635.10	637.02	620.89	605.89	20.29	3.77	24.06	19.22	615.88	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	05/15/02	635.10	637.02	620.89	605.89	19.98	3.19	23.17	18.78	616.32	No	
MW-27	06/27/02	635.10	637.02	620.89	605.89	20.17	2.67	22.84	18.85	616.25	No	
MW-27	07/25/02	635.10	637.02	620.89	605.89	20.08	2.22	22.30	18.66	616.44	No	
MW-27	08/20/02	635.10	637.02	620.89	605.89	19.97	1.89	21.86	18.48	616.62	No	
MW-27	09/30/02	635.10	637.02	620.89	605.89	19.70	0.65	20.35	17.93	617.17	No	
MW-27	11/05/02	635.10	637.02	620.89	605.89	19.57	0.06	19.63	17.66	617.44	No	
MW-27	12/23/02	635.10	637.02	620.89	605.89	20.33	1.06	21.39	18.65	616.45	No	
MW-27	01/28/03	635.10	637.02	620.89	605.89	20.86	1.60	22.46	19.30	615.80	No	
MW-27	02/19/03	635.10	637.02	620.89	605.89	20.89	2.54	23.43	19.54	615.56	No	
MW-27	04/17/03	635.10	637.02	620.89	605.89	21.29	3.33	24.62	20.12	614.98	No	
MW-27	05/15/03	635.10	637.02	620.89	605.89	21.36	3.46	24.82	20.22	614.88	No	
MW-27	06/10/03	635.10	637.02	620.89	605.89	21.30	2.66	23.96	19.98	615.12	No	
MW-27	10/23/03	635.10	637.02	620.89	605.89	21.35	3.01	24.36	20.11	614.99	No	
MW-27	12/03/03	635.10	637.02	620.89	605.89	21.44	3.26	24.70	20.26	614.84	No	
MW-27	04/19/04	635.10	636.93	620.89	605.89	22.02	3.94	25.96	21.08	614.02	No	
MW-27	07/28/04	635.10	636.93	620.89	605.89	21.16	2.08	23.24	19.80	615.30	No	
MW-27	11/16/04	635.10	636.93	620.89	605.89	20.99	1.23	22.22	19.44	615.66	No	
MW-27	04/18/05	635.10	636.93	620.89	605.89	20.82	2.17	22.99	19.48	615.62	No	
MW-27	09/09/05	635.10	636.93	620.89	605.89	20.37	1.70	22.07	18.92	616.18	No	
MW-27	10/11/05	635.10	636.93	620.89	605.89	20.11	1.06	21.17	18.52	616.58	No	
MW-27	05/23/06	635.10	636.93	620.89	605.89	19.36	1.22	20.58	17.81	617.29	No	
MW-27	10/16/06	635.10	636.93	620.89	605.89	20.58	2.37	22.95	19.29	615.81	No	
MW-27	04/23/07	635.10	636.93	620.89	605.89	21.45	3.45	24.90	20.40	614.70	No	
MW-27	09/25/07	635.10	637.67	620.89	605.89	21.63	3.59	25.22	19.87	615.23	No	
MW-27	05/01/08	635.10	637.67	620.89	605.89	20.78	1.43	22.21	18.53	616.57	No	
MW-27	10/20/08	635.10	637.67	620.89	605.89	19.19	0.78	19.97	16.80	618.30	No	
MW-27	04/18/09	635.10	637.67	620.89	605.89	19.23	1.83	21.06	17.07	618.03	No	
MW-27	08/04/09	635.10	637.67	620.89	605.89	20.68	1.66	22.34	18.48	616.62	No	
MW-27	08/05/09	635.10	637.67	620.89	605.89	21.10	1.25	22.35	18.81	616.29	No	
MW-27	08/13/09	635.10	637.67	620.89	605.89	20.90	0.58	21.48	18.46	616.64	No	
MW-27	08/18/09	635.10	637.67	620.89	605.89	20.53	0.79	21.32	18.14	616.96	No	
MW-27	08/26/09	635.10	637.67	620.89	605.89	20.56	0.66	21.22	18.14	616.96	No	
MW-27	09/03/09	635.10	637.67	620.89	605.89	20.28	0.70	20.98	17.87	617.23	No	
MW-27	09/08/09	635.10	637.67	620.89	605.89	20.24	0.69	20.93	17.83	617.27	No	
MW-27	09/14/09	635.10	637.67	620.89	605.89	20.30	0.96	21.26	17.95	617.15	No	
MW-27	10/11/09	635.10	637.67	620.89	605.89	20.71	1.03	21.74	18.37	616.73	No	
MW-27	10/15/09	635.10	637.67	620.89	605.89	20.71	1.03	21.74	18.37	616.73	No	
MW-27	04/28/10	635.10	637.67	620.89	605.89	20.73	1.89	22.62	18.59	616.51	No	
MW-27	10/25/10	635.10	637.67	620.89	605.89	18.70	1.14	19.84	16.39	618.71	No	
MW-27	04/25/11	635.10	637.67	620.89	605.89	20.03	0.79	20.82	17.64	617.46	No	
MW-27	08/04/11	635.10	637.67	620.89	605.89	18.21	1.22	19.43	15.92	619.18	No	
MW-27	09/15/11	635.10	637.67	620.89	605.89	19.41	0.32	19.73	16.91	618.19	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	09/23/11	635.10	637.67	620.89	605.89	19.55	0.13	19.68	17.01	618.09	No	
MW-27	09/29/11	635.10	637.67	620.89	605.89	19.45	0.50	19.95	16.99	618.11	No	
MW-27	10/07/11	635.10	637.67	620.89	605.89	19.52	0.42	19.94	17.04	618.06	No	
MW-27	10/10/11	635.10	637.67	620.89	605.89	19.70	0.39	20.09	17.22	617.88	No	
MW-27	10/21/11	635.10	637.67	620.89	605.89	19.96	0.32	20.28	17.46	617.64	No	
MW-27	10/27/11	635.10	637.67	620.89	605.89	20.09	0.29	20.38	17.59	617.51	No	
MW-27	11/04/11	635.10	637.67	620.89	605.89	20.27	0.37	20.64	17.78	617.32	No	
MW-27	11/09/11	635.10	637.67	620.89	605.89	20.20	0.24	20.44	17.68	617.42	No	
MW-27	11/18/11	635.10	637.67	620.89	605.89	20.33	0.35	20.68	17.84	617.26	No	
MW-27	11/22/11	635.10	637.67	620.89	605.89	20.43	0.50	20.93	17.97	617.13	No	
MW-27	12/01/11	635.10	637.67	620.89	605.89	20.73	0.98	21.71	18.38	616.72	No	
MW-27	01/04/12	635.10	637.67	620.89	605.89	20.93	2.61	23.54	18.95	616.15	No	
MW-27	02/16/12	635.10	637.67	620.89	605.89	21.31	2.35	23.66	19.27	615.83	No	
MW-27	03/13/12	635.10	637.67	620.89	605.89	21.46	2.73	24.19	19.51	615.59	No	
MW-27	04/03/12	635.10	637.67	620.89	605.89	21.58	2.84	24.42	19.65	615.45	No	Spill Buddy Before Reading
MW-27	04/03/12	635.10	637.67	620.89	605.89	22.20	0.65	22.85	19.78	615.32	No	Spill Buddy After Reading
MW-27	04/16/12	635.10	637.67	620.89	605.89	21.33	3.01	24.34	19.44	615.66	No	
MW-27	06/18/12	635.10	637.67	620.89	605.89	20.13	0.69	20.82	17.72	617.38	No	
MW-27	06/26/12	635.10	637.67	620.89	605.89	19.28	0.70	19.98	16.87	618.23	No	
MW-27	07/12/12	635.10	637.67	620.89	605.89	19.57	0.82	20.39	17.19	617.91	No	
MW-27	07/24/12	635.10	637.67	620.89	605.89	19.93	0.65	20.58	17.51	617.59	No	
MW-27	08/09/12	635.10	637.67	620.89	605.89	20.04	0.71	20.75	17.63	617.47	No	Spill Buddy Before Reading
MW-27	08/09/12	635.10	637.67	620.89	605.89	20.29	0.11	20.40	17.74	617.36	No	Spill Buddy After Reading
MW-27	08/17/12	635.10	637.67	620.89	605.89	20.21	0.69	20.90	17.80	617.30	No	
MW-27	09/17/12	635.10	637.67	620.89	605.89	20.57	1.01	21.58	18.23	616.87	No	
MW-27	09/18/12	635.10	637.67	620.89	605.89	20.54	1.01	21.55	18.20	616.90	No	Spill Buddy Before Reading
MW-27	09/18/12	635.10	637.67	620.89	605.89	20.79	0.06	20.85	18.23	616.87	No	Spill Buddy After Reading
MW-27	09/20/12	635.10	637.67	620.89	605.89	20.62	1.06	21.68	18.29	616.81	No	
MW-27	09/30/12	635.10	637.67	620.89	605.89	20.75	1.13	21.88	18.44	616.66	No	
MW-27	10/22/12	635.10	637.67	620.89	605.89	21.13	1.29	22.42	18.85	616.25	No	
MW-27	11/21/12	635.10	637.67	620.89	605.89	21.15	2.09	23.24	19.05	616.05	No	
MW-27	12/17/12	635.10	637.67	620.89	605.89	21.30	2.63	23.93	19.32	615.78	No	
MW-27	12/20/12	635.10	637.67	620.89	605.89	21.30	2.72	24.02	19.34	615.76	No	
MW-27	03/25/13	635.10	637.67	620.89	605.89	21.30	4.24	25.54	19.69	615.41	No	
MW-27	05/05/13	635.10	637.67	620.89	605.89	21.81	3.34	25.15	19.99	615.11	No	
MW-27	10/03/13	635.10	637.67	620.89	605.89	21.37	1.82	23.19	19.21	615.89	No	
MW-27	05/22/14	635.10	637.67	620.89	605.89	20.41	0.44	20.85	17.94	617.16	No	
MW-27	10/31/14	635.10	637.67	620.89	605.89	19.65	0.31	19.96	17.15	617.95	No	
MW-27	05/06/15	635.10	637.67	620.89	605.89	21.07	2.19	23.26	18.99	616.11	No	
MW-27	07/10/15	635.10	637.67	620.89	605.89	20.33	0.63	20.96	17.90	617.20	No	
MW-27	10/05/15	635.10	637.67	620.89	605.89	19.82	0.28	20.10	17.31	617.79	No	
MW-27	05/23/16	635.10	637.67	620.89	605.89	16.52	3.08	19.60	14.65	620.45	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-27	10/03/16	635.10	637.67	620.89	605.89	18.31	1.65	19.96	16.11	618.99	No	
MW-27	06/14/17	635.10	637.67	620.89	605.89	16.70	3.06	19.76	14.82	620.28	No	
MW-27	06/21/17	635.10	637.67	620.89	605.89	17.35	2.34	19.69	15.31	619.79	No	
MW-27	06/22/17	635.10	637.67	620.89	605.89	17.13	2.57	19.70	15.14	619.96	No	
MW-27	06/23/17	635.10	637.67	620.89	605.89	17.25	2.50	19.75	15.24	619.86	No	
MW-28	06/30/89	635.70	638.14	624.08	609.08	NP	0.00	21.10	18.66	617.04	No	
MW-28	07/12/89	635.70	638.14	624.08	609.08	NP	0.00	21.59	19.15	616.55	No	
MW-28	07/26/89	635.70	638.14	624.08	609.08	NP	0.00	21.73	19.29	616.41	No	
MW-28	07/27/89	635.70	638.14	624.08	609.08	NP	0.00	21.84	19.40	616.30	No	
MW-28	09/03/89	635.70	638.14	624.08	609.08	NP	0.00	21.95	19.51	616.19	No	
MW-28	11/16/89	635.70	638.14	624.08	609.08	NP	0.00	22.11	19.67	616.03	No	
MW-28	11/29/89	635.70	638.14	624.08	609.08	NP	0.00	22.39	19.95	615.75	No	
MW-28	06/19/90	635.70	638.14	624.08	609.08	NP	0.00	22.01	19.57	616.13	No	
MW-28	06/27/90	635.70	638.14	624.08	609.08	NP	0.00	22.07	19.63	616.07	No	
MW-28	07/05/90	635.70	638.14	624.08	609.08	NP	0.00	22.45	20.01	615.69	No	
MW-28	07/13/90	635.70	638.14	624.08	609.08	NP	0.00	22.45	20.01	615.69	No	
MW-28	07/17/90	635.70	638.14	624.08	609.08	NP	0.00	22.16	19.72	615.98	No	
MW-28	07/25/90	635.70	638.14	624.08	609.08	NP	0.00	22.48	20.04	615.66	No	
MW-28	09/06/90	635.70	638.14	624.08	609.08	NP	0.00	21.83	19.39	616.31	No	
MW-28	01/04/91	635.70	638.14	624.08	609.08	NP	0.00	21.71	19.27	616.43	No	
MW-28	07/09/91	635.70	638.14	624.08	609.08	NP	0.00	18.84	16.40	619.30	No	
MW-28	10/08/91	635.70	638.14	624.08	609.08	NP	0.00	17.71	15.27	620.43	No	
MW-28	01/07/92	635.70	638.14	624.08	609.08	NP	0.00	18.77	16.33	619.37	No	
MW-28	10/14/92	635.70	638.14	624.08	609.08	NP	0.00	18.48	16.04	619.66	No	
MW-28	06/25/93	635.70	638.14	624.08	609.08	NP	0.00	15.49	13.05	622.65	No	
MW-28	10/28/93	635.70	638.14	624.08	609.08	NP	0.00	19.10	16.66	619.04	No	
MW-28	01/29/94	635.70	638.14	624.08	609.08	NP	0.00	20.59	18.15	617.55	No	
MW-28	04/27/94	635.70	638.14	624.08	609.08	NP	0.00	19.67	17.23	618.47	No	
MW-28	07/21/94	635.70	638.14	624.08	609.08	NP	0.00	18.64	16.20	619.50	No	
MW-28	10/25/94	635.70	638.14	624.08	609.08	NP	0.00	19.04	16.60	619.10	No	
MW-28	10/27/94	635.70	638.14	624.08	609.08	NP	0.00	18.35	15.91	619.79	No	
MW-28	02/01/95	635.70	638.14	624.08	609.08	NP	0.00	20.96	18.52	617.18	No	
MW-28	04/04/95	635.70	638.14	624.08	609.08	NP	0.00	21.51	19.07	616.63	No	
MW-28	07/12/95	635.70	638.14	624.08	609.08	NP	0.00	19.98	17.54	618.16	No	
MW-28	11/13/95	635.70	638.14	624.08	609.08	NP	0.00	18.52	16.08	619.62	No	
MW-28	03/13/96	635.70	638.14	624.08	609.08	NP	0.00	21.11	18.67	617.03	No	
MW-28	04/22/96	635.70	638.14	624.08	609.08	NP	0.00	19.07	16.63	619.07	No	
MW-28	10/08/96	635.70	638.14	624.08	609.08	NP	0.00	17.82	15.38	620.32	No	
MW-28	04/29/97	635.70	638.14	624.08	609.08	NP	0.00	13.65	11.21	624.49	Yes	
MW-28	11/03/98	635.70	638.14	624.08	609.08	NP	0.00	21.02	18.58	617.12	No	
MW-28	03/02/99	635.70	638.14	624.08	609.08	NP	0.00	21.60	19.16	616.54	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-28	04/26/00	635.70	638.14	624.08	609.08	NP	0.00	20.17	17.73	617.97	No	
MW-28	10/10/00	635.70	638.14	624.08	609.08	NP	0.00	21.12	18.68	617.02	No	
MW-28	04/24/01	635.70	638.14	624.08	609.08	NP	0.00	20.63	18.19	617.51	No	
MW-28	10/24/01	635.70	638.14	624.08	609.08	NP	0.00	20.98	18.54	617.16	No	
MW-28	01/22/02	635.70	638.14	624.08	609.08	21.09	3.23	24.32	19.38	616.32	No	Deepest measured DTW
MW-28	02/26/02	635.70	638.14	624.08	609.08	NP	0.00	22.15	19.71	615.99	No	
MW-28	03/20/02	635.70	638.14	624.08	609.08	NP	0.00	22.37	19.93	615.77	No	
MW-28	04/23/02	635.70	638.14	624.08	609.08	NP	0.00	21.41	18.97	616.73	No	
MW-28	05/15/02	635.70	638.14	624.08	609.08	NP	0.00	20.49	18.05	617.65	No	
MW-28	08/20/02	635.70	638.14	624.08	609.08	NP	0.00	20.40	17.96	617.74	No	
MW-28	11/05/02	635.70	638.14	624.08	609.08	NP	0.00	19.43	16.99	618.71	No	
MW-28	12/23/02	635.70	638.14	624.08	609.08	NP	0.00	21.22	18.78	616.92	No	
MW-28	01/28/03	635.70	638.14	624.08	609.08	NP	0.00	21.70	19.26	616.44	No	
MW-28	01/28/03	635.70	638.14	624.08	609.08	NP	0.00	22.07	19.63	616.07	No	
MW-28	04/17/03	635.70	638.14	624.08	609.08	NP	0.00	22.48	20.04	615.66	No	
MW-28	06/10/03	635.70	638.14	624.08	609.08	NP	0.00	21.93	19.49	616.21	No	
MW-28	10/20/03	635.70	638.14	624.08	609.08	NP	0.00	22.05	19.61	616.09	No	
MW-28	12/03/03	635.70	638.14	624.08	609.08	NP	0.00	22.39	19.95	615.75	No	
MW-28	04/19/04	635.75	638.31	624.08	609.08	NP	0.00	22.87	20.31	615.44	No	
MW-28	07/28/04	635.75	638.31	624.08	609.08	NP	0.00	21.47	18.91	616.84	No	
MW-28	11/16/04	635.75	638.31	624.08	609.08	NP	0.00	20.34	17.78	617.97	No	
MW-28	04/18/05	635.75	638.31	624.08	609.08	NP	0.00	20.82	18.26	617.49	No	
MW-28	10/11/05	635.75	638.31	624.08	609.08	NP	0.00	20.09	17.53	618.22	No	
MW-28	05/23/06	635.75	638.31	624.08	609.08	NP	0.00	19.23	16.67	619.08	No	
MW-28	10/16/06	635.75	638.31	624.08	609.08	NP	0.00	21.15	18.59	617.16	No	
MW-28	04/23/07	635.75	638.31	624.08	609.08	NP	0.00	22.25	19.69	616.06	No	
MW-28	09/25/07	635.75	638.31	624.08	609.08	NP	0.00	22.16	19.60	616.15	No	
MW-28	05/01/08	635.75	638.31	624.08	609.08	NP	0.00	20.05	17.49	618.26	No	
MW-28	10/20/08	635.75	638.31	624.08	609.08	NP	0.00	18.38	15.82	619.93	No	
MW-28	04/18/09	635.75	638.31	624.08	609.08	NP	0.00	19.96	17.40	618.35	No	
MW-28	10/11/09	635.75	638.31	624.08	609.08	NP	0.00	20.82	18.26	617.49	No	
MW-28	04/28/10	635.75	638.31	624.08	609.08	NP	0.00	20.97	18.41	617.34	No	
MW-28	10/25/10	635.75	638.31	624.08	609.08	NP	0.00	18.62	16.06	619.69	No	
MW-28	04/25/11	635.75	638.31	624.08	609.08	NP	0.00	19.69	17.13	618.62	No	
MW-28	10/10/11	635.75	638.31	624.08	609.08	NP	0.00	19.85	17.29	618.46	No	
MW-28	01/04/12	635.75	638.31	624.08	609.08	NP	0.00	21.34	18.78	616.97	No	
MW-28	04/16/12	635.75	638.31	624.08	609.08	NP	0.00	22.01	19.45	616.30	No	
MW-28	06/26/12	635.75	638.31	624.08	609.08	NP	0.00	18.39	15.83	619.92	No	
MW-28	09/30/12	635.75	638.31	624.08	609.08	NP	0.00	21.19	18.63	617.12	No	
MW-28	12/17/12	635.75	638.31	624.08	609.08	NP	0.00	21.86	19.30	616.45	No	
MW-28	03/25/13	635.75	638.31	624.08	609.08	NP	0.00	22.94	20.38	615.37	No	
MW-28	05/05/13	635.75	638.31	624.08	609.08	NP	0.00	21.01	18.45	617.30	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-28	10/03/13	635.75	638.31	624.08	609.08	NP	0.00	21.65	19.09	616.66	No	
MW-30S	06/30/89	629.90	632.91	615.20	605.20	NP	0.00	17.40	14.39	615.51	Yes	
MW-30S	07/12/89	629.90	632.91	615.20	605.20	NP	0.00	17.80	14.79	615.11	No	
MW-30S	07/26/89	629.90	632.91	615.20	605.20	NP	0.00	17.98	14.97	614.93	No	
MW-30S	07/27/89	629.90	632.91	615.20	605.20	NP	0.00	18.12	15.11	614.79	No	
MW-30S	09/03/89	629.90	632.91	615.20	605.20	NP	0.00	18.44	15.43	614.47	No	
MW-30S	11/16/89	629.90	632.91	615.20	605.20	NP	0.00	18.66	15.65	614.25	No	
MW-30S	11/29/89	629.90	632.91	615.20	605.20	NP	0.00	18.77	15.76	614.14	No	
MW-30S	06/01/90	629.90	632.91	615.20	605.20	NP	0.00	18.44	15.43	614.47	No	
MW-30S	06/19/90	629.90	632.91	615.20	605.20	NP	0.00	18.30	15.29	614.61	No	
MW-30S	06/27/90	629.90	632.91	615.20	605.20	NP	0.00	18.53	15.52	614.38	No	
MW-30S	07/05/90	629.90	632.91	615.20	605.20	NP	0.00	18.65	15.64	614.26	No	
MW-30S	07/13/90	629.90	632.91	615.20	605.20	NP	0.00	18.72	15.71	614.19	No	
MW-30S	07/17/90	629.90	632.91	615.20	605.20	NP	0.00	18.56	15.55	614.35	No	
MW-30S	07/25/90	629.90	632.91	615.20	605.20	NP	0.00	18.78	15.77	614.13	No	
MW-30S	08/09/90	629.90	632.91	615.20	605.20	NP	0.00	18.80	15.79	614.11	No	
MW-30S	08/27/90	629.90	632.91	615.20	605.20	NP	0.00	18.67	15.66	614.24	No	
MW-30S	09/06/90	629.90	632.91	615.20	605.20	NP	0.00	18.44	15.43	614.47	No	
MW-30S	01/04/91	629.90	632.91	615.20	605.20	NP	0.00	17.90	14.89	615.01	No	
MW-30S	01/30/91	629.90	632.91	615.20	605.20	NP	0.00	18.20	15.19	614.71	No	
MW-30S	04/24/91	629.90	632.91	615.20	605.20	NP	0.00	18.38	15.37	614.53	No	
MW-30S	07/09/91	629.90	632.91	615.20	605.20	NP	0.00	14.66	11.65	618.25	Yes	
MW-30S	10/08/91	629.90	632.91	615.20	605.20	NP	0.00	14.07	11.06	618.84	Yes	
MW-30S	01/07/92	629.90	632.91	615.20	605.20	NP	0.00	14.94	11.93	617.97	Yes	
MW-30S	10/14/92	629.90	632.91	615.20	605.20	NP	0.00	15.58	12.57	617.33	Yes	
MW-30S	06/25/93	629.90	632.91	615.20	605.20	NP	0.00	10.97	7.96	621.94	Yes	
MW-30S	10/28/93	629.90	632.91	615.20	605.20	NP	0.00	15.78	12.77	617.13	Yes	
MW-30S	01/29/94	629.90	632.91	615.20	605.20	NP	0.00	17.02	14.01	615.89	Yes	
MW-30S	04/27/94	629.90	632.91	615.20	605.20	NP	0.00	15.53	12.52	617.38	Yes	
MW-30S	06/14/94	629.90	632.91	615.20	605.20	NP	0.00	14.78	11.77	618.13	Yes	
MW-30S	07/21/94	629.90	632.91	615.20	605.20	NP	0.00	15.25	12.24	617.66	Yes	
MW-30S	08/30/94	629.90	632.91	615.20	605.20	NP	0.00	16.59	13.58	616.32	Yes	
MW-30S	10/25/94	629.90	632.91	615.20	605.20	NP	0.00	15.85	12.84	617.06	Yes	
MW-30S	10/28/94	629.90	632.91	615.20	605.20	NP	0.00	15.25	12.24	617.66	Yes	
MW-30S	02/01/95	629.90	632.91	615.20	605.20	NP	0.00	18.20	15.19	614.71	No	
MW-30S	04/04/95	629.90	632.91	615.20	605.20	NP	0.00	17.78	14.77	615.13	No	
MW-30S	07/12/95	629.90	632.91	615.20	605.20	NP	0.00	16.61	13.60	616.30	Yes	
MW-30S	08/18/95	629.90	632.91	615.20	605.20	NP	0.00	17.28	14.27	615.63	Yes	
MW-30S	11/13/95	629.90	632.91	615.20	605.20	NP	0.00	14.80	11.79	618.11	Yes	
MW-30S	03/13/96	629.90	632.91	615.20	605.20	NP	0.00	17.55	14.54	615.36	Yes	
MW-30S	04/22/96	629.90	632.91	615.20	605.20	NP	0.00	14.92	11.91	617.99	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30S	10/08/96	629.90	632.91	615.20	605.20	NP	0.00	14.22	11.21	618.69	Yes	
MW-30S	04/29/97	629.90	632.91	615.20	605.20	NP	0.00	12.70	9.69	620.21	Yes	
MW-30S	11/03/98	629.90	632.91	615.20	605.20	NP	0.00	17.91	14.90	615.00	No	
MW-30S	04/26/00	629.90	632.91	615.20	605.20	NP	0.00	16.24	13.23	616.67	Yes	
MW-30S	10/10/00	629.90	632.91	615.20	605.20	NP	0.00	17.66	14.65	615.25	Yes	
MW-30S	10/24/01	629.90	632.91	615.20	605.20	NP	0.00	17.67	14.66	615.24	Yes	
MW-30S	01/22/02	629.90	632.91	615.20	605.20	NP	0.00	18.11	15.10	614.80	No	
MW-30S	02/26/02	629.90	632.91	615.20	605.20	NP	0.00	18.53	15.52	614.38	No	
MW-30S	04/23/02	629.90	632.91	615.20	605.20	NP	0.00	17.83	14.82	615.08	No	
MW-30S	08/20/02	629.90	632.91	615.20	605.20	NP	0.00	16.52	13.51	616.39	Yes	
MW-30S	09/30/02	629.90	632.91	615.20	605.20	NP	0.00	16.27	13.26	616.64	Yes	
MW-30S	11/05/02	629.90	632.91	615.20	605.20	NP	0.00	15.53	12.52	617.38	Yes	
MW-30S	12/23/02	629.90	632.91	615.20	605.20	NP	0.00	17.42	14.41	615.49	Yes	
MW-30S	01/28/03	629.90	632.91	615.20	605.20	NP	0.00	18.01	15.00	614.90	No	
MW-30S	02/19/03	629.90	632.91	615.20	605.20	NP	0.00	18.28	15.27	614.63	No	
MW-30S	04/17/03	629.90	632.91	615.20	605.20	NP	0.00	18.78	15.77	614.13	No	
MW-30S	10/20/03	629.90	632.91	615.20	605.20	NP	0.00	18.66	15.65	614.25	No	
MW-30S	12/03/03	629.90	632.91	615.20	605.20	NP	0.00	18.89	15.88	614.02	No	
MW-30S	04/19/04	630.10	633.05	615.20	605.20	NP	0.00	19.23	16.28	613.82	No	
MW-30S	07/28/04	630.10	633.05	615.20	605.20	NP	0.00	17.67	14.72	615.38	Yes	
MW-30S	11/16/04	630.10	633.05	615.20	605.20	NP	0.00	16.50	13.55	616.55	Yes	
MW-30S	04/18/05	630.10	633.05	615.20	605.20	NP	0.00	16.50	13.55	616.55	Yes	
MW-30S	10/11/05	630.10	633.05	615.20	605.20	NP	0.00	16.23	13.28	616.82	Yes	
MW-30S	05/23/06	630.10	633.05	615.20	605.20	NP	0.00	15.05	12.10	618.00	Yes	
MW-30S	10/16/06	630.10	633.05	615.20	605.20	NP	0.00	17.73	14.78	615.32	Yes	
MW-30S	04/23/07	630.10	633.05	615.20	605.20	NP	0.00	18.45	15.50	614.60	No	Water low in well
MW-30S	09/25/07	630.10	633.05	615.20	605.20	NP	0.00	18.52	15.57	614.53	No	
MW-30S	05/01/08	630.10	633.05	615.20	605.20	NP	0.00	15.57	12.62	617.48	Yes	
MW-30S	10/20/08	630.10	633.05	615.20	605.20	NP	0.00	14.84	11.89	618.21	Yes	
MW-30S	04/18/09	630.10	633.05	615.20	605.20	NP	0.00	15.87	12.92	617.18	Yes	
MW-30S	08/31/11	630.10	633.05	615.20	605.20	NP	0.00	14.76	11.81	618.29	Yes	
MW-30S	10/10/11	630.10	633.05	615.20	605.20	NP	0.00	16.19	13.24	616.86	Yes	
MW-30S	01/04/12	630.10	633.05	615.20	605.20	NP	0.00	17.78	14.83	615.27	Yes	
MW-30S	04/16/12	630.10	633.05	615.20	605.20	NP	0.00	18.44	15.49	614.61	No	
MW-30S	06/26/12	630.10	633.05	615.20	605.20	NP	0.00	13.68	10.73	619.37	Yes	
MW-30S	09/30/12	630.10	633.05	615.20	605.20	NP	0.00	17.43	14.48	615.62	Yes	
MW-30S	12/17/12	630.10	633.05	615.20	605.20	NP	0.00	18.28	15.33	614.77	No	
MW-30S	03/25/13	630.10	633.05	615.20	605.20	NP	0.00	18.37	15.42	614.68	No	
MW-30S	05/05/13	630.10	633.05	615.20	605.20	NP	0.00	19.14	16.19	613.91	No	
MW-30S	10/01/13	630.10	633.05	615.20	605.20	NP	0.00	17.94	14.99	615.11	No	
MW-30S	05/21/14	630.10	633.05	615.20	605.20	NP	0.00	14.79	11.84	618.26	Yes	
MW-30S	10/30/14	630.10	633.05	615.20	605.20	NP	0.00	15.75	12.80	617.30	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30S	05/05/15	630.10	633.05	615.20	605.20	NP	0.00	17.49	14.54	615.56	Yes	OWLD/ 15.72 NWLD
MW-30S	10/07/15	630.10	633.05	615.20	605.20	NP	0.00	15.78	12.83	617.27	Yes	
MW-30S	05/23/16	630.10	633.05	615.20	605.20	NP	0.00	13.09	10.14	619.96	Yes	
MW-30S	10/03/16	630.10	633.05	615.20	605.20	NP	0.00	15.09	12.14	617.96	Yes	
MW-30S	06/29/17	630.10	633.05	615.20	605.20	NP	0.00	14.32	11.37	618.73	Yes	
MW-30D	06/14/94	630.00	633.04	578.29	575.29	NP	0.00	16.85	13.81	616.19	Yes	
MW-30D	07/21/94	630.00	633.04	578.29	575.29	NP	0.00	17.12	14.08	615.92	Yes	
MW-30D	10/25/94	630.00	633.04	578.29	575.29	NP	0.00	17.48	14.44	615.56	Yes	
MW-30D	10/28/94	630.00	633.04	578.29	575.29	NP	0.00	17.08	14.04	615.96	Yes	
MW-30D	04/04/95	630.00	633.04	578.29	575.29	NP	0.00	19.24	16.20	613.80	Yes	
MW-30D	07/12/95	630.00	633.04	578.29	575.29	NP	0.00	18.27	15.23	614.77	Yes	
MW-30D	08/18/95	630.00	633.04	578.29	575.29	NP	0.00	18.95	15.91	614.09	Yes	
MW-30D	11/13/95	630.00	633.04	578.29	575.29	NP	0.00	17.03	13.99	616.01	Yes	
MW-30D	04/22/96	630.00	633.04	578.29	575.29	NP	0.00	17.05	14.01	615.99	Yes	
MW-30D	10/08/96	630.00	633.04	578.29	575.29	NP	0.00	16.20	13.16	616.84	Yes	
MW-30D	04/29/97	630.00	633.04	578.29	575.29	NP	0.00	15.30	12.26	617.74	Yes	
MW-30D	11/03/98	630.00	633.04	578.29	575.29	NP	0.00	19.28	16.24	613.76	Yes	
MW-30D	03/02/99	630.00	633.04	578.29	575.29	NP	0.00	19.25	16.21	613.79	Yes	
MW-30D	04/26/00	630.00	633.04	578.29	575.29	NP	0.00	18.23	15.19	614.81	Yes	
MW-30D	10/10/00	630.00	633.04	578.29	575.29	NP	0.00	19.30	16.26	613.74	Yes	
MW-30D	10/24/01	630.00	633.04	578.29	575.29	NP	0.00	19.20	16.16	613.84	Yes	
MW-30D	04/23/02	630.00	633.04	578.29	575.29	NP	0.00	19.28	16.24	613.76	Yes	
MW-30D	11/05/02	630.00	633.04	578.29	575.29	NP	0.00	17.66	14.62	615.38	Yes	
MW-30D	04/17/03	630.00	633.04	578.29	575.29	NP	0.00	20.23	17.19	612.81	Yes	
MW-30D	10/20/03	630.00	633.04	578.29	575.29	NP	0.00	20.03	16.99	613.01	Yes	
MW-30D	04/19/04	630.15	633.15	578.29	575.29	NP	0.00	20.24	17.24	612.91	Yes	
MW-30D	11/16/04	630.15	633.15	578.29	575.29	NP	0.00	18.33	15.33	614.82	Yes	
MW-30D	04/18/05	630.15	633.15	578.29	575.29	NP	0.00	18.31	15.31	614.84	Yes	
MW-30D	10/11/05	630.15	633.15	578.29	575.29	NP	0.00	18.95	15.95	614.20	Yes	
MW-30D	05/23/06	630.15	633.15	578.29	575.29	NP	0.00	17.37	14.37	615.78	Yes	
MW-30D	10/16/06	630.15	633.15	578.29	575.29	NP	0.00	19.13	16.13	614.02	Yes	
MW-30D	04/23/07	630.15	633.15	578.29	575.29	NP	0.00	19.62	16.62	613.53	Yes	
MW-30D	09/25/07	630.15	633.15	578.29	575.29	NP	0.00	19.69	16.69	613.46	Yes	
MW-30D	05/01/08	630.15	633.15	578.29	575.29	NP	0.00	17.63	14.63	615.52	Yes	
MW-30D	10/20/08	630.15	633.15	578.29	575.29	NP	0.00	16.69	13.69	616.46	Yes	
MW-30D	04/18/09	630.15	633.15	578.29	575.29	NP	0.00	17.84	14.84	615.31	Yes	
MW-30D	08/31/11	630.15	633.15	578.29	575.29	NP	0.00	16.58	13.58	616.57	Yes	
MW-30D	10/10/11	630.15	633.15	578.29	575.29	NP	0.00	17.92	14.92	615.23	Yes	
MW-30D	01/04/12	630.15	633.15	578.29	575.29	NP	0.00	19.22	16.22	613.93	Yes	
MW-30D	04/16/12	630.15	633.15	578.29	575.29	NP	0.00	19.50	16.50	613.65	Yes	
MW-30D	06/26/12	630.15	633.15	578.29	575.29	NP	0.00	16.22	13.22	616.93	Yes	

Table 2
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30D	09/30/12	630.15	633.15	578.29	575.29	NP	0.00	18.99	15.99	614.16	Yes	
MW-30D	12/17/12	630.15	633.15	578.29	575.29	NP	0.00	19.60	16.60	613.55	Yes	
MW-30D	03/25/13	630.15	633.15	578.29	575.29	NP	0.00	20.53	17.53	612.62	Yes	
MW-30D	05/05/13	630.15	633.15	578.29	575.29	NP	0.00	19.52	16.52	613.63	Yes	
MW-30D	10/01/13	630.15	633.15	578.29	575.29	NP	0.00	19.17	16.17	613.98	Yes	
MW-30D	05/21/14	630.15	633.15	578.29	575.29	NP	0.00	16.76	13.76	616.39	Yes	
MW-30D	10/30/14	630.15	633.15	578.29	575.29	NP	0.00	17.26	14.26	615.89	Yes	
MW-30D	05/05/15	630.15	633.15	578.29	575.29	NP	0.00	18.93	15.93	614.22	Yes	
MW-30D	10/07/15	630.15	633.15	578.29	575.29	NP	0.00	17.51	14.51	615.64	Yes	
MW-30D	05/23/16	630.15	633.15	578.29	575.29	NP	0.00	15.53	12.53	617.62	Yes	
MW-30D	10/03/16	630.15	633.15	578.29	575.29	NP	0.00	15.68	12.68	617.47	Yes	
MW-30D	06/14/17	630.15	633.15	578.29	575.29	NP	0.00	15.61	12.61	617.54	Yes	
MW-30DD	07/12/95	630.00	632.98	548.63	545.63	NP	0.00	18.58	15.60	614.40	Yes	
MW-30DD	08/08/95	630.00	632.98	548.63	545.63	NP	0.00	18.80	15.82	614.18	Yes	
MW-30DD	11/13/95	630.00	632.98	548.63	545.63	NP	0.00	17.05	14.07	615.93	Yes	
MW-30DD	04/22/96	630.00	632.98	548.63	545.63	NP	0.00	17.41	14.43	615.57	Yes	
MW-30DD	10/08/96	630.00	632.98	548.63	545.63	NP	0.00	16.69	13.71	616.29	Yes	
MW-30DD	04/29/97	630.00	632.98	548.63	545.63	NP	0.00	16.45	13.47	616.53	Yes	
MW-30DD	11/03/98	630.00	632.98	548.63	545.63	NP	0.00	19.35	16.37	613.63	Yes	
MW-30DD	03/02/99	630.00	632.98	548.63	545.63	NP	0.00	19.12	16.14	613.86	Yes	
MW-30DD	04/26/00	630.00	632.98	548.63	545.63	NP	0.00	18.17	15.19	614.81	Yes	
MW-30DD	10/10/00	630.00	632.98	548.63	545.63	NP	0.00	19.34	16.36	613.64	Yes	
MW-30DD	04/23/02	630.00	632.98	548.63	545.63	NP	0.00	19.37	16.39	613.61	Yes	
MW-30DD	11/05/02	630.00	632.98	548.63	545.63	NP	0.00	17.86	14.88	615.12	Yes	
MW-30DD	04/17/03	630.00	632.98	548.63	545.63	NP	0.00	20.31	17.33	612.67	Yes	
MW-30DD	10/20/03	630.00	632.98	548.63	545.63	NP	0.00	20.10	17.12	612.88	Yes	Very silty
MW-30DD	04/19/04	630.17	633.05	548.63	545.63	NP	0.00	20.08	17.20	612.97	Yes	Very silty
MW-30DD	11/16/04	630.17	633.05	548.63	545.63	NP	0.00	18.36	15.48	614.69	Yes	
MW-30DD	04/18/05	630.17	633.05	548.63	545.63	NP	0.00	18.92	16.04	614.13	Yes	
MW-30DD	10/11/05	630.17	633.05	548.63	545.63	NP	0.00	18.15	15.27	614.90	Yes	
MW-30DD	05/23/06	630.17	633.05	548.63	545.63	NP	0.00	17.53	14.65	615.52	Yes	
MW-30DD	10/16/06	630.17	633.05	548.63	545.63	NP	0.00	19.12	16.24	613.93	Yes	
MW-30DD	04/23/07	630.17	633.05	548.63	545.63	NP	0.00	19.67	16.79	613.38	Yes	
MW-30DD	09/25/07	630.17	633.05	548.63	545.63	NP	0.00	19.78	16.90	613.27	Yes	
MW-30DD	05/01/08	630.17	633.05	548.63	545.63	NP	0.00	17.93	15.05	615.12	Yes	
MW-30DD	10/20/08	630.17	633.05	548.63	545.63	NP	0.00	16.71	13.83	616.34	Yes	
MW-30DD	04/18/09	630.17	633.05	548.63	545.63	NP	0.00	18.05	15.17	615.00	Yes	
MW-30DD	08/31/11	630.17	633.05	548.63	545.63	NP	0.00	16.46	13.58	616.59	Yes	
MW-30DD	10/10/11	630.17	633.05	548.63	545.63	NP	0.00	17.85	14.97	615.20	Yes	
MW-30DD	01/04/12	630.17	633.05	548.63	545.63	NP	0.00	19.34	16.46	613.71	Yes	
MW-30DD	04/16/12	630.17	633.05	548.63	545.63	NP	0.00	19.57	16.69	613.48	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-30DD	06/26/12	630.17	633.05	548.63	545.63	NP	0.00	16.51	13.63	616.54	Yes	
MW-30DD	09/30/12	630.17	633.05	548.63	545.63	NP	0.00	19.13	16.25	613.92	Yes	
MW-30DD	12/17/12	630.17	633.05	548.63	545.63	NP	0.00	19.71	16.83	613.34	Yes	
MW-30DD	03/25/13	630.17	633.05	548.63	545.63	NP	0.00	20.49	17.61	612.56	Yes	
MW-30DD	05/05/13	630.17	633.05	548.63	545.63	NP	0.00	19.58	16.70	613.47	Yes	
MW-30DD	10/01/13	630.17	633.05	548.63	545.63	NP	0.00	19.25	16.37	613.80	Yes	
MW-30DD	05/20/14	630.17	633.05	548.63	545.63	NP	0.00	17.01	14.13	616.04	Yes	
MW-30DD	10/31/14	630.17	633.05	548.63	545.63	NP	0.00	17.53	14.65	615.52	Yes	
MW-30DD	05/04/15	630.17	633.05	548.63	545.63	NP	0.00	19.03	16.15	614.02	Yes	
MW-30DD	10/05/15	630.17	633.05	548.63	545.63	NP	0.00	17.26	14.38	615.79	Yes	
MW-30DD	05/23/16	630.17	633.05	548.63	545.63	NP	0.00	15.71	12.83	617.34	Yes	
MW-30DD	10/03/16	630.17	633.05	548.63	545.63	NP	0.00	16.83	13.95	616.22	Yes	
MW-30DD	06/29/17	630.17	633.05	548.63	545.63	NP	0.00	16.29	13.41	616.76	Yes	
MW-33	08/06/91	630.40	632.74	616.84	606.84	NP	0.00	12.78	10.44	619.96	Yes	
MW-33	10/08/91	630.40	632.74	616.84	606.84	NP	0.00	13.22	10.88	619.52	Yes	
MW-33	01/07/92	630.40	632.74	616.84	606.84	NP	0.00	14.29	11.95	618.45	Yes	
MW-33	10/14/92	630.40	632.74	616.84	606.84	NP	0.00	15.49	13.15	617.25	Yes	
MW-33	06/25/93	630.40	632.74	616.84	606.84	NP	0.00	9.70	7.36	623.04	Yes	
MW-33	10/28/93	630.40	632.74	616.84	606.84	NP	0.00	15.78	13.44	616.96	Yes	
MW-33	01/29/94	630.40	632.74	616.84	606.84	NP	0.00	16.86	14.52	615.88	No	
MW-33	04/27/94	630.40	632.74	616.84	606.84	NP	0.00	15.19	12.85	617.55	Yes	
MW-33	07/21/94	630.40	632.74	616.84	606.84	NP	0.00	14.97	12.63	617.77	Yes	
MW-33	10/25/94	630.40	632.74	616.84	606.84	NP	0.00	15.91	13.57	616.83	No	
MW-33	10/28/94	630.40	632.74	616.84	606.84	NP	0.00	15.62	13.28	617.12	Yes	
MW-33	02/01/95	630.40	632.74	616.84	606.84	NP	0.00	17.62	15.28	615.12	No	
MW-33	04/04/95	630.40	632.74	616.84	606.84	NP	0.00	17.55	15.21	615.19	No	
MW-33	07/12/95	630.40	632.74	616.84	606.84	NP	0.00	16.45	14.11	616.29	No	
MW-33	11/13/95	630.40	632.74	616.84	606.84	NP	0.00	14.76	12.42	617.98	Yes	
MW-33	03/13/96	630.40	632.74	616.84	606.84	NP	0.00	17.60	15.26	615.14	No	
MW-33	04/22/96	630.40	632.74	616.84	606.84	NP	0.00	14.37	12.03	618.37	Yes	
MW-33	10/08/96	630.40	632.74	616.84	606.84	NP	0.00	14.29	11.95	618.45	Yes	
MW-33	04/29/97	630.40	632.74	616.84	606.84	NP	0.00	12.35	10.01	620.39	Yes	
MW-33	11/03/98	630.40	632.74	616.84	606.84	NP	0.00	18.09	15.75	614.65	No	
MW-33	03/02/99	630.40	632.74	616.84	606.84	NP	0.00	18.00	15.66	614.74	No	
MW-33	04/26/00	630.40	632.74	616.84	606.84	NP	0.00	15.92	13.58	616.82	No	
MW-33	04/24/01	630.40	632.74	616.84	606.84	NP	0.00	16.57	14.23	616.17	No	
MW-33	10/23/01	630.40	632.74	616.84	606.84	NP	0.00	17.74	15.40	615.00	No	
MW-33	04/23/02	630.40	632.74	616.84	606.84	NP	0.00	17.85	15.51	614.89	No	
MW-33	08/20/02	630.40	632.74	616.84	606.84	NP	0.00	16.47	14.13	616.27	No	
MW-33	11/05/02	630.40	632.74	616.84	606.84	NP	0.00	15.54	13.20	617.20	Yes	
MW-33	12/23/02	630.40	632.74	616.84	606.84	NP	0.00	17.17	14.83	615.57	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-33	01/28/03	630.40	632.74	616.84	606.84	NP	0.00	17.80	15.46	614.94	No	
MW-33	02/19/03	630.40	632.74	616.84	606.84	NP	0.00	18.18	15.84	614.56	No	
MW-33	04/17/03	630.40	632.74	616.84	606.84	NP	0.00	18.80	16.46	613.94	No	
MW-33	10/20/03	630.40	632.74	616.84	606.84	NP	0.00	18.66	16.32	614.08	No	
MW-33	12/03/03	630.40	632.74	616.84	606.84	NP	0.00	18.95	16.61	613.79	No	
MW-33	04/19/04	630.61	632.85	616.84	606.84	NP	0.00	19.00	16.76	613.85	No	
MW-33	07/28/04	630.61	632.85	616.84	606.84	NP	0.00	17.45	15.21	615.40	No	
MW-33	11/16/04	630.61	632.85	616.84	606.84	NP	0.00	16.44	14.20	616.41	No	
MW-33	04/18/05	630.61	632.85	616.84	606.84	NP	0.00	16.48	14.24	616.37	No	
MW-33	10/11/05	630.61	632.85	616.84	606.84	NP	0.00	16.25	14.01	616.60	No	
MW-33	05/23/06	630.61	632.85	616.84	606.84	NP	0.00	14.54	12.30	618.31	Yes	
MW-33	10/16/06	630.61	632.85	616.84	606.84	NP	0.00	17.79	15.55	615.06	No	
MW-33	04/23/07	630.61	632.85	616.84	606.84	NP	0.00	18.24	16.00	614.61	No	
MW-33	09/25/07	630.61	632.85	616.84	606.84	NP	0.00	18.51	16.27	614.34	No	
MW-33	05/01/08	630.61	632.85	616.84	606.84	NP	0.00	14.95	12.71	617.90	Yes	
MW-33	10/20/08	630.61	632.85	616.84	606.84	NP	0.00	14.82	12.58	618.03	Yes	
MW-33	08/31/11	630.61	632.85	616.84	606.84	NP	0.00	14.33	12.09	618.52	Yes	
MW-33	10/10/11	630.61	632.85	616.84	606.84	NP	0.00	15.86	13.62	616.99	Yes	
MW-33	01/04/12	630.61	632.85	616.84	606.84	NP	0.00	17.56	15.32	615.29	No	
MW-33	04/16/12	630.61	632.85	616.84	606.84	NP	0.00	18.23	15.99	614.62	No	
MW-33	06/26/12	630.61	632.85	616.84	606.84	NP	0.00	12.72	10.48	620.13	Yes	
MW-33	09/30/12	630.61	632.85	616.84	606.84	NP	0.00	17.14	14.90	615.71	No	
MW-33	12/17/12	630.61	632.85	616.84	606.84	NP	0.00	18.20	15.96	614.65	No	
MW-33	03/25/13	630.61	632.85	616.84	606.84	NP	0.00	19.10	16.86	613.75	No	
MW-33	05/05/13	630.61	632.85	616.84	606.84	NP	0.00	18.19	15.95	614.66	No	
MW-33	05/20/14	630.61	632.85	616.84	606.84	NP	0.00	13.87	11.63	618.98	Yes	
MW-33	10/29/14	630.61	632.85	616.84	606.84	NP	0.00	15.40	13.16	617.45	Yes	
MW-33	05/06/15	630.61	632.85	616.84	606.84	NP	0.00	17.27	15.03	615.58	No	
MW-33	10/05/05	630.61	632.85	616.84	606.84	NP	0.00	16.76	14.52	616.09	No	
MW-33	05/23/16	630.61	632.85	616.84	606.84	NP	0.00	12.49	10.25	620.36	Yes	
MW-33	10/03/16	630.61	632.85	616.84	606.84	NP	0.00	15.07	12.83	617.78	Yes	
MW-33	06/29/17	630.61	632.85	616.84	606.84	NP	0.00	13.68	11.44	619.17	Yes	
MW-34	08/06/91	627.70	629.37	608.97	598.97	NP	0.00	12.55	10.88	616.82	Yes	
MW-34	10/08/91	627.70	629.37	608.97	598.97	NP	0.00	12.55	10.88	616.82	Yes	
MW-34	01/07/92	627.70	629.37	608.97	598.97	NP	0.00	12.99	11.32	616.38	Yes	
MW-34	10/14/92	627.70	629.37	608.97	598.97	NP	0.00	13.47	11.80	615.90	Yes	
MW-34	06/25/93	627.70	629.37	608.97	598.97	NP	0.00	10.32	8.65	619.05	Yes	
MW-34	10/28/93	627.70	629.37	608.97	598.97	NP	0.00	13.80	12.13	615.57	Yes	
MW-34	01/29/94	627.70	629.37	608.97	598.97	NP	0.00	14.41	12.74	614.96	Yes	
MW-34	04/27/94	627.70	629.37	608.97	598.97	NP	0.00	13.05	11.38	616.32	Yes	
MW-34	07/21/94	627.70	629.37	608.97	598.97	NP	0.00	13.17	11.50	616.20	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-34	10/25/94	627.70	629.37	608.97	598.97	NP	0.00	13.58	11.91	615.79	Yes	
MW-34	10/28/94	627.70	629.37	608.97	598.97	NP	0.00	13.34	11.67	616.03	Yes	
MW-34	04/04/95	627.70	629.37	608.97	598.97	NP	0.00	15.93	14.26	613.44	Yes	
MW-34	11/13/95	627.70	629.37	608.97	598.97	NP	0.00	12.73	11.06	616.64	Yes	
MW-34	04/22/96	627.70	629.37	608.97	598.97	NP	0.00	12.41	10.74	616.96	Yes	
MW-34	10/08/96	627.70	629.37	608.97	598.97	NP	0.00	12.87	11.20	616.50	Yes	
MW-34	04/29/97	627.70	629.37	608.97	598.97	NP	0.00	11.60	9.93	617.77	Yes	
MW-34	11/03/98	627.70	629.37	608.97	598.97	NP	0.00	15.20	13.53	614.17	Yes	
MW-34	03/02/99	627.70	629.37	608.97	598.97	NP	0.00	15.28	13.61	614.09	Yes	
MW-34	04/26/00	627.70	629.37	608.97	598.97	NP	0.00	13.67	12.00	615.70	Yes	
MW-34	10/10/00	627.70	629.37	608.97	598.97	NP	0.00	14.89	13.22	614.48	Yes	
MW-34	10/23/01	627.70	629.37	608.97	598.97	NP	0.00	15.09	13.42	614.28	Yes	
MW-34	04/23/02	627.70	629.37	608.97	598.97	NP	0.00	14.92	13.25	614.45	Yes	
MW-34	11/05/02	627.70	629.37	608.97	598.97	NP	0.00	13.15	11.48	616.22	Yes	
MW-34	04/17/03	627.70	629.37	608.97	598.97	NP	0.00	15.90	14.23	613.47	Yes	
MW-34	10/20/03	627.70	629.37	608.97	598.97	NP	0.00	15.64	13.97	613.73	Yes	
MW-34	04/19/04	627.72	629.45	608.97	598.97	NP	0.00	15.72	13.99	613.73	Yes	
MW-34	11/16/04	627.72	629.45	608.97	598.97	NP	0.00	13.47	11.74	615.98	Yes	
MW-34	04/18/05	627.72	629.45	608.97	598.97	NP	0.00	13.73	12.00	615.72	Yes	
MW-34	10/11/05	627.72	629.45	608.97	598.97	NP	0.00	13.51	11.78	615.94	Yes	
MW-34	05/23/06	627.72	629.45	608.97	598.97	NP	0.00	12.88	11.15	616.57	Yes	
MW-34	10/16/06	627.72	629.45	608.97	598.97	NP	0.00	14.99	13.26	614.46	Yes	
MW-34	04/23/07	627.72	629.45	608.97	598.97	NP	0.00	15.50	13.77	613.95	Yes	
MW-34	09/25/07	627.72	629.45	608.97	598.97	NP	0.00	15.42	13.69	614.03	Yes	
MW-34	05/01/08	627.72	629.45	608.97	598.97	NP	0.00	13.04	11.31	616.41	Yes	
MW-34	10/20/08	627.72	629.45	608.97	598.97	NP	0.00	12.76	11.03	616.69	Yes	
MW-34	04/18/09	627.72	629.45	608.97	598.97	NP	0.00	13.78	12.05	615.67	Yes	
MW-34	10/11/09	627.72	629.45	608.97	598.97	NP	0.00	14.88	13.15	614.57	Yes	
MW-34	04/28/10	627.72	629.45	608.97	598.97	NP	0.00	14.83	13.10	614.62	Yes	
MW-34	10/25/10	627.72	629.45	608.97	598.97	NP	0.00	13.44	11.71	616.01	Yes	
MW-34	04/25/11	627.72	629.45	608.97	598.97	NP	0.00	13.78	12.05	615.67	Yes	
MW-34	10/10/11	627.72	629.45	608.97	598.97	NP	0.00	13.99	12.26	615.46	Yes	
MW-34	01/04/12	627.72	629.45	608.97	598.97	NP	0.00	15.14	13.41	614.31	Yes	
MW-34	04/16/12	627.72	629.45	608.97	598.97	NP	0.00	15.78	14.05	613.67	Yes	
MW-34	06/26/12	627.72	629.45	608.97	598.97	NP	0.00	12.29	10.56	617.16	Yes	
MW-34	09/30/12	627.72	629.45	608.97	598.97	NP	0.00	14.82	13.09	614.63	Yes	
MW-34	12/17/12	627.72	629.45	608.97	598.97	NP	0.00	15.62	13.89	613.83	Yes	
MW-34	05/05/13	627.72	629.45	608.97	598.97	NP	0.00	15.64	13.91	613.81	Yes	
MW-34	10/01/13	627.72	629.45	608.97	598.97	NP	0.00	14.90	13.17	614.55	Yes	
MW-34	05/20/14	627.72	629.45	608.97	598.97	NP	0.00	11.74	10.01	617.71	Yes	
MW-34	10/29/14	627.72	629.45	608.97	598.97	NP	0.00	13.43	11.70	616.02	Yes	
MW-34	05/06/15	627.72	629.45	608.97	598.97	NP	0.00	14.58	12.85	614.87	Yes	

Table 2
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-34	10/06/15	627.72	629.45	608.97	598.97	NP	0.00	13.10	11.37	616.35	Yes	
MW-34	05/23/16	627.72	629.45	608.97	598.97	NP	0.00	12.02	10.29	617.43	Yes	
MW-34	10/03/16	627.72	629.45	608.97	598.97	NP	0.00	13.18	11.45	616.27	Yes	
MW-34	06/29/17	627.72	629.45	608.97	598.97	NP	0.00	12.71	10.98	616.74	Yes	
MW-35	08/06/91	637.20	639.58	619.08	609.08	NP	0.00	16.96	14.58	622.62	Yes	
MW-35	10/08/91	637.20	639.58	619.08	609.08	NP	0.00	16.85	14.47	622.73	Yes	
MW-35	01/07/92	637.20	639.58	619.08	609.08	NP	0.00	17.28	14.90	622.30	Yes	
MW-35	10/14/92	637.20	639.58	619.08	609.08	NP	0.00	17.59	15.21	621.99	Yes	
MW-35	06/25/93	637.20	639.58	619.08	609.08	NP	0.00	14.39	12.01	625.19	Yes	
MW-35	10/28/93	637.20	639.58	619.08	609.08	NP	0.00	18.09	15.71	621.49	Yes	
MW-35	01/29/94	637.20	639.58	619.08	609.08	NP	0.00	19.41	17.03	620.17	Yes	
MW-35	04/27/94	637.20	639.58	619.08	609.08	NP	0.00	17.43	15.05	622.15	Yes	
MW-35	07/21/94	637.20	639.58	619.08	609.08	NP	0.00	17.35	14.97	622.23	Yes	
MW-35	10/25/94	637.20	639.58	619.08	609.08	NP	0.00	17.35	14.97	622.23	Yes	
MW-35	10/28/94	637.20	639.58	619.08	609.08	NP	0.00	16.93	14.55	622.65	Yes	
MW-35	02/01/95	637.20	639.58	619.08	609.08	NP	0.00	19.91	17.53	619.67	Yes	
MW-35	04/04/95	637.20	639.58	619.08	609.08	NP	0.00	20.35	17.97	619.23	Yes	
MW-35	07/12/95	637.20	639.58	619.08	609.08	NP	0.00	18.88	16.50	620.70	Yes	
MW-35	11/13/95	637.20	639.58	619.08	609.08	NP	0.00	17.05	14.67	622.53	Yes	
MW-35	03/13/96	637.20	639.58	619.08	609.08	NP	0.00	20.22	17.84	619.36	Yes	
MW-35	04/22/96	637.20	639.58	619.08	609.08	NP	0.00	17.12	14.74	622.46	Yes	
MW-35	10/08/96	637.20	639.58	619.08	609.08	NP	0.00	16.83	14.45	622.75	Yes	
MW-35	04/29/97	637.20	639.58	619.08	609.08	NP	0.00	13.95	11.57	625.63	Yes	
MW-35	11/03/98	637.20	639.58	619.08	609.08	NP	0.00	19.91	17.53	619.67	Yes	
MW-35	03/02/99	637.20	639.58	619.08	609.08	NP	0.00	21.59	19.21	617.99	No	
MW-35	04/26/00	637.20	639.58	619.08	609.08	NP	0.00	18.59	16.21	620.99	Yes	
MW-35	10/10/00	637.20	639.58	619.08	609.08	NP	0.00	21.90	19.52	617.68	No	
MW-35	10/23/01	637.20	639.58	619.08	609.08	NP	0.00	20.22	17.84	619.36	Yes	
MW-35	01/22/02	637.20	641.16	619.08	609.08	NP	0.00	22.09	18.13	619.07	No	
MW-35	02/26/02	637.20	641.16	619.08	609.08	NP	0.00	22.85	18.89	618.31	No	
MW-35	03/20/02	637.20	641.16	619.08	609.08	NP	0.00	23.07	19.11	618.09	No	
MW-35	04/23/02	637.20	641.16	619.08	609.08	NP	0.00	21.59	17.63	619.57	Yes	
MW-35	05/15/02	637.20	639.58	619.08	609.08	NP	0.00	18.47	16.09	621.11	Yes	
MW-35	08/20/02	637.20	639.58	619.08	609.08	NP	0.00	19.30	16.92	620.28	Yes	
MW-35	09/30/02	637.20	639.58	619.08	609.08	NP	0.00	18.78	16.40	620.80	Yes	
MW-35	11/05/02	637.20	639.58	619.08	609.08	NP	0.00	19.82	17.44	619.76	Yes	
MW-35	12/23/02	637.20	639.58	619.08	609.08	NP	0.00	21.83	19.45	617.75	No	
MW-35	01/28/03	637.20	639.58	619.08	609.08	NP	0.00	22.56	20.18	617.02	No	
MW-35	02/19/03	637.20	639.58	619.08	609.08	NP	0.00	23.12	20.74	616.46	No	
MW-35	04/17/03	637.20	639.58	619.08	609.08	NP	0.00	21.72	19.34	617.86	No	
MW-35	06/10/03	637.20	641.16	619.08	609.08	NP	0.00	22.07	18.11	619.09	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MW-35	10/20/03	637.20	641.16	619.08	609.08	NP	0.00	21.27	17.31	619.89	Yes	
MW-35	12/03/03	637.20	641.16	619.08	609.08	NP	0.00	23.21	19.25	617.95	No	
MW-35	04/19/04	637.55	639.74	619.08	609.08	NP	0.00	23.41	21.22	616.33	No	
MW-35	07/28/04	637.55	639.74	619.08	609.08	NP	0.00	20.06	17.87	619.68	Yes	
MW-35	11/16/04	637.55	639.74	619.08	609.08	NP	0.00	20.68	18.49	619.06	No	
MW-35	04/18/05	637.55	639.74	619.08	609.08	NP	0.00	21.63	19.44	618.11	No	
MW-35	10/11/05	637.55	639.74	619.08	609.08	NP	0.00	19.12	16.93	620.62	Yes	
MW-35	05/23/06	637.55	639.74	619.08	609.08	NP	0.00	17.97	15.78	621.77	Yes	
MW-35	10/16/06	637.55	639.74	619.08	609.08	NP	0.00	19.97	17.78	619.77	Yes	
MW-35	04/23/07	637.55	639.74	619.08	609.08	NP	0.00	21.26	19.07	618.48	No	
MW-35	09/25/07	637.55	639.74	619.08	609.08	NP	0.00	20.70	18.51	619.04	No	
MW-35	05/01/08	637.55	639.74	619.08	609.08	NP	0.00	18.73	16.54	621.01	Yes	
MW-35	10/20/08	637.55	639.74	619.08	609.08	NP	0.00	17.16	14.97	622.58	Yes	
MW-35	04/18/09	637.55	639.74	619.08	609.08	NP	0.00	19.34	17.15	620.40	Yes	
MW-35	10/11/09	637.55	639.74	619.08	609.08	NP	0.00	20.20	18.01	619.54	Yes	
MW-35	04/28/10	637.55	639.74	619.08	609.08	NP	0.00	20.26	18.07	619.48	Yes	
MW-35	10/25/10	637.55	639.74	619.08	609.08	NP	0.00	18.24	16.05	621.50	Yes	
MW-35	04/25/11	637.55	639.74	619.08	609.08	NP	0.00	19.61	17.42	620.13	Yes	
MW-35	10/10/11	637.55	639.74	619.08	609.08	NP	0.00	19.75	17.56	619.99	Yes	
MW-35	01/04/12	637.55	639.74	619.08	609.08	NP	0.00	21.18	18.99	618.56	No	
MW-35	04/16/12	637.55	639.74	619.08	609.08	NP	0.00	21.24	19.05	618.50	No	
MW-35	06/26/12	637.55	639.74	619.08	609.08	NP	0.00	17.50	15.31	622.24	Yes	
MW-35	09/30/12	637.55	639.74	619.08	609.08	NP	0.00	21.04	18.85	618.70	No	
MW-35	12/17/12	637.55	639.74	619.08	609.08	NP	0.00	21.53	19.34	618.21	No	
MW-35	03/25/13	637.55	639.74	619.08	609.08	NP	0.00	22.92	20.73	616.82	No	
MW-35	05/05/13	637.55	639.74	619.08	609.08	NP	0.00	21.67	19.48	618.07	No	
MW-35	10/01/13	637.55	639.74	619.08	609.08	NP	0.00	21.10	18.91	618.64	No	
MW-35	05/20/14	637.55	639.74	619.08	609.08	NP	0.00	18.50	16.31	621.24	Yes	
MW-35	10/29/14	637.55	639.74	619.08	609.08	NP	0.00	19.17	16.98	620.57	Yes	
MW-35	05/06/15	637.55	639.74	619.08	609.08	NP	0.00	21.75	19.56	617.99	No	
MW-35	10/06/15	637.55	639.74	619.08	609.08	NP	0.00	18.80	16.61	620.94	Yes	
MW-35	05/23/16	637.55	639.74	619.08	609.08	NP	0.00	16.94	14.75	622.80	Yes	
MW-35	10/03/16	637.55	639.74	619.08	609.08	NP	0.00	18.34	16.15	621.40	Yes	
MW-35	06/29/17	637.55	639.74	619.08	609.08	NP	0.00	17.96	15.77	621.78	Yes	
MW-47	10/03/16	630.30	632.46	618.30	608.30	NP	0.00	16.08	13.92	616.38	No	
MW-47	06/29/17	630.30	632.46	618.30	608.30	NP	0.00	15.90	13.74	616.56	No	
MWT-2S	10/21/03	630.07	632.65	620.70	605.70	NP	0.00	18.76	16.18	613.89	No	
MWT-2S	01/20/04	630.07	632.65	620.70	605.70	NP	0.00	19.35	16.77	613.30	No	
MWT-2S	04/19/04	630.07	632.65	620.70	605.70	NP	0.00	19.04	16.46	613.61	No	
MWT-2S	07/27/04	630.07	632.65	620.70	605.70	NP	0.00	17.71	15.13	614.94	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MWT-2S	11/16/04	630.07	632.65	620.70	605.70	NP	0.00	16.60	14.02	616.05	No	
MWT-2S	04/18/05	630.07	632.65	620.70	605.70	NP	0.00	16.65	14.07	616.00	No	
MWT-2S	10/11/05	630.07	632.65	620.70	605.70	NP	0.00	16.16	13.58	616.49	No	
MWT-2S	05/23/06	630.07	632.65	620.70	605.70	NP	0.00	15.07	12.49	617.58	No	
MWT-2S	10/16/06	630.07	632.65	620.70	605.70	NP	0.00	17.93	15.35	614.72	No	
MWT-2S	04/23/07	630.07	632.65	620.70	605.70	NP	0.00	18.46	15.88	614.19	No	
MWT-2S	09/25/07	630.07	632.52	620.70	605.70	NP	0.00	18.42	15.97	614.10	No	
MWT-2S	05/01/08	630.07	632.52	620.70	605.70	NP	0.00	15.80	13.35	616.72	No	
MWT-2S	10/20/08	630.07	632.52	620.70	605.70	NP	0.00	14.78	12.33	617.74	No	
MWT-2S	08/31/11	630.07	632.52	620.70	605.70	NP	0.00	14.77	12.32	617.75	No	
MWT-2S	10/10/11	630.07	632.52	620.70	605.70	NP	0.00	16.23	13.78	616.29	No	
MWT-2S	01/04/12	630.07	632.52	620.70	605.70	NP	0.00	17.75	15.30	614.77	No	
MWT-2S	04/16/12	630.07	632.52	620.70	605.70	NP	0.00	18.29	15.84	614.23	No	
MWT-2S	06/26/12	630.07	632.52	620.70	605.70	NP	0.00	13.47	11.02	619.05	No	
MWT-2S	09/30/12	630.07	632.52	620.70	605.70	NP	0.00	17.39	14.94	615.13	No	
MWT-2S	12/17/12	630.07	632.52	620.70	605.70	NP	0.00	18.29	15.84	614.23	No	
MWT-2S	03/25/13	630.07	632.52	620.70	605.70	NP	0.00	19.21	16.76	613.31	No	
MWT-2S	05/05/13	630.07	632.52	620.70	605.70	NP	0.00	18.26	15.81	614.26	No	
MWT-2S	05/20/14	630.07	632.52	620.70	605.70	NP	0.00	14.30	11.85	618.22	No	
MWT-2S	10/31/14	630.07	632.52	620.70	605.70	NP	0.00	15.89	13.44	616.63	No	
MWT-2S	05/06/15	630.07	632.52	620.70	605.70	NP	0.00	17.21	14.76	615.31	No	
MWT-2S	10/05/15	630.07	632.52	620.70	605.70	NP	0.00	15.64	13.19	616.88	No	
MWT-2S	05/23/16	630.07	632.52	620.70	605.70	NP	0.00	13.09	10.64	619.43	No	
MWT-2S	10/03/16	630.07	632.52	620.70	605.70	NP	0.00	15.30	12.85	617.22	No	
MWT-2S	06/29/17	630.07	632.52	620.70	605.70	NP	0.00	14.16	11.71	618.36	No	
MWT-2D	10/21/03	630.05	632.47	577.85	572.85	NP	0.00	19.79	17.37	612.68	Yes	
MWT-2D	01/20/04	630.05	632.47	577.85	572.85	NP	0.00	20.45	18.03	612.02	Yes	
MWT-2D	04/19/04	630.05	632.47	577.85	572.85	NP	0.00	19.94	17.52	612.53	Yes	
MWT-2D	07/27/04	630.05	632.47	577.85	572.85	NP	0.00	18.99	16.57	613.48	Yes	
MWT-2D	11/16/04	630.05	632.47	577.85	572.85	NP	0.00	18.14	15.72	614.33	Yes	
MWT-2D	04/18/05	630.05	632.47	577.85	572.85	NP	0.00	18.46	16.04	614.01	Yes	
MWT-2D	10/11/05	630.05	632.47	577.85	572.85	NP	0.00	17.79	15.37	614.68	Yes	
MWT-2D	05/23/06	630.05	632.47	577.85	572.85	NP	0.00	17.18	14.76	615.29	Yes	
MWT-2D	10/16/06	630.05	632.47	577.85	572.85	NP	0.00	18.96	16.54	613.51	Yes	
MWT-2D	04/23/07	630.05	632.47	577.85	572.85	NP	0.00	19.37	16.95	613.10	Yes	
MWT-2D	05/01/08	630.05	632.47	577.85	572.85	NP	0.00	17.60	15.18	614.87	Yes	
MWT-2D	10/20/08	630.05	632.47	577.85	572.85	NP	0.00	16.59	14.17	615.88	Yes	
MWT-2D	08/31/11	630.05	632.47	577.85	572.85	NP	0.00	16.47	14.05	616.00	Yes	
MWT-2D	10/10/11	630.05	632.47	577.85	572.85	NP	0.00	17.69	15.27	614.78	Yes	
MWT-2D	01/04/12	630.05	632.47	577.85	572.85	NP	0.00	18.99	16.57	613.48	Yes	
MWT-2D	04/16/12	630.05	632.47	577.85	572.85	NP	0.00	19.23	16.81	613.24	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MWT-2D	06/26/12	630.05	632.47	577.85	572.85	NP	0.00	16.02	13.60	616.45	Yes	
MWT-2D	09/30/12	630.05	632.47	577.85	572.85	NP	0.00	18.76	16.34	613.71	Yes	
MWT-2D	12/17/12	630.05	632.47	577.85	572.85	NP	0.00	19.37	16.95	613.10	Yes	
MWT-2D	03/25/13	630.05	632.47	577.85	572.85	NP	0.00	20.27	17.85	612.20	Yes	
MWT-2D	10/03/13	630.05	632.47	577.85	572.85	NP	0.00	18.93	16.51	613.54	Yes	
MWT-2D	05/21/14	630.05	632.47	577.85	572.85	NP	0.00	16.53	14.11	615.94	Yes	
MWT-2D	10/30/14	630.05	632.47	577.85	572.85	NP	0.00	17.08	14.66	615.39	Yes	
MWT-2D	05/05/15	630.05	632.47	577.85	572.85	NP	0.00	18.63	16.21	613.84	Yes	
MWT-2D	10/07/15	630.05	632.47	577.85	572.85	NP	0.00	17.02	14.60	615.45	Yes	
MWT-2D	05/23/16	630.05	632.47	577.85	572.85	NP	0.00	15.38	12.96	617.09	Yes	
MWT-2D	10/03/16	630.05	632.47	577.85	572.85	NP	0.00	16.52	14.10	615.95	Yes	
MWT-2D	06/14/17	630.05	632.47	577.85	572.85	NP	0.00	15.47	13.05	617.00	Yes	
MWT-6	10/23/03	635.01	637.51	623.01	613.01	21.98	0.59	22.57	19.61	615.40	No	
MWT-6	04/19/04	635.01	637.51	623.01	613.01	22.03	1.93	23.96	19.97	615.04	No	
MWT-6	11/15/04	635.01	637.51	623.01	613.01	20.34	1.71	22.05	18.23	616.78	No	
MWT-6	04/18/05	635.01	637.51	623.01	613.01	20.35	3.59	23.94	18.66	616.35	No	
MWT-6	10/11/05	635.01	637.51	623.01	613.01	NP	0.00	20.20	17.70	617.31	No	
MWT-6	05/23/06	635.01	637.51	623.01	613.01	NP	0.00	19.50	17.00	618.01	No	Sheen
MWT-6	10/16/06	635.01	637.51	623.01	613.01	20.56	0.12	20.68	18.09	616.92	No	Sheen
MWT-6	04/23/07	635.01	637.51	623.01	613.01	21.61	0.21	21.82	19.16	615.85	No	
MWT-6	09/25/07	635.01	637.40	623.01	613.01	21.56	3.45	25.01	19.95	615.06	No	
MWT-6	05/01/08	635.01	637.40	623.01	613.01	21.33	1.11	22.44	19.19	615.82	No	
MWT-6	10/20/08	635.01	637.40	623.01	613.01	NP	0.00	19.99	17.60	617.41	No	WT rise
MWT-6	04/18/09	635.01	637.40	623.01	613.01	NP	0.00	20.67	18.28	616.73	No	
MWT-6	08/04/09	635.01	637.40	623.01	613.01	NP	0.00	21.05	18.66	616.35	No	
MWT-6	08/05/09	635.01	637.40	623.01	613.01	NP	0.00	21.05	18.66	616.35	No	
MWT-6	08/13/09	635.01	637.40	623.01	613.01	NP	0.00	21.03	18.64	616.37	No	
MWT-6	08/18/09	635.01	637.40	623.01	613.01	NP	0.00	21.05	18.66	616.35	No	
MWT-6	08/26/09	635.01	637.40	623.01	613.01	NP	0.00	20.95	18.56	616.45	No	
MWT-6	09/03/09	635.01	637.40	623.01	613.01	NP	0.00	20.75	18.36	616.65	No	
MWT-6	09/08/09	635.01	637.40	623.01	613.01	NP	0.00	20.69	18.30	616.71	No	
MWT-6	09/14/09	635.01	637.40	623.01	613.01	NP	0.00	20.64	18.25	616.76	No	
MWT-6	10/11/09	635.01	637.40	623.01	613.01	NP	0.00	21.09	18.70	616.31	No	
MWT-6	10/15/09	635.01	637.40	623.01	613.01	NP	0.00	21.09	18.70	616.31	No	
MWT-6	04/28/10	635.01	637.40	623.01	613.01	NP	0.00	21.35	18.96	616.05	No	
MWT-6	10/25/10	635.01	637.40	623.01	613.01	NP	0.00	19.28	16.89	618.12	No	
MWT-6	04/25/11	635.01	637.40	623.01	613.01	NP	0.00	20.41	18.02	616.99	No	
MWT-6	09/14/11	635.01	637.40	623.01	613.01	NP	0.00	19.43	17.04	617.97	No	
MWT-6	09/23/11	635.01	637.40	623.01	613.01	NP	0.00	19.52	17.13	617.88	No	
MWT-6	09/29/11	635.01	637.40	623.01	613.01	NP	0.00	19.41	17.02	617.99	No	
MWT-6	10/10/11	635.01	637.40	623.01	613.01	NP	0.00	19.62	17.23	617.78	No	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
MWT-6	10/21/11	635.01	637.40	623.01	613.01	NP	0.00	19.97	17.58	617.43	No	
MWT-6	10/21/11	635.01	637.40	623.01	613.01	NP	0.00	20.08	17.69	617.32	No	
MWT-6	11/03/11	635.01	637.40	623.01	613.01	NP	0.00	20.23	17.84	617.17	No	
MWT-6	11/09/11	635.01	637.40	623.01	613.01	NP	0.00	20.22	17.83	617.18	No	
MWT-6	11/13/11	635.01	637.40	623.01	613.01	NP	0.00	20.31	17.92	617.09	No	
MWT-6	11/22/11	635.01	637.40	623.01	613.01	NP	0.00	20.42	18.03	616.98	No	
MWT-6	12/01/11	635.01	637.40	623.01	613.01	NP	0.00	20.68	18.29	616.72	No	
MWT-6	01/04/12	635.01	637.40	623.01	613.01	NP	0.00	20.98	18.59	616.42	No	
MWT-6	02/16/12	635.01	637.40	623.01	613.01	NP	0.00	21.56	19.17	615.84	No	
MWT-6	03/13/12	635.01	637.40	623.01	613.01	21.92	0.06	21.98	19.54	615.47	No	
MWT-6	04/16/12	635.01	637.40	623.01	613.01	NP	0.00	21.85	19.46	615.55	No	
MWT-6	06/26/12	635.01	637.40	623.01	613.01	NP	0.00	19.99	17.60	617.41	No	
MWT-6	07/24/12	635.01	637.40	623.01	613.01	NP	0.00	20.17	17.78	617.23	No	
MWT-6	08/19/12	635.01	637.40	623.01	613.01	NP	0.00	20.41	18.02	616.99	No	
MWT-6	09/17/12	635.01	637.40	623.01	613.01	NP	0.00	20.77	18.38	616.63	No	
MWT-6	09/30/12	635.01	637.40	623.01	613.01	NP	0.00	20.92	18.53	616.48	No	
MWT-6	11/21/12	635.01	637.40	623.01	613.01	NP	0.00	21.54	19.15	615.86	No	
MWT-6	12/17/12	635.01	637.40	623.01	613.01	NP	0.00	21.79	19.40	615.61	No	
MWT-6	03/25/13	635.01	637.40	623.01	613.01	22.71	0.09	22.80	20.34	614.67	No	
MWT-6	05/05/13	635.01	637.40	623.01	613.01	NP	0.00	22.51	20.12	614.89	No	
MWT-6	10/01/13	635.01	637.40	623.01	613.01	NP	0.00	21.75	19.36	615.65	No	
MWT-6	05/21/14	635.01	637.40	623.01	613.01	NP	0.00	20.78	18.39	616.62	No	
MWT-6	10/30/14	635.01	637.40	623.01	613.01	NP	0.00	19.35	16.96	618.05	No	
MWT-6	05/06/15	635.01	637.40	623.01	613.01	NP	0.00	21.37	18.98	616.03	No	
MWT-6	10/06/15	635.01	637.40	623.01	613.01	NP	0.00	19.82	17.43	617.58	No	
MWT-6	05/23/16	635.01	637.40	623.01	613.01	NP	0.00	17.19	14.80	620.21	No	
MWT-6	10/03/16	635.01	637.40	623.01	613.01	18.63	0.10	18.73	16.26	618.75	No	
MWT-6	06/14/17	635.01	637.40	623.01	613.01	NP	0.00	16.22	13.83	621.18	No	
MWT-6	06/21/17	635.01	637.40	623.01	613.01	NP	0.00	17.76	15.37	619.64	No	
MWT-6	06/22/17	635.01	637.40	623.01	613.01	NP	0.00	17.57	15.18	619.83	No	
MWT-6	06/23/17	635.01	637.40	623.01	613.01	NP	0.00	17.65	15.26	619.75	No	
RW-01	08/28/89	634.80	637.68	618.80	593.80	19.12	0.00	19.12	16.24	618.56	No	
RW-01	11/28/89	634.80	637.68	618.80	593.80	20.62	3.66	24.28	18.57	616.23	No	
RW-01	12/01/89	634.80	637.68	618.80	593.80	20.84	3.32	24.16	18.71	616.09	No	
RW-01	12/02/89	634.80	637.68	618.80	593.80	21.11	2.14	23.25	18.71	616.09	No	
RW-01	05/04/90	634.80	637.68	618.80	593.80	20.35	8.40	28.75	19.37	615.43	No	
RW-01	06/19/90	634.80	637.68	618.80	593.80	20.03	7.05	27.08	18.74	616.06	No	
RW-01	06/27/90	634.80	637.68	618.80	593.80	20.15	6.97	27.12	18.84	615.96	No	
RW-01	07/05/90	634.80	637.68	618.80	593.80	20.26	7.28	27.54	19.02	615.78	No	
RW-01	07/13/90	634.80	637.68	618.80	593.80	20.10	7.88	27.98	19.00	615.80	No	
RW-01	07/17/90	634.80	637.68	618.80	593.80	19.94	8.19	28.13	18.91	615.89	No	

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RW-01	07/25/90	634.80	637.68	618.80	593.80	20.10	8.39	28.49	19.12	615.68	No	
RW-01	08/09/90	634.80	637.68	618.80	593.80	20.02	7.08	27.10	18.74	616.06	No	
RW-01	09/06/90	634.80	637.68	618.80	593.80	19.90	6.28	26.18	18.44	616.36	No	
RW-01	01/04/91	634.80	637.68	618.80	593.80	19.31	8.65	27.96	18.38	616.42	No	
RW-01	01/30/91	634.80	637.68	618.80	593.80	21.69	9.57	31.26	20.97	613.83	No	
RW-01	04/24/91	634.80	637.68	618.80	593.80	22.20	6.06	28.26	20.69	614.11	No	
RW-01	06/06/91	634.80	637.68	618.80	593.80	23.30	1.20	24.50	20.69	614.11	No	
RW-01	07/09/91	634.80	637.68	618.80	593.80	20.45	2.63	23.08	18.16	616.64	No	
RW-01	08/06/91	634.80	637.68	618.80	593.80	19.63	2.54	22.17	17.32	617.48	No	
RW-01	09/04/91	634.80	637.68	618.80	593.80	19.87	1.76	21.63	17.39	617.41	No	
RW-01	10/08/91	634.80	637.68	618.80	593.80	18.75	3.60	22.35	16.68	618.12	No	
RW-01	11/08/91	634.80	637.68	618.80	593.80	19.64	1.95	21.59	17.20	617.60	No	
RW-01	12/03/91	634.80	637.68	618.80	593.80	17.55	3.05	20.60	15.36	619.44	Yes	
RW-01	01/07/92	634.80	637.68	618.80	593.80	19.42	1.84	21.26	16.96	617.84	No	
RW-01	02/04/92	634.80	637.68	618.80	593.80	20.45	1.20	21.65	17.84	616.96	No	
RW-01	03/03/92	634.80	637.68	618.80	593.80	20.92	1.20	22.12	18.31	616.49	No	
RW-01	09/24/92	634.80	637.68	618.80	593.80	18.43	2.38	20.81	16.09	618.71	No	
RW-01	10/14/92	634.80	637.68	618.80	593.80	19.52	2.39	21.91	17.18	617.62	No	
RW-01	06/25/93	634.80	637.68	618.80	593.80	16.35	1.66	18.01	13.84	620.96	Yes	
RW-01	07/21/93	634.80	637.68	618.80	593.80	16.84	1.09	17.93	14.21	620.59	Yes	
RW-01	08/17/93	634.80	637.68	618.80	593.80	18.42	3.67	22.09	16.37	618.43	No	
RW-01	09/09/93	634.80	637.68	618.80	593.80	18.96	3.18	22.14	16.80	618.00	No	
RW-01	10/28/93	634.80	637.68	618.80	593.80	19.72	2.02	21.74	17.30	617.50	No	
RW-01	11/24/93	634.80	637.68	618.80	593.80	20.53	1.39	21.92	17.96	616.84	No	
RW-01	12/17/93	634.80	637.68	618.80	593.80	20.40	1.50	21.90	17.86	616.94	No	
RW-01	01/29/94	634.80	637.68	618.80	593.80	20.91	1.14	22.05	18.29	616.51	No	
RW-01	02/25/94	634.80	637.68	618.80	593.80	20.84	3.59	24.43	18.77	616.03	No	
RW-01	03/24/94	634.80	637.68	618.80	593.80	21.36	1.04	22.40	18.71	616.09	No	
RW-01	04/27/94	634.80	637.68	618.80	593.80	20.34	2.35	22.69	17.99	616.81	No	
RW-01	05/26/94	634.80	637.68	618.80	593.80	19.39	2.05	21.44	16.97	617.83	No	
RW-01	06/29/94	634.80	637.68	618.80	593.80	18.85	2.10	20.95	16.44	618.36	No	
RW-01	07/27/94	634.80	637.68	618.80	593.80	18.96	2.56	21.52	16.66	618.14	No	
RW-01	08/30/94	634.80	637.68	618.80	593.80	20.32	2.39	22.71	17.98	616.82	No	
RW-01	10/25/94	634.80	637.68	618.80	593.80	19.58	2.55	22.13	17.28	617.52	No	
RW-01	11/02/94	634.80	637.68	618.80	593.80	19.40	0.00	19.40	16.52	618.28	No	
RW-01	04/04/95	634.80	637.68	618.80	593.80	21.60	2.30	23.90	19.24	615.56	No	
RW-01	07/12/95	634.80	637.68	618.80	593.80	20.76	0.22	20.98	17.93	616.87	No	
RW-01	11/14/95	634.80	637.68	618.80	593.80	18.89	2.66	21.55	16.61	618.19	No	
RW-01	03/13/96	634.80	637.68	618.80	593.80	20.70	6.40	27.10	19.27	615.53	No	
RW-01	05/28/96	634.80	637.68	618.80	593.80	18.96	0.06	19.02	16.09	618.71	No	
RW-01	10/08/96	634.80	637.68	618.80	593.80	18.26	0.14	18.40	15.41	619.39	Yes	
RW-01	04/29/97	634.80	637.68	618.80	593.80	16.65	2.55	19.20	14.35	620.45	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-01	06/10/97	634.80	637.68	618.80	593.80	18.62	0.03	18.65	15.75	619.05	Yes	FP bailed 5/22/97
RW-01	11/03/98	634.80	637.68	618.80	593.80	20.81	7.93	28.74	19.72	615.08	No	
RW-01	10/07/99	634.80	637.68	618.80	593.80	17.80	2.92	20.72	15.58	619.22	Yes	
RW-01	11/09/99	634.80	637.68	618.80	593.80	17.72	1.60	19.32	15.20	619.60	Yes	Ferret pump installed
RW-01	12/21/99	634.80	637.68	618.80	593.80	19.65	1.85	21.50	17.19	617.61	No	bailed 20 gal. FP
RW-01	01/27/00	634.80	637.68	618.80	593.80	20.28	2.37	22.65	17.94	616.86	No	Ferret pump operating
RW-01	02/24/00	634.80	637.68	618.80	593.80	20.53	1.05	21.58	17.89	616.91	No	bailed 2 gal. FP
RW-01	03/31/00	634.80	637.68	618.80	593.80	20.71	2.39	23.10	18.37	616.43	No	bailed 3 gal. FP/ instl. pump
RW-01	04/20/00	634.80	637.68	618.80	593.80	20.55	1.20	21.75	17.94	616.86	No	Ferret pump operating
RW-01	04/26/00	634.80	637.68	618.80	593.80	20.40	2.00	22.40	17.97	616.83	No	bailed 5 gal. FP
RW-01	05/31/00	634.80	637.68	618.80	593.80	20.76	1.09	21.85	18.13	616.67	No	bailed 3 gal. FP -instl. Skmmr.
RW-01	06/29/00	634.80	637.68	618.80	593.80	20.37	1.67	22.04	17.87	616.93	No	bailed 4 gal. FP
RW-01	07/26/00	634.80	637.68	618.80	593.80	20.55	1.47	22.02	18.00	616.80	No	bailed 2 gal. FP
RW-01	08/18/00	634.80	637.68	618.80	593.80	20.30	0.55	20.85	17.54	617.26	No	bailed 1 gal. FP- installed skimmer
RW-01	09/27/00	634.80	637.68	618.80	593.80	20.91	3.70	24.61	18.87	615.93	No	skimmer down-bailed 25 gal.FP
RW-01	10/11/00	634.80	637.68	618.80	593.80	20.90	3.55	24.45	18.82	615.98	No	skimmer down-bailed 24 gal.FP
RW-01	11/17/00	634.80	637.68	618.80	593.80	20.74	4.26	25.00	18.82	615.98	No	skimmer down-bailed 27 gal.FP
RW-01	12/12/00	634.80	637.68	618.80	593.80	20.85	3.31	24.16	18.72	616.08	No	skimmer down-bailed 15 gal.FP
RW-01	01/18/01	634.80	637.68	618.80	593.80	21.18	3.16	24.34	19.01	615.79	No	skimmer down-bailed 12 gal.FP
RW-01	04/24/01	634.80	637.68	618.80	593.80	20.81	4.12	24.93	18.86	615.94	No	product abated using vactruck
RW-01	05/23/01	634.80	637.68	618.80	593.80	20.81	0.00	20.81	17.93	616.87	No	skimmer pump operating
RW-01	06/19/01	634.80	637.68	618.80	593.80	20.04	0.20	20.24	17.21	617.59	No	
RW-01	07/26/01	634.80	637.68	618.80	593.80	20.74	0.05	20.79	17.87	616.93	No	
RW-01	08/31/01	634.80	637.68	618.80	593.80	21.11	0.27	21.38	18.29	616.51	No	
RW-01	09/26/01	634.80	637.68	618.80	593.80	21.26	0.86	22.12	18.57	616.23	No	
RW-01	10/24/01	634.80	637.68	618.80	593.80	21.02	2.88	23.90	18.79	616.01	No	
RW-01	12/20/01	634.80	637.68	618.80	593.80	21.19	4.70	25.89	19.37	615.43	No	
RW-01	01/22/02	634.80	637.68	618.80	593.80	21.34	4.73	26.07	19.53	615.27	No	
RW-01	02/26/02	634.80	637.68	618.80	593.80	21.57	7.25	28.82	20.33	614.47	No	
RW-01	03/20/02	634.80	637.68	618.80	593.80	21.84	5.76	27.60	20.26	614.54	No	
RW-01	04/24/02	634.80	637.68	618.80	593.80	21.06	5.93	26.99	19.52	615.28	No	
RW-01	05/15/02	634.80	637.68	618.80	593.80	20.88	4.61	25.49	19.04	615.76	No	
RW-01	06/27/02	634.80	637.68	618.80	593.80	21.04	2.66	23.70	18.76	616.04	No	
RW-01	07/25/02	634.80	637.68	618.80	593.80	NP	0.00	21.53	18.65	616.15	No	
RW-01	08/20/02	634.80	637.68	618.80	593.80	20.81	1.69	22.50	18.31	616.49	No	
RW-01	09/30/02	634.80	637.68	618.80	593.80	20.78	0.10	20.88	17.92	616.88	No	
RW-01	11/05/02	634.80	637.68	618.80	593.80	20.38	0.22	20.60	17.55	617.25	No	
RW-01	12/23/02	634.80	637.68	618.80	593.80	21.51	0.10	21.61	18.65	616.15	No	
RW-01	01/28/03	634.80	637.68	618.80	593.80	22.02	0.36	22.38	19.22	615.58	No	
RW-01	02/19/03	634.80	637.68	618.80	593.80	22.46	0.05	22.51	19.59	615.21	No	
RW-01	03/13/03	634.80	637.68	618.80	593.80	22.07	4.64	26.71	20.24	614.56	No	
RW-01	04/17/03	634.80	637.68	618.80	593.80	22.90	0.06	22.96	20.03	614.77	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-01	05/15/03	634.80	637.68	618.80	593.80	22.87	0.51	23.38	20.11	614.69	No	
RW-01	06/10/03	634.80	637.68	618.80	593.80	22.30	0.98	23.28	19.64	615.16	No	
RW-01	07/07/03	634.80	637.68	618.80	593.80	22.08	1.43	23.51	19.52	615.28	No	
RW-01	07/30/03	634.80	637.68	618.80	593.80	21.71	1.69	23.40	19.21	615.59	No	
RW-01	07/31/03	634.80	637.68	618.80	593.80	21.97	0.63	22.60	19.23	615.57	No	
RW-01	09/08/03	634.80	637.68	618.80	593.80	22.21	2.76	24.97	19.95	614.85	No	
RW-01	10/02/03	634.80	637.68	618.80	593.80	22.83	0.03	22.86	19.96	614.84	No	
RW-01	10/23/03	634.80	637.68	618.80	593.80	NP	0.00	22.92	20.04	614.76	No	
RW-01	12/03/03	634.80	637.68	618.80	593.80	23.04	0.14	23.18	20.19	614.61	No	
RW-01	01/20/04	634.80	637.68	618.80	593.80	23.27	0.23	23.50	20.44	614.36	No	removed skimming pump
RW-01	02/24/04	634.80	637.68	618.80	593.80	22.94	3.54	26.48	20.86	613.94	No	
RW-01	04/19/04	634.77	637.50	618.80	593.80	22.57	5.42	27.99	21.06	613.71	No	
RW-01	07/28/04	634.77	637.50	618.80	593.80	21.87	2.21	24.08	19.64	615.13	No	
RW-01	11/15/04	634.77	637.50	618.80	593.80	20.91	1.72	22.63	18.57	616.20	No	
RW-01	04/18/05	634.77	637.50	618.80	593.80	21.31	4.30	25.61	19.55	615.22	No	
RW-01	10/11/05	634.77	637.50	618.80	593.80	20.74	2.14	22.88	18.49	616.28	No	
RW-01	05/23/06	634.77	637.50	618.80	593.80	19.70	3.77	23.47	17.82	616.95	No	
RW-01	10/16/06	634.77	637.50	618.80	593.80	21.31	4.58	25.89	19.61	615.16	No	
RW-01	04/23/07	634.77	637.50	618.80	593.80	21.75	8.17	29.92	20.87	613.90	No	
RW-01	09/25/07	634.77	637.50	618.80	593.80	20.72	10.27	30.99	20.31	614.46	No	
RW-01	05/01/08	634.77	637.50	618.80	593.80	20.65	2.60	23.25	18.51	616.26	No	
RW-01	10/20/08	634.77	637.50	618.80	593.80	19.10	2.39	21.49	16.91	617.86	No	
RW-01	04/18/09	634.77	637.50	618.80	593.80	19.30	3.53	22.83	17.37	617.40	No	
RW-01	08/04/09	634.77	637.50	618.80	593.80	20.92	2.58	23.50	18.77	616.00	No	
RW-01	08/05/09	634.77	637.50	618.80	593.80	20.10	1.76	21.86	17.77	617.00	No	
RW-01	08/26/09	634.77	637.50	618.80	593.80	18.82	1.68	20.50	16.47	618.30	No	
RW-01	09/03/09	634.77	637.50	618.80	593.80	19.12	1.68	20.80	16.77	618.00	No	
RW-01	09/08/09	634.77	637.50	618.80	593.80	19.13	1.69	20.82	16.78	617.99	No	
RW-01	09/14/09	634.77	637.50	618.80	593.80	19.06	1.78	20.84	16.73	618.04	No	
RW-01	10/11/09	634.77	637.50	618.80	593.80	19.63	1.35	20.98	17.20	617.57	No	
RW-01	10/15/09	634.77	637.50	618.80	593.80	19.63	1.35	20.98	17.20	617.57	No	
RW-01	04/28/10	634.77	637.50	618.80	593.80	19.19	1.79	20.98	16.86	617.91	No	
RW-01	10/25/10	634.77	637.50	618.80	593.80	19.07	2.82	21.89	16.98	617.79	No	
RW-01	04/25/11	634.77	637.50	618.80	593.80	19.98	3.73	23.71	18.09	616.68	No	
RW-01	09/14/11	634.77	637.50	618.80	593.80	19.84	2.99	22.83	17.79	616.98	No	
RW-01	09/23/11	634.77	637.50	618.80	593.80	19.59	3.05	22.64	17.55	617.22	No	
RW-01	09/29/11	634.77	637.50	618.80	593.80	19.49	3.15	22.64	17.47	617.30	No	
RW-01	10/07/11	634.77	637.50	618.80	593.80	19.24	3.43	22.67	17.28	617.49	No	
RW-01	10/11/11	634.77	637.50	618.80	593.80	19.83	2.91	22.74	17.76	617.01	No	
RW-01	10/21/11	634.77	637.50	618.80	593.80	20.08	2.99	23.07	18.03	616.74	No	
RW-01	10/27/11	634.77	637.50	618.80	593.80	20.20	2.94	23.14	18.13	616.64	No	
RW-01	11/04/11	634.77	637.50	618.80	593.80	20.40	2.93	23.33	18.33	616.44	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-01	11/09/11	634.77	637.50	618.80	593.80	20.39	2.93	23.32	18.32	616.45	No	
RW-01	11/18/11	634.77	637.50	618.80	593.80	20.51	2.98	23.49	18.45	616.32	No	
RW-01	11/22/11	634.77	637.50	618.80	593.80	20.64	2.94	23.58	18.57	616.20	No	
RW-01	12/01/11	634.77	637.50	618.80	593.80	20.90	2.93	23.83	18.83	615.94	No	
RW-01	01/04/12	634.77	637.50	618.80	593.80	21.25	2.88	24.13	19.17	615.60	No	
RW-01	02/16/12	634.77	637.50	618.80	593.80	21.82	3.05	24.87	19.78	614.99	No	
RW-01	03/13/12	634.77	637.50	618.80	593.80	21.83	3.97	25.80	20.00	614.77	No	
RW-01	04/03/12	634.77	637.50	618.80	593.80	21.56	5.32	26.88	20.03	614.74	No	Spill Buddy Before Reading
RW-01	04/03/12	634.77	637.50	618.80	593.80	26.24	0.06	26.30	23.52	611.25	No	Spill Buddy After Reading
RW-01	04/16/12	634.77	637.50	618.80	593.80	21.74	4.12	25.86	19.94	614.83	No	
RW-01	05/10/12	634.77	637.50	618.80	593.80	20.36	5.49	25.85	18.87	615.90	No	Spill Buddy Before Reading
RW-01	05/10/12	634.77	637.50	618.80	593.80	24.73	0.06	24.79	22.01	612.76	No	Spill Buddy After Reading
RW-01	05/18/12	634.77	637.50	618.80	593.80	21.05	3.19	24.24	19.04	615.73	No	
RW-01	06/18/12	634.77	637.50	618.80	593.80	20.04	2.45	22.49	17.86	616.91	No	Spill Buddy Before Reading
RW-01	06/18/12	634.77	637.50	618.80	593.80	22.02	0.08	22.10	19.31	615.46	No	Spill Buddy After Reading
RW-01	06/26/12	634.77	637.50	618.80	593.80	19.62	0.13	19.75	16.92	617.85	No	
RW-01	07/12/12	634.77	637.50	618.80	593.80	20.05	0.11	20.16	17.34	617.43	No	
RW-01	07/24/12	634.77	637.50	618.80	593.80	20.46	0.17	20.63	17.77	617.00	No	
RW-01	08/17/12	634.77	637.50	618.80	593.80	20.80	0.16	20.96	18.11	616.66	No	
RW-01	09/17/12	634.77	637.50	618.80	593.80	21.33	0.19	21.52	18.64	616.13	No	
RW-01	09/30/12	634.77	637.50	618.80	593.80	21.58	0.18	21.76	18.89	615.88	No	
RW-01	11/21/12	634.77	637.50	618.80	593.80	21.67	2.43	24.10	19.49	615.28	No	
RW-01	12/17/12	634.77	637.50	618.80	593.80	21.59	4.38	25.97	19.85	614.92	No	
RW-01	03/25/13	634.77	637.50	618.80	593.80	21.29	10.99	32.28	21.04	613.73	No	
RW-01	04/02/13	634.77	637.50	618.80	593.80	21.84	10.50	32.34	21.48	613.29	No	Spill Buddy Before Reading
RW-01	04/02/13	634.77	637.50	618.80	593.80	30.12	1.66	31.78	27.76	607.01	No	Spill Buddy After Reading
RW-01	04/03/13	634.77	637.50	618.80	593.80	22.29	3.98	26.27	20.46	614.31	No	Spill Buddy Before Reading
RW-01	04/03/13	634.77	637.50	618.80	593.80	25.24	0.82	26.06	22.70	612.07	No	Spill Buddy After Reading
RW-01	04/29/13	634.77	637.50	618.80	593.80	21.54	5.49	27.03	20.05	614.72	No	Spill Buddy Before Reading
RW-01	04/29/13	634.77	637.50	618.80	593.80	24.90	1.94	26.84	22.61	612.16	No	Spill Buddy After Reading
RW-01	05/05/13	634.77	637.50	618.80	593.80	21.92	4.76	26.68	20.27	614.50	No	
RW-01	10/03/13	634.77	637.50	618.80	593.80	21.44	4.07	25.51	19.63	615.14	No	
RW-01	05/22/14	634.77	637.50	618.80	593.80	20.08	2.04	22.12	17.81	616.96	No	
RW-01	10/31/14	634.77	637.50	618.80	593.80	19.80	2.46	22.26	17.63	617.14	No	
RW-01	05/06/15	634.77	637.50	618.80	593.80	21.33	3.85	25.18	19.47	615.30	No	
RW-01	07/10/15	634.77	637.50	618.80	593.80	20.21	3.59	23.80	18.29	616.48	No	
RW-01	10/05/15	634.77	637.50	618.80	593.80	20.14	0.15	20.29	17.44	617.33	No	
RW-01	05/23/16	634.77	637.50	618.80	593.80	16.90	4.28	21.18	15.14	619.63	Yes	
RW-01	10/03/16	634.77	637.50	618.80	593.80	18.29	4.90	23.19	16.67	618.10	No	
RW-01	06/14/17	634.77	637.50	618.80	593.80	16.89	4.85	21.74	15.26	619.51	Yes	
RW-01	06/21/17	634.77	637.50	618.80	593.80	17.43	5.00	22.43	15.83	618.94	Yes	
RW-01	06/22/17	634.77	637.50	618.80	593.80	17.62	2.73	20.35	15.51	619.26	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-01	06/23/17	634.77	637.50	618.80	593.80	17.67	2.58	20.25	15.52	619.25	Yes	
RW-01	06/29/17	634.77	637.50	618.80	593.80							
RW-02	05/04/90	635.60	638.06	614.00	589.00	21.70	8.75	30.45	21.22	614.53	Yes	
RW-02	06/01/90	635.60	638.06	614.00	589.00	20.90	10.30	31.20	20.77	615.00	Yes	
RW-02	06/19/90	635.60	638.06	614.00	589.00	20.73	10.58	31.31	20.66	615.11	Yes	
RW-02	06/27/90	635.60	638.06	614.00	589.00	20.88	10.35	31.23	20.76	615.01	Yes	
RW-02	07/05/90	635.60	638.06	614.00	589.00	21.07	10.42	31.49	20.96	614.80	Yes	
RW-02	07/13/90	635.60	638.06	614.00	589.00	21.05	10.55	31.60	20.97	614.80	Yes	
RW-02	07/17/90	635.60	638.06	614.00	589.00	20.78	10.96	31.74	20.80	614.98	Yes	
RW-02	07/25/90	635.60	638.06	614.00	589.00	21.04	10.84	31.88	21.03	614.75	Yes	
RW-02	08/09/90	635.60	638.06	614.00	589.00	20.87	11.14	32.01	20.93	614.85	Yes	
RW-02	09/06/90	635.60	638.06	614.00	589.00	20.50	10.99	31.49	20.52	615.26	Yes	
RW-02	01/04/91	635.60	638.06	614.00	589.00	20.25	10.88	31.13	20.25	615.53	Yes	
RW-02	01/30/91	635.60	638.06	614.00	589.00	20.58	11.50	32.08	20.72	615.07	Yes	
RW-02	04/24/91	635.60	638.06	614.00	589.00	20.58	9.11	29.69	20.18	615.57	Yes	
RW-02	06/06/91	635.60	638.06	614.00	589.00	22.00	2.16	24.16	20.03	615.61	Yes	
RW-02	07/09/91	635.60	638.06	614.00	589.00	18.30	5.48	23.78	17.08	618.61	Yes	
RW-02	08/06/91	635.60	638.06	614.00	589.00	18.11	2.18	20.29	16.14	619.49	Yes	
RW-02	09/04/91	635.60	638.06	614.00	589.00	18.27	2.21	20.48	16.31	619.33	Yes	
RW-02	10/08/91	635.60	638.06	614.00	589.00	17.40	2.22	19.62	15.44	620.19	Yes	
RW-02	11/08/91	635.60	638.06	614.00	589.00	18.07	1.92	19.99	16.04	619.59	Yes	
RW-02	12/03/91	635.60	638.06	614.00	589.00	16.27	1.90	18.17	14.24	621.39	Yes	
RW-02	01/07/92	635.60	638.06	614.00	589.00	18.25	1.88	20.13	16.21	619.42	Yes	
RW-02	02/04/92	635.60	638.06	614.00	589.00	19.15	1.87	21.02	17.11	618.52	Yes	
RW-02	03/03/92	635.60	638.06	614.00	589.00	19.65	2.02	21.67	17.65	617.99	Yes	
RW-02	09/24/92	635.60	638.06	614.00	589.00	17.30	2.04	19.34	15.30	620.33	Yes	
RW-02	06/25/93	635.60	638.06	614.00	589.00	15.65	1.07	16.72	13.43	622.19	Yes	
RW-02	07/21/93	635.60	638.06	614.00	589.00	16.23	1.08	17.31	14.01	621.60	Yes	
RW-02	08/17/93	635.60	638.06	614.00	589.00	17.77	1.09	18.86	15.56	620.06	Yes	
RW-02	09/09/93	635.60	638.06	614.00	589.00	17.75	0.24	17.99	15.34	620.26	Yes	
RW-02	10/28/93	635.60	638.06	614.00	589.00	17.75	2.00	19.75	15.74	619.89	Yes	
RW-02	11/24/93	635.60	638.06	614.00	589.00	19.71	0.29	20.00	17.32	618.29	Yes	
RW-02	12/17/93	635.60	638.06	614.00	589.00	19.51	0.29	19.80	17.12	618.49	Yes	
RW-02	01/29/94	635.60	638.06	614.00	589.00	20.28	0.16	20.44	17.86	617.75	Yes	
RW-02	02/25/94	635.60	638.06	614.00	589.00	20.64	0.47	21.11	18.29	617.32	Yes	
RW-02	03/24/94	635.60	638.06	614.00	589.00	20.51	0.55	21.06	18.17	617.43	Yes	
RW-02	04/27/94	635.60	638.06	614.00	589.00	19.60	0.82	20.42	17.33	618.29	Yes	
RW-02	05/26/94	635.60	638.06	614.00	589.00	18.51	0.56	19.07	16.18	619.43	Yes	
RW-02	06/29/94	635.60	638.06	614.00	589.00	17.15	0.89	18.04	14.89	620.72	Yes	
RW-02	07/27/94	635.60	638.06	614.00	589.00	18.78	0.89	19.67	16.52	619.09	Yes	
RW-02	08/30/94	635.60	638.06	614.00	589.00	19.09	0.58	19.67	16.76	618.85	Yes	

Table 2
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Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-02	10/25/94	635.60	638.06	614.00	589.00	18.68	0.10	18.78	16.24	619.36	Yes	
RW-02	04/04/95	635.60	638.06	614.00	589.00	20.65	4.80	25.45	19.27	616.40	Yes	
RW-02	07/12/95	635.60	638.06	614.00	589.00	18.70	1.50	20.20	16.58	619.05	Yes	
RW-02	10/07/99	635.60	638.06	614.00	589.00	16.85	3.60	20.45	15.20	620.46	Yes	
RW-02	11/09/99	635.60	638.06	614.00	589.00	17.11	2.84	19.95	15.29	620.35	Yes	bailed 3 gal. FP
RW-02	12/21/99	635.60	638.06	614.00	589.00	18.95	0.07	19.02	16.51	619.10	Yes	bailed 0.25 gal. FP
RW-02	01/27/00	635.60	638.06	614.00	589.00	20.02	0.93	20.95	17.77	617.84	Yes	bailed 0.3 gal. FP
RW-02	02/24/00	635.60	638.06	614.00	589.00	20.53	1.05	21.58	18.31	617.31	Yes	bailed 1.5 gal. FP
RW-02	03/31/00	635.60	638.06	614.00	589.00	20.37	0.97	21.34	18.13	617.49	Yes	
RW-02	04/20/00	635.60	638.06	614.00	589.00	19.89	0.87	20.76	17.63	617.99	Yes	bailed 11 gal. FP
RW-02	04/26/00	635.60	638.06	614.00	589.00	18.54	8.98	27.52	18.11	617.64	Yes	bailed 1 gal. FP
RW-02	05/31/00	635.60	638.06	614.00	589.00	20.03	0.56	20.59	17.70	617.91	Yes	bailed 1 gal. FP
RW-02	06/29/00	635.60	638.06	614.00	589.00	19.65	0.65	20.30	17.34	618.27	Yes	bailed 1 gal. FP
RW-02	07/26/00	635.60	638.06	614.00	589.00	20.00	0.42	20.42	17.63	617.97	Yes	bailed 1 gal. FP
RW-02	08/18/00	635.60	638.06	614.00	589.00	19.87	0.09	19.96	17.43	618.17	Yes	bailed 0.125 gal. FP
RW-02	09/27/00	635.60	638.06	614.00	589.00	20.81	0.75	21.56	18.52	617.09	Yes	bailed 1.5 gal. FP
RW-02	10/11/00	635.60	638.06	614.00	589.00	20.86	0.44	21.30	18.50	617.11	Yes	bailed 1.75 gal. FP
RW-02	11/17/00	635.60	638.06	614.00	589.00	19.61	1.01	20.62	17.38	618.24	Yes	bailed 1.5 gal. FP
RW-02	12/12/00	635.60	638.06	614.00	589.00	20.40	0.02	20.42	17.94	617.66	Yes	bailed 0.1 gal. FP
RW-02	01/18/01	635.60	638.06	614.00	589.00	20.87	0.03	20.90	18.42	617.18	Yes	no product bailed
RW-02	04/24/01	635.60	638.06	614.00	589.00	19.74	6.62	26.36	18.78	616.93	Yes	product abated using vactruck
RW-02	05/23/01	635.60	638.06	614.00	589.00	18.32	6.23	24.55	17.27	618.43	Yes	no product bailed
RW-02	06/19/01	635.60	638.06	614.00	589.00	18.28	6.00	24.28	17.18	618.52	Yes	
RW-02	07/26/01	635.60	638.06	614.00	589.00	19.46	5.63	25.09	18.27	617.42	Yes	
RW-02	08/31/01	635.60	638.06	614.00	589.00	19.67	5.73	25.40	18.50	617.19	Yes	
RW-02	09/26/01	635.60	638.06	614.00	589.00	19.85	5.87	25.72	18.72	616.98	Yes	
RW-02	10/24/01	635.60	638.06	614.00	589.00	19.80	4.10	23.90	18.27	617.40	Yes	
RW-02	12/20/01	635.60	638.06	614.00	589.00	19.96	6.25	26.21	18.91	616.79	Yes	
RW-02	01/22/02	635.60	638.06	614.00	589.00	20.37	6.39	26.76	19.35	616.35	Yes	
RW-02	02/26/02	635.60	638.06	614.00	589.00	20.89	6.86	27.75	19.98	615.73	Yes	
RW-02	03/20/02	635.60	638.06	614.00	589.00	21.08	7.31	28.39	20.27	615.45	Yes	
RW-02	04/24/02	635.60	638.06	614.00	589.00	19.73	8.79	28.52	19.26	616.49	Yes	
RW-02	05/15/02	635.60	638.06	614.00	589.00	19.14	8.88	28.02	18.69	617.06	Yes	
RW-02	06/27/02	635.60	638.06	614.00	589.00	19.37	8.50	27.87	18.83	616.91	Yes	
RW-02	07/25/02	635.60	638.06	614.00	589.00	19.39	8.37	27.76	18.82	616.91	Yes	
RW-02	08/20/02	635.60	638.06	614.00	589.00	19.08	8.42	27.50	18.52	617.21	Yes	
RW-02	09/30/02	635.60	638.06	614.00	589.00	18.23	8.58	26.81	17.71	618.03	Yes	
RW-02	12/23/02	635.60	638.06	614.00	589.00	19.81	7.33	27.14	19.01	616.71	Yes	
RW-02	01/28/03	635.60	638.06	614.00	589.00	20.62	7.47	28.09	19.85	615.87	Yes	
RW-02	02/19/03	635.60	638.06	614.00	589.00	20.97	7.84	28.81	20.28	615.45	Yes	
RW-02	04/17/03	635.60	638.06	614.00	589.00	21.40	8.73	30.13	20.91	614.83	Yes	
RW-02	05/15/03	635.60	638.06	614.00	589.00	21.32	8.94	30.26	20.88	614.87	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-02	06/10/03	635.60	638.06	614.00	589.00	20.72	9.37	30.09	20.38	615.38	Yes	
RW-02	07/31/03	635.60	638.06	614.00	589.00	20.04	9.89	29.93	19.81	615.95	Yes	
RW-02	09/08/03	635.60	638.06	614.00	589.00	24.31	5.99	30.30	23.20	612.49	No	
RW-02	09/11/03	635.60	638.06	614.00	589.00	21.66	1.63	23.29	19.57	616.06	Yes	
RW-02	10/02/03	635.60	638.06	614.00	589.00	21.48	3.56	25.04	19.82	615.83	Yes	
RW-02	10/23/03	635.60	638.06	614.00	589.00	21.50	4.56	26.06	20.07	615.60	Yes	
RW-02	12/03/03	635.60	638.06	614.00	589.00	21.52	5.93	27.45	20.40	615.30	Yes	
RW-02	01/20/04	635.60	638.06	614.00	589.00	21.90	7.29	29.19	21.09	614.63	Yes	started skimming pump
RW-02	02/24/04	635.60	638.06	614.00	589.00	23.43	0.18	23.61	21.01	614.59	Yes	
RW-02	03/22/04	635.60	638.06	614.00	589.00	22.65	4.18	26.83	21.13	614.53	Yes	pump inoperative
RW-02	07/28/04	635.92	638.13	614.00	589.00	21.32	0.67	21.99	19.26	616.67	Yes	pump inoperative
RW-02	11/15/04	635.92	638.13	614.00	589.00	17.04	0.42	17.46	14.92	621.00	Yes	
RW-02	04/18/05	635.92	638.13	614.00	589.00	NP	0.00	19.34	17.13	618.79	Yes	
RW-02	10/11/05	635.92	638.13	614.00	589.00	NP	0.00	23.22	21.01	614.91	Yes	21.92
RW-02	05/23/06	635.92	638.13	614.00	589.00	NP	0.00	16.33	14.12	621.80	Yes	
RW-02	10/16/06	635.92	638.13	614.00	589.00	NP	0.00	22.64	20.43	615.49	Yes	
RW-02	09/14/11	635.60	635.38	613.68	588.68	NP	0.00	15.25	15.47	620.13	Yes	TFRT System Down on 8/31/11 for well recovery test
RW-02	09/23/11	635.60	635.38	613.68	588.68	NP	0.00	15.33	15.55	620.05	Yes	
RW-02	09/29/11	635.60	635.38	613.68	588.68	NP	0.00	15.87	16.09	619.51	Yes	
RW-02	10/07/11	635.60	635.38	613.68	588.68	NP	0.00	15.85	16.07	619.53	Yes	
RW-02	10/13/11	635.60	635.38	613.68	588.68	NP	0.00	15.76	15.98	619.62	Yes	
RW-02	10/21/11	635.60	635.38	613.68	588.68	NP	0.00	15.64	15.86	619.74	Yes	
RW-02	10/27/11	635.60	635.38	613.68	588.68	NP	0.00	16.06	16.28	619.32	Yes	
RW-02	11/01/11	635.60	635.38	613.68	588.68	NP	0.00	15.95	16.17	619.43	Yes	Conducted 2011 annual well pump maintenance
RW-02	11/09/11	635.60	635.38	613.68	588.68	NP	0.00	16.20	16.42	619.18	Yes	
RW-02	11/18/11	635.60	635.38	613.68	588.68	NP	0.00	16.49	16.71	618.89	Yes	
RW-02	11/30/11	635.60	635.38	613.68	588.68	NP	0.00	16.83	17.05	618.55	Yes	with only EW 4 & EW 5
RW-02	09/18/12	635.60	635.38	613.68	588.68	17.84	0.06	17.90	18.08	617.53	Yes	
RW-02	11/21/12	635.60	635.38	613.68	588.68	18.60	0.10	18.70	18.85	616.76	Yes	
RW-02	03/25/13	635.60	635.38	613.68	588.68	NM	NM	NM			NM	Too Much Snow on Well
RW-02	05/05/13	635.60	635.38	613.68	588.68	17.10	0.84	17.94	17.51	618.10	Yes	
RW-02	10/03/13	635.60	635.38	613.68	588.68	18.44	0.81	19.25	18.85	616.77	Yes	
RW-03	05/04/90	634.00	636.96	612.50	587.50	NP	0.00	22.55	19.59	614.41	Yes	
RW-03	06/01/90	634.00	636.96	612.50	587.50	NP	0.00	22.15	19.19	614.81	Yes	
RW-03	06/19/90	634.00	636.96	612.50	587.50	22.03	0.01	22.04	19.07	614.93	Yes	
RW-03	06/27/90	634.00	636.96	612.50	587.50	NP	0.00	22.18	19.22	614.78	Yes	
RW-03	07/05/90	634.00	636.96	612.50	587.50	NP	0.00	22.30	19.34	614.66	Yes	
RW-03	07/13/90	634.00	636.96	612.50	587.50	NP	0.00	22.18	19.22	614.78	Yes	
RW-03	07/17/90	634.00	636.96	612.50	587.50	NP	0.00	22.08	19.12	614.88	Yes	
RW-03	07/25/90	634.00	636.96	612.50	587.50	NP	0.00	22.18	19.22	614.78	Yes	

Table 2
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RW-03	08/09/90	634.00	636.96	612.50	587.50	21.83	0.33	22.16	18.94	615.06	Yes	
RW-03	09/06/90	634.00	636.96	612.50	587.50	NP	0.00	21.88	18.92	615.08	Yes	
RW-03	01/04/91	634.00	636.96	612.50	587.50	NP	0.00	21.45	18.49	615.51	Yes	
RW-03	01/30/91	634.00	636.96	612.50	587.50	NP	0.00	21.67	18.71	615.29	Yes	
RW-03	04/24/91	634.00	636.96	612.50	587.50	NP	0.00	21.86	18.90	615.10	Yes	
RW-03	07/09/91	634.00	636.96	612.50	587.50	NP	0.00	19.48	16.52	617.48	Yes	
RW-03	10/08/91	634.00	636.96	612.50	587.50	NP	0.00	18.04	15.08	618.92	Yes	
RW-03	01/07/92	634.00	636.96	612.50	587.50	NP	0.00	18.62	15.66	618.34	Yes	
RW-03	10/14/92	634.00	636.96	612.50	587.50	NP	0.00	18.82	15.86	618.14	Yes	
RW-03	06/25/93	634.00	636.96	612.50	587.50	NP	0.00	16.06	13.10	620.90	Yes	
RW-03	10/28/93	634.00	636.96	612.50	587.50	NP	0.00	19.38	16.42	617.58	Yes	
RW-03	01/29/94	634.00	636.96	612.50	587.50	NP	0.00	20.24	17.28	616.72	Yes	
RW-03	04/27/94	634.00	636.96	612.50	587.50	NP	0.00	19.70	16.74	617.26	Yes	
RW-03	07/21/94	634.00	636.96	612.50	587.50	NP	0.00	18.70	15.74	618.26	Yes	
RW-03	10/25/94	634.00	636.96	612.50	587.50	NP	0.00	19.21	16.25	617.75	Yes	
RW-03	02/01/95	634.00	636.96	612.50	587.50	NP	0.00	20.75	17.79	616.21	Yes	
RW-03	04/04/95	634.00	636.96	612.50	587.50	NP	0.00	21.38	18.42	615.58	Yes	
RW-03	07/12/95	634.00	636.96	612.50	587.50	NP	0.00	20.10	17.14	616.86	Yes	
RW-03	11/03/98	634.00	636.96	612.50	587.50	NP	0.00	21.13	18.17	615.83	Yes	
RW-03	03/02/99	634.00	636.96	612.50	587.50	NP	0.00	21.40	18.44	615.56	Yes	
RW-03	10/07/99	634.00	636.96	612.50	587.50	NP	0.00	17.89	14.93	619.07	Yes	
RW-03	11/09/99	634.00	636.96	612.50	587.50	NP	0.00	17.67	14.71	619.29	Yes	
RW-03	12/21/99	634.00	636.96	612.50	587.50	NP	0.00	19.25	16.29	617.71	Yes	
RW-03	01/27/00	634.00	636.96	612.50	587.50	NP	0.00	20.32	17.36	616.64	Yes	
RW-03	02/24/00	634.00	636.96	612.50	587.50	NP	0.00	20.81	17.85	616.15	Yes	
RW-03	03/31/00	634.00	636.96	612.50	587.50	NP	0.00	20.53	17.57	616.43	Yes	
RW-03	04/20/00	634.00	636.96	612.50	587.50	NP	0.00	20.04	17.08	616.92	Yes	
RW-03	04/26/00	634.00	636.96	612.50	587.50	NP	0.00	20.13	17.17	616.83	Yes	
RW-03	05/31/00	634.00	636.96	612.50	587.50	NP	0.00	20.14	17.18	616.82	Yes	
RW-03	06/29/00	634.00	636.96	612.50	587.50	NP	0.00	19.93	16.97	617.03	Yes	
RW-03	07/26/00	634.00	636.96	612.50	587.50	NP	0.00	19.93	16.97	617.03	Yes	
RW-03	08/18/00	634.00	636.96	612.50	587.50	NP	0.00	20.48	17.52	616.48	Yes	
RW-03	09/27/00	634.00	636.96	612.50	587.50	NP	0.00	20.98	18.02	615.98	Yes	
RW-03	10/11/00	634.00	636.96	612.50	587.50	NP	0.00	21.08	18.12	615.88	Yes	
RW-03	11/17/00	634.00	636.96	612.50	587.50	NP	0.00	20.71	17.75	616.25	Yes	
RW-03	12/12/00	634.00	636.96	612.50	587.50	NP	0.00	20.74	17.78	616.22	Yes	
RW-03	01/18/01	634.00	636.96	612.50	587.50	NP	0.00	21.13	18.17	615.83	Yes	
RW-03	06/19/01	634.00	636.96	612.50	587.50	NP	0.00	19.41	16.45	617.55	Yes	
RW-03	08/31/01	634.00	636.96	612.50	587.50	NP	0.00	20.72	17.76	616.24	Yes	
RW-03	02/26/02	634.00	636.96	612.50	587.50	NP	0.00	21.95	18.99	615.01	Yes	
RW-03	03/20/02	634.00	636.96	612.50	587.50	NP	0.00	22.14	19.18	614.82	Yes	
RW-03	08/20/02	634.00	636.96	612.50	587.50	NP	0.00	20.47	17.51	616.49	Yes	

Table 2
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RW-03	08/20/02	634.00	636.96	612.50	587.50	NP	0.00	20.47	17.51	616.49	Yes	
RW-03	06/10/03	634.00	636.96	612.50	587.50	NP	0.00	21.51	18.55	615.45	Yes	
RW-03	12/03/03	634.00	636.96	612.50	587.50	NP	0.00	22.15	19.19	614.81	Yes	
RW-03	04/19/04	634.20	636.75	612.50	587.50	NP	0.00	22.51	19.96	614.24	Yes	
RW-03	07/28/04	634.20	636.75	612.50	587.50	NP	0.00	21.32	18.77	615.43	Yes	
RW-03	07/28/04	634.20	636.75	612.50	587.50	NP	0.00	20.31	17.76	616.44	Yes	
RW-03	11/15/04	634.20	636.75	612.50	587.50	NP	0.00	20.31	17.76	616.44	Yes	
RW-03	04/18/05	634.20	636.75	612.50	587.50	NP	0.00	20.81	18.26	615.94	Yes	
RW-03	10/11/05	634.20	636.75	612.50	587.50	NP	0.00	20.15	17.60	616.60	Yes	
RW-03	05/23/06	634.20	636.75	612.50	587.50	NP	0.00	19.16	16.61	617.59	Yes	
RW-03	10/16/06	634.20	636.75	612.50	587.50	NP	0.00	20.75	18.20	616.00	Yes	
RW-03	04/23/07	634.20	636.75	612.50	587.50	NP	0.00	21.68	19.13	615.07	Yes	
RW-03	09/25/07	634.20	636.75	612.50	587.50	NP	0.00	21.62	19.07	615.13	Yes	
RW-03	05/01/08	634.20	636.75	612.50	587.50	NP	0.00	20.01	17.46	616.74	Yes	
RW-03	10/20/08	634.20	636.75	612.50	587.50	NP	0.00	18.51	15.96	618.24	Yes	
RW-03	04/18/09	634.20	636.75	612.50	587.50	NP	0.00	19.63	17.08	617.12	Yes	
RW-03	10/11/09	634.20	636.75	612.50	587.50	NP	0.00	20.50	17.95	616.25	Yes	
RW-03	04/28/10	634.20	636.75	612.50	587.50	NP	0.00	20.55	18.00	616.20	Yes	
RW-03	10/25/10	634.20	636.75	612.50	587.50	NP	0.00	18.39	15.84	618.36	Yes	
RW-03	04/25/11	634.20	636.75	612.50	587.50	NP	0.00	19.39	16.84	617.36	Yes	
RW-03	09/14/11	634.20	636.75	612.50	587.50	NP	0.00	18.85	16.30	617.90	Yes	
RW-03	09/23/11	634.20	636.75	612.50	587.50	NP	0.00	19.05	16.50	617.70	Yes	
RW-03	09/29/11	634.20	636.75	612.50	587.50	NP	0.00	18.91	16.36	617.84	Yes	
RW-03	10/07/11	634.20	636.75	612.50	587.50	NP	0.00	19.08	16.53	617.67	Yes	
RW-03	10/11/11	634.20	636.75	612.50	587.50	NP	0.00	19.22	16.67	617.53	Yes	
RW-03	10/21/11	634.20	636.75	612.50	587.50	NP	0.00	19.45	16.90	617.30	Yes	
RW-03	10/27/11	634.20	636.75	612.50	587.50	NP	0.00	19.59	17.04	617.16	Yes	
RW-03	11/04/11	634.20	636.75	612.50	587.50	NP	0.00	19.82	17.27	616.93	Yes	
RW-03	11/09/11	634.20	636.75	612.50	587.50	NP	0.00	19.70	17.15	617.05	Yes	
RW-03	11/18/11	634.20	636.75	612.50	587.50	NP	0.00	19.86	17.31	616.89	Yes	
RW-03	11/22/11	634.20	636.75	612.50	587.50	NP	0.00	20.01	17.46	616.74	Yes	
RW-03	12/01/11	634.20	636.75	612.50	587.50	NP	0.00	20.40	17.85	616.35	Yes	
RW-03	01/04/12	634.20	636.75	612.50	587.50	NP	0.00	20.70	18.15	616.05	Yes	
RW-03	02/16/12	634.20	636.75	612.50	587.50	NP	0.00	21.30	18.75	615.45	Yes	
RW-03	03/16/12	634.20	636.75	612.50	587.50	NP	0.00	21.45	18.90	615.30	Yes	
RW-03	04/16/12	634.20	636.75	612.50	587.50	NP	0.00	21.55	19.00	615.20	Yes	
RW-03	05/18/12	634.20	636.75	612.50	587.50	NP	0.00	20.51	17.96	616.24	Yes	
RW-03	06/26/12	634.20	636.75	612.50	587.50	NP	0.00	18.54	15.99	618.21	Yes	
RW-03	07/24/12	634.20	636.75	612.50	587.50	NP	0.00	19.35	16.80	617.40	Yes	
RW-03	08/17/12	634.20	636.75	612.50	587.50	NP	0.00	19.70	17.15	617.05	Yes	
RW-03	09/17/12	634.20	636.75	612.50	587.50	NP	0.00	20.24	17.69	616.51	Yes	
RW-03	09/30/12	634.20	636.75	612.50	587.50	NP	0.00	20.45	17.90	616.30	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-03	11/21/12	634.20	636.75	612.50	587.50	NP	0.00	20.96	18.41	615.79	Yes	
RW-03	12/17/12	634.20	636.75	612.50	587.50	NP	0.00	21.16	18.61	615.59	Yes	
RW-03	03/25/13	634.20	636.75	612.50	587.50	NP	0.00	22.11	19.56	614.64	Yes	
RW-03	05/05/13	634.20	636.75	612.50	587.50	NP	0.00	21.68	19.13	615.07	Yes	
RW-03	10/01/13	634.20	636.75	612.50	587.50	NP	0.00	20.96	18.41	615.79	Yes	
RW-03	05/21/14	634.20	636.75	612.50	587.50	NP	0.00	19.42	16.87	617.33	Yes	
RW-03	10/30/14	634.20	636.75	612.50	587.50	NP	0.00	18.87	16.32	617.88	Yes	
RW-03	05/06/15	634.20	636.75	612.50	587.50	NP	0.00	20.85	18.30	615.90	Yes	
RW-03	10/07/15	634.20	636.75	612.50	587.50	NP	0.00	19.11	16.56	617.64	Yes	
RW-03	05/23/16	634.20	636.75	612.50	587.50	NP	0.00	16.51	13.96	620.24	Yes	
RW-03	10/03/16	634.20	636.75	612.50	587.50	NP	0.00	18.01	15.46	618.74	Yes	
RW-03	06/14/17	634.20	636.75	612.50	587.50	NP	0.00	16.68	14.13	620.07	Yes	
RW-03	06/21/17	634.20	636.75	612.50	587.50	NP	0.00	17.13	14.58	619.62	Yes	
RW-03	06/22/17	634.20	636.75	612.50	587.50	NP	0.00	16.98	14.43	619.77	Yes	
RW-03	06/23/17	634.20	636.75	612.50	587.50	NP	0.00	17.05	14.50	619.70	Yes	
RW-04	06/01/90	634.70	636.48	612.80	587.80	21.52	4.80	26.32	20.82	613.87	Yes	
RW-04	01/04/91	634.70	636.48	612.80	587.80	20.95	2.81	23.76	19.80	614.89	Yes	
RW-04	01/30/91	634.70	636.48	612.80	587.80	21.10	2.45	23.55	19.87	614.82	Yes	
RW-04	04/24/91	634.70	636.48	612.80	587.80	21.20	2.59	23.79	20.00	614.69	Yes	
RW-04	06/06/91	634.70	636.48	612.80	587.80	19.97	2.27	22.24	18.70	615.99	Yes	
RW-04	07/09/91	634.70	636.48	612.80	587.80	19.02	2.20	21.22	17.74	616.96	Yes	
RW-04	08/06/91	634.70	636.48	612.80	587.80	18.13	2.25	20.38	16.86	617.84	Yes	
RW-04	09/04/91	634.70	636.48	612.80	587.80	18.07	2.60	20.67	16.88	617.82	Yes	
RW-04	10/08/91	634.70	636.48	612.80	587.80	17.13	2.70	19.83	15.96	618.73	Yes	
RW-04	11/08/91	634.70	636.48	612.80	587.80	17.66	3.05	20.71	16.57	618.12	Yes	
RW-04	12/03/91	634.70	636.48	612.80	587.80	15.95	3.47	19.42	14.95	619.74	Yes	
RW-04	01/07/92	634.70	636.48	612.80	587.80	17.40	3.47	20.87	16.40	618.29	Yes	
RW-04	02/04/92	634.70	636.48	612.80	587.80	18.15	3.22	21.37	17.10	617.60	Yes	
RW-04	03/03/92	634.70	636.48	612.80	587.80	18.56	3.14	21.70	17.49	617.20	Yes	
RW-04	09/24/92	634.70	636.48	612.80	587.80	16.57	4.98	21.55	15.91	618.77	Yes	
RW-04	10/14/92	634.70	636.48	612.80	587.80	17.60	4.07	21.67	16.74	617.95	Yes	
RW-04	06/25/93	634.70	636.48	612.80	587.80	14.49	4.87	19.36	13.81	620.88	Yes	
RW-04	10/28/93	634.70	636.48	612.80	587.80	18.16	3.47	21.63	17.16	617.53	Yes	
RW-04	01/29/94	634.70	636.48	612.80	587.80	18.87	3.48	22.35	17.88	616.82	Yes	
RW-04	04/27/94	634.70	636.48	612.80	587.80	18.67	3.42	22.09	17.66	617.03	Yes	
RW-04	07/21/94	634.70	636.48	612.80	587.80	17.34	4.22	21.56	16.51	618.18	Yes	
RW-04	10/25/94	634.70	636.48	612.80	587.80	17.95	4.02	21.97	17.08	617.61	Yes	
RW-04	11/02/94	634.70	636.48	612.80	587.80	17.55	3.95	21.50	16.66	618.03	Yes	
RW-04	02/01/95	634.70	636.48	612.80	587.80	14.95	8.25	23.20	15.03	619.65	Yes	
RW-04	04/04/95	634.70	636.48	612.80	587.80	15.60	9.85	25.45	16.04	618.63	Yes	
RW-04	11/14/95	634.70	636.48	612.80	587.80	15.08	5.24	20.32	14.48	620.21	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-04	11/09/99	634.70	636.48	612.80	587.80	15.85	6.23	22.08	15.48	619.21	Yes	bailed 11 gal FP
RW-04	12/21/99	634.70	636.48	612.80	587.80	18.55	1.14	19.69	17.03	617.67	Yes	bailed 2 gal FP
RW-04	01/27/00	634.70	636.48	612.80	587.80	19.30	1.55	20.85	17.87	616.83	Yes	bailed 0.2 gal FP
RW-04	02/24/00	634.70	636.48	612.80	587.80	15.60	1.85	17.45	14.24	620.46	Yes	bailed 1.5 gal FP
RW-04	03/31/00	634.70	636.48	612.80	587.80	19.58	0.95	20.53	18.01	616.68	Yes	bailed 0.25 gal FP
RW-04	04/26/00	634.70	636.48	612.80	587.80	18.37	1.70	20.07	16.97	617.72	Yes	bailed 2.5 gal FP
RW-04	05/31/00	634.70	636.48	612.80	587.80	19.49	0.43	19.92	17.81	616.89	Yes	bailed 1 gal FP
RW-04	06/29/00	634.70	636.48	612.80	587.80	19.34	0.43	19.77	17.66	617.04	Yes	bailed 2 gal FP
RW-04	07/26/00	634.70	636.48	612.80	587.80	19.56	0.30	19.86	17.85	616.85	Yes	bailed 0.5 gal FP
RW-04	08/18/00	634.70	636.48	612.80	587.80	20.13	0.13	20.26	18.38	616.32	Yes	bailed 0.125
RW-04	09/27/00	634.70	636.48	612.80	587.80	20.05	1.32	21.37	18.57	616.13	Yes	bailed 3 gal. FP
RW-04	10/11/00	634.70	636.48	612.80	587.80	20.35	0.02	20.37	18.57	616.13	Yes	bailed 3 gal. FP
RW-04	11/17/00	634.70	636.48	612.80	587.80	20.11	0.78	20.89	18.51	616.19	Yes	bailed 0.75 gal. FP
RW-04	12/12/00	634.70	636.48	612.80	587.80	19.92	1.13	21.05	18.40	616.30	Yes	bailed 0.25 gal. FP
RW-04	01/18/01	634.70	636.48	612.80	587.80	20.44	0.92	21.36	18.87	615.83	Yes	bailed 0.25 gal. FP
RW-04	04/24/01	634.70	636.48	612.80	587.80	19.56	1.58	21.14	18.14	616.56	Yes	product abated using vactruck
RW-04	05/23/01	634.70	636.48	612.80	587.80	18.98	2.16	21.14	17.69	617.01	Yes	no product bailed
RW-04	06/19/01	634.70	636.48	612.80	587.80	18.91	0.27	19.18	17.19	617.51	Yes	
RW-04	07/26/01	634.70	636.48	612.80	587.80	19.60	0.28	19.88	17.88	616.82	Yes	
RW-04	08/31/01	634.70	636.48	612.80	587.80	19.98	0.27	20.25	18.26	616.44	Yes	
RW-04	09/26/01	634.70	636.48	612.80	587.80	20.02	0.30	20.32	18.31	616.39	Yes	
RW-04	10/24/01	634.70	636.48	612.80	587.80	19.99	1.08	21.07	18.45	616.24	Yes	
RW-04	02/26/02	634.70	636.48	612.80	587.80	20.35	4.68	25.03	19.63	615.06	Yes	
RW-04	03/20/02	634.70	636.48	612.80	587.80	20.48	5.90	26.38	20.03	614.65	Yes	
RW-04	04/24/02	634.70	636.48	612.80	587.80	19.72	5.65	25.37	19.22	615.47	Yes	
RW-04	05/15/02	634.70	636.48	612.80	587.80	19.43	3.50	22.93	18.44	616.25	Yes	
RW-04	06/27/02	634.70	636.48	612.80	587.80	19.70	3.19	22.89	18.64	616.05	Yes	
RW-04	07/25/02	634.70	636.48	612.80	587.80	19.58	2.12	21.70	18.28	616.42	Yes	
RW-04	08/20/02	634.70	636.48	612.80	587.80	19.53	1.75	21.28	18.15	616.55	Yes	
RW-04	09/30/02	634.70	636.48	612.80	587.80	19.14	1.45	20.59	17.69	617.01	Yes	
RW-04	11/05/02	634.70	636.48	612.80	587.80	18.88	1.42	20.30	17.42	617.28	Yes	
RW-04	12/23/02	634.70	636.48	612.80	587.80	20.81	0.46	21.27	19.13	615.57	Yes	
RW-04	01/28/03	634.70	636.48	612.80	587.80	20.34	1.71	22.05	18.95	615.75	Yes	
RW-04	02/19/03	634.70	636.48	612.80	587.80	20.41	2.43	22.84	19.18	615.52	Yes	
RW-04	04/17/03	634.70	636.48	612.80	587.80	20.77	5.88	26.65	20.32	614.37	Yes	
RW-04	05/15/03	634.70	636.48	612.80	587.80	20.94	4.94	25.88	20.28	614.41	Yes	
RW-04	06/10/03	634.70	636.48	612.80	587.80	20.42	5.84	26.26	19.96	614.73	Yes	
RW-04	10/23/03	634.70	636.48	612.80	587.80	20.67	7.04	27.71	20.48	614.20	Yes	
RW-04	12/03/03	634.70	636.48	612.80	587.80	20.83	7.37	28.20	20.71	613.97	Yes	
RW-04	04/19/04	634.82	636.24	612.80	587.80	21.45	5.73	27.18	21.32	613.48	Yes	
RW-04	07/28/04	634.82	636.24	612.80	587.80	20.61	2.19	22.80	19.68	615.13	Yes	
RW-04	11/15/04	634.82	636.24	612.80	587.80	19.76	1.33	21.09	18.64	616.18	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-04	04/18/05	634.82	636.24	612.80	587.80	20.27	2.77	23.04	19.48	615.34	Yes	
RW-04	10/11/05	634.82	636.24	612.80	587.80	19.38	2.20	21.58	18.46	616.36	Yes	
RW-04	05/23/06	634.82	636.24	612.80	587.80	18.63	2.28	20.91	17.72	617.09	Yes	
RW-04	10/16/06	634.82	636.24	612.80	587.80	19.83	4.02	23.85	19.32	615.49	Yes	
RW-04	04/23/07	634.82	636.24	612.80	587.80	20.25	0.83	21.08	19.02	615.80	Yes	
RW-04	09/25/07	634.82	636.24	612.80	587.80	20.50	7.73	28.23	20.83	613.98	Yes	
RW-04	05/01/08	634.82	636.24	612.80	587.80	19.41	2.47	21.88	18.55	616.27	Yes	
RW-04	10/20/08	634.82	636.24	612.80	587.80	17.75	2.81	20.56	16.96	617.85	Yes	
RW-04	04/18/09	634.82	636.24	612.80	587.80	19.08	2.45	21.53	18.21	616.60	Yes	
RW-04	08/04/09	634.82	636.24	612.80	587.80	19.58	3.44	23.02	18.94	615.88	Yes	
RW-04	08/26/09	634.82	636.24	612.80	587.80	19.39	2.79	22.18	18.60	616.21	Yes	
RW-04	09/03/09	634.82	636.24	612.80	587.80	19.13	2.67	21.80	18.31	616.50	Yes	
RW-04	09/08/09	634.82	636.24	612.80	587.80	19.19	2.61	21.80	18.36	616.45	Yes	
RW-04	09/14/09	634.82	636.24	612.80	587.80	19.25	2.60	21.85	18.42	616.40	Yes	
RW-04	10/11/09	634.82	636.24	612.80	587.80	19.79	2.86	22.65	19.02	615.80	Yes	
RW-04	10/15/09	634.82	636.24	612.80	587.80	19.79	2.86	22.65	19.02	615.80	Yes	
RW-04	04/28/10	634.82	636.24	612.80	587.80	19.67	3.96	23.63	19.14	615.67	Yes	
RW-04	10/25/10	634.82	636.24	612.80	587.80	17.60	3.09	20.69	16.88	617.94	Yes	
RW-04	04/25/11	634.82	636.24	612.80	587.80	18.85	2.59	21.44	18.01	616.80	Yes	
RW-04	09/14/11	634.82	636.24	612.80	587.80	18.08	3.26	21.34	17.40	617.42	Yes	
RW-04	09/23/11	634.82	636.24	612.80	587.80	18.21	3.11	21.32	17.49	617.32	Yes	
RW-04	09/29/11	634.82	636.24	612.80	587.80	18.20	3.03	21.23	17.46	617.35	Yes	
RW-04	10/07/11	634.82	636.24	612.80	587.80	18.41	2.76	21.17	17.61	617.20	Yes	
RW-04	10/11/11	634.82	636.24	612.80	587.80	18.57	2.67	21.24	17.75	617.06	Yes	
RW-04	10/21/11	634.82	636.24	612.80	587.80	18.88	2.47	21.35	18.02	616.80	Yes	
RW-04	10/27/11	634.82	636.24	612.80	587.80	18.99	2.41	21.40	18.11	616.70	Yes	
RW-04	11/04/11	634.82	636.24	612.80	587.80	19.20	2.38	21.58	18.32	616.50	Yes	
RW-04	11/09/11	634.82	636.24	612.80	587.80	19.12	2.36	21.48	18.23	616.58	Yes	
RW-04	11/18/11	634.82	636.24	612.80	587.80	19.26	2.37	21.63	18.38	616.44	Yes	
RW-04	11/22/11	634.82	636.24	612.80	587.80	19.40	2.44	21.84	18.53	616.28	Yes	
RW-04	12/01/11	634.82	636.24	612.80	587.80	19.76	2.46	22.22	18.90	615.92	Yes	
RW-04	01/04/12	634.82	636.24	612.80	587.80	20.05	2.47	22.52	19.19	615.63	Yes	
RW-04	02/16/12	634.82	636.24	612.80	587.80	20.40	3.87	24.27	19.85	614.96	Yes	
RW-04	03/13/12	634.82	636.24	612.80	587.80	20.45	6.55	27.00	20.51	614.30	Yes	
RW-04	04/03/12	634.82	636.24	612.80	587.80	20.37	7.43	27.80	20.63	614.18	Yes	Spill Buddy Before Reading
RW-04	04/03/12	634.82	636.24	612.80	587.80	26.67	0.13	26.80	25.28	609.54	No	Spill Buddy After Reading
RW-04	04/16/12	634.82	636.24	612.80	587.80	20.64	4.76	25.40	20.30	614.51	Yes	
RW-04	05/10/12	634.82	636.24	612.80	587.80	19.76	5.32	25.08	19.54	615.27	Yes	Spill Buddy Before Reading
RW-04	05/10/12	634.82	636.24	612.80	587.80	24.20	0.07	24.27	22.80	612.02	No	Spill Buddy After Reading
RW-04	05/18/12	634.82	636.24	612.80	587.80	19.82	4.53	24.35	19.42	615.39	Yes	
RW-04	05/21/12	634.82	636.24	612.80	587.80	19.92	4.56	24.48	19.53	615.28	Yes	Spill Buddy Before Reading
RW-04	05/21/12	634.82	636.24	612.80	587.80	23.95	0.14	24.09	22.56	612.26	No	Spill Buddy After Reading

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-04	06/18/12	634.82	636.24	612.80	587.80	18.85	2.50	21.35	17.99	616.82	Yes	Spill Buddy Before Reading
RW-04	06/18/12	634.82	636.24	612.80	587.80	20.90	0.10	21.00	19.50	615.32	Yes	Spill Buddy After Reading
RW-04	06/26/12	634.82	636.24	612.80	587.80	18.60	0.20	18.80	17.23	617.59	Yes	
RW-04	07/12/12	634.82	636.24	612.80	587.80	20.05	0.11	20.16	18.65	616.16	Yes	
RW-04	07/24/12	634.82	636.24	612.80	587.80	18.88	2.72	21.60	18.07	616.74	Yes	
RW-04	08/09/12	634.82	636.24	612.80	587.80	18.90	3.45	22.35	18.26	616.55	Yes	Spill Buddy Before Reading
RW-04	08/09/12	634.82	636.24	612.80	587.80	21.29	0.16	21.45	19.91	614.91	Yes	Spill Buddy After Reading
RW-04	08/17/12	634.82	636.24	612.80	587.80	19.33	2.45	21.78	18.46	616.35	Yes	
RW-04	09/17/12	634.82	636.24	612.80	587.80	19.60	4.60	24.20	19.22	615.59	Yes	
RW-04	09/18/12	634.82	636.24	612.80	587.80	19.59	4.59	24.18	19.21	615.60	Yes	Spill Buddy Before Reading
RW-04	09/18/12	634.82	636.24	612.80	587.80	23.60	0.07	23.67	22.20	612.62	No	Spill Buddy After Reading
RW-04	09/30/12	634.82	636.24	612.80	587.80	20.49	0.95	21.44	19.28	615.53	Yes	
RW-04	10/22/12	634.82	636.24	612.80	587.80	20.49	3.07	23.56	19.76	615.05	Yes	
RW-04	11/21/12	634.82	636.24	612.80	587.80	20.22	6.23	26.45	20.21	614.60	Yes	
RW-04	12/17/12	634.82	636.24	612.80	587.80	20.20	8.05	28.25	20.60	614.20	Yes	
RW-04	03/25/13	634.82	636.24	612.80	587.80	20.78	10.02	30.80	21.62	613.18	Yes	
RW-04	04/03/13	634.82	636.24	612.80	587.80	20.85	9.74	30.59	21.63	613.17	Yes	Spill Buddy Before Reading
RW-04	04/03/13	634.82	636.24	612.80	587.80	28.69	0.26	28.95	27.33	607.49	No	Spill Buddy After Reading
RW-04	04/29/13	634.82	636.24	612.80	587.80	20.77	6.31	27.08	20.78	614.03	Yes	Spill Buddy Before Reading
RW-04	04/29/13	634.82	636.24	612.80	587.80	26.38	0.09	26.47	24.98	609.84	No	Spill Buddy After Reading
RW-04	05/05/13	634.82	636.24	612.80	587.80	21.14	2.54	23.68	20.29	614.52	Yes	
RW-04	10/03/13	634.82	636.24	612.80	587.80	20.15	5.10	25.25	19.88	614.93	Yes	
RW-04	05/22/14	634.82	636.24	612.80	587.80	18.99	1.79	20.78	17.97	616.84	Yes	
RW-04	10/31/14	634.82	636.24	612.80	587.80	18.38	4.45	22.83	17.97	616.85	Yes	
RW-04	05/06/15	634.82	636.24	612.80	587.80	19.90	5.62	25.52	19.75	615.06	Yes	
RW-04	07/10/15	634.82	636.24	612.80	587.80	19.24	2.31	21.55	18.34	616.47	Yes	
RW-04	10/05/15	634.82	636.24	612.80	587.80	18.25	2.44	20.69	17.38	617.43	Yes	
RW-04	05/23/16	634.82	636.24	612.80	587.80	15.49	5.89	21.38	15.40	619.41	Yes	
RW-04	10/03/16	634.82	636.24	612.80	587.80	16.89	5.65	22.54	16.75	618.06	Yes	
RW-04	06/14/17	634.82	636.24	612.80	587.80	15.54	5.72	21.26	15.41	619.40	Yes	
RW-04	06/21/17	634.82	636.24	612.80	587.80	16.20	5.16	21.36	15.95	618.86	Yes	
RW-04	06/22/17	634.82	636.24	612.80	587.80	16.80	1.12	17.92	15.63	619.18	Yes	
RW-04	06/23/17	634.82	636.24	612.80	587.80	16.97	0.98	17.95	15.77	619.05	Yes	
RW-05	05/04/90	636.00	638.51	613.30	588.30	23.50	0.85	24.35	21.18	614.82	Yes	
RW-05	06/01/90	636.00	638.51	613.30	588.30	23.00	1.45	24.45	20.82	615.18	Yes	
RW-05	06/19/90	636.00	638.51	613.30	588.30	22.95	1.70	24.65	20.82	615.18	Yes	
RW-05	06/27/90	636.00	638.51	613.30	588.30	23.33	0.21	23.54	20.87	615.13	Yes	
RW-05	07/05/90	636.00	638.51	613.30	588.30	23.48	0.40	23.88	21.06	614.94	Yes	
RW-05	07/13/90	636.00	638.51	613.30	588.30	23.38	0.48	23.86	20.98	615.02	Yes	
RW-05	07/17/90	636.00	638.51	613.30	588.30	23.18	0.57	23.75	20.80	615.20	Yes	
RW-05	07/25/90	636.00	638.51	613.30	588.30	23.35	0.65	24.00	20.99	615.01	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-05	08/09/90	636.00	638.51	613.30	588.30	23.20	0.80	24.00	20.87	615.13	Yes	
RW-05	09/06/90	636.00	638.51	613.30	588.30	22.72	2.21	24.93	20.71	615.29	Yes	
RW-05	01/04/91	636.00	638.51	613.30	588.30	22.05	3.20	25.25	20.26	615.74	Yes	
RW-05	01/30/91	636.00	638.51	613.30	588.30	22.22	3.34	25.56	20.46	615.54	Yes	
RW-05	04/24/91	636.00	638.51	613.30	588.30	22.40	3.32	25.72	20.64	615.36	Yes	
RW-05	07/09/91	636.00	638.51	613.30	588.30	20.41	4.17	24.58	18.84	617.16	Yes	
RW-05	10/08/91	636.00	638.51	613.30	588.30	18.62	5.32	23.94	17.31	618.69	Yes	
RW-05	01/07/92	636.00	638.51	613.30	588.30	18.73	5.71	24.44	17.51	618.49	Yes	
RW-05	10/14/92	636.00	638.51	613.30	588.30	18.56	7.16	25.72	17.67	618.33	Yes	
RW-05	06/25/93	636.00	638.51	613.30	588.30	16.28	7.74	24.02	15.52	620.48	Yes	
RW-05	10/28/93	636.00	638.51	613.30	588.30	18.84	7.70	26.54	18.07	617.93	Yes	
RW-05	01/29/94	636.00	638.51	613.30	588.30	20.64	6.99	27.63	19.71	616.29	Yes	
RW-05	04/27/94	636.00	638.51	613.30	588.30	20.50	1.87	22.37	18.41	617.59	Yes	
RW-05	07/21/94	636.00	638.51	613.30	588.30	19.28	0.59	19.87	16.90	619.10	Yes	
RW-05	10/25/94	636.00	638.51	613.30	588.30	19.76	1.15	20.91	17.51	618.49	Yes	
RW-05	02/01/95	636.00	638.51	613.30	588.30	20.95	1.30	22.25	18.73	617.27	Yes	
RW-05	04/04/95	636.00	638.51	613.30	588.30	21.72	1.38	23.10	19.52	616.48	Yes	
RW-05	07/12/95	636.00	638.51	613.30	588.30	20.69	1.56	22.25	18.53	617.47	Yes	
RW-05	11/14/95	636.00	638.51	613.30	588.30	19.32	1.81	21.13	17.22	618.78	Yes	
RW-05	03/13/96	636.00	638.51	613.30	588.30	21.17	2.02	23.19	19.12	616.88	Yes	
RW-05	11/03/98	636.00	638.51	613.30	588.30	21.49	2.90	24.39	19.64	616.36	Yes	
RW-05	03/02/99	636.00	638.51	613.30	588.30	21.52	3.05	24.57	19.70	616.30	Yes	
RW-05	10/07/99	636.00	638.51	613.30	588.30	18.61	1.30	19.91	16.39	619.61	Yes	
RW-05	11/09/99	636.00	638.51	613.30	588.30	18.48	0.87	19.35	16.17	619.83	Yes	bailed 0.25 gal. FP
RW-05	12/21/99	636.00	638.51	613.30	588.30	18.56	0.17	18.73	16.09	619.91	Yes	bailed 0.25 gal. FP
RW-05	01/27/00	636.00	638.51	613.30	588.30	20.78	0.90	21.68	18.47	617.53	Yes	bailed 0.2 gal. FP
RW-05	02/24/00	636.00	638.51	613.30	588.30	21.22	0.72	21.94	18.87	617.13	Yes	bailed 0.25 gal. FP
RW-05	03/31/00	636.00	638.51	613.30	588.30	21.33	0.60	21.93	18.96	617.04	Yes	bailed 0.5 gal. FP
RW-05	04/20/00	636.00	638.51	613.30	588.30	20.61	3.10	23.71	18.80	617.20	Yes	bailed 5 gal. FP
RW-05	04/26/00	636.00	638.51	613.30	588.30	20.97	0.58	21.55	18.59	617.41	Yes	bailed 0.5 gal. FP
RW-05	05/31/00	636.00	638.51	613.30	588.30	21.06	0.36	21.42	18.63	617.37	Yes	bailed 0.5 gal. FP
RW-05	06/29/00	636.00	638.51	613.30	588.30	20.88	0.40	21.28	18.46	617.54	Yes	bailed 1 gal. FP
RW-05	07/26/00	636.00	638.51	613.30	588.30	20.97	0.29	21.26	18.53	617.47	Yes	bailed 0.5 gal. FP
RW-05	08/18/00	636.00	638.51	613.30	588.30	21.26	0.47	21.73	18.86	617.14	Yes	bailed 0.25 gal. FP
RW-05	09/27/00	636.00	638.51	613.30	588.30	21.72	0.31	22.03	19.28	616.72	Yes	bailed 0.5 gal FP
RW-05	10/11/00	636.00	638.51	613.30	588.30	21.67	0.07	21.74	19.18	616.82	Yes	bailed 0.01 gal FP
RW-05	11/17/00	636.00	638.51	613.30	588.30	21.61	0.08	21.69	19.12	616.88	Yes	No product bailed
RW-05	12/12/00	636.00	638.51	613.30	588.30	21.48	0.16	21.64	19.01	616.99	Yes	bailed 0.1 gal FP
RW-05	01/18/01	636.00	638.51	613.30	588.30	21.77	0.07	21.84	19.28	616.72	Yes	bailed 0.2 gal FP
RW-05	04/24/01	636.00	638.51	613.30	588.30	21.90	0.20	22.10	19.44	616.56	Yes	product abated using vactruck
RW-05	05/23/01	636.00	638.51	613.30	588.30	20.75	0.12	20.87	18.27	617.73	Yes	no product bailed
RW-05	06/19/01	636.00	638.51	613.30	588.30	20.63	0.14	20.77	18.15	617.85	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-05	07/26/01	636.00	638.51	613.30	588.30	21.25	0.27	21.52	18.80	617.20	Yes	
RW-05	08/31/01	636.00	638.51	613.30	588.30	21.49	0.32	21.81	19.05	616.95	Yes	
RW-05	09/26/01	636.00	638.51	613.30	588.30	21.63	0.31	21.94	19.19	616.81	Yes	
RW-05	10/24/01	636.00	638.51	613.30	588.30	21.66	0.34	22.00	19.23	616.77	Yes	
RW-05	12/20/01	636.00	638.51	613.30	588.30	22.13	0.33	22.46	19.69	616.31	Yes	
RW-05	01/22/02	636.00	638.51	613.30	588.30	22.17	0.36	22.53	19.74	616.26	Yes	
RW-05	02/26/02	636.00	638.51	613.30	588.30	22.59	0.39	22.98	20.17	615.83	Yes	
RW-05	03/20/02	636.00	638.51	613.30	588.30	22.78	0.39	23.17	20.36	615.64	Yes	
RW-05	04/24/02	636.00	638.51	613.30	588.30	22.09	0.42	22.51	19.67	616.33	Yes	
RW-05	05/15/02	636.00	638.51	613.30	588.30	21.84	0.43	22.27	19.43	616.57	Yes	
RW-05	06/27/02	636.00	638.51	613.30	588.30	21.89	0.49	22.38	19.49	616.51	Yes	
RW-05	07/25/02	636.00	638.51	613.30	588.30	21.75	0.53	22.28	19.36	616.64	Yes	
RW-05	08/20/02	636.00	638.51	613.30	588.30	21.74	0.57	22.31	19.36	616.64	Yes	
RW-05	09/30/02	636.00	638.51	613.30	588.30	21.21	0.69	21.90	18.86	617.14	Yes	
RW-05	11/05/02	636.00	638.51	613.30	588.30	21.01	0.83	21.84	18.69	617.31	Yes	
RW-05	12/23/02	636.00	638.51	613.30	588.30	21.74	0.95	22.69	19.44	616.56	Yes	
RW-05	01/28/03	636.00	638.51	613.30	588.30	22.16	1.03	23.19	19.88	616.12	Yes	
RW-05	02/19/03	636.00	638.51	613.30	588.30	22.39	1.04	23.43	20.11	615.89	Yes	
RW-05	04/17/03	636.00	638.51	613.30	588.30	22.90	1.03	23.93	20.62	615.38	Yes	
RW-05	05/15/03	636.00	638.51	613.30	588.30	23.07	1.02	24.09	20.79	615.21	Yes	
RW-05	06/10/03	636.00	638.51	613.30	588.30	22.61	1.00	23.61	20.33	615.67	Yes	
RW-05	10/23/03	636.00	638.51	613.30	588.30	22.89	1.13	24.02	20.64	615.36	Yes	
RW-05	12/03/03	636.00	638.51	613.30	588.30	23.03	1.16	24.19	20.78	615.22	Yes	
RW-05	04/19/04	636.67	638.61	613.30	588.30	23.38	1.45	24.83	21.77	614.90	Yes	
RW-05	07/28/04	636.67	638.61	613.30	588.30	22.32	2.38	24.70	20.92	615.75	Yes	
RW-05	11/15/04	636.67	638.61	613.30	588.30	21.48	2.73	24.21	20.16	616.51	Yes	
RW-05	04/18/05	636.67	638.61	613.30	588.30	21.85	3.01	24.86	20.59	616.08	Yes	
RW-05	10/11/05	636.67	638.61	613.30	588.30	21.09	3.89	24.98	20.03	616.64	Yes	
RW-05	05/23/06	636.67	638.61	613.30	588.30	20.14	5.07	25.21	19.35	617.32	Yes	
RW-05	10/16/06	636.67	638.61	613.30	588.30	21.19	5.85	27.04	20.57	616.10	Yes	
RW-05	04/23/07	636.67	638.61	613.30	588.30	22.09	5.89	27.98	21.48	615.19	Yes	
RW-05	09/25/07	636.67	638.61	613.30	588.30	21.95	6.00	27.95	21.37	615.30	Yes	
RW-05	05/01/08	636.67	638.61	613.30	588.30	20.99	6.26	27.25	20.46	616.21	Yes	
RW-05	10/20/08	636.67	638.61	613.30	588.30	19.05	6.55	25.60	18.59	618.08	Yes	
RW-05	04/18/09	636.67	638.61	613.30	588.30	20.25	7.64	27.89	20.04	616.63	Yes	
RW-05	10/11/09	636.67	638.61	613.30	588.30	21.06	1.13	22.19	19.38	617.29	Yes	
RW-05	04/28/10	636.67	638.61	613.30	588.30	21.59	1.27	22.86	19.94	616.73	Yes	
RW-05	10/25/10	636.67	638.61	613.30	588.30	19.48	0.72	20.20	17.70	618.97	Yes	
RW-05	04/25/11	636.67	638.61	613.30	588.30	20.59	2.14	22.73	19.13	617.54	Yes	
RW-05	09/14/11	636.67	638.61	613.30	588.30	19.68	2.16	21.84	18.23	618.44	Yes	
RW-05	09/23/11	636.67	638.61	613.30	588.30	19.90	2.21	22.11	18.46	618.21	Yes	
RW-05	09/29/11	636.67	638.61	613.30	588.30	19.79	2.25	22.04	18.36	618.31	Yes	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-05	10/07/11	636.67	638.61	613.30	588.30	20.00	2.26	22.26	18.57	618.10	Yes	
RW-05	10/11/11	636.67	638.61	613.30	588.30	20.08	2.30	22.38	18.66	618.01	Yes	
RW-05	10/21/11	636.67	638.61	613.30	588.30	20.37	2.35	22.72	18.96	617.71	Yes	
RW-05	10/27/11	636.67	638.61	613.30	588.30	20.47	2.30	22.77	19.05	617.62	Yes	
RW-05	11/01/11	636.67	638.61	613.30	588.30	20.67	2.32	22.99	19.25	617.42	Yes	
RW-05	11/09/11	636.67	638.61	613.30	588.30	20.60	2.33	22.93	19.19	617.48	Yes	
RW-05	11/18/11	636.67	638.61	613.30	588.30	20.70	2.34	23.04	19.29	617.38	Yes	
RW-05	11/22/11	636.67	638.61	613.30	588.30	20.86	2.39	23.25	19.46	617.21	Yes	
RW-05	12/01/11	636.67	638.61	613.30	588.30	21.21	2.35	23.56	19.80	616.87	Yes	
RW-05	01/04/12	636.67	638.61	613.30	588.30	21.43	2.36	23.79	20.02	616.65	Yes	
RW-05	02/16/12	636.67	638.61	613.30	588.30	22.02	2.34	24.36	20.61	616.06	Yes	
RW-05	03/13/12	636.67	638.61	613.30	588.30	22.29	2.35	24.64	20.88	615.79	Yes	
RW-05	04/05/12	636.67	638.61	613.30	588.30	22.28	2.37	24.65	20.88	615.79	Yes	Spill Buddy Before Reading
RW-05	04/05/12	636.67	638.61	613.30	588.30	24.50	0.05	24.55	22.57	614.10	Yes	Spill Buddy After Reading
RW-05	04/16/12	636.67	638.61	613.30	588.30	22.50	0.15	22.65	20.59	616.08	Yes	
RW-05	05/18/12	636.67	638.61	613.30	588.30	21.68	0.27	21.95	19.80	616.87	Yes	
RW-05	06/18/12	636.67	638.61	613.30	588.30	20.73	0.32	21.05	18.86	617.81	Yes	
RW-05	06/26/12	636.67	638.61	613.30	588.30	20.19	0.32	20.51	18.32	618.35	Yes	
RW-05	07/24/12	636.67	638.61	613.30	588.30	20.62	0.38	21.00	18.77	617.90	Yes	
RW-05	08/17/12	636.67	638.61	613.30	588.30	20.95	0.45	21.40	19.11	617.56	Yes	
RW-05	09/17/12	636.67	638.61	613.30	588.30	21.38	0.57	21.95	19.57	617.10	Yes	
RW-05	09/30/12	636.67	638.61	613.30	588.30	21.59	0.59	22.18	19.78	616.89	Yes	
RW-05	11/21/12	636.67	638.61	613.30	588.30	22.02	0.62	22.64	20.22	616.45	Yes	
RW-05	12/17/12	636.67	638.61	613.30	588.30	22.25	0.66	22.91	20.46	616.21	Yes	
RW-05	03/25/13	636.67	638.61	613.30	588.30	23.09	0.83	23.92	21.34	615.33	Yes	
RW-05	05/05/13	636.67	638.61	613.30	588.30	22.72	0.84	23.56	20.97	615.70	Yes	
RW-05	10/03/13	636.67	638.61	613.30	588.30	22.09	1.15	23.24	20.41	616.26	Yes	
RW-05	05/22/14	636.67	638.61	613.30	588.30	20.69	1.53	22.22	19.10	617.57	Yes	
RW-05	10/31/14	636.67	638.61	613.30	588.30	20.15	1.94	22.09	18.65	618.02	Yes	
RW-05	05/06/15	636.67	638.61	613.30	588.30	21.77	2.19	23.96	20.32	616.35	Yes	
RW-05	10/05/15	636.67	638.61	613.30	588.30	19.94	2.50	22.44	18.56	618.11	Yes	
RW-05	10/03/16	636.67	638.61	613.30	588.30	18.83	2.61	21.44	17.48	619.19	Yes	
RW-06	06/01/90	635.20	637.96	615.00	590.00	20.50	4.70	25.20	18.80	616.33	Yes	
RW-06	01/30/91	635.20	637.96	615.00	590.00	20.47	6.14	26.61	19.10	616.02	Yes	
RW-06	04/24/91	635.20	637.96	615.00	590.00	22.22	3.22	25.44	20.19	614.97	No	
RW-06	06/06/91	635.20	637.96	615.00	590.00	20.51	2.75	23.26	18.37	616.79	Yes	
RW-06	07/09/91	635.20	637.96	615.00	590.00	19.32	3.60	22.92	17.37	617.78	Yes	
RW-06	08/06/91	635.20	637.96	615.00	590.00	18.64	3.40	22.04	16.65	618.50	Yes	
RW-06	09/04/91	635.20	637.96	615.00	590.00	18.66	3.28	21.94	16.64	618.51	Yes	
RW-06	10/08/91	635.20	637.96	615.00	590.00	19.73	1.75	21.48	17.37	617.81	Yes	
RW-06	11/08/91	635.20	637.96	615.00	590.00	20.02	1.95	21.97	17.70	617.47	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-06	12/03/91	635.20	637.96	615.00	590.00	16.40	4.19	20.59	14.59	620.55	Yes	
RW-06	01/07/92	635.20	637.96	615.00	590.00	18.41	2.06	20.47	16.12	619.06	Yes	
RW-06	02/04/92	635.20	637.96	615.00	590.00	19.80	2.05	21.85	17.50	617.67	Yes	
RW-06	03/03/92	635.20	637.96	615.00	590.00	19.67	2.45	22.12	17.46	617.70	Yes	
RW-06	09/24/92	635.20	637.96	615.00	590.00	17.32	3.23	20.55	15.29	619.87	Yes	
RW-06	06/25/93	635.20	637.96	615.00	590.00	15.67	2.58	18.25	13.49	621.67	Yes	
RW-06	07/21/93	635.20	637.96	615.00	590.00	16.52	1.82	18.34	14.17	621.00	Yes	
RW-06	08/17/93	635.20	637.96	615.00	590.00	18.14	2.11	20.25	15.86	619.31	Yes	
RW-06	09/09/93	635.20	637.96	615.00	590.00	19.02	2.11	21.13	16.74	618.43	Yes	
RW-06	10/28/93	635.20	637.96	615.00	590.00	19.53	1.68	21.21	17.15	618.03	Yes	
RW-06	11/24/93	635.20	637.96	615.00	590.00	19.87	1.48	21.35	17.44	617.73	Yes	
RW-06	12/17/93	635.20	637.96	615.00	590.00	19.92	1.10	21.02	17.41	617.78	Yes	
RW-06	01/29/94	635.20	637.96	615.00	590.00	19.83	1.72	21.55	17.46	617.72	Yes	
RW-06	02/25/94	635.20	637.96	615.00	590.00	20.06	2.07	22.13	17.77	617.40	Yes	
RW-06	03/24/94	635.20	637.96	615.00	590.00	20.16	1.92	22.08	17.83	617.34	Yes	
RW-06	04/27/94	635.20	637.96	615.00	590.00	19.57	2.00	21.57	17.26	617.91	Yes	
RW-06	05/26/94	635.20	637.96	615.00	590.00	18.64	1.36	20.00	16.19	618.99	Yes	
RW-06	06/29/94	635.20	637.96	615.00	590.00	18.04	0.97	19.01	15.50	619.69	Yes	
RW-06	07/21/94	635.20	637.96	615.00	590.00	18.96	1.35	20.31	16.50	618.68	Yes	
RW-06	08/30/94	635.20	637.96	615.00	590.00	19.57	1.15	20.72	17.07	618.11	Yes	
RW-06	10/25/94	635.20	637.96	615.00	590.00	18.45	1.53	19.98	16.04	619.14	Yes	
RW-06	11/02/94	635.20	637.96	615.00	590.00	18.35	1.65	20.00	15.96	619.21	Yes	
RW-06	02/01/95	635.20	637.96	615.00	590.00	20.10	0.48	20.58	17.45	617.74	Yes	
RW-06	04/04/95	635.20	637.96	615.00	590.00	20.44	2.16	22.60	18.17	617.00	Yes	
RW-06	07/12/95	635.20	637.96	615.00	590.00	19.73	0.02	19.75	16.97	618.23	Yes	
RW-06	11/13/95	635.20	637.96	615.00	590.00	18.54	0.02	18.56	15.78	619.42	Yes	
RW-06	03/13/96	635.20	637.96	615.00	590.00	19.85	2.30	22.15	17.61	617.56	Yes	
RW-06	05/28/96	635.20	637.96	615.00	590.00	18.45	0.03	18.48	15.70	619.50	Yes	
RW-06	10/08/96	635.20	637.96	615.00	590.00	17.60	0.02	17.62	14.84	620.36	Yes	
RW-06	04/29/97	635.20	637.96	615.00	590.00	NP	0.00	16.62	13.86	621.34	Yes	
RW-06	06/10/97	635.20	637.96	615.00	590.00	NP	0.00	18.00	15.24	619.96	Yes	
RW-06	03/02/99	635.20	637.96	615.00	590.00	20.38	2.16	22.54	18.11	617.06	Yes	
RW-06	10/07/99	635.20	637.96	615.00	590.00	17.16	1.33	18.49	14.70	620.48	Yes	
RW-06	11/09/99	635.20	637.96	615.00	590.00	18.23	1.69	19.92	15.85	619.32	Yes	bailed 2 gal. FP
RW-06	12/21/99	635.20	637.96	615.00	590.00	18.76	0.12	18.88	16.03	619.17	Yes	
RW-06	01/27/00	635.20	637.96	615.00	590.00	19.95	0.12	20.07	17.22	617.98	Yes	
RW-06	02/24/00	635.20	637.96	615.00	590.00	19.87	1.65	21.52	17.48	617.69	Yes	bailed 2 gal. FP
RW-06	03/31/00	635.20	637.96	615.00	590.00	19.71	2.22	21.93	17.45	617.72	Yes	installed pump from MW-2
RW-06	04/20/00	635.20	637.96	615.00	590.00	18.92	2.96	21.88	16.83	618.33	Yes	bailed 4 gal. FP
RW-06	04/26/00	635.20	637.96	615.00	590.00	19.50	1.47	20.97	17.07	618.11	Yes	
RW-06	05/31/00	635.20	637.96	615.00	590.00	19.65	1.38	21.03	17.20	617.98	Yes	installed skimmer
RW-06	06/20/00	635.20	637.96	615.00	590.00	19.66	0.02	19.68	16.90	618.30	Yes	Skimmer operating

Table 2
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RW-06	07/26/00	635.20	637.96	615.00	590.00	19.86	0.02	19.88	17.10	618.10	Yes	Skimmer operating
RW-06	08/18/00	635.20	637.96	615.00	590.00	19.26	2.14	21.40	16.98	618.19	Yes	bailed 1 gal. FP-installed skimmer
RW-06	09/27/00	635.20	637.96	615.00	590.00	20.42	1.29	21.71	17.95	617.23	Yes	skimmer down-bailed 1.25 gal. FP
RW-06	10/11/00	635.20	637.96	615.00	590.00	20.11	1.88	21.99	17.77	617.40	Yes	skimmer down-bailed 3.75 gal. FP
RW-06	11/17/00	635.20	637.96	615.00	590.00	19.69	2.83	22.52	17.57	617.59	Yes	skimmer down-bailed 6 gal. FP
RW-06	12/12/00	635.20	637.96	615.00	590.00	19.94	1.59	21.53	17.54	617.64	Yes	skimmer down-bailed 3 gal. FP
RW-06	01/18/01	635.20	637.96	615.00	590.00	20.23	1.75	21.98	17.87	617.31	Yes	skimmer down-bailed 4 gal. FP
RW-06	04/24/01	635.20	637.96	615.00	590.00	20.21	3.01	23.22	18.13	617.03	Yes	product abated using vactruck
RW-06	05/23/01	635.20	637.96	615.00	590.00	19.22	1.30	20.52	16.75	618.43	Yes	skimmer down/no product bailed
RW-06	06/19/01	635.20	637.96	615.00	590.00	19.45	0.72	20.17	16.85	618.34	Yes	
RW-06	07/26/01	635.20	637.96	615.00	590.00	20.22	0.99	21.21	17.68	617.50	Yes	
RW-06	08/31/01	635.20	637.96	615.00	590.00	20.41	0.01	20.42	17.65	617.55	Yes	
RW-06	09/26/01	635.20	637.96	615.00	590.00	20.41	0.24	20.65	17.70	617.49	Yes	
RW-06	10/24/01	635.20	637.96	615.00	590.00	20.00	1.45	21.45	17.57	617.61	Yes	
RW-06	12/20/01	635.20	637.96	615.00	590.00	20.58	1.84	22.42	18.24	616.94	Yes	
RW-06	01/22/02	635.20	637.96	615.00	590.00	20.53	1.88	22.41	18.19	616.98	Yes	
RW-06	02/26/02	635.20	637.96	615.00	590.00	21.22	0.89	22.11	18.66	616.53	Yes	
RW-06	03/20/02	635.20	637.96	615.00	590.00	21.60	0.14	21.74	18.87	616.33	Yes	
RW-06	04/24/02	635.20	637.96	615.00	590.00	20.32	2.54	22.86	18.13	617.03	Yes	
RW-06	05/15/02	635.20	637.96	615.00	590.00	20.04	2.29	22.33	17.80	617.37	Yes	
RW-06	06/27/02	635.20	637.96	615.00	590.00	20.44	1.53	21.97	18.03	617.15	Yes	
RW-06	07/25/02	635.20	637.96	615.00	590.00	20.57	0.04	20.61	17.82	617.38	Yes	
RW-06	08/20/02	635.20	637.96	615.00	590.00	20.73	0.15	20.88	18.00	617.19	Yes	
RW-06	09/30/02	635.20	637.96	615.00	590.00	NP	0.00	20.03	17.27	617.93	Yes	
RW-06	11/05/02	635.20	637.96	615.00	590.00	19.89	0.02	19.91	17.13	618.07	Yes	
RW-06	12/23/02	635.20	637.96	615.00	590.00	20.74	0.02	20.76	17.98	617.22	Yes	
RW-06	01/28/03	635.20	637.96	615.00	590.00	21.11	0.11	21.22	18.37	616.82	Yes	
RW-06	02/19/03	635.20	637.96	615.00	590.00	21.24	0.31	21.55	18.55	616.65	Yes	
RW-06	03/13/03	635.20	637.96	615.00	590.00	21.27	1.38	22.65	18.82	616.36	Yes	
RW-06	04/17/03	635.20	637.96	615.00	590.00	21.20	2.52	23.72	19.01	616.16	Yes	
RW-06	04/25/03	635.20	637.96	615.00	590.00	21.42	2.64	24.06	19.26	615.91	Yes	
RW-06	05/15/03	635.20	637.96	615.00	590.00	21.44	2.97	24.41	19.35	615.81	Yes	
RW-06	06/10/03	635.20	637.96	615.00	590.00	21.19	2.06	23.25	18.90	616.28	Yes	
RW-06	07/31/03	635.20	637.96	615.00	590.00	20.90	1.95	22.85	18.58	616.59	Yes	
RW-06	10/23/03	635.20	637.96	615.00	590.00	21.14	1.67	22.81	18.76	616.42	Yes	
RW-06	12/03/03	635.20	637.96	615.00	590.00	21.36	2.92	24.28	19.26	615.90	Yes	
RW-06	04/19/04	636.09	638.10	615.00	590.00	21.94	2.35	24.29	20.46	615.60	Yes	
RW-06	07/28/04	636.09	638.10	615.00	590.00	21.02	2.10	23.12	19.48	616.58	Yes	
RW-06	11/15/04	636.09	638.10	615.00	590.00	20.14	1.80	21.94	18.54	617.53	Yes	
RW-06	04/18/05	636.09	638.10	615.00	590.00	20.25	2.67	22.92	18.84	617.21	Yes	
RW-06	10/11/05	636.09	638.10	615.00	590.00	20.00	1.85	21.85	18.41	617.66	Yes	
RW-06	05/23/06	636.09	638.10	615.00	590.00	19.30	1.39	20.69	17.60	618.47	Yes	

Table 2
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RW-06	10/16/06	636.09	638.10	615.00	590.00	20.23	2.15	22.38	18.71	617.35	Yes	
RW-06	04/23/07	636.09	638.10	615.00	590.00	21.03	2.85	23.88	19.66	616.39	Yes	
RW-06	09/25/07	636.09	638.10	615.00	590.00	20.98	2.72	23.70	19.58	616.47	Yes	
RW-06	05/01/08	636.09	638.10	615.00	590.00	19.70	2.13	21.83	18.17	617.89	Yes	
RW-06	10/20/08	636.09	638.10	615.00	590.00	18.36	1.26	19.62	16.63	619.44	Yes	
RW-06	04/18/09	636.09	638.10	615.00	590.00	19.43	1.43	20.86	17.74	618.33	Yes	
RW-06	04/28/10	636.09	638.10	615.00	590.00	19.99	1.80	21.79	18.39	617.68	Yes	
RW-06	10/25/10	636.09	638.10	615.00	590.00	17.95	1.11	19.06	16.19	619.88	Yes	
RW-06	04/25/11	636.09	638.10	615.00	590.00	19.24	0.99	20.23	17.45	618.62	Yes	
RW-06	09/14/11	636.09	638.10	615.00	590.00	18.48	0.97	19.45	16.69	619.39	Yes	
RW-06	09/23/11	636.09	638.10	615.00	590.00	18.69	0.95	19.64	16.89	619.18	Yes	
RW-06	09/29/11	636.09	638.10	615.00	590.00	18.55	0.98	19.53	16.76	619.31	Yes	
RW-06	10/07/11	636.09	638.10	615.00	590.00	18.68	0.97	19.65	16.89	619.19	Yes	
RW-06	10/11/11	636.09	638.10	615.00	590.00	19.03	0.96	19.99	17.24	618.84	Yes	
RW-06	10/21/11	636.09	638.10	615.00	590.00	19.14	0.98	20.12	17.35	618.72	Yes	
RW-06	10/27/11	636.09	638.10	615.00	590.00	19.24	0.98	20.22	17.45	618.62	Yes	
RW-06	11/04/11	636.09	638.10	615.00	590.00	19.49	0.96	20.45	17.70	618.38	Yes	
RW-06	11/09/11	636.09	638.10	615.00	590.00	19.38	0.92	20.30	17.58	618.50	Yes	
RW-06	11/18/11	636.09	638.10	615.00	590.00	19.46	0.96	20.42	17.67	618.41	Yes	
RW-06	11/22/11	636.09	638.10	615.00	590.00	19.62	0.99	20.61	17.83	618.24	Yes	
RW-06	12/01/11	636.09	638.10	615.00	590.00	20.09	0.98	21.07	18.30	617.77	Yes	
RW-06	01/04/12	636.09	638.10	615.00	590.00	20.01	1.82	21.83	18.41	617.65	Yes	
RW-06	02/16/12	636.09	638.10	615.00	590.00	20.46	2.32	22.78	18.97	617.08	Yes	
RW-06	03/13/12	636.09	638.10	615.00	590.00	21.74	1.44	23.18	20.06	616.01	Yes	
RW-06	04/05/12	636.09	638.10	615.00	590.00	20.73	2.48	23.21	19.28	616.78	Yes	Spill Buddy Before Reading
RW-06	04/05/12	636.09	638.10	615.00	590.00	21.76	1.19	22.95	20.02	616.05	Yes	Spill Buddy After Reading
RW-06	04/16/12	636.09	638.10	615.00	590.00	20.70	2.18	22.88	19.18	616.88	Yes	
RW-06	05/18/12	636.09	638.10	615.00	590.00	20.75	4.48	25.23	19.75	616.28	Yes	
RW-06	06/26/12	636.09	638.10	615.00	590.00	18.55	1.10	19.65	16.79	619.29	Yes	
RW-06	07/11/12	636.09	638.10	615.00	590.00	18.79	1.13	19.92	17.04	619.04	Yes	Spill Buddy Before Reading
RW-06	07/11/12	636.09	638.10	615.00	590.00	19.75	0.02	19.77	17.74	618.35	Yes	Spill Buddy After Reading
RW-06	07/24/12	636.09	638.10	615.00	590.00	19.29	0.02	19.31	17.28	618.81	Yes	
RW-06	08/09/12	636.09	638.10	615.00	590.00	19.51	0.03	19.54	17.51	618.58	Yes	
RW-06	08/17/12	636.09	638.10	615.00	590.00	19.68	0.03	19.71	17.68	618.41	Yes	
RW-06	09/17/12	636.09	638.10	615.00	590.00	20.07	0.02	20.09	18.06	618.03	Yes	
RW-06	09/30/12	636.09	638.10	615.00	590.00	20.30	0.04	20.34	18.30	617.79	Yes	
RW-06	11/21/12	636.09	638.10	615.00	590.00	20.20	1.99	22.19	18.64	617.42	Yes	
RW-06	12/17/12	636.09	638.10	615.00	590.00	20.45	2.09	22.54	18.91	617.15	Yes	
RW-06	03/25/13	636.09	638.10	615.00	590.00	21.08	2.90	23.98	19.73	616.32	Yes	
RW-06	05/05/13	636.09	638.10	615.00	590.00	20.83	2.74	23.57	19.44	616.61	Yes	
RW-06	05/16/13	636.09	638.10	615.00	590.00	20.90	2.33	23.23	19.42	616.64	Yes	Spill Buddy Before Reading
RW-06	05/16/13	636.09	638.10	615.00	590.00	22.92	0.05	22.97	20.92	615.17	Yes	Spill Buddy After Reading

Table 2
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RW-06	10/03/13	636.09	638.10	615.00	590.00	20.60	1.58	22.18	18.95	617.12	Yes	
RW-06	05/22/14	636.09	638.10	615.00	590.00	19.29	1.64	20.93	17.65	618.42	Yes	
RW-06	10/31/14	636.09	638.10	615.00	590.00	18.71	1.58	20.29	17.06	619.01	Yes	
RW-06	05/06/15	636.09	638.10	615.00	590.00	20.21	2.01	22.22	18.65	617.41	Yes	
RW-06	10/05/15	636.09	638.10	615.00	590.00	18.38	1.50	19.88	16.71	619.36	Yes	
RW-06	10/03/16	636.09	638.10	615.00	590.00	17.35	1.35	18.70	15.64	620.43	Yes	
RW-06	06/14/17	636.09	638.10	615.00	590.00	16.40	1.26	17.66	14.67	621.40	Yes	
RW-06	06/21/17	636.09	638.10	615.00	590.00	16.81	1.25	18.06	15.08	620.99	Yes	
RW-06	06/22/17	636.09	638.10	615.00	590.00	16.77	0.64	17.41	14.90	621.18	Yes	
RW-06	06/23/17	636.09	638.10	615.00	590.00	16.85	0.66	17.51	14.99	621.09	Yes	
RW-07	05/04/90	630.70	633.42	611.74	586.74	NP	0.00	18.23	15.51	615.19	Yes	
RW-07	06/01/90	630.70	633.42	611.74	586.74	NP	0.00	18.07	15.35	615.35	Yes	
RW-07	06/19/90	630.70	633.42	611.74	586.74	17.81	0.15	17.96	15.12	615.58	Yes	
RW-07	06/27/90	630.70	633.42	611.74	586.74	NP	0.00	17.97	15.25	615.45	Yes	
RW-07	07/05/90	630.70	633.42	611.74	586.74	18.15	0.01	18.16	15.43	615.27	Yes	
RW-07	07/13/90	630.70	633.42	611.74	586.74	NP	0.00	18.28	15.56	615.14	Yes	
RW-07	07/17/90	630.70	633.42	611.74	586.74	18.15	0.01	18.16	15.43	615.27	Yes	
RW-07	07/25/90	630.70	633.42	611.74	586.74	NP	0.00	18.18	15.46	615.24	Yes	
RW-07	08/09/90	630.70	633.42	611.74	586.74	NP	0.00	17.80	15.08	615.62	Yes	
RW-07	01/04/91	630.70	633.42	611.74	586.74	NP	0.00	17.54	14.82	615.88	Yes	
RW-07	01/30/91	630.70	633.42	611.74	586.74	NP	0.00	18.25	15.53	615.17	Yes	
RW-07	04/24/91	630.70	633.42	611.74	586.74	NP	0.00	17.85	15.13	615.57	Yes	
RW-07	07/09/91	630.70	633.42	611.74	586.74	NP	0.00	16.40	13.68	617.02	Yes	
RW-07	10/08/91	630.70	633.42	611.74	586.74	NP	0.00	15.14	12.42	618.28	Yes	
RW-07	01/07/92	630.70	633.42	611.74	586.74	NP	0.00	15.18	12.46	618.24	Yes	
RW-07	10/14/92	630.70	633.42	611.74	586.74	14.91	0.01	14.92	12.19	618.51	Yes	
RW-07	06/25/93	630.70	633.42	611.74	586.74	NP	0.00	13.74	11.02	619.68	Yes	
RW-07	10/28/93	630.70	633.42	611.74	586.74	NP	0.00	15.44	12.72	617.98	Yes	
RW-07	01/29/94	630.70	633.42	611.74	586.74	NP	0.00	15.87	13.15	617.55	Yes	
RW-07	04/27/94	630.70	633.42	611.74	586.74	NP	0.00	16.09	13.37	617.33	Yes	
RW-07	07/21/94	630.70	633.42	611.74	586.74	NP	0.00	15.02	12.30	618.40	Yes	
RW-07	10/25/94	630.70	633.42	611.74	586.74	NP	0.00	15.32	12.60	618.10	Yes	
RW-07	02/01/95	630.70	633.42	611.74	586.74	NP	0.00	16.50	13.78	616.92	Yes	
RW-07	04/04/95	630.70	633.42	611.74	586.74	NP	0.00	16.75	14.03	616.67	Yes	
RW-07	07/12/95	630.70	633.42	611.74	586.74	NP	0.00	16.09	13.37	617.33	Yes	
RW-07	11/13/95	630.70	633.42	611.74	586.74	NP	0.00	15.19	12.47	618.23	Yes	
RW-07	11/03/98	630.70	633.42	611.74	586.74	NP	0.00	16.78	14.06	616.64	Yes	
RW-07	03/02/99	630.70	633.42	611.74	586.74	NP	0.00	16.93	14.21	616.49	Yes	
RW-07	11/09/99	630.70	633.42	611.74	586.74	NP	0.00	14.50	11.78	618.92	Yes	
RW-07	12/21/99	630.70	633.42	611.74	586.74	NP	0.00	14.15	11.43	619.27	Yes	
RW-07	01/27/00	630.70	633.42	611.74	586.74	NP	0.00	15.97	13.25	617.45	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-07	02/24/00	630.70	633.42	611.74	586.74	NP	0.00	16.21	13.49	617.21	Yes	
RW-07	03/31/00	630.70	633.42	611.74	586.74	NP	0.00	16.28	13.56	617.14	Yes	
RW-07	04/20/00	630.70	633.42	611.74	586.74	NP	0.00	16.20	13.48	617.22	Yes	
RW-07	04/26/00	630.70	633.42	611.74	586.74	NP	0.00	16.28	13.56	617.14	Yes	
RW-07	05/31/00	630.70	633.42	611.74	586.74	NP	0.00	16.32	13.60	617.10	Yes	
RW-07	06/29/00	630.70	633.42	611.74	586.74	NP	0.00	16.10	13.38	617.32	Yes	
RW-07	07/26/00	630.70	633.42	611.74	586.74	NP	0.00	16.10	13.38	617.32	Yes	
RW-07	08/18/00	630.70	633.42	611.74	586.74	NP	0.00	16.42	13.70	617.00	Yes	
RW-07	09/27/00	630.70	633.42	611.74	586.74	NP	0.00	16.62	13.90	616.80	Yes	
RW-07	10/11/00	630.70	633.42	611.74	586.74	NP	0.00	16.65	13.93	616.77	Yes	
RW-07	11/17/00	630.70	633.42	611.74	586.74	NP	0.00	16.58	13.86	616.84	Yes	
RW-07	12/12/00	630.70	633.42	611.74	586.74	NP	0.00	16.53	13.81	616.89	Yes	
RW-07	01/18/01	630.70	633.42	611.74	586.74	16.82	0.02	16.84	14.10	616.60	Yes	
RW-07	05/23/01	630.70	633.42	611.74	586.74	NP	0.00	15.95	13.23	617.47	Yes	
RW-07	06/19/01	630.70	633.42	611.74	586.74	NP	0.00	15.88	13.16	617.54	Yes	
RW-07	07/26/01	630.70	633.42	611.74	586.74	NP	0.00	16.19	13.47	617.23	Yes	
RW-07	08/31/01	630.70	633.42	611.74	586.74	NP	0.00	16.57	13.85	616.85	Yes	
RW-07	09/26/01	630.70	633.42	611.74	586.74	NP	0.00	16.64	13.92	616.78	Yes	
RW-07	12/20/01	630.70	633.42	611.74	586.74	NP	0.00	17.16	14.44	616.26	Yes	
RW-07	01/22/02	630.70	633.42	611.74	586.74	NP	0.00	17.13	14.41	616.29	Yes	
RW-07	02/26/02	630.70	633.42	611.74	586.74	NP	0.00	17.39	14.67	616.03	Yes	
RW-07	03/20/02	630.70	633.42	611.74	586.74	NP	0.00	17.55	14.83	615.87	Yes	
RW-07	04/24/02	630.70	633.42	611.74	586.74	NP	0.00	17.38	14.66	616.04	Yes	
RW-07	05/15/02	630.70	633.42	611.74	586.74	NP	0.00	17.05	14.33	616.37	Yes	
RW-07	06/27/02	630.70	633.42	611.74	586.74	NP	0.00	17.18	14.46	616.24	Yes	
RW-07	07/25/02	630.70	633.42	611.74	586.74	NP	0.00	17.08	14.36	616.34	Yes	
RW-07	08/20/02	630.70	633.42	611.74	586.74	NP	0.00	17.03	14.31	616.39	Yes	
RW-07	09/30/02	630.70	633.42	611.74	586.74	NP	0.00	17.03	14.31	616.39	Yes	
RW-07	11/05/02	630.70	633.42	611.74	586.74	NP	0.00	16.59	13.87	616.83	Yes	
RW-07	12/23/02	630.70	633.42	611.74	586.74	NP	0.00	16.88	14.16	616.54	Yes	
RW-07	01/28/03	630.70	633.42	611.74	586.74	NP	0.00	17.38	14.66	616.04	Yes	
RW-07	02/19/03	630.70	633.42	611.74	586.74	NP	0.00	17.49	14.77	615.93	Yes	
RW-07	04/17/03	630.70	633.42	611.74	586.74	NP	0.00	17.77	15.05	615.65	Yes	
RW-07	10/23/03	630.70	633.42	611.74	586.74	NP	0.00	17.91	15.19	615.51	Yes	
RW-07	12/03/03	630.70	633.42	611.74	586.74	NP	0.00	18.03	15.31	615.39	Yes	
RW-07	04/19/04	631.55	633.20	611.74	586.74	NP	0.00	18.57	16.92	614.63	Yes	
RW-07	07/28/04	631.55	633.20	611.74	586.74	NP	0.00	17.78	16.13	615.42	Yes	
RW-07	11/16/04	631.55	633.20	611.74	586.74	NP	0.00	18.28	16.63	614.92	Yes	
RW-07	04/18/05	631.55	633.20	611.74	586.74	NP	0.00	18.12	16.47	615.08	Yes	
RW-07	10/11/05	631.55	633.20	611.74	586.74	NP	0.00	16.70	15.05	616.50	Yes	
RW-07	05/23/06	631.55	633.20	611.74	586.74	NP	0.00	15.60	13.95	617.60	Yes	
RW-07	10/16/06	631.55	633.20	611.74	586.74	NP	0.00	16.06	14.41	617.14	Yes	

Table 2
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Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
RW-07	04/23/07	631.55	633.20	611.74	586.74	NP	0.00	16.92	15.27	616.28	Yes	No sample - 2" of water around well
RW-07	06/26/07						Abandoned					
EW-01	09/14/11	635.21	634.84	620.71	600.71	NP	0.00	14.61	14.97	620.23	No	TFRT System Down on 8/31/11 for well recovery test
EW-01	09/23/11	635.21	634.84	620.71	600.71	NP	0.00	14.45	14.81	620.39	No	
EW-01	09/29/11	635.21	634.84	620.71	600.71	NP	0.00	14.78	15.14	620.06	No	
EW-01	10/07/11	635.21	634.84	620.71	600.71	NP	0.00	14.67	15.03	620.17	No	
EW-01	10/13/11	635.21	634.84	620.71	600.71	NP	0.00	14.75	15.11	620.09	No	
EW-01	10/21/11	635.21	634.84	620.71	600.71	NP	0.00	14.79	15.15	620.05	No	
EW-01	10/27/11	635.21	634.84	620.71	600.71	NP	0.00	15.11	15.47	619.73	No	
EW-01	11/01/11	635.21	634.84	620.71	600.71	NP	0.00	14.89	15.25	619.95	No	Conducted 2011 annual well pump maintenance
EW-01	11/10/11	635.21	634.84	620.71	600.71	NP	0.00	15.34	15.70	619.50	No	
EW-01	11/18/11	635.21	634.84	620.71	600.71	NP	0.00	15.52	15.88	619.32	No	
EW-01	11/22/11	635.21	634.84	620.71	600.71	NP	0.00	15.75	16.11	619.09	No	
EW-01	11/30/11	635.21	634.84	620.71	600.71	NP	0.00	15.85	16.21	618.99	No	Restarted TFRT system on 11/30/11 with only EW 4 & EW 5
EW-01	09/18/12	635.21	634.84	620.71	600.71	NP	0.00	17.29	17.65	617.55	No	
EW-01	11/21/12	635.21	634.84	620.71	600.71	NP	0.00	18.02	18.38	616.82	No	
EW-01	05/05/13	635.21	634.84	620.71	600.71	NP	0.00	18.52	18.88	616.32	No	
EW-01	10/03/13	635.21	634.84	620.71	600.71	NP	0.00	17.91	18.27	616.93	No	
EW-03	09/14/11	635.87	635.08	620.87	600.87	NP	0.00	15.71	16.51	619.37	No	TFRT System Down on 8/31/11 for well recovery test
EW-03	09/23/11	635.87	635.08	620.87	600.87	NP	0.00	15.94	16.74	619.14	No	
EW-03	09/29/11	635.87	635.08	620.87	600.87	NP	0.00	15.76	16.56	619.32	No	
EW-03	10/07/11	635.87	635.08	620.87	600.87	NP	0.00	16.02	16.82	619.06	No	
EW-03	10/13/11	635.87	635.08	620.87	600.87	NP	0.00	13.46	14.26	621.62	Yes	
EW-03	10/21/11	635.87	635.08	620.87	600.87	NP	0.00	16.39	17.19	618.69	No	
EW-03	10/27/11	635.87	635.08	620.87	600.87	NP	0.00	16.48	17.28	618.60	No	
EW-03	11/02/11	635.87	635.08	620.87	600.87	NP	0.00	16.81	17.61	618.27	No	Conducted 2011 annual well pump maintenance
EW-03	11/10/11	635.87	635.08	620.87	600.87	NP	0.00	16.84	17.64	618.24	No	
EW-03	11/18/11	635.87	635.08	620.87	600.87	NP	0.00	16.92	17.72	618.16	No	
EW-03	11/22/11	635.87	635.08	620.87	600.87	NP	0.00	17.02	17.82	618.06	No	
EW-03	12/01/11	635.87	635.08	620.87	600.87	NP	0.00	17.00	17.80	618.08	No	Restarted TFRT system on 11/30/11 with only EW 4 & EW 5
EW-03	09/18/12	635.87	635.08	620.87	600.87	NP	0.00	17.28	18.08	617.80	No	
EW-03	11/21/12	635.87	635.08	620.87	600.87	NP	0.00	17.85	18.65	617.23	No	
EW-03	05/05/13	635.87	635.08	620.87	600.87	NP	0.00	18.41	19.21	616.67	No	
EW-03	10/03/13	635.87	635.08	620.87	600.87	NP	0.00	17.89	18.69	617.19	No	
EW-04	09/14/11	637.11	636.90	622.11	602.11	16.08	3.52	19.60	17.09	620.02	No	TFRT System Down on 8/31/11 for well recovery test
EW-04	09/23/11	637.11	636.90	622.11	602.11	15.63	6.26	21.89	17.26	619.85	No	
EW-04	09/29/11	637.11	636.90	622.11	602.11	16.03	7.15	23.18	17.86	619.25	No	
EW-04	10/07/11	637.11	636.90	622.11	602.11	15.74	8.46	24.20	17.86	619.25	No	

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EW-04	10/13/11	637.11	636.90	622.11	602.11	15.88	8.85	24.73	18.09	619.02	No	
EW-04	10/21/11	637.11	636.90	622.11	602.11	15.76	9.51	25.27	18.12	618.99	No	
EW-04	10/27/11	637.11	636.90	622.11	602.11	16.09	9.80	25.89	18.52	618.59	No	
EW-04	11/02/11	637.11	636.90	622.11	602.11	16.15	10.00	26.15	18.62	618.49	No	Conducted 2011 annual well pump maintenance
EW-04	11/10/11	637.11	636.90	622.11	602.11	16.19	10.27	26.46	18.72	618.39	No	
EW-04	11/18/11	637.11	636.90	622.11	602.11	16.22	10.77	26.99	18.87	618.24	No	
EW-04	11/22/11	637.11	636.90	622.11	602.11	16.38	11.08	27.46	19.10	618.01	No	
EW-04	11/30/11	637.11	636.90	622.11	602.11	17.73	10.99	28.72	20.43	616.68	No	Restarted TFRT system on 11/30/11 with only EW 4 & EW 5
EW-04	09/18/12	637.11	636.90	622.11	602.11	18.66	6.24	24.90	20.28	616.83	No	
EW-04	11/21/12	637.11	636.90	622.11	602.11	19.42	6.25	25.67	21.04	616.06	No	
EW-04	03/25/13	637.11	636.90	622.11	602.11	20.58	6.18	26.76	22.19	614.92	No	
EW-04	05/05/13	637.11	636.90	622.11	602.11	20.85	6.13	26.98	22.45	614.66	No	
EW-04	05/16/13	637.11	636.90	622.11	602.11	19.92	5.80	25.72	21.44	615.67	No	Spill Buddy Before Reading
EW-04	05/16/13	637.11	636.90	622.11	602.11	25.33	0.31	25.64	25.61	611.50	No	Spill Buddy After Reading
EW-04	10/03/13	637.11	636.90	622.11	602.11	20.00	1.11	21.11	20.46	616.65	No	
EW-05	09/14/11	635.25	634.79	620.25	600.25	16.37	0.03	16.40	16.84	618.41	No	TFRT System Down on 8/31/11 for well recovery test
EW-05	09/23/11	635.25	634.79	620.25	600.25	16.47	0.06	16.53	16.95	618.31	No	
EW-05	09/29/11	635.25	634.79	620.25	600.25	16.43	0.10	16.53	16.92	618.34	No	
EW-05	10/07/11	635.25	634.79	620.25	600.25	16.44	0.08	16.52	16.92	618.33	No	
EW-05	10/13/11	635.25	634.79	620.25	600.25	16.48	0.08	16.56	16.96	618.29	No	
EW-05	10/21/11	635.25	634.79	620.25	600.25	16.88	0.10	16.98	17.37	617.89	No	
EW-05	10/27/11	635.25	634.79	620.25	600.25	17.08	0.12	17.20	17.57	617.68	No	
EW-05	11/01/11	635.25	634.79	620.25	600.25	17.26	0.16	17.42	17.76	617.49	No	Conducted 2011 annual well pump maintenance
EW-05	11/10/11	635.25	634.79	620.25	600.25	17.85	0.25	18.10	18.37	616.88	No	
EW-05	11/18/11	635.25	634.79	620.25	600.25	17.85	0.25	18.10	18.37	616.88	No	
EW-05	11/22/11	635.25	634.79	620.25	600.25	17.97	0.27	18.24	18.49	616.76	No	
EW-05	11/30/11	635.25	634.79	620.25	600.25	17.97	0.27	18.24	18.49	616.76	No	with only EW 4 & EW 5
EW-05	09/18/12	635.25	634.79	620.25	600.25	NP	0.00	17.59	18.05	617.20	No	
EW-05	11/21/12	635.25	634.79	620.25	600.25	18.30	0.02	18.32	18.77	616.48	No	
EW-05	05/05/13	635.25	634.79	620.25	600.25	17.20	0.48	17.68	17.77	617.48	No	
EW-05	10/03/13	635.25	634.79	620.25	600.25	18.08	0.03	18.11	18.55	616.70	No	
EW-05	05/22/14	635.25	634.79	620.25	600.25	16.47	0.26	16.73	16.99	618.26	No	
EW-05	10/31/14	635.25	634.79	620.25	600.25	16.37	0.22	16.59	16.88	618.37	No	
EW-05	05/06/15	635.25	634.79	620.25	600.25	NP	0.00	17.16	17.62	617.63	No	
EW-05	10/05/15	635.25	634.79	620.25	600.25	16.00	0.20	16.20	16.51	618.74	No	
EW-06	07/25/11	636.90	639.00	621.90	601.90	NP	0.00	19.80	17.70	619.20	No	
EW-06	08/18/11	636.90	639.00	621.90	601.90	NP	0.00	19.28	17.18	619.72	No	
EW-06	08/25/11	636.90	639.00	621.90	601.90	NP	0.00	19.78	17.68	619.22	No	
EW-06	09/01/11	636.90	639.00	621.90	601.90	NP	0.00	19.77	17.67	619.23	No	
EW-06	09/08/11	636.90	639.00	621.90	601.90	NP	0.00	20.27	18.17	618.73	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-06	09/14/11	636.90	639.00	621.90	601.90	NP	0.00	20.65	18.55	618.35	No	
EW-06	09/23/11	636.90	639.00	621.90	601.90	NP	0.00	20.77	18.67	618.23	No	
EW-06	09/29/11	636.90	639.00	621.90	601.90	NP	0.00	20.74	18.64	618.26	No	
EW-06	10/07/11	636.90	639.00	621.90	601.90	NP	0.00	20.77	18.67	618.23	No	
EW-06	10/11/11	636.90	639.00	621.90	601.90	NP	0.00	20.94	18.84	618.06	No	
EW-06	10/21/11	636.90	639.00	621.90	601.90	NP	0.00	21.14	19.04	617.86	No	
EW-06	10/27/11	636.90	639.00	621.90	601.90	NP	0.00	20.56	18.46	618.44	No	
EW-06	11/04/11	636.90	639.00	621.90	601.90	NP	0.00	21.47	19.37	617.53	No	
EW-06	11/09/11	636.90	639.00	621.90	601.90	NP	0.00	21.35	19.25	617.65	No	
EW-06	11/18/11	636.90	639.00	621.90	601.90	NP	0.00	21.51	19.41	617.49	No	
EW-06	11/22/11	636.90	639.00	621.90	601.90	NP	0.00	21.63	19.53	617.37	No	
EW-06	12/01/11	636.90	639.00	621.90	601.90	NP	0.00	22.04	19.94	616.96	No	
EW-06	01/04/12	636.90	639.00	621.90	601.90	NP	0.00	22.34	20.24	616.66	No	
EW-06	02/16/12	636.90	639.00	621.90	601.90	NP	0.00	22.85	20.75	616.15	No	
EW-06	03/13/12	636.90	639.00	621.90	601.90	NP	0.00	23.04	20.94	615.96	No	
EW-06	04/16/12	636.90	639.00	621.90	601.90	NP	0.00	23.39	21.29	615.61	No	
EW-06	05/18/12	636.90	639.00	621.90	601.90	22.36	0.45	22.81	20.36	616.54	No	
EW-06	06/26/12	636.90	639.00	621.90	601.90	20.78	0.26	21.04	18.74	618.16	No	
EW-06	07/12/12	636.90	639.00	621.90	601.90	20.93	0.26	21.19	18.89	618.01	No	
EW-06	07/24/12	636.90	639.00	621.90	601.90	21.10	0.59	21.69	19.13	617.77	No	
EW-06	08/09/12	636.90	639.00	621.90	601.90	21.22	0.63	21.85	19.26	617.64	No	Spill Buddy Before Reading
EW-06	08/09/12	636.90	639.00	621.90	601.90	21.48	0.13	21.61	19.41	617.49	No	Spill Buddy After Reading
EW-06	08/17/12	636.90	639.00	621.90	601.90	21.39	0.60	21.99	19.43	617.47	No	
EW-06	09/17/12	636.90	639.00	621.90	601.90	21.75	0.97	22.72	19.87	617.03	No	
EW-06	09/18/12	636.90	639.00	621.90	601.90	21.70	0.65	22.35	19.75	617.15	No	Spill Buddy Before Reading
EW-06	09/18/12	636.90	639.00	621.90	601.90	21.99	0.02	22.01	19.89	617.01	No	Spill Buddy After Reading
EW-06	09/20/12	636.90	639.00	621.90	601.90	21.86	0.40	22.26	19.85	617.05	No	
EW-06	09/30/12	636.90	639.00	621.90	601.90	21.98	0.44	22.42	19.98	616.92	No	
EW-06	10/22/12	636.90	639.00	621.90	601.90	22.37	0.58	22.95	20.40	616.50	No	
EW-06	11/21/12	636.90	639.00	621.90	601.90	22.50	0.44	22.94	20.50	616.40	No	
EW-06	12/17/12	636.90	639.00	621.90	601.90	22.72	0.77	23.49	20.79	616.11	No	
EW-06	12/20/12	636.90	639.00	621.90	601.90	22.71	0.78	23.49	20.79	616.11	No	
EW-06	03/25/13	636.90	639.00	621.90	601.90	23.22	2.22	25.44	21.62	615.28	No	
EW-06	04/03/13	636.90	639.00	621.90	601.90	23.21	2.31	25.52	21.63	615.27	No	Spill Buddy Before Reading
EW-06	04/03/13	636.90	639.00	621.90	601.90	23.94	0.05	23.99	21.85	615.05	No	Spill Buddy After Reading
EW-06	05/05/13	636.90	639.00	621.90	601.90	23.31	1.72	25.03	21.60	615.30	No	
EW-06	10/03/13	636.90	639.00	621.90	601.90	22.59	0.89	23.48	20.69	616.21	No	
EW-06	05/22/14	636.90	639.00	621.90	601.90	21.61	0.37	21.98	19.59	617.31	No	
EW-06	10/31/14	636.90	639.00	621.90	601.90	20.66	0.39	21.05	18.65	618.25	No	
EW-06	05/06/15	636.90	639.00	621.90	601.90	22.18	1.84	24.02	20.50	616.40	No	
EW-06	10/05/15	636.90	639.00	621.90	601.90	20.79	0.29	21.08	18.76	618.14	No	
EW-06	05/23/16	636.90	639.00	621.90	601.90	18.09	0.43	18.52	16.09	620.81	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-06	10/03/16	636.90	639.00	621.90	601.90	19.59	0.03	19.62	17.50	619.40	No	
EW-06	06/29/17	636.90	639.00	621.90	601.90	19.03	0.32	19.35	17.00	619.90	No	
EW-07	07/25/11	635.40	637.20	620.40	600.40	NP	0.00	18.87	17.07	618.33	No	
EW-07	08/18/11	635.40	637.20	620.40	600.40	NP	0.00	18.51	16.71	618.69	No	
EW-07	08/25/11	635.40	637.20	620.40	600.40	NP	0.00	18.92	17.12	618.28	No	
EW-07	09/01/11	635.40	637.20	620.40	600.40	NP	0.00	19.04	17.24	618.16	No	
EW-07	09/08/11	635.40	637.20	620.40	600.40	NP	0.00	19.52	17.72	617.68	No	
EW-07	09/14/11	635.40	637.20	620.40	600.40	NP	0.00	19.84	18.04	617.36	No	
EW-07	09/23/11	635.40	637.20	620.40	600.40	NP	0.00	20.04	18.24	617.16	No	
EW-07	09/29/11	635.40	637.20	620.40	600.40	NP	0.00	20.04	18.24	617.16	No	
EW-07	10/07/11	635.40	637.20	620.40	600.40	NP	0.00	20.18	18.38	617.02	No	
EW-07	10/11/11	635.40	637.20	620.40	600.40	NP	0.00	20.31	18.51	616.89	No	
EW-07	10/21/11	635.40	637.20	620.40	600.40	NP	0.00	20.56	18.76	616.64	No	
EW-07	10/27/11	635.40	637.20	620.40	600.40	NP	0.00	20.66	18.86	616.54	No	
EW-07	11/01/11	635.40	637.20	620.40	600.40	NP	0.00	20.85	19.05	616.35	No	
EW-07	11/09/11	635.40	637.20	620.40	600.40	NP	0.00	20.82	19.02	616.38	No	
EW-07	11/18/11	635.40	637.20	620.40	600.40	NP	0.00	20.98	19.18	616.22	No	
EW-07	11/22/11	635.40	637.20	620.40	600.40	NP	0.00	21.11	19.31	616.09	No	
EW-07	12/01/11	635.40	637.20	620.40	600.40	NP	0.00	21.04	19.24	616.16	No	
EW-07	01/04/12	635.40	637.20	620.40	600.40	NP	0.00	21.75	19.95	615.45	No	
EW-07	02/16/12	635.40	637.20	620.40	600.40	NP	0.00	22.26	20.46	614.94	No	
EW-07	03/13/12	635.40	637.20	620.40	600.40	NP	0.00	22.51	20.71	614.69	No	
EW-07	04/16/12	635.40	637.20	620.40	600.40	NP	0.00	22.40	20.60	614.80	No	
EW-07	05/18/12	635.40	637.20	620.40	600.40	NP	0.00	21.45	19.65	615.75	No	
EW-07	06/26/12	635.40	637.20	620.40	600.40	NP	0.00	19.45	17.65	617.75	No	
EW-07	07/24/12	635.40	637.20	620.40	600.40	NP	0.00	20.20	18.40	617.00	No	
EW-07	08/17/12	635.40	637.20	620.40	600.40	NP	0.00	20.48	18.68	616.72	No	
EW-07	09/17/12	635.40	637.20	620.40	600.40	NP	0.00	20.90	19.10	616.30	No	
EW-07	09/20/12	635.40	637.20	620.40	600.40	NP	0.00	20.94	19.14	616.26	No	
EW-07	09/30/12	635.40	637.20	620.40	600.40	NP	0.00	21.07	19.27	616.13	No	
EW-07	10/22/12	635.40	637.20	620.40	600.40	NP	0.00	21.43	19.63	615.77	No	
EW-07	11/21/12	635.40	637.20	620.40	600.40	NP	0.00	21.60	19.80	615.60	No	
EW-07	12/17/12	635.40	637.20	620.40	600.40	NP	0.00	21.84	20.04	615.36	No	
EW-07	12/20/12	635.40	637.20	620.40	600.40	NP	0.00	21.88	20.08	615.32	No	
EW-07	03/25/13	635.40	637.20	620.40	600.40	NP	0.00	22.70	20.90	614.50	No	
EW-07	05/05/13	635.40	637.20	620.40	600.40	NP	0.00	22.01	20.21	615.19	No	
EW-07	10/03/13	635.40	637.20	620.40	600.40	21.00	4.16	25.16	20.14	615.26	No	
EW-07	05/22/14	635.40	637.20	620.40	600.40	19.69	1.17	20.86	18.15	617.25	No	
EW-07	10/31/14	635.40	637.20	620.40	600.40	19.34	1.01	20.35	17.77	617.63	No	
EW-07	05/06/15	635.40	637.20	620.40	600.40	20.83	1.51	22.34	19.37	616.03	No	
EW-07	10/05/15	635.40	637.20	620.40	600.40	19.14	0.78	19.92	17.52	617.88	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-07	05/23/16	635.40	637.20	620.40	600.40	NP	0.00	17.73	15.93	619.47	No	
EW-07	10/03/16	635.40	637.20	620.40	600.40	18.19	0.65	18.84	16.54	618.86	No	
EW-07	06/29/17	635.40	637.20	620.40	600.40	17.68	0.67	18.35	16.03	619.37	No	
EW-08	07/25/11	635.30	637.26	620.30	600.30	NP	0.00	17.82	15.86	619.44	No	
EW-08	08/18/11	635.30	637.26	620.30	600.30	NP	0.00	17.30	15.34	619.96	No	
EW-08	08/25/11	635.30	637.26	620.30	600.30	NP	0.00	17.73	15.77	619.53	No	
EW-08	09/01/11	635.30	637.26	620.30	600.30	NP	0.00	17.78	15.82	619.48	No	
EW-08	09/08/11	635.30	637.26	620.30	600.30	NP	0.00	18.25	16.29	619.01	No	
EW-08	09/14/11	635.30	637.26	620.30	600.30	NP	0.00	18.61	16.65	618.65	No	
EW-08	09/23/11	635.30	637.26	620.30	600.30	NP	0.00	18.74	16.78	618.52	No	
EW-08	09/29/11	635.30	637.26	620.30	600.30	NP	0.00	18.77	16.81	618.49	No	
EW-08	10/07/11	635.30	637.26	620.30	600.30	NP	0.00	18.78	16.82	618.48	No	
EW-08	10/11/11	635.30	637.26	620.30	600.30	NP	0.00	18.95	16.99	618.31	No	
EW-08	10/21/11	635.30	637.26	620.30	600.30	NP	0.00	19.16	17.20	618.10	No	
EW-08	10/27/11	635.30	637.26	620.30	600.30	NP	0.00	19.30	17.34	617.96	No	
EW-08	11/04/11	635.30	637.26	620.30	600.30	NP	0.00	19.46	17.50	617.80	No	
EW-08	11/09/11	635.30	637.26	620.30	600.30	NP	0.00	19.39	17.43	617.87	No	
EW-08	11/18/11	635.30	637.26	620.30	600.30	NP	0.00	19.53	17.57	617.73	No	
EW-08	11/22/11	635.30	637.26	620.30	600.30	NP	0.00	19.63	17.67	617.63	No	
EW-08	12/01/11	635.30	637.26	620.30	600.30	NP	0.00	19.99	18.03	617.27	No	
EW-08	01/04/12	635.30	637.26	620.30	600.30	NP	0.00	20.25	18.29	617.01	No	
EW-08	02/16/12	635.30	637.26	620.30	600.30	NP	0.00	20.73	18.77	616.53	No	
EW-08	03/13/12	635.30	637.26	620.30	600.30	NP	0.00	20.95	18.99	616.31	No	
EW-08	04/16/12	635.30	637.26	620.30	600.30	NP	0.00	21.29	19.33	615.97	No	
EW-08	05/18/12	635.30	637.26	620.30	600.30	NP	0.00	20.42	18.46	616.84	No	
EW-08	06/26/12	635.30	637.26	620.30	600.30	NP	0.00	18.86	16.90	618.40	No	
EW-08	07/24/12	635.30	637.26	620.30	600.30	NP	0.00	18.17	16.21	619.09	No	
EW-08	08/19/12	635.30	637.26	620.30	600.30	NP	0.00	19.51	17.55	617.75	No	
EW-08	09/17/12	635.30	637.26	620.30	600.30	NP	0.00	19.57	17.61	617.69	No	
EW-08	09/30/12	635.30	637.26	620.30	600.30	NP	0.00	20.07	18.11	617.19	No	
EW-08	10/22/12	635.30	637.26	620.30	600.30	NP	0.00	20.40	18.44	616.86	No	
EW-08	11/21/12	635.30	637.26	620.30	600.30	NP	0.00	20.53	18.57	616.73	No	
EW-08	12/17/12	635.30	637.26	620.30	600.30	NP	0.00	20.79	18.83	616.47	No	
EW-08	03/25/13	635.30	637.26	620.30	600.30	NP	0.00	21.53	19.57	615.73	No	
EW-08	05/05/13	635.30	637.26	620.30	600.30	NP	0.00	21.38	19.42	615.88	No	
EW-08	10/03/13	635.30	637.26	620.30	600.30	NP	0.00	21.80	19.84	615.46	No	
EW-08	05/21/14	635.30	637.26	620.30	600.30	NP	0.00	18.68	16.72	618.58	No	
EW-08	10/30/14	635.30	637.26	620.30	600.30	NP	0.00	18.51	16.55	618.75	No	
EW-08	05/05/15	635.30	637.26	620.30	600.30	NP	0.00	20.45	18.49	616.81	No	
EW-08	10/06/15	635.30	637.26	620.30	600.30	NP	0.00	18.75	16.79	618.51	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-08	05/23/16	635.30	637.26	620.30	600.30	NP	0.00	16.31	14.35	620.95	Yes	
EW-08	10/03/16	635.30	637.26	620.30	600.30	NP	0.00	17.60	15.64	619.66	No	
EW-08	06/29/17	635.30	637.26	620.30	600.30	NP	0.00	17.16	15.20	620.10	No	
EW-09	07/25/11	635.20	637.34	620.20	600.20	NP	0.00	18.38	16.24	618.96	No	
EW-09	08/18/11	635.20	637.34	620.20	600.20	NP	0.00	17.96	15.82	619.38	No	
EW-09	08/25/11	635.20	637.34	620.20	600.20	NP	0.00	18.33	16.19	619.01	No	
EW-09	09/01/11	635.20	637.34	620.20	600.20	NP	0.00	18.45	16.31	618.89	No	
EW-09	09/08/11	635.20	637.34	620.20	600.20	NP	0.00	18.90	16.76	618.44	No	
EW-09	09/14/11	635.20	637.34	620.20	600.20	NP	0.00	19.24	17.10	618.10	No	
EW-09	09/23/11	635.20	637.34	620.20	600.20	NP	0.00	19.47	17.33	617.87	No	
EW-09	09/29/11	635.20	637.34	620.20	600.20	NP	0.00	19.46	17.32	617.88	No	
EW-09	10/07/11	635.20	637.34	620.20	600.20	NP	0.00	19.62	17.48	617.72	No	
EW-09	10/11/11	635.20	637.34	620.20	600.20	NP	0.00	19.74	17.60	617.60	No	
EW-09	10/21/11	635.20	637.34	620.20	600.20	NP	0.00	19.89	17.75	617.45	No	
EW-09	10/27/11	635.20	637.34	620.20	600.20	NP	0.00	20.14	18.00	617.20	No	
EW-09	11/04/11	635.20	637.34	620.20	600.20	NP	0.00	20.39	18.25	616.95	No	
EW-09	11/09/11	635.20	637.34	620.20	600.20	NP	0.00	20.35	18.21	616.99	No	
EW-09	11/18/11	635.20	637.34	620.20	600.20	NP	0.00	20.56	18.42	616.78	No	
EW-09	11/22/11	635.20	637.34	620.20	600.20	NP	0.00	20.28	18.14	617.06	No	
EW-09	12/01/11	635.20	637.34	620.20	600.20	NP	0.00	20.66	18.52	616.68	No	
EW-09	01/04/12	635.20	637.34	620.20	600.20	NP	0.00	21.37	19.23	615.97	No	
EW-09	02/16/12	635.20	637.34	620.20	600.20	NP	0.00	21.92	19.78	615.42	No	
EW-09	03/13/12	635.20	637.34	620.20	600.20	NP	0.00	22.20	20.06	615.14	No	
EW-09	04/16/12	635.20	637.34	620.20	600.20	NP	0.00	22.05	19.91	615.29	No	
EW-09	05/18/12	635.20	637.34	620.20	600.20	NP	0.00	21.08	18.94	616.26	No	
EW-09	06/26/12	635.20	637.34	620.20	600.20	NP	0.00	19.32	17.18	618.02	No	
EW-09	07/24/12	635.20	637.34	620.20	600.20	NP	0.00	19.89	17.75	617.45	No	
EW-09	08/19/12	635.20	637.34	620.20	600.20	NP	0.00	20.29	18.15	617.05	No	
EW-09	09/17/12	635.20	637.34	620.20	600.20	NP	0.00	20.78	18.64	616.56	No	
EW-09	09/30/12	635.20	637.34	620.20	600.20	NP	0.00	21.03	18.89	616.31	No	
EW-09	11/21/12	635.20	637.34	620.20	600.20	NP	0.00	21.38	19.24	615.96	No	
EW-09	12/17/12	635.20	637.34	620.20	600.20	NP	0.00	21.71	19.57	615.63	No	
EW-09	03/25/13	635.20	637.34	620.20	600.20	NP	0.00	22.57	20.43	614.77	No	
EW-09	05/05/13	635.20	637.34	620.20	600.20	NP	0.00	22.15	20.01	615.19	No	
EW-09	10/03/13	635.20	637.34	620.20	600.20	NP	0.00	21.58	19.44	615.76	No	
EW-09	05/21/14	635.20	637.34	620.20	600.20	NP	0.00	20.01	17.87	617.33	No	
EW-09	10/31/14	635.20	637.34	620.20	600.20	NP	0.00	19.57	17.43	617.77	No	
EW-09	05/05/15	635.20	637.34	620.20	600.20	NP	0.00	21.31	19.17	616.03	No	
EW-09	10/05/15	635.20	637.34	620.20	600.20	NP	0.00	19.23	17.09	618.11	No	
EW-09	05/23/16	635.20	637.34	620.20	600.20	NP	0.00	16.90	14.76	620.44	Yes	
EW-09	10/03/16	635.20	637.34	620.20	600.20	NP	0.00	17.90	15.76	619.44	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-09	06/29/17	635.20	637.34	620.20	600.20	NP	0.00	17.46	15.32	619.88	No	
EW-10	07/25/11	635.90	637.83	620.90	600.90	NP	0.00	18.21	16.28	619.62	No	
EW-10	08/18/11	635.90	637.83	620.90	600.90	NP	0.00	17.74	15.81	620.09	No	
EW-10	08/25/11	635.90	637.83	620.90	600.90	NP	0.00	18.07	16.14	619.76	No	
EW-10	09/01/11	635.90	637.83	620.90	600.90	NP	0.00	18.03	16.10	619.80	No	
EW-10	09/08/11	635.90	637.83	620.90	600.90	NP	0.00	18.54	16.61	619.29	No	
EW-10	09/14/11	635.90	637.83	620.90	600.90	NP	0.00	18.93	17.00	618.90	No	
EW-10	09/23/11	635.90	637.83	620.90	600.90	NP	0.00	19.16	17.23	618.67	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-10	09/29/11	635.90	637.83	620.90	600.90	NP	0.00	19.10	17.17	618.73	No	
EW-10	10/07/11	635.90	637.83	620.90	600.90	NP	0.00	19.24	17.31	618.59	No	
EW-10	10/11/11	635.90	637.83	620.90	600.90	NP	0.00	19.38	17.45	618.45	No	
EW-10	10/21/11	635.90	637.83	620.90	600.90	NP	0.00	19.69	17.76	618.14	No	
EW-10	10/27/11	635.90	637.83	620.90	600.90	NP	0.00	19.83	17.90	618.00	No	
EW-10	11/04/11	635.90	637.83	620.90	600.90	NP	0.00	20.05	18.12	617.78	No	
EW-10	11/09/11	635.90	637.83	620.90	600.90	NP	0.00	19.95	18.02	617.88	No	
EW-10	11/18/11	635.90	637.83	620.90	600.90	NP	0.00	20.12	18.19	617.71	No	
EW-10	11/22/11	635.90	637.83	620.90	600.90	NP	0.00	20.20	18.27	617.63	No	
EW-10	12/01/11	635.90	637.83	620.90	600.90	NP	0.00	20.66	18.73	617.17	No	
EW-10	01/04/12	635.90	637.83	620.90	600.90	NP	0.00	20.85	18.92	616.98	No	
EW-10	02/16/12	635.90	637.83	620.90	600.90	NP	0.00	21.40	19.47	616.43	No	
EW-10	03/13/12	635.90	637.83	620.90	600.90	NP	0.00	21.65	19.72	616.18	No	
EW-10	04/16/12	635.90	637.83	620.90	600.90	NP	0.00	21.59	19.66	616.24	No	
EW-10	05/18/12	635.90	637.83	620.90	600.90	NP	0.00	20.68	18.75	617.15	No	
EW-10	06/26/12	635.90	637.83	620.90	600.90	NP	0.00	19.19	17.26	618.64	No	
EW-10	07/24/12	635.90	637.83	620.90	600.90	NP	0.00	19.54	17.61	618.29	No	
EW-10	08/19/12	635.90	637.83	620.90	600.90	NP	0.00	19.93	18.00	617.90	No	
EW-10	09/17/12	635.90	637.83	620.90	600.90	NP	0.00	20.33	18.40	617.50	No	
EW-10	09/30/12	635.90	637.83	620.90	600.90	NP	0.00	20.55	18.62	617.28	No	
EW-10	11/21/12	635.90	637.83	620.90	600.90	NP	0.00	20.96	19.03	616.87	No	
EW-10	12/17/12	635.90	637.83	620.90	600.90	NP	0.00	21.19	19.26	616.64	No	
EW-10	03/25/13	635.90	637.83	620.90	600.90	NP	0.00	21.97	20.04	615.86	No	
EW-10	05/05/13	635.90	637.83	620.90	600.90	NP	0.00	21.72	19.79	616.11	No	
EW-10	10/13/13	635.90	637.83	620.90	600.90	NP	0.00	21.17	19.24	616.66	No	
EW-10	05/21/14	635.90	637.83	620.90	600.90	NP	0.00	19.97	18.04	617.86	No	
EW-10	10/31/14	635.90	637.83	620.90	600.90	NP	0.00	19.30	17.37	618.53	No	
EW-10	05/05/15	635.90	637.83	620.90	600.90	NP	0.00	21.05	19.12	616.78	No	
EW-10	10/05/15	635.90	637.83	620.90	600.90	NP	0.00	18.98	17.05	618.85	No	
EW-10	05/23/16	635.90	637.83	620.90	600.90	NP	0.00	16.60	14.67	621.23	Yes	
EW-10	10/03/16	635.90	637.83	620.90	600.90	NP	0.00	17.65	15.72	620.18	No	
EW-10	06/29/17	635.90	637.83	620.90	600.90	NP	0.00	17.31	15.38	620.52	No	
EW-11	07/25/11	637.20	639.14	622.20	602.20	18.65	1.84	20.49	17.13	620.07	No	
EW-11	08/18/11	637.20	639.14	622.20	602.20	17.94	3.58	21.52	16.81	620.39	No	
EW-11	08/25/11	637.20	639.14	622.20	602.20	18.28	4.01	22.29	17.25	619.95	No	
EW-11	09/01/11	637.20	639.14	622.20	602.20	18.15	4.05	22.20	17.12	620.08	No	
EW-11	09/08/11	637.20	639.14	622.20	602.20	18.69	4.08	22.77	17.67	619.53	No	
EW-11	09/14/11	637.20	639.14	622.20	602.20	19.10	4.30	23.40	18.13	619.07	No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
EW-11	09/23/11	637.20	639.14	622.20	602.20	19.20	4.66	23.86	18.31	618.89	No	
EW-11	09/29/11	637.20	639.14	622.20	602.20	18.99	5.13	24.12	18.21	618.99	No	
EW-11	10/07/11	637.20	639.14	622.20	602.20	19.15	5.07	24.22	18.36	618.84	No	
EW-11	10/11/11	637.20	639.14	622.20	602.20	19.21	5.16	24.37	18.44	618.76	No	
EW-11	10/21/11	637.20	639.14	622.20	602.20	19.62	4.13	23.75	18.61	618.59	No	
EW-11	10/27/11	637.20	639.14	622.20	602.20	19.70	4.78	24.48	18.84	618.36	No	
EW-11	11/04/11	637.20	639.14	622.20	602.20	19.87	5.03	24.90	19.07	618.13	No	
EW-11	11/09/11	637.20	639.14	622.20	602.20	19.68	5.31	24.99	18.94	618.26	No	
EW-11	11/10/11	637.20	639.14	622.20	602.20	19.80	5.49	25.29	19.10	618.10	No	
EW-11	11/10/11	637.20	639.14	622.20	602.20	21.71	0.11	21.82	19.79	617.41	No	Before EFR
EW-11	11/13/11	637.20	639.14	622.20	602.20	19.99	2.76	22.75	18.67	618.53	No	After EFR
EW-11	11/18/11	637.20	639.14	622.20	602.20	20.23	3.07	23.30	18.98	618.22	No	EFR Check
EW-11	11/22/11	637.20	639.14	622.20	602.20	20.38	3.32	23.70	19.19	618.01	No	
EW-11	12/01/11	637.20	639.14	622.20	602.20	20.71	3.88	24.59	19.65	617.55	No	
EW-11	01/04/12	637.20	639.14	622.20	602.20	20.67	4.96	25.63	19.85	617.35	No	
EW-11	02/16/12	637.20	639.14	622.20	602.20	21.31	4.87	26.18	20.47	616.73	No	
EW-11	03/13/12	637.20	639.14	622.20	602.20	21.68	4.34	26.02	20.72	616.48	No	
EW-11	04/12/12	637.20	639.14	622.20	602.20	21.61	4.06	25.67	20.59	616.61	No	Spill Buddy Before Reading
EW-11	04/12/12	637.20	639.14	622.20	602.20	22.65	0.17	22.82	20.75	616.45	No	Spill Buddy After Reading
EW-11	04/16/12	637.20	639.14	622.20	602.20	22.03	2.56	24.59	20.67	616.53	No	
EW-11	03/13/12	637.20	639.14	622.20	602.20	21.68	4.34	26.02	20.72	616.48	No	
EW-11	04/12/12	637.20	639.14	622.20	602.20	21.61	4.06	25.67	20.59	616.61	No	Spill Buddy Before Reading
EW-11	04/12/12	637.20	639.14	622.20	602.20	22.65	0.17	22.82	20.75	616.45	No	Spill Buddy After Reading
EW-11	04/16/12	637.20	639.14	622.20	602.20	22.03	2.56	24.59	20.67	616.53	No	
EW-11	05/18/12	637.20	639.14	622.20	602.20	19.93	1.75	21.68	18.39	618.81	No	
EW-11	06/26/12	637.20	639.14	622.20	602.20	19.44	3.31	22.75	18.25	618.95	No	
EW-11	06/27/12	637.20	639.14	622.20	602.20	19.44	3.31	22.75	18.25	618.95	No	Installed Portable system 1
EW-11	11/21/12	637.20	639.14	622.20	602.20	21.42	2.40	23.82	20.02	617.18	No	
EW-11	12/17/12	637.20	639.14	622.20	602.20	21.56	3.29	24.85	20.36	616.84	No	
EW-11	03/25/13	637.20	639.14	622.20	602.20	22.38	3.40	25.78	21.21	615.99	No	
EW-11	05/05/13	637.20	639.14	622.20	602.20	22.07	3.37	25.44	20.89	616.31	No	
EW-11	05/16/13	637.20	639.14	622.20	602.20	21.98	3.60	25.58	20.85	616.35	No	Spill Buddy Before Reading
EW-11	05/16/13	637.20	639.14	622.20	602.20	22.92	0.05	22.97	20.99	616.21	No	Spill Buddy After Reading
EW-11	10/03/13	637.20	639.14	622.20	602.20	21.28	4.69	25.97	20.40	616.80	No	
EW-11	05/22/14	637.20	639.14	622.20	602.20	19.96	5.07	25.03	19.17	618.03	No	
EW-11	10/31/14	637.20	639.14	622.20	602.20	19.25	5.11	24.36	18.46	618.74	No	
EW-11	05/06/15	637.20	639.14	622.20	602.20	21.02	4.70	25.72	20.14	617.06	No	
EW-11	10/05/15	637.20	639.14	622.20	602.20	19.29	3.63	22.92	18.17	619.03	No	
EW-11	05/23/16	637.20	639.14	622.20	602.20	16.07	7.92	23.99	15.92	621.28	No	
EW-11	10/03/16	637.20	639.14	622.20	602.20	17.65	5.78	23.43	17.02	620.18	No	
EW-11	06/14/17	637.20	639.14	622.20	602.20	16.42	7.04	23.46	16.07	621.13	No	
EW-11	06/21/17	637.20	639.14	622.20	602.20	16.93	6.39	23.32	16.43	620.77	No	
EW-11	06/22/17	637.20	639.14	622.20	602.20	17.66	1.78	19.44	16.12	621.08	No	
EW-11	06/23/17	637.20	639.14	622.20	602.20	17.78	1.90	19.68	16.27	620.93	No	
Tank 1	01/22/02	----	----	----	----	NP	0.00	4.84	----	----	----	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
Tank 1	02/26/02	----	----	----	----	3.81	1.07	4.88	----	----	----	
Tank 1	03/20/02	----	----	----	----	4.29	0.59	4.88	----	----	----	
Tank 1	04/24/02	----	----	----	----	NP	0.00	5.15	----	----	----	Tank Empty
Tank 1	05/15/02	----	----	----	----	3.56	1.34	4.90	----	----	----	
Tank 1	06/27/02	----	----	----	----	3.06	1.82	4.88	----	----	----	
Tank 1	07/25/02	----	----	----	----	2.55	2.34	4.89	----	----	----	
Tank 1	08/20/02	----	----	----	----	2.41	2.48	4.89	----	----	----	
Tank 1	09/30/02	----	----	----	----	2.36	2.53	4.89	----	----	----	
Tank 1	11/05/02	----	----	----	----	2.38	2.49	4.87	----	----	----	
Tank 1	12/23/02	----	----	----	----	2.39	2.50	4.89	----	----	----	
Tank 1	01/28/03	----	----	----	----	2.39	2.52	4.91	----	----	----	
Tank 1	02/19/03	----	----	----	----	2.26	2.65	4.91	----	----	----	
Tank 1	04/17/03	----	----	----	----	1.64	3.27	4.91	----	----	----	
Tank 1	05/15/03	----	----	----	----	4.59	0.43	5.02	----	----	----	
Tank 1	06/10/03	----	----	----	----	4.25	0.78	5.03	----	----	----	
Tank 1	07/30/03	----	----	----	----	4.89	0.12	5.01	----	----	----	
Tank 1	08/12/03	----	----	----	----	4.68	0.33	5.01	----	----	----	
Tank 1	09/08/03	----	----	----	----	4.66	0.35	5.01	----	----	----	
Tank 1	10/02/03	----	----	----	----	4.35	0.70	5.05	----	----	----	
Tank 1	12/03/03	----	----	----	----	3.81	1.22	5.03	----	----	----	
Tank 2	01/22/02	----	----	----	----	4.87	0.08	4.95	----	----	----	
Tank 2	02/26/02	----	----	----	----	4.84	0.10	4.94	----	----	----	
Tank 2	03/20/02	----	----	----	----	4.68	0.26	4.94	----	----	----	
Tank 2	04/24/02	----	----	----	----	NP	0.00	5.05	----	----	----	
Tank 2	05/15/02	----	----	----	----	4.65	0.31	4.96	----	----	----	
Tank 2	06/27/02	----	----	----	----	4.65	0.32	4.97	----	----	----	
Tank 2	07/25/02	----	----	----	----	4.64	0.34	4.98	----	----	----	
Tank 2	08/20/02	----	----	----	----	4.64	0.34	4.98	----	----	----	
Tank 2	09/30/02	----	----	----	----	4.65	0.33	4.98	----	----	----	
Tank 2	11/05/02	----	----	----	----	4.67	0.28	4.95	----	----	----	
Tank 2	12/23/02	----	----	----	----	4.69	0.29	4.98	----	----	----	
Tank 2	01/28/03	----	----	----	----	4.71	0.28	4.99	----	----	----	
Tank 2	02/19/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	04/17/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	05/15/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	06/10/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	10/23/03	----	----	----	----	NM	NM	NM	----	----	----	
Tank 2	10/02/03	----	----	----	----	4.57	0.48	5.05	----	----	----	
Tank 2	01/20/04	----	----	----	----	4.58	0.45	5.03	----	----	----	
Tank 2	07/28/04	----	----	----	----	4.32	0.71	5.03	----	----	----	
VE-1	07/20/11	634.30	636.30	620.30	605.30	NP	0.00	17.24	15.24	619.06	No	
VE-1	09/20/12		636.30			19.33	1.27	20.60	-616.68		No	
VE-1	10/22/12	NM										
VE-1	12/20/12		636.30			20.25	1.51	21.76	-615.71		No	

Table 2
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elevation	TOC Elevation	TOS Elevation	BOS Elevation	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Screen Submerged Below Water Table?	Comments/Observations
VE-2	07/20/11	634.20	636.20	621.20	606.20	NP	0.00	17.10	15.10	619.10	No	
VE-2	09/20/12		636.20			19.48	2.27	21.75	-616.21		No	
VE-2	10/22/12		636.20			14.60	1.00	15.60	-621.37		No	
VE-2	12/20/12		636.20			20.50	1.30	21.80	-615.41		No	
VE-3	07/20/11	635.00	637.10	623.00	608.00	NP	0.00	17.38	15.28	619.72	No	
VE-3	09/20/12		637.10			20.08	0.19	20.27	-616.98		No	
VE-3	10/22/12	NM										
VE-3	12/20/12		637.10			20.60	2.67	23.27	-615.90		No	
VE-4	07/20/11	634.00	636.10	622.00	607.00	NP	0.00	16.58	14.48	619.52	No	
VE-4	09/20/12		636.10			19.21	1.20	20.41	-616.62		No	
VE-4	10/22/12		636.10			19.86	0.83	20.69	-616.05		No	
VE-4	12/20/12		636.10			19.75	3.89	23.64	-615.47		No	
Dock Tank	06/29/00	----	----	----	----	6.67	0.25	6.92	----	----	----	
Dock Tank	01/22/02	----	----	----	----	6.38	0.51	6.89	----	----	----	
Dock Tank	04/24/02	----	----	----	----	6.35	0.50	6.85	----	----	----	

UST REMOVED OCTOBER 3, 2002

Notes:

NM = Not Measured

NP = No Product

BTOC = Below Top of Casing

AMSL = Above Mean Sea Level

* Corrections for free product made using: TOC elevation-[depth to ground water-(product thickness * product density)]

Average Product Density : 0.77 g/cm3 based on average of 4 NE terminal wells (Table 8) - MW-32, RW-2, RW-4 and RW-6

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-2	10/22/2003	628.28	630.85	623.28	608.28	16.86	4.50	21.36	15.26	613.02	NA	5.71	No	
MWAST-2	12/3/2003	628.28	630.85	623.28	608.28	18.01	4.45	22.46	16.40	611.88	-1.14	4.56	No	
MWAST-2	1/8/2004	628.28	630.85	623.28	608.28	17.65	4.04	21.69	15.95	612.33	0.45	4.92	No	
MWAST-2	1/20/2004	628.28	630.85	623.28	608.28	17.71	3.96	21.67	15.99	612.29	-0.04	4.86	No	
MWAST-2	4/19/2004	628.28	630.85	623.28	608.28	16.51	4.88	21.39	14.99	613.29	1.00	6.06	No	
MWAST-2	7/27/2004	628.28	630.85	623.28	608.28	15.18	5.77	20.95	13.85	614.43	1.14	7.39	No	
MWAST-2	11/15/2004	628.28	630.85	623.28	608.28	13.82	6.52	20.34	12.65	615.63	1.20	8.75	No	
MWAST-2	4/18/2005	628.28	630.85	623.28	608.28	14.22	5.87	20.09	12.91	615.37	-0.26	8.35	No	
MWAST-2	9/9/2005	628.28	630.85	623.28	608.28	15.71	4.80	20.51	14.17	614.11	-1.26	6.86	No	
MWAST-2	10/11/2005	628.28	630.85	623.28	608.28	13.34	6.60	19.94	12.19	616.09	1.98	9.23	No	
MWAST-2	5/23/2006	628.28	630.85	623.28	608.28	12.43	7.21	19.64	11.41	616.87	0.78	10.14	No	
MWAST-2	10/16/2006	628.28	630.85	623.28	608.28	15.85	4.62	20.47	14.27	614.01	-2.86	6.72	No	
MWAST-2	4/23/2007	628.28	630.85	623.28	608.28	15.76	4.74	20.50	14.21	614.07	0.06	6.81	No	
MWAST-2	9/25/2007	628.28	630.72	623.28	608.28	15.74	4.78	20.52	14.33	613.95	-0.12	6.70	No	
MWAST-2	5/1/2008	628.28	630.72	623.28	608.28	12.09	7.53	19.62	11.27	617.01	3.06	10.35	No	
MWAST-2	10/20/2008	628.28	630.72	623.28	608.28	11.84	7.74	19.58	11.06	617.22	0.20	10.60	No	
MWAST-2	4/18/2009	628.28	630.72	623.28	608.28	13.18	6.51	19.69	12.14	616.14	-1.08	9.26	No	
MWAST-2	10/11/2009	628.28	630.72	623.28	608.28	15.21	4.96	20.17	13.84	614.44	-1.70	7.23	No	
MWAST-2	4/28/2010	628.28	630.72	623.28	608.28	14.91	5.07	19.98	13.56	614.72	0.28	7.53	No	
MWAST-2	10/25/2010	628.28	630.72	623.28	608.28	12.54	7.10	19.64	11.63	616.65	1.93	9.90	No	
MWAST-2	4/25/2011	628.28	630.72	623.28	608.28	13.29	6.15	19.44	12.17	616.11	-0.55	9.15	No	
MWAST-2	8/2/2011	628.28	630.72	623.28	608.28	11.6	7.89	19.49	10.86	617.42	1.32	10.84	No	
MWAST-2	9/14/2011	628.28	630.72	623.28	608.28	13.53	6.18	19.71	12.42	615.86	-1.56	8.91	No	
MWAST-2	9/23/2011	628.28	630.72	623.28	608.28	13.89	5.89	19.78	12.72	615.56	-0.30	8.55	No	
MWAST-2	9/29/2011	628.28	630.72	623.28	608.28	13.94	6.04	19.98	12.80	615.48	-0.08	8.50	No	
MWAST-2	10/7/2011	628.28	630.72	623.28	608.28	14.27	5.49	19.76	13.01	615.27	-0.21	8.17	No	
MWAST-2	10/11/2011	628.28	630.72	623.28	608.28	14.58	5.75	20.33	13.38	614.90	-0.37	7.86	No	
MWAST-2	10/21/2011	628.28	630.72	623.28	608.28	14.7	5.38	20.08	13.42	614.86	-0.04	7.74	No	
MWAST-2	10/27/2011	628.28	630.72	623.28	608.28	14.79	5.35	20.14	13.50	614.78	-0.08	7.65	No	
MWAST-2	11/3/2011	628.28	630.72	623.28	608.28	15.06	5.27	20.33	13.75	614.53	-0.25	7.38	No	
MWAST-2	11/9/2011	628.28	630.72	623.28	608.28	15.12	4.81	19.93	13.71	614.57	0.04	7.32	No	
MWAST-2	11/17/2011	628.28	630.72	623.28	608.28	15.47	4.69	20.16	14.04	614.24	-0.32	6.97	No	
MWAST-2	11/22/2011	628.28	630.72	623.28	608.28	15.51	4.62	20.13	14.06	614.22	-0.02	6.93	No	
MWAST-2	12/1/2011	628.28	630.72	623.28	608.28	15.75	4.72	20.47	14.32	613.96	-0.26	6.69	No	
MWAST-2	1/4/2012	628.28	630.72	623.28	608.28	16.32	4.16	20.48	14.77	613.51	-0.45	6.12	No	
MWAST-2	2/16/2012	628.28	630.72	623.28	608.28	17.24	3.28	20.52	15.50	612.78	-0.73	5.20	No	
MWAST-2	3/13/2012	628.28	630.72	623.28	608.28	17.28	3.16	20.44	15.52	612.76	-0.01	5.16	No	
MWAST-2	4/11/2012	628.28	630.72	623.28	608.28	16.49	3.61	20.10	14.83	613.45	0.69	5.95	No	Spill Buddy Before Reading
MWAST-2	4/16/2012	628.28	630.72	623.28	608.28	16.28	3.93	20.21	14.68	613.60	0.14	6.16	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-2	5/18/2012	628.28	630.72	623.28	608.28	14.85	5.03	19.88	13.49	614.79	1.19	7.59	No	
MWAST-2	6/28/2012	628.28	630.72	623.28	608.28	10.77	8.46	19.23	10.15	618.13	3.34	11.67	No	
MWAST-2	7/10/2012	628.28	630.72	623.28	608.28	12.42	6.96	19.38	11.48	616.80	-1.33	10.02	No	Spill Buddy Before Reading
MWAST-2	7/24/2012	628.28	630.72	623.28	608.28	13.77	5.73	19.50	12.56	615.72	-1.09	8.67	No	
MWAST-2	8/17/2012	628.28	630.72	623.28	608.28	14.54	5.12	19.66	13.20	615.08	-0.64	7.90	No	
MWAST-2	8/28/2012	628.28	630.72	623.28	608.28	14.99	4.83	19.82	13.59	614.69	-0.39	7.45	No	Spill Buddy Before Reading
MWAST-2	9/17/2012	628.28	630.72	623.28	608.28	15.7	4.30	20.00	14.18	614.10	-0.60	6.74	No	
MWAST-2	9/28/2012	628.28	630.72	623.28	608.28	16.09	4.00	20.09	14.51	613.77	-0.33	6.35	No	Spill Buddy Before Reading
MWAST-2	9/30/2012	628.28	630.72	623.28	608.28	16.16	3.61	19.77	14.50	613.78	0.01	6.28	No	
MWAST-2	11/21/2012	628.28	630.72	623.28	608.28	16.56	3.70	20.26	14.91	613.37	-0.42	5.88	No	
MWAST-2	12/17/2012	628.28	630.72	623.28	608.28	16.84	3.49	20.33	15.15	613.13	-0.23	5.60	No	
MWAST-2	3/25/2013	628.28	630.72	623.28	608.28	18.1	2.73	20.83	16.25	612.03	-1.10	4.34	No	
MWAST-2	5/5/2013	628.28	630.72	623.28	608.28	15.34	4.89	20.23	13.95	614.33	2.30	7.10	No	
MWAST-2	10/3/2013	628.28	630.72	623.28	608.28	16.1	4.46	20.56	14.62	613.66	-0.67	6.34	No	
MWAST-2	5/22/2014	628.28	630.72	623.28	608.28	11	8.58	19.58	10.40	617.88	4.21	11.44	No	
MWAST-2	10/31/2014	628.28	630.72	623.28	608.28	13.8	6.09	19.89	12.67	615.61	-2.27	8.64	No	
MWAST-2	4/15/2015	628.28	630.72	623.28	608.28	16.3	4.13	20.43	14.75	613.53	-2.08	6.14	No	
MWAST-2	4/22/2015	628.28	630.72	623.28	608.28	15.65	4.55	20.20	14.19	614.09	0.56	6.79	No	
MWAST-2	4/29/2015	628.28	630.72	623.28	608.28	15.37	4.59	19.96	13.92	614.36	0.27	7.07	No	
MWAST-2	5/6/2015	628.28	630.72	623.28	608.28	15.35	4.49	19.84	13.87	614.41	0.04	7.09	No	
MWAST-2	5/12/2015	628.28	630.72	623.28	608.28	14.75	4.98	19.73	13.38	614.90	0.49	7.69	No	
MWAST-2	6/9/2015	628.28	630.72	623.28	608.28	13.22	6.31	19.53	12.14	616.14	1.24	9.22	No	
MWAST-2	10/5/2015	628.28	630.72	623.28	608.28	13.06	6.54	19.60	12.03	616.25	0.11	9.38	No	
MWAST-2	5/23/2016	628.28	630.72	623.28	608.28	10.69	8.85	19.54	10.15	618.13	1.87	11.75	No	
MWAST-2	10/3/2016	628.28	630.72	623.28	608.28	12.97	6.49	19.46	11.92	616.36	-1.77	9.47	No	
MWAST-2	5/22/2017	628.28	630.72	623.28	608.28	9.93	7.50	17.43	9.10	619.18	2.82	12.51	No	
MWAST-2	5/31/2017	628.28	630.72	623.28	608.28	9.31	10.00	19.31	9.02	619.26	0.08	13.13	No	
MWAST-2	6/29/2017	628.28	630.72	623.28	608.28	11.81	7.63	19.44	11.01	617.27	-1.99	10.63	No	
MWAST-3	10/22/2003	627.34	629.86	622.34	606.21	NP	0.00	16.59	14.07	613.27	NA	7.06	No	
MWAST-3	1/20/2004	627.34	629.86	622.34	606.21	NP	0.00	17.37	14.85	612.49	-0.78	6.28	No	
MWAST-3	4/19/2004	627.34	629.86	622.34	606.21	NP	0.00	16.48	13.96	613.38	0.89	7.17	No	
MWAST-3	7/27/2004	627.34	629.86	622.34	606.21	NP	0.00	15.32	12.80	614.54	1.16	8.33	No	
MWAST-3	11/16/2004	627.34	629.86	622.34	606.21	NP	0.00	14.18	11.66	615.68	1.14	9.47	No	
MWAST-3	4/18/2005	627.34	629.86	622.34	606.21	NP	0.00	14.10	11.58	615.76	0.08	9.55	No	
MWAST-3	9/9/2005	627.34	629.86	622.34	606.21	NP	0.00	15.51	12.99	614.35	-1.41	8.14	No	
MWAST-3	10/11/2005	627.34	629.86	622.34	606.21	NP	0.00	13.75	11.23	616.11	1.76	9.90	No	
MWAST-3	5/23/2006	627.34	629.86	622.34	606.21	NP	0.00	12.80	10.28	617.06	0.95	10.85	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-3	10/16/2006	627.34	629.86	622.34	606.21	NP	0.00	15.79	13.27	614.07	-2.99	7.86	No	
MWAST-3	4/23/2007	627.34	629.86	622.34	606.21	NP	0.00	15.80	13.28	614.06	-0.01	7.85	No	
MWAST-3	9/25/2007	627.34	629.69	622.34	606.21	NP	0.00	15.82	13.47	613.87	-0.19	7.66	No	
MWAST-3	5/1/2008	627.34	629.69	622.34	606.21	NP	0.00	12.38	10.03	617.31	3.44	11.10	No	
MWAST-3	10/20/2008	627.34	629.69	622.34	606.21	NP	0.00	12.36	10.01	617.33	0.02	11.12	No	
MWAST-3	8/31/2011	627.34	629.69	622.34	606.21	NP	0.00	12.49	10.14	617.20	-0.13	10.99	No	
MWAST-3	10/11/2011	627.34	629.69	622.34	606.21	NP	0.00	14.33	11.98	615.36	-1.84	9.15	No	
MWAST-3	1/4/2012	627.34	629.69	622.34	606.21	NP	0.00	15.77	13.42	613.92	-1.44	7.71	No	
MWAST-3	4/16/2012	627.34	629.69	622.34	606.21	NP	0.00	15.88	13.53	613.81	-0.11	7.60	No	
MWAST-3	6/28/2012	627.34	629.69	622.34	606.21	NP	0.00	11.21	8.86	618.48	4.67	12.27	No	
MWAST-3	9/30/2012	627.34	629.69	622.34	606.21	NP	0.00	15.44	13.09	614.25	-4.23	8.04	No	
MWAST-3	12/17/2012	627.34	629.69	622.34	606.21	NP	0.00	16.29	13.94	613.40	-0.85	7.19	No	
MWAST-3	3/25/2013	627.34	629.69	622.34	606.21	NP	0.00	17.30	14.95	612.39	-1.01	6.18	No	
MWAST-3	5/5/2013	627.34	629.69	622.34	606.21	NP	0.00	15.36	13.01	614.33	1.94	8.12	No	
MWAST-3	10/3/2013	627.34	629.69	622.34	606.21	NP	0.00	15.78	13.43	613.91	-0.42	7.70	No	
MWAST-3	5/21/2014	627.34	629.69	622.34	606.21	NP	0.00	11.52	9.17	618.17	4.26	11.96	No	
MWAST-3	10/31/2014	627.34	629.69	622.34	606.21	NP	0.00	13.70	11.35	615.99	-2.18	9.78	No	
MWAST-3	5/6/2015	627.34	629.69	622.34	606.21	NP	0.00	15.10	12.75	614.59	-1.40	8.38	No	
MWAST-3	10/5/2015	627.34	629.69	622.34	606.21	NP	0.00	13.39	11.04	616.30	1.71	10.09	No	
MWAST-3	5/23/2016	627.34	629.69	622.34	606.21	NP	0.00	11.10	8.75	618.59	2.29	12.38	No	
MWAST-3	10/3/2016	627.34	629.69	622.34	606.21	NP	0.00	13.18	10.83	616.51	-2.08	10.30	No	
MWAST-3	6/29/2017	627.34	629.69	622.34	606.21	NP	0.00	12.06	9.71	617.63	1.12	11.42	No	
MWAST-4	10/23/2003	628.17	630.76	618.17	608.17	15.34	7.20	22.54	14.64	613.53	NA	7.25	No	
MWAST-4	12/3/2003	628.17	630.76	618.17	608.17	15.55	6.99	22.54	14.79	613.38	-0.16	7.04	No	
MWAST-4	1/20/2004	628.17	630.76	618.17	608.17	15.91	6.70	22.61	15.07	613.10	-0.28	6.68	No	
MWAST-4	4/19/2004	628.17	630.76	618.17	608.17	15.86	4.87	20.73	14.55	613.62	0.53	6.73	No	
MWAST-4	7/27/2004	628.17	630.76	618.17	608.17	14.87	3.77	18.64	13.27	614.90	1.28	7.72	No	
MWAST-4	11/15/2004	628.17	630.76	618.17	608.17	13.97	2.41	16.38	12.01	616.16	1.26	8.62	No	
MWAST-4	4/18/2005	628.17	630.76	618.17	608.17	14.08	2.50	16.58	12.14	616.03	-0.13	8.51	No	
MWAST-4	9/9/2005	628.17	630.76	618.17	608.17	14.33	5.84	20.17	13.27	614.90	-1.12	8.26	No	
MWAST-4	10/11/2005	628.17	630.76	618.17	608.17	13.99	1.61	15.60	11.82	616.35	1.45	8.60	No	
MWAST-4	5/23/2006	628.17	630.76	618.17	608.17	12.64	2.17	14.81	10.62	617.55	1.20	9.95	No	
MWAST-4	10/16/2006	628.17	630.76	618.17	608.17	14.64	6.27	20.91	13.69	614.48	-3.07	7.95	No	
MWAST-4	4/23/2007	628.17	630.76	618.17	608.17	15.10	4.81	19.91	13.77	614.40	-0.08	7.49	No	
MWAST-4	9/25/2007	628.17	630.76	618.17	608.17	15.25	5.59	20.84	14.12	614.05	-0.35	7.34	No	
MWAST-4	5/1/2008	628.17	630.76	618.17	608.17	13.42	1.00	14.42	11.09	617.08	3.03	9.17	No	
MWAST-4	10/20/2008	628.17	630.76	618.17	608.17	12.57	1.78	14.35	10.45	617.72	0.65	10.02	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-4	8/31/2011	628.17	630.76	618.17	608.17	12.21	3.01	15.22	10.41	617.76	0.04	10.38	No	
MWAST-4	10/10/2011	628.17	630.76	618.17	608.17	13.65	5.23	18.88	12.43	615.74	-2.02	8.94	No	
MWAST-4	1/4/2012	628.17	630.76	618.17	608.17	14.59	7.05	21.64	13.85	614.32	-1.42	8.00	No	
MWAST-4	4/11/2012	628.17	630.76	618.17	608.17	15.23	6.13	21.36	14.25	613.92	-0.40	7.36	No	Spill Buddy Before Reading
MWAST-4	4/16/2012	628.17	630.76	618.17	608.17	15.24	5.43	20.67	14.07	614.10	0.17	7.35	No	
MWAST-4	6/28/2012	628.17	630.76	618.17	608.17	11.63	1.73	13.36	9.49	618.68	4.58	10.96	Yes	
MWAST-4	7/3/2012	628.17	630.76	618.17	608.17	12.11	1.47	13.58	9.90	618.27	-0.41	10.48	Yes	Spill Buddy Before Reading
MWAST-4	8/28/2012	628.17	630.76	618.17	608.17	14.07	3.86	17.93	12.49	615.68	-2.59	8.52	No	Spill Buddy Before Reading
MWAST-4	9/28/2012	628.17	630.76	618.17	608.17	14.47	6.03	20.50	13.46	614.71	-0.97	8.12	No	Spill Buddy Before Reading
MWAST-4	9/30/2012	628.17	630.76	618.17	608.17	14.50	5.54	20.04	13.36	614.81	0.10	8.09	No	
MWAST-4	11/21/2012	628.17	630.76	618.17	608.17	14.45	7.25	21.70	13.76	614.41	-0.40	8.14	No	
MWAST-4	12/17/2012	628.17	630.76	618.17	608.17	15.14	6.88	22.02	14.35	613.82	-0.59	7.45	No	
MWAST-4	3/25/2013	628.17	630.76	618.17	608.17	15.89	6.70	22.59	15.05	613.12	-0.70	6.70	No	
MWAST-4	4/29/2013	628.17	630.76	618.17	608.17	15.58	3.19	18.77	13.83	614.34	1.23	7.01	No	Spill Buddy Before Reading
MWAST-4	5/5/2013	628.17	630.76	618.17	608.17	15.52	2.41	17.93	13.56	614.61	0.26	7.07	No	
MWAST-4	10/3/2013	628.17	630.76	618.17	608.17	14.93	5.88	20.81	13.88	614.29	-0.32	7.66	No	
MWAST-4	5/22/2014	628.17	630.76	618.17	608.17	12.06	0.66	12.72	9.64	618.53	4.24	10.53	Yes	
MWAST-4	10/31/2014	628.17	630.76	618.17	608.17	13.46	2.87	16.33	11.62	616.55	-1.98	9.13	No	
MWAST-4	4/15/2015	628.17	630.76	618.17	608.17	15.00	6.33	21.33	14.07	614.10	-2.45	7.59	No	
MWAST-4	4/22/2015	628.17	630.76	618.17	608.17	14.78	5.07	19.85	13.52	614.65	0.55	7.81	No	
MWAST-4	4/29/2015	628.17	630.76	618.17	608.17	14.73	4.11	18.84	13.22	614.95	0.30	7.86	No	
MWAST-4	5/6/2015	628.17	630.76	618.17	608.17	14.66	3.98	18.64	13.11	615.06	0.10	7.93	No	
MWAST-4	5/12/2015	628.17	630.76	618.17	608.17	14.58	2.80	17.38	12.72	615.45	0.39	8.01	No	
MWAST-4	6/9/2015	628.17	630.76	618.17	608.17	13.45	1.66	15.11	11.29	616.88	1.43	9.14	No	
MWAST-4	7/10/2015	628.17	630.76	618.17	608.17	15.17	0.29	15.46	12.66	615.51	-1.36	7.42	No	
MWAST-4	7/13/2015	628.17	630.76	618.17	608.17	15.10	0.40	15.50	12.61	615.56	0.04	7.49	No	
MWAST-4	9/10/2015	628.17	630.76	618.17	608.17	15.51	0.19	15.70	12.97	615.20	-0.36	7.08	No	
MWAST-4	10/5/2015	628.17	630.76	618.17	608.17	14.50	0.10	14.60	11.94	616.23	0.68	8.09	No	
MWAST-4	11/3/2015	628.17	630.76	618.17	608.17	14.76	0.28	15.04	12.24	615.93	-0.31	7.83	No	
MWAST-4	4/21/2016	628.17	630.76	618.17	608.17	11.34	2.78	14.12	9.48	618.69	2.77	11.25	Yes	
MWAST-4	6/21/2016	628.17	630.76	618.17	608.17	11.39	0.18	11.57	8.85	619.32	0.63	11.20	Yes	
MWAST-4	5/2/2017	628.17	630.76	618.17	608.17	12.52	1.17	13.69	10.24	617.93	#REF!	10.07	No	
MWAST-4	5/8/2017	628.17	630.76	618.17	608.17	12.67	0.01	12.68	10.08	618.09	0.15	9.92	No	
MWAST-4	5/25/2017	628.17	630.76	618.17	608.17	NP	0.00	10.82	8.23	619.94	1.85	11.77	Yes	
MWAST-4	5/31/2017	628.17	630.76	618.17	608.17	NP	0.00	11.85	9.26	618.91	-1.03	10.74	Yes	
MWAST-4	6/14/2017	628.17	630.76	618.17	608.17	NP	0.00	12.26	9.67	618.50	-0.41	10.33	Yes	
MWAST-4	6/21/2017	628.17	630.76	618.17	608.17	12.58	0.17	12.75	10.03	618.14	-0.36	10.01	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-6	10/23/2003	629.13	632.04	619.13	609.13	17.59	5.53	23.12	15.95	613.18	NA	5.32	No	
MWAST-6	12/3/2003	629.13	632.04	619.13	609.13	17.83	5.17	23.00	16.11	613.02	-0.16	5.08	No	
MWAST-6	1/20/2004	629.13	632.04	619.13	609.13	18.51	4.67	23.18	16.67	612.46	-0.57	4.40	No	
MWAST-6	4/19/2004	629.13	632.04	619.13	609.13	17.85	3.68	21.53	15.79	613.34	0.89	5.06	No	
MWAST-6	7/27/2004	629.13	632.04	619.13	609.13	16.39	4.67	21.06	14.55	614.58	1.23	6.52	No	
MWAST-6	11/15/2004	629.13	632.04	619.13	609.13	15.68	2.10	17.78	13.25	615.88	1.30	7.23	No	
MWAST-6	4/18/2005	629.13	632.04	619.13	609.13	15.07	2.90	17.97	12.83	616.30	0.43	7.84	No	
MWAST-6	9/9/2005	629.13	632.04	619.13	609.13	16.23	4.46	20.69	14.35	614.78	-1.52	6.68	No	
MWAST-6	10/11/2005	629.13	632.04	619.13	609.13	15.58	0.84	16.42	12.86	616.27	1.48	7.33	No	
MWAST-6	5/23/2006	629.13	632.04	619.13	609.13	14.56	1.06	15.62	11.89	617.24	0.97	8.35	No	
MWAST-6	10/16/2006	629.13	632.04	619.13	609.13	16.66	4.57	21.23	14.80	614.33	-2.91	6.25	No	
MWAST-6	4/23/2007	629.13	632.04	619.13	609.13	16.94	4.14	21.08	14.98	614.15	-0.18	5.97	No	
MWAST-6	9/25/2007	629.13	632.04	619.13	609.13	17.05	2.97	20.02	14.82	614.31	0.16	5.86	No	
MWAST-6	5/1/2008	629.13	632.04	619.13	609.13	14.71	1.41	16.12	12.12	617.01	2.70	8.20	No	
MWAST-6	10/20/2008	629.13	632.04	619.13	609.13	13.95	0.92	14.87	11.25	617.88	0.87	8.96	No	
MWAST-6	4/18/2009	629.13	632.04	619.13	609.13	15.42	0.58	16.00	12.64	616.49	-1.39	7.49	No	
MWAST-6	10/11/2009	629.13	632.04	619.13	609.13	16.33	2.59	18.92	14.02	615.11	-1.37	6.58	No	
MWAST-6	4/28/2010	629.13	632.04	619.13	609.13	16.28	2.28	18.56	13.89	615.24	0.12	6.63	No	
MWAST-6	10/25/2010	629.13	632.04	619.13	609.13	14.07	1.31	15.38	11.46	617.67	2.43	8.84	No	
MWAST-6	4/25/2011	629.13	632.04	619.13	609.13	15.31	0.71	16.02	12.56	616.57	-1.10	7.60	No	
MWAST-6	8/2/2011	629.13	632.04	619.13	609.13	13.27	1.03	14.30	10.60	618.53	1.97	9.64	No	
MWAST-6	10/11/2011	629.13	632.04	619.13	609.13	15.93	0.90	16.83	13.23	615.90	-2.63	6.98	No	
MWAST-6	1/4/2012	629.13	632.04	619.13	609.13	17.08	3.29	20.37	14.93	614.20	-1.70	5.83	No	
MWAST-6	4/11/2012	629.13	632.04	619.13	609.13	17.20	4.52	21.72	15.33	613.80	-0.40	5.71	No	Spill Buddy Before Reading
MWAST-6	4/16/2012	629.13	632.04	619.13	609.13	17.38	1.68	19.06	14.86	614.27	0.47	5.53	No	
MWAST-6	6/28/2012	629.13	632.04	619.13	609.13	13.55	1.07	14.62	10.89	618.24	3.97	9.36	No	
MWAST-6	9/30/2012	629.13	632.04	619.13	609.13	16.91	3.33	20.24	14.77	614.36	-3.88	6.00	No	
MWAST-6	11/21/2012	629.13	632.04	619.13	609.13	17.40	4.02	21.42	15.41	613.72	-0.65	5.51	No	
MWAST-6	12/17/2012	629.13	632.04	619.13	609.13	17.66	4.04	21.70	15.68	613.45	-0.26	5.25	No	
MWAST-6	3/25/2013	629.13	632.04	619.13	609.13	18.82	3.08	21.90	16.62	612.51	-0.94	4.09	No	
MWAST-6	5/5/2013	629.13	632.04	619.13	609.13	17.36	1.74	19.10	14.85	614.28	1.77	5.55	No	
MWAST-6	10/3/2013	629.13	632.04	619.13	609.13	17.09	3.61	20.70	15.01	614.12	-0.16	5.82	No	
MWAST-6	5/22/2014	629.13	632.04	619.13	609.13	14.02	0.52	14.54	11.23	617.90	3.78	8.89	No	
MWAST-6	10/31/2014	629.13	632.04	619.13	609.13	15.28	1.73	17.01	12.77	616.36	-1.54	7.63	No	
MWAST-6	4/15/2015	629.13	632.04	619.13	609.13	17.35	3.55	20.90	15.26	613.87	-2.49	5.56	No	
MWAST-6	4/22/2015	629.13	632.04	619.13	609.13	17.31	1.67	18.98	14.78	614.35	0.47	5.60	No	
MWAST-6	4/29/2015	629.13	632.04	619.13	609.13	17.19	1.16	18.35	14.55	614.58	0.24	5.72	No	
MWAST-6	5/6/2015	629.13	632.04	619.13	609.13	17.06	1.10	18.16	14.40	614.73	0.14	5.85	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-6	5/12/2015	629.13	632.04	619.13	609.13	16.83	1.07	17.90	14.17	614.96	0.24	6.08	No	
MWAST-6	6/9/2015	629.13	632.04	619.13	609.13	15.52	0.01	15.53	12.61	616.52	1.55	7.39	No	
MWAST-6	10/5/2015	629.13	632.04	619.13	609.13	15.17	0.28	15.45	12.32	616.81	0.29	7.74	No	
MWAST-6	5/23/2016	629.13	632.04	619.13	609.13	12.80	0.93	13.73	10.10	619.03	2.22	10.11	No	
MWAST-6	10/3/2016	629.13	632.04	619.13	609.13	14.66	1.34	16.00	12.06	617.07	-1.95	8.25	No	
MWAST-6	5/22/2017	629.13	632.04	619.13	609.13	12.90	0.60	13.50	10.13	619.00	1.93	10.01	No	
MWAST-6	5/31/2017	629.13	632.04	619.13	609.13	11.84	1.53	13.37	9.28	619.85	0.85	11.07	Yes	
MWAST-8	10/22/2003	629.55	631.95	623.55	608.40	NP	0.00	18.12	15.72	613.83	NA	5.43	No	
MWAST-8	1/20/2004	629.55	631.95	623.55	608.40	NP	0.00	18.83	16.43	613.12	-0.71	4.72	No	
MWAST-8	4/19/2004	629.55	631.95	623.55	608.40	18.07	0.24	18.31	15.72	613.83	0.71	5.48	No	
MWAST-8	7/27/2004	629.55	631.95	623.55	608.40	16.87	0.26	17.13	14.52	615.03	1.20	6.68	No	
MWAST-8	11/15/2004	629.55	631.95	623.55	608.40	15.73	0.03	15.76	13.34	616.21	1.18	7.82	No	
MWAST-8	4/18/2005	629.55	631.95	623.55	608.40	15.96	0.15	16.11	13.59	615.96	-0.25	7.59	No	
MWAST-8	10/11/2005	629.55	631.95	623.55	608.40	15.50	0.12	15.62	13.12	616.43	0.47	8.05	No	
MWAST-8	5/23/2006	629.55	631.95	623.55	608.40	14.38	0.01	14.39	11.98	617.57	1.14	9.17	No	
MWAST-8	10/16/2006	629.55	631.95	623.55	608.40	17.22	0.33	17.55	14.88	614.67	-2.90	6.33	No	
MWAST-8	4/23/2007	629.55	631.95	623.55	608.40	17.20	0.31	17.51	14.86	614.69	0.02	6.35	No	
MWAST-8	9/25/2007	629.55	631.82	623.55	608.40	17.56	0.33	17.89	15.35	614.20	-0.49	5.86	No	
MWAST-8	5/1/2008	629.55	631.82	623.55	608.40	14.25	0.09	14.34	12.00	617.55	3.36	9.17	No	
MWAST-8	10/20/2008	629.55	631.82	623.55	608.40	13.95	0.18	14.13	11.71	617.84	0.28	9.47	No	
MWAST-8	4/18/2009	629.55	631.82	623.55	608.40	15.01	0.12	15.13	12.76	616.79	-1.05	8.41	No	
MWAST-8	10/11/2009	629.55	631.82	623.55	608.40	16.73	0.31	17.04	14.52	615.03	-1.76	6.69	No	
MWAST-8	4/28/2010	629.55	631.82	623.55	608.40	16.33	0.22	16.55	14.10	615.45	0.42	7.09	No	
MWAST-8	10/25/2010	629.55	631.82	623.55	608.40	14.52	0.08	14.60	12.27	617.28	1.84	8.90	No	
MWAST-8	4/25/2011	629.55	631.82	623.55	608.40	14.96	0.07	15.03	12.70	616.85	-0.44	8.46	No	
MWAST-8	10/11/2011	629.55	631.82	623.55	608.40	15.94	0.13	16.07	13.69	615.86	-0.99	7.48	No	
MWAST-8	1/4/2012	629.55	631.82	623.55	608.40	17.32	0.36	17.68	15.12	614.43	-1.42	6.10	No	
MWAST-8	4/11/2012	629.55	631.82	623.55	608.40	17.60	0.25	17.85	15.38	614.17	-0.26	5.82	No	
MWAST-8	4/16/2012	629.55	631.82	623.55	608.40	17.50	0.03	17.53	15.24	614.31	0.14	5.92	No	
MWAST-8	6/28/2012	629.55	631.82	623.55	608.40	13.01	0.09	13.10	10.76	618.79	4.48	10.41	No	
MWAST-8	9/28/2012	629.55	631.82	623.55	608.40	17.00	0.30	17.30	14.79	614.76	-4.03	6.42	No	Spill Buddy Before Reading
MWAST-8	9/30/2012	629.55	631.82	623.55	608.40	17.03	0.19	17.22	14.80	614.75	-0.01	6.39	No	
MWAST-8	11/21/2012	629.55	631.82	623.55	608.40	17.56	0.29	17.85	15.34	614.21	-0.55	5.86	No	
MWAST-8	12/17/2012	629.55	631.82	623.55	608.40	17.81	0.38	18.19	15.61	613.94	-0.27	5.61	No	
MWAST-8	3/25/2013	629.55	631.82	623.55	608.40	18.72	0.59	19.31	16.56	612.99	-0.95	4.70	No	
MWAST-8	5/5/2013	629.55	631.82	623.55	608.40	17.09	0.13	17.22	14.84	614.71	1.72	6.33	No	
MWAST-8	10/3/2013	629.55	631.82	623.55	608.40	17.34	0.23	17.57	15.11	614.44	-0.27	6.08	No	
MWAST-8	5/22/2014	629.55	631.82	623.55	608.40	NP	0.00	13.35	11.08	618.47	4.03	10.07	No	

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MWAST-8	10/31/2014	629.55	631.82	623.55	608.40	15.38	0.09	15.47	13.13	616.42	-2.05	8.04	No	
MWAST-8	4/15/2015	629.55	631.82	623.55	608.40	17.47	0.18	17.65	15.23	614.32	-2.11	5.95	No	
MWAST-8	4/22/2015	629.55	631.82	623.55	608.40	17.02	0.07	17.09	14.76	614.79	0.47	6.40	No	
MWAST-8	4/29/2015	629.55	631.82	623.55	608.40	16.76	0.06	16.82	14.50	615.05	0.26	6.66	No	
MWAST-8	5/6/2015	629.55	631.82	623.55	608.40	16.68	0.07	16.75	14.42	615.13	0.08	6.74	No	
MWAST-8	5/12/2015	629.55	631.82	623.55	608.40	16.32	0.04	16.36	14.06	615.49	0.37	7.10	No	
MWAST-8	6/9/2015	629.55	631.82	623.55	608.40	14.98	0.02	15.00	12.71	616.84	1.34	8.44	No	
MWAST-8	7/10/2015	629.55	631.82	623.55	608.40	15.62	0.02	15.64	13.35	616.20	-0.64	7.80	No	
MWAST-8	7/11/2015	629.55	631.82	623.55	608.40	15.66	0.04	15.70	13.40	616.15	-0.04	7.76	No	
MWAST-8	7/12/2015	629.55	631.82	623.55	608.40	15.62	0.05	15.67	13.36	616.19	0.04	7.80	No	
MWAST-8	7/13/2015	629.55	631.82	623.55	608.40	15.56	0.03	15.59	13.30	616.25	0.06	7.86	No	
MWAST-8	7/15/2015	629.55	631.82	623.55	608.40	15.70	0.03	15.73	13.44	616.11	-0.14	7.72	No	
MWAST-8	7/17/2015	629.55	631.82	623.55	608.40	15.62	0.06	15.68	13.36	616.19	0.07	7.80	No	
MWAST-8	7/18/2015	629.55	631.82	623.55	608.40	15.66	0.06	15.72	13.40	616.15	-0.04	7.76	No	
MWAST-8	7/21/2015	629.55	631.82	623.55	608.40	15.89	0.03	15.92	13.63	615.92	-0.22	7.53	No	
MWAST-8	7/22/2015	629.55	631.82	623.55	608.40	15.92	0.04	15.96	13.66	615.89	-0.03	7.50	No	
MWAST-8	7/23/2015	629.55	631.82	623.55	608.40	15.96	0.03	15.99	13.70	615.85	-0.04	7.46	No	
MWAST-8	7/24/2015	629.55	631.82	623.55	608.40	15.93	0.02	15.95	13.66	615.89	0.03	7.49	No	
MWAST-8	7/25/2015	629.55	631.82	623.55	608.40	16.04	0.02	16.06	13.77	615.78	-0.11	7.38	No	
MWAST-8	7/27/2015	629.55	631.82	623.55	608.40	16.12	0.03	16.15	13.86	615.69	-0.08	7.30	No	
MWAST-8	7/31/2015	629.55	631.82	623.55	608.40	16.27	0.04	16.31	14.01	615.54	-0.15	7.15	No	
MWAST-8	8/4/2015	629.55	631.82	623.55	608.40	16.41	0.03	16.44	14.15	615.40	-0.14	7.01	No	
MWAST-8	8/7/2015	629.55	631.82	623.55	608.40	16.41	0.03	16.44	14.15	615.40	0.00	7.01	No	
MWAST-8	8/12/2015	629.55	631.82	623.55	608.40	16.41	0.02	16.43	14.14	615.41	0.00	7.01	No	
MWAST-8	8/14/2015	629.55	631.82	623.55	608.40	16.44	0.02	16.46	14.17	615.38	-0.03	6.98	No	
MWAST-8	8/15/2015	629.55	631.82	623.55	608.40	16.45	0.02	16.47	14.18	615.37	-0.01	6.97	No	
MWAST-8	8/17/2015	629.55	631.82	623.55	608.40	16.52	0.03	16.55	14.26	615.29	-0.07	6.90	No	
MWAST-8	9/10/2015	629.55	631.82	623.55	608.40	15.95	0.01	15.96	13.68	615.87	0.57	7.47	No	
MWAST-8	9/15/2015	629.55	631.82	623.55	608.40	15.99	0.02	16.01	13.72	615.83	-0.04	7.43	No	
MWAST-8	9/24/2015	629.55	631.82	623.55	608.40	NP	0.00	15.18	12.91	616.64	0.81	8.24	No	
MWAST-8	10/1/2015	629.55	631.82	623.55	608.40	Np	0.00	15.00	12.73	616.82	0.18	8.42	No	
MWAST-8	10/5/2015	629.55	631.82	623.55	608.40	NP	0.00	14.97	12.70	616.85	1.56	8.45	No	
MWAST-8	10/29/2015	629.55	631.82	623.55	608.40	NP	0.00	15.33	13.06	616.49	-0.36	8.09	No	
MWAST-8	11/3/2015	629.55	631.82	623.55	608.40	NP	0.00	15.20	12.93	616.62	0.13	8.22	No	
MWAST-8	4/21/2016	629.55	631.82	623.55	608.40	NP	0.00	12.64	10.37	619.18	2.56	10.78	No	
MWAST-8	4/27/2016	629.55	631.82	623.55	608.40	NP	0.00	11.67	9.40	620.15	0.97	11.75	No	
MWAST-8	5/18/2016	629.55	631.82	623.55	608.40	NP	0.00	12.58	10.31	619.24	-0.91	10.84	No	
MWAST-8	5/23/2016	629.55	631.82	623.55	608.40	NP	0.00	12.72	10.45	619.10	-0.14	10.70	No	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWAST-8	5/31/2016	629.55	631.82	623.55	608.40	NP	0.00	12.77	10.50	619.05	-0.05	10.65	No	
MWAST-8	6/14/2016	629.55	631.82	623.55	608.40	NP	0.00	12.57	10.30	619.25	0.20	10.85	No	
MWAST-8	6/21/2016	629.55	631.82	623.55	608.40	NP	0.00	12.04	9.77	619.78	0.53	11.38	No	
MWAST-8	7/21/2016	629.55	631.82	623.55	608.40	NP	0.00	12.82	10.55	619.00	-0.78	10.60	No	
MWAST-8	7/25/2016	629.55	631.82	623.55	608.40	NP	0.00	13.26	10.99	618.56	-0.44	10.16	No	
MWAST-8	9/2/2016	629.55	631.82	623.55	608.40	NP	0.00	14.58	12.31	617.24	-1.32	8.84	No	
MWAST-8	10/3/2016	629.55	631.82	623.55	608.40	NP	0.00	14.72	12.45	617.10	-0.14	8.70	No	
MWAST-8	10/13/2016	629.55	631.82	623.55	608.40	NP	0.00	14.98	12.71	616.84	-0.26	8.44	No	
MWAST-8	5/18/2017	629.55	631.82	623.55	608.40	NP	0.00	12.79	10.52	619.03	2.19	10.63	No	
MWAST-8	5/31/2017	629.55	631.82	623.55	608.40	NP	0.00	11.52	9.25	620.30	1.27	11.90	No	
MWAST-9	10/22/2003	629.27	631.60	621.27	605.80	NP	0.00	17.70	15.37	613.90	NA	8.10	No	
MWAST-9	1/20/2004	629.27	631.60	621.27	605.80	NP	0.00	18.46	16.13	613.14	-0.76	7.34	No	
MWAST-9	4/19/2004	629.27	631.60	621.27	605.80	NP	0.00	17.89	15.56	613.71	0.57	7.91	No	
MWAST-9	7/27/2004	629.27	631.60	621.27	605.80	NP	0.00	16.48	14.15	615.12	1.41	9.32	No	
MWAST-9	11/16/2004	629.27	631.60	621.27	605.80	NP	0.00	15.29	12.96	616.31	1.19	10.51	No	
MWAST-9	4/18/2005	629.27	631.60	621.27	605.80	NP	0.00	15.18	12.85	616.42	0.11	10.62	No	
MWAST-9	10/11/2005	629.27	631.60	621.27	605.80	NP	0.00	14.91	12.58	616.69	0.27	10.89	No	
MWAST-9	5/23/2006	629.27	631.60	621.27	605.80	NP	0.00	13.86	11.53	617.74	1.05	11.94	No	
MWAST-9	10/16/2006	629.27	631.60	621.27	605.80	NP	0.00	16.88	14.55	614.72	-3.02	8.92	No	
MWAST-9	4/23/2007	629.27	631.60	621.27	605.80	NP	0.00	17.14	14.81	614.46	-0.26	8.66	No	
MWAST-9	9/25/2007	629.27	631.43	621.27	605.80	NP	0.00	17.50	15.34	613.93	-0.53	8.13	No	
MWAST-9	5/1/2008	629.27	631.43	621.27	605.80	NP	0.00	15.55	13.39	615.88	1.95	10.08	No	
MWAST-9	10/20/2008	629.27	631.43	621.27	605.80	NP	0.00	14.76	12.60	616.67	0.79	10.87	No	
MWAST-9	8/31/2011	629.27	631.43	621.27	605.80	NP	0.00	13.83	11.67	617.60	0.93	11.80	No	
MWAST-9	10/11/2011	629.27	631.43	621.27	605.80	NP	0.00	15.41	13.25	616.02	-1.58	10.22	No	
MWAST-9	1/4/2012	629.27	631.43	621.27	605.80	NP	0.00	16.95	14.79	614.48	-1.54	8.68	No	
MWAST-9	4/16/2012	629.27	631.43	621.27	605.80	NP	0.00	17.34	15.18	614.09	-0.39	8.29	No	
MWAST-9	6/28/2012	629.27	631.43	621.27	605.80	NP	0.00	12.52	10.36	618.91	4.82	13.11	No	
MWAST-9	9/30/2012	629.27	631.43	621.27	605.80	NP	0.00	16.60	14.44	614.83	-4.08	9.03	No	
MWAST-9	12/17/2012	629.27	631.43	621.27	605.80	NP	0.00	17.52	15.36	613.91	-0.92	8.11	No	
MWAST-9	3/25/2013	629.27	631.43	621.27	605.80	NP	0.00	18.52	16.36	612.91	-1.00	7.11	No	
MWAST-9	5/5/2013	629.27	631.43	621.27	605.80	NP	0.00	16.81	14.65	614.62	1.71	8.82	No	
MWAST-9	10/3/2013	629.27	631.43	621.27	605.80	NP	0.00	17.01	14.85	614.42	-0.20	8.62	No	
MWAST-9	5/21/2014	629.27	631.43	621.27	605.80	NP	0.00	13.02	10.86	618.41	3.99	12.61	No	
MWAST-9	10/31/2014	629.27	631.43	621.27	605.80	NP	0.00	14.92	12.76	616.51	-1.90	10.71	No	
MWAST-9	5/6/2015	629.27	631.43	621.27	605.80	NP	0.00	16.34	14.18	615.09	-1.42	9.29	No	
MWAST-9	7/10/2015	629.27	631.43	621.27	605.80	15.17	0.03	15.20	13.02	616.25	1.16	10.46	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment		
MWAST-9	10/5/2015	629.27	631.43	621.27	605.80	NP	0.00	14.56	12.40	616.87	0.62	11.07	No			
MWAST-9	5/23/2016	629.27	631.43	621.27	605.80	NP	0.00	12.12	9.96	619.31	2.44	13.51	No			
MWAST-9	10/3/2016	629.27	631.43	621.27	605.80	NP	0.00	14.29	12.13	617.14	-2.17	11.34	No			
MWAST-9	6/29/2017	629.27	631.43	621.27	605.80	NP	0.00	15.10	12.94	616.33	-0.81	10.53	No			
MWM-2	10/21/2003	626.14	628.94	613.14	597.36	NP	0.00	18.39	15.59	610.55	NA	13.19	No			
MWM-2	1/20/2004	626.14	628.94	613.14	597.36	NP	0.00	19.16	16.36	609.78	-0.77	12.42	No			
MWM-2	4/19/2004	626.14	628.94	613.14	597.36	NP	0.00	17.38	14.58	611.56	1.78	14.20	No			
MWM-2	11/18/2004							Well Damaged								
MWM-2	4/18/2005							Well Damaged								
MWM-2	8/1/2005							Well Repaired August 2005								
MWM-2	10/11/2005	626.14	628.94	613.14	597.36	NP	0.00	15.98	13.18	612.96	NA	15.60	No			
MWM-2	5/23/2006	626.14	628.94	613.14	597.36	NP	0.00	14.94	12.14	614.00	1.04	16.64	Yes			
MWM-2	10/16/2006	626.14	628.94	613.14	597.36	NP	0.00	17.56	14.76	611.38	-2.62	14.02	No			
MWM-2	4/23/2007	626.14	628.94	613.14	597.36	NP	0.00	17.75	14.95	611.19	-0.19	13.83	No			
MWM-2	9/25/2007	626.14	628.94	613.14	597.36	NP	0.00	17.36	14.56	611.58	0.39	14.22	No			
MWM-2	5/1/2008	626.14	628.94	613.14	597.36	NP	0.00	15.65	12.85	613.29	1.71	15.93	Yes			
MWM-2	10/20/2008	626.14	628.94	613.14	597.36	NP	0.00	14.59	11.79	614.35	1.06	16.99	Yes			
MWM-2	8/31/2011	626.14	628.94	613.14	597.36	NP	0.00	15.19	12.39	613.75	-0.60	16.39	Yes			
MWM-2	10/11/2011	626.14	628.94	613.14	597.36	NP	0.00	17.13	14.33	611.81	-1.94	14.45	No			
MWM-2	1/4/2012	626.14	628.94	613.14	597.36	NP	0.00	17.88	15.08	611.06	-0.75	13.70	No			
MWM-2	4/16/2012	626.14	628.94	613.14	597.36	NP	0.00	17.05	14.25	611.89	0.83	14.53	No			
MWM-2	6/28/2012	626.14	628.94	613.14	597.36	NP	0.00	13.57	10.77	615.37	3.48	18.01	Yes			
MWM-2	9/30/2012	626.14	628.94	613.14	597.36	NP	0.00	17.66	14.86	611.28	-4.09	13.92	No			
MWM-2	12/17/2012	626.14	628.94	613.14	597.36	NP	0.00	18.10	15.30	610.84	-0.44	13.48	No			
MWM-2	3/25/2013	626.14	628.94	613.14	597.36	NP	0.00	19.01	16.21	609.93	-0.91	12.57	No			
MWM-2	5/5/2013	626.14	628.94	613.14	597.36	NP	0.00	16.37	13.57	612.57	2.64	15.21	No			
MWM-2	10/1/2013	626.14	628.94	613.14	597.36	NP	0.00	17.49	14.69	611.45	-1.12	14.09	No			
MWM-2	5/21/2014	626.14	628.94	613.14	597.36	NP	0.00	18.57	15.77	610.37	-1.08	13.01	No			
MWM-2	10/30/2014	626.14	628.94	613.14	597.36	NP	0.00	15.58	12.78	613.36	2.99	16.00	Yes			
MWM-2	5/6/2015	626.14	628.94	613.14	597.36	NP	0.00	16.53	13.73	612.41	-0.95	15.05	No			
MWM-2	10/5/2015	626.14	628.94	613.14	597.36	NP	0.00	15.34	12.54	613.60	1.19	16.24	Yes			
MWM-2	5/23/2016	626.14	628.94	613.14	597.36	NP	0.00	13.98	11.18	614.96	1.36	17.60	Yes			
MWM-2	10/3/2016	626.14	628.94	613.14	597.36	NP	0.00	15.43	12.63	613.51	-1.45	16.15	Yes			
MWM-2	6/29/2017	626.14	628.94	613.14	597.36	NP	0.00	14.39	11.59	614.55	1.04	17.19	Yes			
MWM-2D	10/3/2016	626.11	629.06	573.11	568.11	NP	0.00	15.14	12.19	613.92	NA	45.81	Yes			
MWM-2D	6/13/2017	626.11	629.06	573.11	568.11	NP	0.00	12.24	9.29	616.82	2.90	48.71	Yes			

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MWM-3	10/23/2003	627.18	629.68	612.18	597.18	16.45	12.62	29.07	16.85	610.33	NA	16.05	No	
MWM-3	1/20/2004	627.18	629.68	612.18	597.18	17.30	11.51	28.81	17.44	609.74	-0.59	15.20	No	
MWM-3	4/19/2004	627.18	629.68	612.18	597.18	15.18	13.80	28.98	15.85	611.33	1.59	17.32	No	
MWM-3	7/27/2004	627.18	629.68	612.18	597.18	14.72	14.37	29.09	15.52	611.66	0.33	17.78	No	
MWM-3	11/15/2004	627.18	629.68	612.18	597.18	13.44	15.95	29.39	14.61	612.57	0.92	19.06	Yes	
MWM-3	4/18/2005	627.18	629.68	612.18	597.18	13.37	16.13	29.50	14.58	612.60	0.03	19.13	Yes	
MWM-3	9/9/2005	627.18	629.68	612.18	597.18	15.38	13.86	29.24	16.07	611.11	-1.49	17.12	No	
MWM-3	10/11/2005	627.18	629.68	612.18	597.18	12.96	16.42	29.38	14.23	612.95	1.83	19.54	Yes	
MWM-3	5/23/2006	627.18	629.68	612.18	597.18	12.20	17.63	29.83	13.75	613.43	0.48	20.30	Yes	
MWM-3	10/16/2006	627.18	629.68	612.18	597.18	15.60	13.60	29.20	16.23	610.95	-2.47	16.90	No	
MWM-3	4/23/2007	627.18	629.68	612.18	597.18	14.61	14.67	29.28	15.48	611.70	0.74	17.89	No	
MWM-3	9/25/2007	627.18	629.68	612.18	597.18	15.60	13.40	29.00	16.18	611.00	-0.70	16.90	No	
MWM-3	5/1/2008	627.18	629.68	612.18	597.18	12.16	17.53	29.69	13.69	613.49	2.49	20.34	Yes	
MWM-3	8/31/2011	627.18	629.68	612.18	597.18	12.51	17.02	29.53	13.92	613.26	-0.23	19.99	Yes	
MWM-3	10/21/2011	627.18	629.68	612.18	597.18	15.30	10.30	25.60	15.17	612.01	-1.25	17.20	No	
MWM-3	10/27/2011	627.18	629.68	612.18	597.18	14.90	13.30	28.20	15.46	611.72	-0.29	17.60	No	
MWM-3	11/3/2011	627.18	629.68	612.18	597.18	15.11	13.12	28.23	15.62	611.56	-0.17	17.39	No	
MWM-3	11/9/2011	627.18	629.68	612.18	597.18	15.07	13.38	28.45	15.64	611.54	-0.02	17.43	No	
MWM-3	11/10/2011	627.18	629.68	612.18	597.18	15.34	13.11	28.45	15.85	611.33	-0.21	17.16	No	Before EFR
MWM-3	11/10/2011	627.18	629.68	612.18	597.18	20.62	0.07	20.69	18.14	609.04	-2.28	11.88	No	After EFR
MWM-3	11/13/2011	627.18	629.68	612.18	597.18	15.12	12.91	28.03	15.59	611.59	2.55	17.38	No	EFR Check
MWM-3	11/17/2011	627.18	629.68	612.18	597.18	15.32	13.04	28.36	15.82	611.36	-0.23	17.18	No	
MWM-3	11/22/2011	627.18	629.68	612.18	597.18	15.36	13.12	28.48	15.87	611.31	-0.06	17.14	No	
MWM-3	11/29/2011	627.18	629.68	612.18	597.18	15.42	13.10	28.52	15.93	611.25	-0.06	17.08	No	Reading before system start up
MWM-3	1/4/2012	627.18	629.68	612.18	597.18	16.13	12.27	28.40	16.45	610.73	-0.52	16.37	No	
MWM-3	2/16/2012	627.18	629.68	612.18	597.18	16.77	10.58	27.35	16.70	610.48	-0.25	15.73	No	
MWM-3	3/13/2012	627.18	629.68	612.18	597.18	16.68	11.58	28.26	16.84	610.34	-0.14	15.82	No	
MWM-3	4/16/2012	627.18	629.68	612.18	597.18	15.28	12.90	28.18	15.74	611.44	1.10	17.22	No	
MWM-3	6/11/2012	627.18	629.68	612.18	597.18	12.58	16.22	28.80	13.81	613.37	1.94	19.92	Yes	Reading before install of well pumps for Barge system expansion to C. Reiss property.
MWM-3	6/21/2012	627.18	629.68	612.18	597.18	14.30	1.70	16.00	12.19	614.99	1.62	18.20	Yes	Connected to System
MWM-3	6/28/2012	627.18	629.68	612.18	597.18	15.22	0.16	15.38	12.76	614.42	-0.57	17.28	Yes	Connected to System
MWM-3	12/17/2012	627.18	629.68	612.18	597.18	17.21	7.27	24.48	16.38	610.80	-3.62	15.29	No	System down for winter; interface probe could not bypass pump to gauge DTW.
Well connected to Barge Dock Skimmer system - Phase 2														
MWM-3	3/25/2013	627.18	629.68	612.18	597.18	18.22	6.13	24.35	17.13	610.05	-0.75	14.28	No	
MWM-3	5/5/2013	627.18	629.68	612.18	597.18	15.12	9.53	24.65	14.81	612.37	2.32	17.38	Yes	Probe hit pump at 24.35' still indicated LNAPL
MWM-3	5/22/2014	627.18	629.68	612.18	597.18	15.21	0.16	15.37	12.75	614.43	2.06	17.29	Yes	
MWM-3	10/31/2014	627.18	629.68	612.18	597.18	17.25	0.13	17.38	14.78	612.40	-2.03	15.25	Yes	Probe hit pump at 24.65' still indicated LNAPL
MWM-3	3/17/2015	627.18	629.68	612.18	597.18	16.59	7.61	24.20	15.84	611.34	-1.06	15.91	No	
MWM-3	5/6/2015	627.18	629.68	612.18	597.18	18.05	0.12	18.17	15.58	611.60	-0.80	14.45	No	
MWM-3	6/25/2015	627.18	629.68	612.18	597.18	17.30	0.13	17.43	14.83	612.35	0.75	15.20	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWM-3	7/13/2015	627.18	629.68	612.18	597.18	17.20	0.12	17.32	14.73	612.45	0.85	15.30	Yes	
MWM-3	10/1/2015	627.18	629.68	612.18	597.18	14.80	0.12	14.92	12.33	614.85	2.40	17.70	Yes	
MWM-3	10/5/2015	627.18	629.68	612.18	597.18	16.88	0.07	16.95	14.40	612.78	-2.07	15.62	Yes	
MWM-3	4/21/2016	627.18	629.68	612.18	597.18	11.75	10.92	22.67	11.76	615.42	2.64	20.75	Yes	
MWM-3	5/2/2017	627.18	629.68	612.18	597.18	12.81	13.06	25.87	13.31	613.87	-1.55	19.69	Yes	
MWM-3	5/31/2017	627.18	629.68	612.18	597.18	15.41	0.18	15.59	12.95	614.23	0.36	17.09	Yes	
MWM-3	6/14/2017	627.18	629.68	612.18	597.18	15.37	0.15	15.52	12.90	614.28	0.05	17.13	Yes	
MWM-4	10/22/2003	626.69	629.47	621.69	605.67	NP	0.00	17.00	14.22	612.47	NA	6.80	No	
MWM-4	1/20/2004	626.69	629.47	621.69	605.67	NP	0.00	17.79	15.01	611.68	-0.79	6.01	No	
MWM-4	4/19/2004	626.69	629.47	621.69	605.67	NP	0.00	16.37	13.59	613.10	1.42	7.43	No	
MWM-4	7/27/2004	626.69	629.47	621.69	605.67	NP	0.00	15.67	12.89	613.80	0.70	8.13	No	
MWM-4	11/18/2004	626.69	629.47	621.69	605.67	NP	0.00	14.59	11.81	614.88	1.08	9.21	No	
MWM-4	4/18/2005	626.69	629.47	621.69	605.67	NP	0.00	14.40	11.62	615.07	0.19	9.40	No	
MWM-4	10/11/2005	626.69	629.47	621.69	605.67	NP	0.00	13.96	11.18	615.51	0.44	9.84	No	
MWM-4	5/23/2006	626.69	629.47	621.69	605.67	NP	0.00	13.15	10.37	616.32	0.81	10.65	No	
MWM-4	10/16/2006	626.69	629.47	621.69	605.67	NP	0.00	16.18	13.40	613.29	-3.03	7.62	No	
MWM-4	4/23/2007	626.69	629.47	621.69	605.67	NP	0.00	15.59	12.81	613.88	0.59	8.21	No	
MWM-4	9/25/2007	626.69	629.30	621.69	605.67	NP	0.00	16.05	13.44	613.25	-0.63	7.58	No	
MWM-4	5/1/2008	626.69	629.30	621.69	605.67	NP	0.00	12.62	10.01	616.68	3.43	11.01	No	
MWM-4	10/20/2008	626.69	629.30	621.69	605.67	NP	0.00	12.85	10.24	616.45	-0.23	10.78	No	
MWM-4	8/31/2011	626.69	629.30	621.69	605.67	NP	0.00	13.11	10.50	616.19	-0.26	10.52	No	
MWM-4	10/11/2011	626.69	629.30	621.69	605.67	NP	0.00	15.26	12.65	614.04	-2.15	8.37	No	
MWM-4	1/4/2012	626.69	629.30	621.69	605.67	NP	0.00	16.21	13.60	613.09	-0.95	7.42	No	
MWM-4	4/16/2012	626.69	629.30	621.69	605.67	NP	0.00	15.81	13.20	613.49	0.40	7.82	No	
MWM-4	6/28/2012	626.69	629.30	621.69	605.67	NP	0.00	11.49	8.88	617.81	4.32	12.14	No	
MWM-4	9/30/2012	626.69	629.30	621.69	605.67	NP	0.00	15.89	13.28	613.41	-4.40	7.74	No	
MWM-4	12/17/2012	626.69	629.30	621.69	605.67	NP	0.00	16.68	14.07	612.62	-0.79	6.95	No	
MWM-4	3/25/2013	626.69	629.30	621.69	605.67	NP	0.00	17.31	14.70	611.99	-0.63	6.32	No	
MWM-4	5/5/2013	626.69	629.30	621.69	605.67	NP	0.00	15.35	12.74	613.95	1.96	8.28	No	
MWM-4	10/3/2013	626.69	629.30	621.69	605.67	NP	0.00	16.12	13.51	613.18	-0.77	7.51	No	
MWM-4	5/20/2014	626.69	629.30	621.69	605.67	NP	0.00	11.71	9.10	617.59	4.41	11.92	No	
MWM-4	10/31/2014	626.69	629.30	621.69	605.67	NP	0.00	14.09	11.48	615.21	-2.38	9.54	No	
MWM-4	5/6/2015	626.69	629.30	621.69	605.67	NP	0.00	15.25	12.64	614.05	-1.16	8.38	No	
MWM-4	10/5/2015	626.69	629.30	621.69	605.67	NP	0.00	13.72	11.11	615.58	1.53	9.91	No	
MWM-4	5/23/2016	626.69	629.30	621.69	605.67	NP	0.00	11.68	9.07	617.62	2.04	11.95	No	
MWM-4	10/3/2016	626.69	629.30	621.69	605.67	NP	0.00	13.59	10.98	615.71	-1.91	10.04	No	
MWM-4	5/18/2017	626.69	629.30	621.69	605.67	NP	0.00	11.50	8.89	617.80	2.09	12.13	No	
MWM-4	5/31/2017	626.69	629.30	621.69	605.67	NP	0.00	10.33	7.72	618.97	1.17	13.30	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWM-6	10/23/2003	626.20	628.84	611.20	596.20	17.66	0.22	17.88	15.07	611.13	NA	14.98	No	
MWM-6	1/20/2004	626.20	628.84	611.20	596.20	18.07	0.93	19.00	15.66	610.54	-0.58	14.57	No	
MWM-6	4/19/2004	626.20	628.84	611.20	596.20	16.96	1.13	18.09	14.60	611.60	1.06	15.68	Yes	
MWM-6	7/27/2004	626.20	628.84	611.20	596.20	16.36	1.13	17.49	14.00	612.20	0.60	16.28	Yes	
MWM-6	11/15/2004	626.20	628.84	611.20	596.20	16.51	0.10	16.61	13.89	612.31	0.10	16.13	Yes	
MWM-6	4/18/2005	626.20	628.84	611.20	596.20	15.69	0.58	16.27	13.19	613.01	0.70	16.95	Yes	
MWM-6	10/11/2005	626.20	628.84	611.20	596.20	15.20	1.42	16.62	12.91	613.29	0.28	17.44	Yes	
MWM-6	5/23/2006	626.20	628.84	611.20	596.20	14.70	1.01	15.71	12.31	613.89	0.60	17.94	Yes	
MWM-6	10/16/2006	626.20	628.84	611.20	596.20	16.72	1.01	17.73	14.33	611.87	-2.02	15.92	Yes	
MWM-6	4/23/2007	626.20	628.84	611.20	596.20	16.57	0.92	17.49	14.16	612.04	0.17	16.07	Yes	
MWM-6	9/25/2007	626.20	628.84	611.20	596.20	17.05	0.90	17.95	14.63	611.57	-0.48	15.59	Yes	
MWM-6	5/1/2008	626.20	628.84	611.20	596.20	14.91	0.91	15.82	12.49	613.71	2.14	17.73	Yes	
MWM-6	10/20/2008	626.20	628.84	611.20	596.20	14.28	0.91	15.19	11.86	614.34	0.63	18.36	Yes	
MWM-6	8/31/2011	626.20	628.84	611.20	596.20	14.40	0.83	15.23	11.96	614.24	-0.10	18.24	Yes	
MWM-6	10/11/2011	626.20	628.84	611.20	596.20	15.78	0.50	16.28	13.26	612.94	-1.30	16.86	Yes	
MWM-6	1/4/2012	626.20	628.84	611.20	596.20	17.00	0.52	17.52	14.49	611.71	-1.22	15.64	Yes	
MWM-6	4/12/2012	626.20	628.84	611.20	596.20	17.17	0.48	17.65	14.65	611.55	-0.16	15.47	Yes	Spill Buddy Before Reading
MWM-6	4/16/2012	626.20	628.84	611.20	596.20	16.86	0.02	16.88	14.22	611.98	0.42	15.78	Yes	
MWM-6	6/28/2012	626.20	628.84	611.20	596.20	13.80	0.04	13.84	11.17	615.03	3.06	18.84	Yes	
MWM-6	9/30/2012	626.20	628.84	611.20	596.20	16.89	0.02	16.91	14.25	611.95	-3.09	15.75	Yes	
MWM-6	12/17/2012	626.20	628.84	611.20	596.20	17.38	0.02	17.40	14.74	611.46	-0.49	15.26	Yes	
MWM-6	3/25/2013	626.20	628.84	611.20	596.20	18.21	0.04	18.25	15.58	610.62	-0.83	14.43	No	
MWM-6	5/5/2013	626.20	628.84	611.20	596.20	16.61	0.02	16.63	13.97	612.23	1.60	16.03	Yes	
MWM-6	10/3/2013	626.20	628.84	611.20	596.20	NP	0.00	16.87	14.23	611.97	-0.26	15.77	Yes	
MWM-6	5/21/2014	626.20	628.84	611.20	596.20	NP	0.00	14.08	11.44	614.76	2.79	18.56	Yes	
MWM-6	7/30/2014	626.20	628.84	611.20	596.20	15.15	0.01	15.16	12.51	613.69	-1.07	17.49	Yes	
MWM-6	10/31/2014	626.20	628.84	611.20	596.20	NP	0.00	15.21	12.57	613.63	-0.06	17.43	Yes	
MWM-6	4/15/2015	626.20	628.84	611.20	596.20	NP	0.00	16.85	14.21	611.99	-1.64	15.79	Yes	
MWM-6	4/22/2015	626.20	628.84	611.20	596.20	NP	0.00	16.46	13.82	612.38	0.39	16.18	Yes	
MWM-6	4/29/2015	626.20	628.84	611.20	596.20	NP	0.00	16.35	13.71	612.49	0.11	16.29	Yes	
MWM-6	5/6/2015	626.20	628.84	611.20	596.20	NP	0.00	16.33	13.69	612.51	0.02	16.31	Yes	
MWM-6	5/12/2015	626.20	628.84	611.20	596.20	NP	0.00	16.02	13.38	612.82	0.31	16.62	Yes	
MWM-6	6/9/2015	626.20	628.84	611.20	596.20	NP	0.00	15.21	12.57	613.63	0.81	17.43	Yes	
MWM-6	10/5/2015	626.20	628.84	611.20	596.20	15.20	0.10	15.30	12.58	613.62	-0.01	17.44	Yes	
MWM-6	5/18/2016	626.20	628.84	611.20	596.20	13.69	0.19	13.88	11.10	615.10	1.49	18.95	Yes	
MWM-6	5/23/2016	626.20	628.84	611.20	596.20	13.85	0.13	13.98	11.24	614.96	-0.15	18.79	Yes	
MWM-6	5/31/2016	626.20	628.84	611.20	596.20	13.74	0.16	13.90	11.14	615.06	0.10	18.90	Yes	
MWM-6	6/14/2016	626.20	628.84	611.20	596.20	13.67	0.13	13.80	11.06	615.14	0.08	18.97	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWM-6	6/21/2016	626.20	628.84	611.20	596.20	13.35	0.16	13.51	10.75	615.45	0.31	19.29	Yes	
MWM-6	7/15/2016	626.20	628.84	611.20	596.20	13.68	0.12	13.80	11.07	615.13	-0.01	18.96	Yes	
MWM-6	7/25/2016	626.20	628.84	611.20	596.20	14.08	0.13	14.21	11.47	614.73	-0.40	18.56	Yes	
MWM-6	8/26/2016	626.20	628.84	611.20	596.20	14.90	0.20	15.10	12.31	613.89	-0.84	17.74	Yes	
MWM-6	9/2/2016	626.20	628.84	611.20	596.20	14.96	0.23	15.19	12.38	613.82	-0.07	17.68	Yes	
MWM-6	10/3/2016	626.20	628.84	611.20	596.20	15.01	0.30	15.31	12.44	613.76	-0.07	17.63	Yes	
MWM-6	10/6/2016	626.20	628.84	611.20	596.20	15.10	0.30	15.40	12.53	613.67	-0.16	17.54	Yes	
MWM-6	10/13/2016	626.20	628.84	611.20	596.20	15.17	0.33	15.50	12.61	613.59	-0.08	17.47	Yes	
MWM-6	5/2/2017	626.20	628.84	611.20	596.20	13.92	0.53	14.45	11.41	614.79	1.20	18.72	Yes	
MWM-6	5/8/2017	626.20	628.84	611.20	596.20	13.95	0.55	14.50	11.44	614.76	-0.03	18.69	Yes	
MWM-6	5/18/2017	626.20	628.84	611.20	596.20	13.66	0.28	13.94	11.09	615.11	0.36	18.98	Yes	
MWM-6	5/25/2017	626.20	628.84	611.20	596.20	12.90	0.30	13.20	10.33	615.87	0.76	19.74	Yes	
MWM-6	5/31/2017	626.20	628.84	611.20	596.20	12.86	0.29	13.15	10.29	615.91	0.04	19.78	Yes	
MWM-7	10/22/2003	625.01	627.53	616.01	600.86	NP	0.00	16.97	14.45	610.56	NA	9.70	No	
MWM-7	1/20/2004	625.01	627.53	616.01	600.86	NP	0.00	17.67	15.15	609.86	-0.70	9.00	No	
MWM-7	4/19/2004	625.01	627.53	616.01	600.86	NP	0.00	16.35	13.83	611.18	1.32	10.32	No	
MWM-7	7/27/2004	625.01	627.53	616.01	600.86	NP	0.00	15.89	13.37	611.64	0.46	10.78	No	
MWM-7	11/16/2004	625.01	627.53	616.01	600.86	NP	0.00	15.12	12.60	612.41	0.77	11.55	No	
MWM-7	4/18/2005	625.01	627.53	616.01	600.86	NP	0.00	15.13	12.61	612.40	-0.01	11.54	No	
MWM-7	10/11/2005	625.01	627.53	616.01	600.86	NP	0.00	14.68	12.16	612.85	0.45	11.99	No	
MWM-7	5/23/2006	625.01	627.53	616.01	600.86	NP	0.00	14.28	11.76	613.25	0.40	12.39	No	
MWM-7	10/16/2006	625.01	627.53	616.01	600.86	NP	0.00	16.38	13.86	611.15	-2.10	10.29	No	
MWM-7	4/23/2007	625.01	627.53	616.01	600.86	NP	0.00	15.91	13.39	611.62	0.47	10.76	No	
MWM-7	9/25/2007	625.01	627.36	616.01	600.86	NP	0.00	16.12	13.77	611.24	-0.38	10.38	No	
MWM-7	5/1/2008	625.01	627.36	616.01	600.86	NP	0.00	14.12	11.77	613.24	2.00	12.38	No	
MWM-7	10/20/2008	625.01	627.36	616.01	600.86	NP	0.00	13.62	11.27	613.74	0.50	12.88	No	
MWM-7	8/31/2011	625.01	627.36	616.01	600.86	NP	0.00	13.89	11.54	613.47	-0.27	12.61	No	
MWM-7	10/11/2011	625.01	627.36	616.01	600.86	NP	0.00	15.23	12.88	612.13	-1.34	11.27	No	
MWM-7	1/4/2012	625.01	627.36	616.01	600.86	NP	0.00	16.33	13.98	611.03	-1.10	10.17	No	
MWM-7	4/16/2012	625.01	627.36	616.01	600.86	NP	0.00	15.81	13.46	611.55	0.52	10.69	No	
MWM-7	6/28/2012	625.01	627.36	616.01	600.86	NP	0.00	12.79	10.44	614.57	3.02	13.71	No	
MWM-7	9/30/2012	625.01	627.36	616.01	600.86	NP	0.00	16.04	13.69	611.32	-3.25	10.46	No	
MWM-7	12/17/2012	625.01	627.36	616.01	600.86	NP	0.00	16.53	14.18	610.83	-0.49	9.97	No	
MWM-7	3/25/2013	625.01	627.36	616.01	600.86	NP	0.00	17.37	15.02	609.99	-0.84	9.13	No	
MWM-7	5/5/2013	625.01	627.36	616.01	600.86	NP	0.00	15.45	13.10	611.91	1.92	11.05	No	
MWM-7	10/1/2013	625.01	627.36	616.01	600.86	NP	0.00	15.95	13.60	611.41	-0.50	10.55	No	
MWM-7	5/21/2014	625.01	627.36	616.01	600.86	NP	0.00	12.95	10.60	614.41	3.00	13.55	No	

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MWM-7	10/29/2014	625.01	627.36	616.01	600.86	NP	0.00	14.23	11.88	613.13	-1.28	12.27	No	
MWM-7	5/6/2015	625.01	627.36	616.01	600.86	NP	0.00	15.28	12.93	612.08	-1.05	11.22	No	
MWM-7	10/6/2015	625.01	627.36	616.01	600.86	NP	0.00	14.11	11.76	613.25	1.17	12.39	No	
MWM-7	5/23/2016	625.01	627.36	616.01	600.86	NP	0.00	12.81	10.46	614.55	1.30	13.69	No	
MWM-7	10/3/2016	625.01	627.36	616.01	600.86	NP	0.00	13.99	11.64	613.37	-1.18	12.51	No	
MWM-7	6/29/2017	625.01	627.36	616.01	600.86	NP	0.00	13.15	10.80	614.21	0.84	13.35	No	
MWM-7D	7/31/2009	622.11	623.93	570.11	665.11	NP	0.00	11.49	9.67	612.44	NA	-52.67	Yes	
MWM-7D	10/11/2009	622.11	623.93	570.11	565.11	NP	0.00	12.49	10.67	611.44	NA	46.33	Yes	
MWM-7D	4/28/2010	622.11	623.93	570.11	565.11	NP	0.00	12.63	10.81	611.30	-0.14	46.19	Yes	
MWM-7D	10/25/2010	622.11	623.93	570.11	565.11	NP	0.00	11.36	9.54	612.57	1.27	47.46	Yes	
MWM-7D	4/25/2011	622.11	623.93	570.11	565.11	NP	0.00	11.91	10.09	612.02	-0.55	46.91	Yes	
MWM-7D	10/11/2011	622.11	623.93	570.11	565.11	NP	0.00	12.10	10.28	611.83	-0.19	46.72	Yes	
MWM-7D	1/4/2012	622.11	623.93	570.11	565.11	NP	0.00	13.23	11.41	610.70	-1.13	45.59	Yes	
MWM-7D	4/16/2012	622.11	623.93	570.11	565.11	NP	0.00	13.03	11.21	610.90	0.20	45.79	Yes	
MWM-7D	6/28/2012	622.11	623.93	570.11	565.11	NP	0.00	10.45	8.63	613.48	2.58	48.37	Yes	
MWM-7D	9/30/2012	622.11	623.93	570.11	565.11	NP	0.00	12.99	11.17	610.94	-2.54	45.83	Yes	
MWM-7D	12/17/2012	622.11	623.93	570.11	565.11	NP	0.00	13.44	11.62	610.49	-0.45	45.38	Yes	
MWM-7D	3/25/2013	622.11	623.93	570.11	565.11	NP	0.00	14.21	12.39	609.72	-0.77	44.61	Yes	
MWM-7D	5/5/2013	622.11	623.93	570.11	565.11	NP	0.00	12.88	11.06	611.05	1.33	45.94	Yes	
MWM-7D	10/1/2013	622.11	623.93	570.11	565.11	NP	0.00	12.84	11.02	611.09	0.04	45.98	Yes	
MWM-7D	5/21/2014	622.11	623.93	570.11	565.11	NP	0.00	10.71	8.89	613.22	2.13	48.11	Yes	
MWM-7D	10/30/2014	622.11	623.93	570.11	565.11	NP	0.00	11.28	9.46	612.65	-0.57	47.54	Yes	
MWM-7D	5/5/2015	622.11	623.93	570.11	565.11	NP	0.00	12.39	10.57	611.54	-1.11	46.43	Yes	
MWM-7D	10/6/2015	622.11	623.93	570.11	565.11	NP	0.00	11.20	9.38	612.73	1.19	47.62	Yes	
MWM-7D	5/23/2016	622.11	623.93	570.11	565.11	NP	0.00	10.17	8.35	613.76	1.03	48.65	Yes	
MWM-7D	10/3/2016	622.11	623.93	570.11	565.11	NP	0.00	10.98	9.16	612.95	-0.81	47.84	Yes	
MWM-7D	6/14/2017	622.11	623.93	570.11	565.11	NP	0.00	10.20	8.38	613.73	0.78	48.62	Yes	
MWM-9	10/22/2003	622.08	624.40	611.08	596.50	NP	0.00	12.97	10.65	611.43	NA	14.93	Yes	
MWM-9	1/20/2004	622.08	624.40	611.08	596.50	NP	0.00	13.65	11.33	610.75	-0.68	14.25	No	
MWM-9	4/19/2004	622.08	624.40	611.08	596.50	NP	0.00	12.83	10.51	611.57	0.82	15.07	Yes	
MWM-9	7/27/2004	622.08	624.40	611.08	596.50	NP	0.00	12.02	9.70	612.38	0.81	15.88	Yes	
MWM-9	11/16/2004	Well Abandoned due to Hallett Dock Construction												
MWM-9R S	7/31/2009	625.43	627.59	616.43	601.43		0.00							
MWM-9R S	10/11/2009	625.43	627.59	616.43	601.43	NP	0.00	14.82	12.66	612.77	NA	11.34	No	
MWM-9R S	4/28/2010	625.43	627.59	616.43	601.43	NP	0.00	14.89	12.73	612.70	-0.07	11.27	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWM-9R S	10/25/2010	625.43	627.59	616.43	601.43	NP	0.00	13.45	11.29	614.14	1.44	12.71	No	
MWM-9R S	4/25/2011	625.43	627.59	616.43	601.43	NP	0.00	13.97	11.81	613.62	-0.52	12.19	No	
MWM-9R S	10/11/2011	625.43	627.59	616.43	601.43	NP	0.00	14.19	12.03	613.40	-0.22	11.97	No	
MWM-9R S	1/4/2012	625.43	627.59	616.43	601.43	NP	0.00	15.47	13.31	612.12	-1.28	10.69	No	
MWM-9R S	4/16/2012	625.43	627.59	616.43	601.43	NP	0.00	15.37	13.21	612.22	0.10	10.79	No	
MWM-9R S	6/28/2012	625.43	627.59	616.43	601.43	NP	0.00	12.44	10.28	615.15	2.93	13.72	No	
MWM-9R S	9/30/2012	625.43	627.59	616.43	601.43	NP	0.00	15.20	13.04	612.39	-2.76	10.96	No	
MWM-9R S	12/17/2012	625.43	627.59	616.43	601.43	NP	0.00	15.73	13.57	611.86	-0.53	10.43	No	
MWM-9R S	3/25/2013	625.43	627.59	616.43	601.43	NP	0.00	16.58	14.42	611.01	-0.85	9.58	No	
MWM-9R S	5/5/2013	625.43	627.59	616.43	601.43	NP	0.00	15.22	13.06	612.37	1.36	10.94	No	
MWM-9R S	10/1/2013	625.43	627.59	616.43	601.43	NP	0.00	15.15	12.99	612.44	0.07	11.01	No	
MWM-9R S	5/20/2014	625.43	627.59	616.43	601.43	NP	0.00	12.80	10.64	614.79	2.35	13.36	No	
MWM-9R S	10/29/2014	625.43	627.59	616.43	601.43	NP	0.00	13.45	11.29	614.14	-0.65	12.71	No	
MWM-9R S	5/6/2015	625.43	627.59	616.43	601.43	NP	0.00	14.76	12.60	612.83	-1.31	11.40	No	
MWM-9R S	10/5/2015	625.43	627.59	616.43	601.43	NP	0.00	13.32	11.16	614.27	1.44	12.84	No	
MWM-9R S	5/23/2016	625.43	627.59	616.43	601.43	NP	0.00	12.06	9.90	615.53	1.26	14.10	No	
MWM-9R S	10/3/2016	625.43	627.59	616.43	601.43	NP	0.00	13.04	10.88	614.55	-0.98	13.12	No	
MWM-9R S	6/29/2017	625.43	627.59	616.43	601.43	NP	0.00	12.44	10.28	615.15	0.60	13.72	No	
MWM-9R D	7/31/2009	625.15	626.93	573.15	568.15		0.00							
MWM-9R D	10/11/2009	625.15	626.93	573.15	568.15	NP	0.00	14.41	12.63	612.52	NA	44.37	Yes	
MWM-9R D	4/28/2010	625.15	626.93	573.15	568.15	NP	0.00	14.54	12.76	612.39	-0.13	44.24	Yes	
MWM-9R D	10/25/2010	625.15	626.93	573.15	568.15	NP	0.00	13.19	11.41	613.74	1.35	45.59	Yes	
MWM-9R D	4/25/2011	625.15	626.93	573.15	568.15	NP	0.00	13.72	11.94	613.21	-0.53	45.06	Yes	
MWM-9R D	10/11/2011	625.15	626.93	573.15	568.15	NP	0.00	13.89	12.11	613.04	-0.17	44.89	Yes	
MWM-9R D	1/4/2012	625.15	626.93	573.15	568.15	NP	0.00	15.00	13.22	611.93	-1.11	43.78	Yes	
MWM-9R D	4/16/2012	625.15	626.93	573.15	568.15	NP	0.00	15.03	13.25	611.90	-0.03	43.75	Yes	
MWM-9R D	6/28/2012	625.15	626.93	573.15	568.15	NP	0.00	12.23	10.45	614.70	2.80	46.55	Yes	
MWM-9R D	9/30/2012	625.15	626.93	573.15	568.15	NP	0.00	14.74	12.96	612.19	-2.51	44.04	Yes	
MWM-9R D	12/17/2012	625.15	626.93	573.15	568.15	NP	0.00	15.32	13.54	611.61	-0.58	43.46	Yes	
MWM-9R D	3/25/2013	625.15	626.93	573.15	568.15	NP	0.00	16.10	14.32	610.83	-0.78	42.68	Yes	
MWM-9R D	5/5/2013	625.15	626.93	573.15	568.15	NP	0.00	14.89	13.11	612.04	1.21	43.89	Yes	
MWM-9R D	10/1/2013	625.15	626.93	573.15	568.15	NP	0.00	14.79	13.01	612.14	0.10	43.99	Yes	
MWM-9R D	5/21/2014	625.15	626.93	573.15	568.15	NP	0.00	12.58	10.80	614.35	2.21	46.20	Yes	
MWM-9R D	10/30/2014	625.15	626.93	573.15	568.15	NP	0.00	13.09	11.31	613.84	-0.51	45.69	Yes	
MWM-9R D	5/5/2015	625.15	626.93	573.15	568.15	NP	0.00	14.36	12.58	612.57	-1.27	44.42	Yes	
MWM-9R D	10/7/2015	625.15	626.93	573.15	568.15	NP	0.00	13.03	11.25	613.90	1.33	45.75	Yes	
MWM-9R D	5/23/2016	625.15	626.93	573.15	568.15	NP	0.00	11.65	9.87	615.28	1.38	47.13	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWM-9R D	10/3/2016	625.15	626.93	573.15	568.15	NP	0.00	12.61	10.83	614.32	-0.96	46.17	Yes	
MWM-9R D	6/14/2017	625.15	626.93	573.15	568.15	NP	0.00	11.60	9.82	615.33	1.01	47.18	Yes	
MWM-10 S	7/31/2009	618.59	620.51	609.59	594.59		0.00							
MWM-10 S	10/11/2009	618.59	620.51	609.59	594.59	NP	0.00	3.93	2.01	616.58	NA	21.99	Yes	
MWM-10 S	4/28/2010	618.59	620.51	609.59	594.59	NP	0.00	3.70	1.78	616.81	0.23	22.22	Yes	
MWM-10 S	10/25/2010	618.59	620.51	609.59	594.59	NP	0.00	3.17	1.25	617.34	0.53	22.75	Yes	
MWM-10 S	4/25/2011	618.59	620.51	609.59	594.59	NP	0.00	3.27	1.35	617.24	-0.10	22.65	Yes	
MWM-10 S	10/11/2011	618.59	620.51	609.59	594.59	NP	0.00	4.52	2.60	615.99	-1.25	21.40	Yes	
MWM-10 S	1/4/2012	618.59	620.51	609.59	594.59	NP	0.00	5.75	3.83	614.76	-1.23	20.17	Yes	
MWM-10 S	4/16/2012	618.59	620.51	609.59	594.59	NP	0.00	3.51	1.59	617.00	2.24	22.41	Yes	
MWM-10 S	6/28/2012	618.59	620.51	609.59	594.59	NP	0.00	3.53	1.61	616.98	-0.02	22.39	Yes	
MWM-10 S	9/30/2012	618.59	620.51	609.59	594.59	NP	0.00	6.76	4.84	613.75	-3.23	19.16	Yes	
MWM-10 S	12/17/2012	618.59	620.51	609.59	594.59	NP	0.00	5.01	3.09	615.50	1.75	20.91	Yes	
MWM-10 S	3/25/2013	618.59	620.51	609.59	594.59	NP	0.00	6.99	5.07	613.52	-1.98	18.93	Yes	
MWM-10 S	5/5/2013	618.59	620.51	609.59	594.59	NP	0.00	3.43	1.51	617.08	3.56	22.49	Yes	
MWM-10 S	10/1/2013	618.59	620.51	609.59	594.59	NP	0.00	4.88	2.96	615.63	-1.45	21.04	Yes	
MWM-10 S	5/20/2014	618.59	620.51	609.59	594.59	NP	0.00	3.15	1.23	617.36	1.73	22.77	Yes	
MWM-10 S	10/29/2014	618.59	620.51	609.59	594.59	NP	0.00	4.19	2.27	616.32	-1.04	21.73	Yes	
MWM-10 S	5/6/2015	618.59	620.51	609.59	594.59	NP	0.00	4.00	2.08	616.51	0.19	21.92	Yes	
MWM-10 S	10/5/2015	618.59	620.51	609.59	594.59	NP	0.00	4.05	2.13	616.46	-0.05	21.87	Yes	
MWM-10 S	5/23/2016	618.59	620.51	609.59	594.59	NP	0.00	4.03	2.11	616.48	0.02	21.89	Yes	
MWM-10 S	10/3/2016	618.59	620.51	609.59	594.59	NP	0.00	4.56	2.64	615.95	-0.53	21.36	Yes	
MWM-10 S	6/29/2017	618.59	620.51	609.59	594.59	NP	0.00	9.28	7.36	611.23	-4.72	16.64	Yes	
MWM-10 D	7/31/2009	618.86	620.82	566.87	561.87		0.00							
MWM-10 D	10/11/2009	618.86	620.82	566.87	561.87	NP	0.00	10.89	8.94	609.93	NA	48.06	Yes	
MWM-10 D	4/28/2010	618.86	620.82	566.87	561.87	NP	0.00	10.99	9.04	609.83	-0.10	47.96	Yes	
MWM-10 D	10/25/2010	618.86	620.82	566.87	561.87	NP	0.00	9.92	7.97	610.90	1.07	49.03	Yes	
MWM-10 D	4/25/2011	618.86	620.82	566.87	561.87	NP	0.00	10.32	8.37	610.50	-0.40	48.63	Yes	
MWM-10 D	10/11/2011	618.86	620.82	566.87	561.87	NP	0.00	10.57	8.62	610.25	-0.25	48.38	Yes	
MWM-10 D	1/4/2012	618.86	620.82	566.87	561.87	NP	0.00	11.63	9.68	609.19	-1.06	47.32	Yes	
MWM-10 D	4/16/2012	618.86	620.82	566.87	561.87	NP	0.00	11.22	9.27	609.60	0.41	47.73	Yes	
MWM-10 D	6/28/2012	618.86	620.82	566.87	561.87	NP	0.00	8.93	6.98	611.89	2.29	50.02	Yes	
MWM-10 D	9/30/2012	618.86	620.82	566.87	561.87	NP	0.00	11.41	9.46	609.41	-2.48	47.54	Yes	
MWM-10 D	12/17/2012	618.86	620.82	566.87	561.87	NP	0.00	11.77	9.82	609.05	-0.36	47.18	Yes	
MWM-10 D	3/25/2013	618.86	620.82	566.87	561.87	NP	0.00	12.46	10.51	608.36	-0.69	46.49	Yes	
MWM-10 D	5/5/2013	618.86	620.82	566.87	561.87	NP	0.00	11.02	9.07	609.80	1.44	47.93	Yes	

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MWM-10 D	10/1/2013	618.86	620.82	566.87	561.87	NP	0.00	11.21	9.26	609.61	-0.19	47.74	Yes	
MWM-10 D	5/21/2014	618.86	620.82	566.87	561.87	NP	0.00	9.04	7.09	611.78	2.17	49.91	Yes	
MWM-10 D	10/30/2014	618.86	620.82	566.87	561.87	NP	0.00	9.66	7.71	611.16	-0.62	49.29	Yes	
MWM-10 D	5/5/2015	618.86	620.82	566.87	561.87	NP	0.00	10.64	8.69	610.18	-0.98	48.31	Yes	
MWM-10 D	10/6/2015	618.86	620.82	566.87	561.87	NP	0.00	9.50	7.55	611.32	1.14	49.45	Yes	
MWM-10 D	5/23/2016	618.86	620.82	566.87	561.87	NP	0.00	8.74	6.79	612.08	0.76	50.21	Yes	
MWM-10 D	10/3/2016	618.86	620.82	566.87	561.87	NP	0.00	9.38	7.43	611.44	-0.64	49.57	Yes	
MWM-10 D	6/14/2017	618.86	620.82	566.87	561.87	NP	0.00	8.65	6.70	612.17	0.73	50.30	Yes	
MW-17	09/08/88	630.50	633.00	616.50	606.50	NP	0.00	19.26	16.76	613.74	NA	7.24	No	
MW-17	09/20/88	630.50	633.00	616.50	606.50	NP	0.00	19.74	17.24	613.26	-0.48	6.76	No	
MW-17	04/27/89	630.50	633.00	616.50	606.50	NP	0.00	19.28	16.78	613.72	0.46	7.22	No	
MW-17	05/18/89	630.50	633.00	616.50	606.50	NP	0.00	18.81	16.31	614.19	0.47	7.69	No	
MW-17	06/30/89	630.50	633.00	616.50	606.50	NP	0.00	18.10	15.60	614.90	0.71	8.40	No	
MW-17	07/12/89	630.50	633.00	616.50	606.50	NP	0.00	18.25	15.75	614.75	-0.15	8.25	No	
MW-17	07/26/89	630.50	633.00	616.50	606.50	NP	0.00	18.59	16.09	614.41	-0.34	7.91	No	
MW-17	07/27/89	630.50	633.00	616.50	606.50	NP	0.00	18.64	16.14	614.36	-0.05	7.86	No	
MW-17	09/03/89	630.50	633.00	616.50	606.50	NP	0.00	18.98	16.48	614.02	-0.34	7.52	No	
MW-17	11/28/89	630.50	633.00	616.50	606.50	NP	0.00	19.43	16.93	613.57	-0.45	7.07	No	
MW-17	06/01/90	630.50	633.00	616.50	606.50	NP	0.00	19.41	16.91	613.59	0.02	7.09	No	
MW-17	06/19/90	630.50	633.00	616.50	606.50	NP	0.00	19.28	16.78	613.72	0.13	7.22	No	
MW-17	06/27/90	630.50	633.00	616.50	606.50	NP	0.00	19.30	16.80	613.70	-0.02	7.20	No	
MW-17	07/05/90	630.50	633.00	616.50	606.50	NP	0.00	19.35	16.85	613.65	-0.05	7.15	No	
MW-17	07/17/90	630.50	633.00	616.50	606.50	NP	0.00	19.39	16.89	613.61	-0.04	7.11	No	
MW-17	07/25/90	630.50	633.00	616.50	606.50	NP	0.00	19.46	16.96	613.54	-0.07	7.04	No	
MW-17	08/09/90	630.50	633.00	616.50	606.50	NP	0.00	19.50	17.00	613.50	-0.04	7.00	No	
MW-17	08/27/90	630.50	633.00	616.50	606.50	NP	0.00	19.45	16.95	613.55	0.05	7.05	No	
MW-17	09/06/90	630.50	633.00	616.50	606.50	NP	0.00	19.18	16.68	613.82	0.27	7.32	No	
MW-17	01/04/91	630.50	633.00	616.50	606.50	NP	0.00	18.42	15.92	614.58	0.76	8.08	No	
MW-17	01/30/91	630.50	633.00	616.50	606.50	NP	0.00	18.93	16.43	614.07	-0.51	7.57	No	
MW-17	04/24/91	630.50	633.00	616.50	606.50	NP	0.00	18.95	16.45	614.05	-0.02	7.55	No	
MW-17	07/09/91	630.50	633.00	616.50	606.50	NP	0.00	15.95	13.45	617.05	3.00	10.55	Yes	
MW-17	10/08/91	630.50	633.00	616.50	606.50	NP	0.00	14.76	12.26	618.24	1.19	11.74	Yes	
MW-17	01/07/92	630.50	633.00	616.50	606.50	NP	0.00	15.44	12.94	617.56	-0.68	11.06	Yes	
MW-17	10/14/92	630.50	633.00	616.50	606.50	NP	0.00	15.61	13.11	617.39	-0.17	10.89	Yes	
MW-17	06/25/93	630.50	633.00	616.50	606.50	NP	0.00	11.52	9.02	621.48	4.09	14.98	Yes	
MW-17	10/28/93	630.50	633.00	616.50	606.50	NP	0.00	15.95	13.45	617.05	-4.43	10.55	Yes	
MW-17	01/29/94	630.50	633.00	616.50	606.50	NP	0.00	16.91	14.41	616.09	-0.96	9.59	No	
MW-17	04/27/94	630.50	633.00	616.50	606.50	NP	0.00	15.78	13.28	617.22	1.13	10.72	Yes	
MW-17	07/21/94	630.50	633.00	616.50	606.50	NP	0.00	15.58	13.08	617.42	0.20	10.92	Yes	
MW-17	10/25/94	630.50	633.00	616.50	606.50	NP	0.00	16.11	13.61	616.89	-0.53	10.39	Yes	
MW-17	10/28/94	630.50	633.00	616.50	606.50	NP	0.00	15.29	12.79	617.71	0.82	11.21	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-17	02/01/95	630.50	633.00	616.50	606.50	NP	0.00	17.71	15.21	615.29	-2.42	8.79	No	
MW-17	04/04/95	630.50	633.00	616.50	606.50	NP	0.00	17.75	15.25	615.25	-0.04	8.75	No	
MW-17	07/12/95	630.50	633.00	616.50	606.50	NP	0.00	16.69	14.19	616.31	1.06	9.81	No	
MW-17	11/13/95	630.50	633.00	616.50	606.50	NP	0.00	15.17	12.67	617.83	1.52	11.33	Yes	
MW-17	03/13/96	630.50	633.00	616.50	606.50	NP	0.00	17.47	14.97	615.53	-2.30	9.03	No	
MW-17	04/22/96	630.50	633.00	616.50	606.50	NP	0.00	15.30	12.80	617.70	2.17	11.20	Yes	
MW-17	10/08/96	630.50	633.00	616.50	606.50	NP	0.00	14.35	11.85	618.65	0.95	12.15	Yes	
MW-17	04/29/97	630.50	633.00	616.50	606.50	NP	0.00	13.02	10.52	619.98	1.33	13.48	Yes	
MW-17	11/03/98	630.50	633.00	616.50	606.50	NP	0.00	17.69	15.19	615.31	-4.67	8.81	No	
MW-17	03/02/99	630.50	633.00	616.50	606.50	NP	0.00	17.89	15.39	615.11	-0.20	8.61	No	
MW-17	04/26/00	630.50	633.00	616.50	606.50	NP	0.00	16.53	14.03	616.47	1.36	9.97	No	
MW-17	10/10/00	630.50	633.00	616.50	606.50	NP	0.00	12.03	9.53	620.97	4.50	14.47	Yes	
MW-17	04/24/01	630.50	633.00	616.50	606.50	NP	0.00	17.01	14.51	615.99	-4.98	9.49	No	
MW-17	10/23/01	630.50	633.00	616.50	606.50	NP	0.00	17.52	15.02	615.48	-0.51	8.98	No	
MW-17	01/22/02	630.50	633.00	616.50	606.50	NP	0.00	18.26	15.76	614.74	-0.74	8.24	No	
MW-17	02/26/02	630.50	633.00	616.50	606.50	NP	0.00	18.35	15.85	614.65	-0.09	8.15	No	
MW-17	03/20/02	630.50	633.00	616.50	606.50	NP	0.00	18.54	16.04	614.46	-0.28	#VALUE!	No	
MW-17	04/23/02	630.50	633.00	615.50	606.50	NP	0.00	19.95	17.45	613.05	-1.41	6.55	No	
MW-17	05/15/02	630.50	633.00	615.50	606.50	NP	0.00	16.84	14.34	616.16	3.11	9.66	Yes	
MW-17	08/20/02	630.50	633.00	615.50	606.50	NP	0.00	16.78	14.28	616.22	0.06	9.72	Yes	
MW-17	09/30/02	630.50	633.00	615.50	606.50	NP	0.00	16.49	13.99	616.51	0.29	10.01	Yes	
MW-17	11/05/02	630.50	633.00	615.50	606.50	NP	0.00	15.95	13.45	617.05	0.54	10.55	Yes	
MW-17	12/23/02	630.50	633.00	615.50	606.50	NP	0.00	17.39	14.89	615.61	-1.44	9.11	Yes	
MW-17	01/28/03	630.50	633.00	615.50	606.50	NP	0.00	17.79	15.29	615.21	-0.40	8.71	No	
MW-17	02/19/03	630.50	633.00	615.50	606.50	NP	0.00	18.06	15.56	614.94	-0.27	8.44	No	
MW-17	04/17/03	630.50	633.00	615.50	606.50	NP	0.00	18.63	16.13	614.37	-0.57	7.87	No	
MW-17	06/10/03	630.50	633.00	615.50	606.50	NP	0.00	18.02	15.52	614.98	0.61	8.48	No	
MW-17	10/20/03	630.50	633.00	615.50	606.50	NP	0.00	18.57	16.07	614.43	-0.55	7.93	No	
MW-17	12/03/03	630.50	633.00	615.50	606.50	NP	0.00	19.12	16.62	613.88	-0.55	7.38	No	
MW-17	04/19/04	630.70	633.35	615.50	606.50	NP	0.00	19.57	16.92	613.78	-0.10	7.28	No	
MW-17	07/28/04	630.70	633.35	615.50	606.50	NP	0.00	17.74	15.09	615.61	1.83	9.11	Yes	
MW-17	11/16/04	630.70	633.35	615.50	606.50	NP	0.00	16.90	14.25	616.45	0.84	9.95	Yes	
MW-17	04/18/05	630.70	633.35	615.50	606.50	NP	0.00	17.25	14.60	616.10	-0.35	9.60	Yes	
MW-17	10/11/05	630.70	633.35	615.50	606.50	NP	0.00	16.25	13.60	617.10	1.00	10.60	Yes	
MW-17	05/23/06	630.70	633.35	615.50	606.50	NP	0.00	15.79	13.14	617.56	0.46	11.06	Yes	
MW-17	10/16/06	630.70	633.35	615.50	606.50	NP	0.00	17.06	14.41	616.29	-1.27	9.79	Yes	
MW-17	04/23/07	630.70	633.35	615.50	606.50	NP	0.00	18.53	15.88	614.82	-1.47	8.32	No	
MW-17	09/25/07	630.70	633.35	615.50	606.50	NP	0.00	18.39	15.74	614.96	0.14	8.46	No	
MW-17	05/01/08	630.70	633.35	615.50	606.50	NP	0.00	16.64	13.99	616.71	1.75	10.21	Yes	
MW-17	10/20/08	630.70	633.35	615.50	606.50	NP	0.00	14.98	12.33	618.37	1.66	11.87	Yes	
MW-17	04/18/09	630.70	633.35	615.50	606.50	NP	0.00	16.23	13.58	617.12	-1.25	10.62	Yes	
MW-17	08/31/11	630.70	633.35	615.50	606.50	NP	0.00	14.89	12.24	618.46	1.34	11.96	Yes	
MW-17	10/10/11	630.70	633.35	615.50	606.50	NP	0.00	16.19	13.54	617.16	-1.30	10.66	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-17	01/04/12	630.70	633.35	615.50	606.50	NP	0.00	17.49	14.84	615.86	-1.30	9.36	Yes	
MW-17	04/16/12	630.70	633.35	615.50	606.50	NP	0.00	18.22	15.57	615.13	-0.73	8.63	No	
MW-17	06/26/12	630.70	633.35	615.50	606.50	NP	0.00	14.52	11.87	618.83	3.70	12.33	Yes	
MW-17	09/30/12	630.70	633.35	615.50	606.50	NP	0.00	17.27	14.62	616.08	-2.75	9.58	Yes	
MW-17	12/17/12	630.70	633.35	615.50	606.50	NP	0.00	17.98	15.33	615.37	-0.71	8.87	No	
MW-17	03/25/13	630.70	633.35	615.50	606.50	NP	0.00	19.39	16.74	613.96	-1.41	9.03	No	
MW-17	05/05/13	630.70	633.35	615.50	606.50	NP	0.00	18.58	15.93	614.77	0.81	26.85	No	
MW-17	10/03/13	630.70	633.35	615.50	606.50	NP	0.00	17.82	15.17	615.53	0.76	19.14	Yes	
MW-17	05/20/14	Broken and repaired on June 18th, TOC needs to be re-surveyed												
MW-17	07/14/14	630.70	632.88	615.50	606.50	-	-	-	-	-	-	-	-	-
MW-17	07/30/14	630.70	632.88	615.50	606.50	NP	0.00	15.72	13.54	617.16	1.63	18.05	Yes	
MW-17	10/29/14	630.70	632.88	615.50	606.50	NP	0.00	15.71	13.53	617.17	0.01	19.04	Yes	
MW-17	05/06/15	630.70	632.88	615.50	606.50	NP	0.00	17.39	15.21	615.49	-1.68	16.80	No	
MW-17	10/05/15	630.70	632.88	615.50	606.50	NP	0.00	15.26	13.08	617.62	2.13	16.76	Yes	
MW-17	05/23/16	630.70	632.88	615.50	606.50	NP	0.00	13.30	11.12	619.58	1.96	15.99	Yes	
MW-17	10/03/16	630.70	632.88	615.50	606.50	NP	0.00	14.97	12.79	617.91	-1.67	17.70	Yes	
MW-17	06/29/17	630.70	632.88	615.50	606.50	NP	0.00	14.25	12.07	618.63	0.72	16.97	Yes	
MW-31	06/30/89	633.20	635.20	614.50	604.50	NP	0.00	19.60	17.60	615.60	NA	11.10	Yes	
MW-31	07/12/89	633.20	635.20	614.50	604.50	NP	0.00	19.99	17.99	615.21	-0.39	10.71	Yes	
MW-31	07/26/89	633.20	635.20	614.50	604.50	NP	0.00	20.23	18.23	614.97	-0.24	10.47	Yes	
MW-31	07/27/89	633.20	635.20	614.50	604.50	NP	0.00	20.37	18.37	614.83	-0.14	10.33	Yes	
MW-31	09/03/89	633.20	635.20	614.50	604.50	NP	0.00	20.54	18.54	614.66	-0.17	10.16	Yes	
MW-31	11/29/89	633.20	635.20	614.50	604.50	NP	0.00	21.26	19.26	613.94	-0.72	9.44	No	
MW-31	12/01/89	633.20	635.20	614.50	604.50	NP	0.00	20.61	18.61	614.59	0.65	10.09	Yes	
MW-31	06/19/90	633.20	635.20	614.50	604.50	NP	0.00	20.46	18.46	614.74	0.15	10.24	Yes	
MW-31	06/27/90	633.20	635.20	614.50	604.50	NP	0.00	20.70	18.70	614.50	-0.24	10.00	No	
MW-31	07/05/90	633.20	635.20	614.50	604.50	NP	0.00	20.88	18.88	614.32	-0.18	9.82	No	
MW-31	07/13/90	633.20	635.20	614.50	604.50	NP	0.00	20.89	18.89	614.31	-0.01	9.81	No	
MW-31	07/17/90	633.20	635.20	614.50	604.50	NP	0.00	20.73	18.73	614.47	0.16	9.97	No	
MW-31	07/25/90	633.20	635.20	614.50	604.50	NP	0.00	20.94	18.94	614.26	-0.21	9.76	No	
MW-31	08/09/90	633.20	635.20	614.50	604.50	NP	0.00	20.96	18.96	614.24	-0.02	9.74	No	
MW-31	08/14/90	633.20	635.20	614.50	604.50	NP	0.00	21.01	19.01	614.19	-0.05	9.69	No	
MW-31	08/27/90	633.20	635.20	614.50	604.50	NP	0.00	20.67	18.67	614.53	0.34	10.03	Yes	
MW-31	09/06/90	633.20	635.20	614.50	604.50	NP	0.00	20.27	18.27	614.93	0.40	10.43	Yes	
MW-31	01/04/91	633.20	635.20	614.50	604.50	NP	0.00	20.19	18.19	615.01	0.08	10.51	Yes	
MW-31	01/30/91	633.20	635.20	614.50	604.50	NP	0.00	20.53	18.53	614.67	-0.34	10.17	Yes	
MW-31	04/24/91	633.20	635.20	614.50	604.50	NP	0.00	20.32	18.32	614.88	0.21	10.38	Yes	
MW-31	07/09/91	633.20	635.20	614.50	604.50	NP	0.00	17.12	15.12	618.08	3.20	13.58	Yes	
MW-31	10/08/91	633.20	635.20	614.50	604.50	NP	0.00	16.38	14.38	618.82	0.74	14.32	Yes	
MW-31	01/07/92	633.20	635.20	614.50	604.50	NP	0.00	17.24	15.24	617.96	-0.86	13.46	Yes	
MW-31	10/14/92	633.20	635.20	614.50	604.50	NP	0.00	17.60	15.60	617.60	-0.36	13.10	Yes	
MW-31	06/25/93	633.20	635.20	614.50	604.50	NP	0.00	14.07	12.07	621.13	3.53	16.63	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-31	10/28/93	633.20	635.20	614.50	604.50	NP	0.00	17.95	15.95	617.25	-3.88	12.75	Yes	
MW-31	01/29/94	633.20	635.20	614.50	604.50	NP	0.00	18.19	16.19	617.01	-0.24	12.51	Yes	
MW-31	04/27/94	633.20	635.20	614.50	604.50	NP	0.00	17.95	15.95	617.25	0.24	12.75	Yes	
MW-31	07/21/94	633.20	635.20	614.50	604.50	NP	0.00	17.47	15.47	617.73	0.48	13.23	Yes	
MW-31	10/25/94	633.20	635.20	614.50	604.50	NP	0.00	17.98	15.98	617.22	-0.51	12.72	Yes	
MW-31	10/28/94	633.20	635.20	614.50	604.50	NP	0.00	17.49	15.49	617.71	0.49	13.21	Yes	
MW-31	02/01/95	633.20	635.20	614.50	604.50	NP	0.00	20.39	18.39	614.81	-2.90	10.31	Yes	
MW-31	04/04/95	633.20	635.20	614.50	604.50	NP	0.00	20.03	18.03	615.17	0.36	10.67	Yes	
MW-31	07/12/95	633.20	635.20	614.50	604.50	NP	0.00	18.77	16.77	616.43	1.26	11.93	Yes	
MW-31	11/13/95	633.20	635.20	614.50	604.50	NP	0.00	17.13	15.13	618.07	1.64	13.57	Yes	
MW-31	03/13/96	633.20	635.20	614.50	604.50	NP	0.00	19.81	17.81	615.39	-2.68	10.89	Yes	
MW-31	04/22/96	633.20	635.20	614.50	604.50	NP	0.00	17.43	15.43	617.77	2.38	13.27	Yes	
MW-31	10/08/96	633.20	635.20	614.50	604.50	NP	0.00	16.56	14.56	618.64	0.87	14.14	Yes	
MW-31	04/29/97	633.20	635.20	614.50	604.50	NP	0.00	15.30	13.30	619.90	1.26	15.40	Yes	
MW-31	11/03/98	633.20	635.20	614.50	604.50	NP	0.00	19.93	17.93	615.27	-4.63	10.77	Yes	
MW-31	03/02/99	633.20	635.20	614.50	604.50	NP	0.00	20.03	18.03	615.17	-0.10	10.67	Yes	
MW-31	04/26/00	633.20	635.20	614.50	604.50	NP	0.00	18.63	16.63	616.57	1.40	12.07	Yes	
MW-31	10/10/00	633.20	635.20	614.50	604.50	NP	0.00	19.83	17.83	615.37	-1.20	10.87	Yes	
MW-31	04/24/01	633.20	635.20	614.50	604.50	NP	0.00	18.94	16.94	616.26	0.89	11.76	Yes	
MW-31	10/23/01	633.20	635.20	614.50	604.50	NP	0.00	19.67	17.67	615.53	-0.73	11.03	Yes	
MW-31	04/23/02	633.20	635.20	614.50	604.50	NP	0.00	19.80	17.80	615.40	-0.13	10.90	Yes	
MW-31	11/05/02	633.20	635.20	614.50	604.50	NP	0.00	19.64	17.64	615.56	0.16	11.06	Yes	
MW-31	04/17/03	633.20	635.20	614.50	604.50	NP	0.00	20.90	18.90	614.30	-1.26	9.80	No	
MW-31	10/20/03	633.20	635.20	614.50	604.50	NP	0.00	20.59	18.59	614.61	0.31	10.11	Yes	
MW-31	04/19/04	633.17	635.11	614.50	604.50	NP	0.00	21.15	19.21	613.96	-0.65	9.46	No	
MW-31	11/16/04	633.17	635.11	614.50	604.50	NP	0.00	18.51	16.57	616.60	2.64	12.10	Yes	
MW-31	04/18/05	633.17	635.11	614.50	604.50	NP	0.00	18.79	16.85	616.32	-0.28	11.82	Yes	
MW-31	10/11/05	633.17	635.11	614.50	604.50	NP	0.00	18.18	16.24	616.93	0.61	12.43	Yes	
MW-31	05/23/06	633.17	635.11	614.50	604.50	NP	0.00	17.40	15.46	617.71	0.78	13.21	Yes	
MW-31	10/16/06	633.17	635.11	614.50	604.50	NP	0.00	19.59	17.65	615.52	-2.19	11.02	Yes	
MW-31	04/23/07	633.17	635.11	614.50	604.50	NP	0.00	20.33	18.39	614.78	-0.74	10.28	Yes	
MW-31	09/25/07	633.17	634.94	614.50	604.50	NP	0.00	19.95	18.18	614.99	0.21	10.49	Yes	
MW-31	05/01/08	633.17	634.94	614.50	604.50	NP	0.00	18.17	16.40	616.77	1.78	12.27	Yes	
MW-31	10/20/08	633.17	634.94	614.50	604.50	NP	0.00	16.24	14.47	618.70	1.93	14.20	Yes	
MW-31	04/18/09	633.17	634.94	614.50	604.50	NP	0.00	17.57	15.80	617.37	-1.33	12.87	Yes	
MW-31	10/11/09	633.17	634.94	614.50	604.50	NP	0.00	18.86	17.09	616.08	-1.29	11.58	Yes	
MW-31	04/28/10	633.17	634.94	614.50	604.50	NP	0.00	18.79	17.02	616.15	0.07	11.65	Yes	
MW-31	10/25/10	633.17	634.94	614.50	604.50	NP	0.00	16.76	14.99	618.18	2.03	13.68	Yes	
MW-31	04/25/11	633.17	634.94	614.50	604.50	NP	0.00	17.49	15.72	617.45	-0.73	12.95	Yes	
MW-31	10/10/11	633.17	634.94	614.50	604.50	NP	0.00	17.78	16.01	617.16	-0.29	12.66	Yes	
MW-31	01/04/12	633.17	634.94	614.50	604.50	NP	0.00	19.42	17.65	615.52	-1.64	11.02	Yes	
MW-31	04/16/12	633.17	634.94	614.50	604.50	NP	0.00	19.98	18.21	614.96	-0.56	10.46	Yes	
MW-31	06/26/12	633.17	634.94	614.50	604.50	NP	0.00	15.69	13.92	619.25	4.29	14.75	Yes	

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-31	09/30/12	633.17	634.94	614.50	604.50	NP	0.00	19.09	17.32	615.85	-3.40	11.35	Yes	
MW-31	12/17/12	633.17	634.94	614.50	604.50	NP	0.00	19.89	18.12	615.05	-0.80	10.55	Yes	
MW-31	03/25/13	633.17	634.94	614.50	604.50	NP	0.00	20.84	19.07	614.10	-0.95	9.60	No	
MW-31	05/05/13	633.17	634.94	614.50	604.50	NP	0.00	19.83	18.06	615.11	1.01	10.61	Yes	
MW-31	10/03/13	633.17	634.94	614.50	604.50	NP	0.00	19.47	17.70	615.47	0.36	10.97	Yes	
MW-31	05/20/14	633.17	634.94	614.50	604.50	NP	0.00	16.60	14.83	618.34	2.87	13.84	Yes	
MW-31	10/31/14	633.17	634.94	614.50	604.50	NP	0.00	17.47	15.70	617.47	-0.87	12.97	Yes	
MW-31	05/04/15	633.17	634.94	614.50	604.50	NP	0.00	19.26	17.49	615.68	-1.79	11.18	Yes	
MW-31	10/05/15	633.17	634.94	614.50	604.50	NP	0.00	16.93	15.16	618.01	2.33	13.51	Yes	
MW-31	05/23/16	633.17	634.94	614.50	604.50	NP	0.00	14.91	13.14	620.03	2.02	15.53	Yes	
MW-31	10/03/16	633.17	634.94	614.50	604.50	NP	0.00	16.54	14.77	618.40	-1.63	13.90	Yes	
MW-31	06/29/17	633.17	634.94	614.50	604.50	NP	0.00	15.90	14.13	619.04	0.64	14.54	Yes	
MW-32	08/06/91	631.30	634.08	617.18	607.18	15.43	0.55	15.98	12.77	618.53	NA	11.47	Yes	
MW-32	09/04/91	631.30	634.08	617.18	607.18	15.91	0.25	16.16	13.19	618.12	-0.42	10.99	Yes	
MW-32	10/08/91	631.30	634.08	617.18	607.18	15.26	0.22	15.48	12.53	618.77	0.66	11.64	Yes	
MW-32	11/08/91	631.30	634.08	617.18	607.18	15.92	0.17	16.09	13.18	618.12	-0.65	10.98	Yes	
MW-32	12/03/91	631.30	634.08	617.18	607.18	13.97	0.05	14.02	11.20	620.10	1.98	12.93	Yes	
MW-32	01/07/92	631.30	634.08	617.18	607.18	16.06	0.28	16.34	13.34	617.96	-2.14	10.84	Yes	
MW-32	02/04/92	631.30	634.08	617.18	607.18	16.95	0.65	17.60	14.32	616.99	-0.97	9.95	No	
MW-32	03/03/92	631.30	634.08	617.18	607.18	17.40	0.92	18.32	14.83	616.48	-0.51	9.50	No	
MW-32	09/24/92	631.30	634.08	617.18	607.18	15.10	0.70	15.80	12.48	618.83	2.35	11.80	Yes	
MW-32	10/14/92	631.30	634.08	617.18	607.18	16.56	0.06	16.62	13.79	617.51	-1.32	10.34	Yes	
MW-32	06/25/93	631.30	634.08	617.18	607.18	12.24	0.00	12.24	9.46	621.84	4.33	14.66	Yes	
MW-32	10/28/93	631.30	634.08	617.18	607.18	17.15	0.66	17.81	14.52	616.79	-5.05	9.75	No	
MW-32	01/29/94	631.30	634.08	617.18	607.18	17.66	1.44	19.10	15.21	616.11	-0.68	9.24	No	
MW-32	04/27/94	631.30	634.08	617.18	607.18	16.73	0.00	16.73	13.95	617.35	1.24	10.17	Yes	
MW-32	07/21/94	631.30	634.08	617.18	607.18	15.92	1.83	17.75	13.55	617.77	0.42	10.98	Yes	
MW-32	10/25/94	631.30	634.08	617.18	607.18	16.61	1.12	17.73	14.08	617.23	-0.54	10.29	Yes	
MW-32	02/01/95	631.30	634.08	617.18	607.18	17.82	2.61	20.43	15.63	615.71	-1.53	9.08	No	
MW-32	04/04/95	631.30	634.08	617.18	607.18	18.31	1.74	20.05	15.92	615.40	-0.31	8.59	No	
MW-32	07/12/95	631.30	634.08	617.18	607.18	17.38	1.60	18.98	14.96	616.36	0.96	9.52	No	
MW-32	11/13/95	631.30	634.08	617.18	607.18	15.58	1.72	17.30	13.19	618.13	1.77	11.32	Yes	
MW-32	03/13/96	631.30	634.08	617.18	607.18	18.00	2.59	20.59	15.80	615.53	-2.60	8.90	No	
MW-32	10/08/96	631.30	634.08	617.18	607.18	14.47	3.21	17.68	12.42	618.93	3.40	12.43	Yes	
MW-32	04/29/97	631.30	634.08	617.18	607.18	12.91	4.44	17.35	11.13	620.23	1.30	13.99	Yes	
MW-32	06/10/97	631.30	634.08	617.18	607.18	15.14	2.25	17.39	12.87	618.46	-1.76	11.76	Yes	
MW-32	11/03/98	631.30	634.08	617.18	607.18	18.24	2.96	21.20	16.13	615.21	-3.25	8.66	No	
MW-32	03/02/99	631.30	634.08	617.18	607.18	18.44	2.81	21.25	16.29	615.04	-0.17	8.46	No	
MW-32	10/07/99	631.30	634.08	617.18	607.18	14.22	3.34	17.56	12.19	619.15	4.11	12.68	Yes	
MW-32	11/09/99	631.30	634.08	617.18	607.18	13.85	3.81	17.66	11.93	619.42	0.27	13.05	Yes	
MW-32	12/21/99	631.30	634.08	617.18	607.18	16.52	1.23	17.75	14.02	617.30	-2.12	10.38	Yes	
MW-32	01/27/00	631.30	634.08	617.18	607.18	17.22	2.78	20.00	15.07	616.27	-1.03	9.68	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-32	02/24/00	631.30	634.08	617.18	607.18	17.70	3.05	20.75	15.61	615.73	-0.54	9.20	No	
MW-32	03/31/00	631.30	634.08	617.18	607.18	17.44	2.24	19.68	15.17	616.16	0.43	9.46	No	
MW-32	04/26/00	631.30	634.08	617.18	607.18	17.27	0.90	18.17	14.69	616.62	0.45	9.63	No	
MW-32	05/31/00	631.30	634.08	617.18	607.18	17.28	0.98	18.26	14.72	616.59	-0.03	9.62	No	
MW-32	06/29/00	631.30	634.08	617.18	607.18	17.10	0.65	17.75	14.47	616.84	0.25	9.80	No	
MW-32	07/26/00	631.30	634.08	617.18	607.18	17.39	1.82	19.21	15.02	616.30	-0.54	9.51	No	
MW-32	08/18/00	631.30	634.08	617.18	607.18	17.58	1.76	19.34	15.20	616.13	-0.18	9.32	No	
MW-32	09/27/00	631.30	634.08	617.18	607.18	17.90	3.02	20.92	15.80	615.54	-0.59	9.00	No	
MW-32	10/11/00	631.30	634.08	617.18	607.18	17.00	4.25	21.25	15.18	616.18	0.64	9.90	No	
MW-32	12/12/00	631.30	634.08	617.18	607.18	17.89	2.13	20.02	15.59	615.74	-0.44	9.01	No	
MW-32	01/18/01	631.30	634.08	617.18	607.18	18.47	2.14	20.61	16.17	615.16	-0.58	8.43	No	
MW-32	04/24/01	631.30	634.08	617.18	607.18	17.66	2.33	19.99	15.41	615.92	0.77	9.24	No	
MW-32	05/23/01	631.30	634.08	617.18	607.18	16.38	0.60	16.98	13.74	617.57	1.65	10.52	Yes	
MW-32	06/19/01	631.30	634.08	617.18	607.18	16.41	1.11	17.52	13.88	617.43	-0.14	10.49	Yes	
MW-32	07/26/01	631.30	634.08	617.18	607.18	17.32	2.56	19.88	15.12	616.22	-1.22	9.58	No	
MW-32	08/31/01	631.30	634.08	617.18	607.18	17.64	2.84	20.48	15.50	615.84	-0.38	9.26	No	
MW-32	09/26/01	631.30	634.08	617.18	607.18	17.88	2.98	20.86	15.77	615.57	-0.27	9.02	No	
MW-32	10/24/01	631.30	634.08	617.18	607.18	18.00	3.11	21.11	15.92	615.42	-0.15	8.90	No	
MW-32	12/20/01	631.30	634.08	617.18	607.18	18.22	3.15	21.37	16.15	615.19	-0.23	8.68	No	
MW-32	01/22/02	631.30	634.08	617.18	607.18	17.45	4.08	21.53	15.59	615.76	0.57	9.45	No	
MW-32	02/26/02	631.30	634.08	617.18	607.18	19.91	1.77	21.68	17.53	613.79	-1.97	6.99	No	
MW-32	03/20/02	631.30	634.08	617.18	607.18	19.09	2.86	21.95	16.96	614.38	-1.38	7.81	No	
MW-32	04/24/02	631.30	634.08	617.18	607.18	18.42	2.63	21.05	16.23	615.10	0.72	8.48	No	
MW-32	05/15/02	631.30	634.08	617.18	607.18	17.75	2.13	19.88	15.45	615.88	0.78	9.15	No	
MW-32	06/27/02	631.30	634.08	617.18	607.18	17.63	2.00	19.63	15.30	616.03	0.15	9.27	No	
MW-32	07/25/02	631.30	634.08	617.18	607.18	17.68	1.64	19.32	15.27	616.05	0.03	9.22	No	
MW-32	08/20/02	631.30	634.08	617.18	607.18	17.52	1.39	18.91	15.05	616.26	0.21	9.38	No	
MW-32	09/30/02	631.30	634.08	617.18	607.18	17.28	0.46	17.74	14.60	616.70	0.44	9.62	No	
MW-32	11/05/02	631.30	634.08	617.18	607.18	16.75	0.80	17.55	14.15	617.16	0.46	10.15	No	
MW-32	12/23/02	631.30	634.08	617.18	607.18	17.75	2.97	20.72	15.64	615.70	-1.46	9.15	No	
MW-32	01/28/03	631.30	634.08	617.18	607.18	18.37	3.11	21.48	16.29	615.05	-0.65	8.53	No	
MW-32	02/19/03	631.30	634.08	617.18	607.18	18.63	3.13	21.76	16.56	614.78	-0.26	8.27	No	
MW-32	04/17/03	631.30	634.08	617.18	607.18	19.22	3.06	22.28	17.13	614.21	-0.58	7.68	No	
MW-32	05/15/03	631.30	634.08	617.18	607.18	19.11	3.04	22.15	17.02	614.32	0.11	7.79	No	
MW-32	06/10/03	631.30	634.08	617.18	607.18	18.68	2.44	21.12	16.45	614.88	0.56	8.22	No	
MW-32	10/23/03	631.30	634.08	617.18	607.18	19.15	2.95	22.10	17.04	614.30	-0.58	7.75	No	
MW-32	12/03/03	631.30	634.08	617.18	607.18	19.28	3.13	22.41	17.21	614.13	-0.17	7.62	No	
MW-32	04/19/04	631.31	634.31	617.18	607.18	19.73	2.97	22.70	17.40	613.95	-0.19	7.40	No	
MW-32	07/28/04	631.31	634.31	617.18	607.18	18.48	2.12	20.60	15.96	615.38	1.43	8.65	No	
MW-32	11/15/04	631.31	634.31	617.18	607.18	17.17	0.41	17.58	14.26	617.05	1.67	9.96	No	
MW-32	04/18/05	631.31	634.31	617.18	607.18	17.88	1.20	19.08	15.15	616.18	-0.88	9.25	No	
MW-32	09/09/05	631.31	634.31	617.18	607.18	20.37	1.70	22.07	17.75	613.58	-2.60	6.76	No	
MW-32	10/11/05	631.31	634.31	617.18	607.18	17.51	1.07	18.58	14.75	616.57	2.99	9.62	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-32	05/23/06	631.31	634.31	617.18	607.18	16.47	0.64	17.11	13.61	617.70	1.13	10.66	Yes	
MW-32	10/16/06	631.31	634.31	617.18	607.18	18.36	2.75	21.11	15.98	615.37	-2.34	8.77	No	
MW-32	04/23/07	631.31	634.31	617.18	607.18	19.25	2.78	22.03	16.88	614.47	-0.90	7.88	No	
MW-32	09/25/07	631.31	634.14	617.18	607.18	19.22	2.98	22.20	17.06	614.29	-0.18	7.74	No	
MW-32	05/01/08	631.31	634.14	617.18	607.18	NP	0.00	17.39	14.56	616.75	2.46	9.57	No	
MW-32	10/20/08	631.31	634.14	617.18	607.18	15.92	1.40	17.32	13.41	617.92	1.17	11.04	Yes	
MW-32	04/18/09	631.31	634.14	617.18	607.18	NP	0.00	17.35	14.52	616.79	-1.13	9.61	No	
MW-32	08/31/11	631.31	634.14	617.18	607.18	15.63	1.79	17.42	13.20	618.13	1.34	11.33	Yes	
MW-32	10/10/11	631.31	634.14	617.18	607.18	17.22	0.81	18.03	14.57	616.75	-1.38	9.74	No	
MW-32	01/04/12	631.31	634.14	617.18	607.18	18.26	2.94	21.20	16.09	615.26	-1.49	8.70	No	
MW-32	04/05/12	631.31	634.14	617.18	607.18	19.08	2.97	22.05	16.92	614.43	-0.83	7.88	No	
MW-32	04/05/12	631.31	634.14	617.18	607.18	19.47	1.13	20.60	16.90	614.43	0.00	7.49	No	
MW-32	04/16/12	631.31	634.14	617.18	607.18	19.08	2.95	22.03	16.92	614.43	0.00	7.88	No	
MW-32	06/26/12	631.31	634.14	617.18	607.18	14.99	2.23	17.22	12.66	618.68	4.24	11.97	Yes	
MW-32	09/28/12	631.31	634.14	617.18	607.18	18.15	2.24	20.39	15.83	615.51	-3.16	8.81	No	
MW-32	09/28/12	631.31	634.14	617.18	607.18	18.45	0.79	19.24	15.80	615.52	0.01	8.51	No	
MW-32	09/30/12	631.31	634.14	617.18	607.18	18.11	2.23	20.34	15.78	615.56	0.03	8.85	No	
MW-32	11/21/12	631.31	634.14	617.18	607.18	18.57	2.83	21.40	16.38	614.97	-0.59	8.39	No	
MW-32	12/17/12	631.31	634.14	617.18	607.18	18.78	2.95	21.73	16.62	614.73	-0.24	8.18	No	
MW-32	03/25/13	631.31	634.14	617.18	607.18	19.52	3.42	22.94	17.46	613.89	-0.84	7.44	No	
MW-32	05/05/13	631.31	634.14	617.18	607.18	19.32	2.75	22.07	17.11	614.24	0.34	7.64	No	
MW-32	10/03/13	631.31	634.14	617.18	607.18	18.75	2.28	21.03	16.43	614.91	0.67	8.21	No	
MW-32	05/22/14	631.31	634.14	617.18	607.18	16.34	0.85	17.19	13.70	617.62	2.71	10.62	Yes	
MW-32	06/18/14	631.31	634.14	617.18	607.18	15.61	1.96	17.57	13.22	618.11	0.49	11.35	Yes	
MW-32	10/31/14	631.31	634.14	617.18	607.18	17.00	0.25	17.25	14.23	617.09	-1.03	9.96	No	
MW-32	05/06/15	631.31	634.14	617.18	607.18	18.32	2.44	20.76	16.04	615.30	-1.79	8.64	No	
MW-32	09/10/15	631.31	634.14	617.18	607.18	17.73	1.07	18.80	15.14	616.18	0.88	9.23	No	
MW-32	09/14/15	631.31	634.14	617.18	607.18	17.66	0.65	18.31	14.98	616.34	0.16	9.30	No	
MW-32	10/01/15	631.31	634.14	617.18	607.18	16.92	0.21	17.13	14.14	617.18	0.83	10.04	No	
MW-32	10/05/15	631.31	634.14	617.18	607.18	16.73	0.40	17.13	13.99	617.33	0.15	10.23	Yes	
MW-32	10/29/15	631.31	634.14	617.18	607.18	17.17	0.37	17.54	14.42	616.89	-0.43	9.79	No	
MW-32	04/11/16	631.31	634.14	617.18	607.18	13.86	3.71	17.57	11.87	619.49	2.60	13.10	Yes	
MW-32	05/23/16							pump obstruction						
MW-32	07/15/16	631.31	634.14	617.18	607.18	14.11	3.24	17.35	12.01	619.34	-0.15	12.85	Yes	
MW-32	07/21/16	631.31	634.14	617.18	607.18	13.61	3.71	17.32	11.62	619.74	0.40	13.35	Yes	
MW-32	07/25/16	631.31	634.14	617.18	607.18	14.56	1.69	16.25	12.11	619.22	-0.52	12.40	Yes	
MW-32	08/01/16	631.31	634.14	617.18	607.18	15.02	2.12	17.14	12.67	618.67	-0.55	11.94	Yes	
MW-32	8/9/2016	631.31	634.14	617.18	607.18	15.22	1.98	17.20	12.84	618.50	-0.17	11.74	Yes	
MW-32	08/18/16	631.31	634.14	617.18	607.18	15.55	1.60	17.15	13.08	618.25	-0.25	11.41	Yes	
MW-32	08/26/16	631.31	634.14	617.18	607.18	16.10	0.99	17.09	13.49	617.83	-0.42	10.86	Yes	
MW-32	10/03/16	631.31	634.14	617.18	607.18	16.16	0.94	17.10	13.54	617.78	-0.05	10.80	Yes	
MW-32	05/02/17	631.31	634.14	617.18	607.18	14.86	2.38	17.24	12.57	618.77	0.99	12.10	Yes	
MW-32	05/31/17	631.31	634.14	617.18	607.18	12.56	4.22	16.78	10.68	620.68	1.91	14.40	Yes	

Table 3
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-32	06/14/17	631.31	634.14	617.18	607.18	14.40	1.58	15.98	11.93	619.40	-1.28	12.56	Yes	
MW-36S	7/26/2011	617.30	619.32	607.30	592.30	NP	0.00	7.71	5.69	611.61	NA	19.31	Yes	
MW-36S	10/11/2011	617.30	619.32	607.30	592.30	NP	0.00	8.74	6.72	610.58	-1.03	18.28	Yes	
MW-36S	1/4/2012	617.30	619.32	607.30	592.30	NP	0.00	9.59	7.57	609.73	-0.85	17.43	Yes	
MW-36S	4/16/2012	617.30	619.32	607.30	592.30	NP	0.00	8.33	6.31	610.99	1.26	18.69	Yes	
MW-36S	6/28/2012	617.30	619.32	607.30	592.30	NP	0.00	7.34	5.32	611.98	0.99	19.68	Yes	
MW-36S	9/30/2012	617.30	619.32	607.30	592.30	NP	0.00	9.58	7.56	609.74	-2.24	17.44	Yes	
MW-36S	12/17/2012	617.30	619.32	607.30	592.30	NP	0.00	9.62	7.60	609.70	-0.04	17.40	Yes	
MW-36S	3/25/2013	617.30	619.32	607.30	592.30	NP	0.00	10.39	8.37	608.93	-0.77	16.63	Yes	
MW-36S	5/5/2013	617.30	619.32	607.30	592.30	NP	0.00	8.68	6.66	610.64	1.71	18.34	Yes	
MW-36S	10/3/2013	617.30	619.32	607.30	592.30	NP	0.00	9.41	7.39	609.91	-0.73	17.61	Yes	
MW-36S	5/20/2014	617.30	619.32	607.30	592.30	NP	0.00	7.08	5.06	612.24	2.33	19.94	Yes	
MW-36S	10/31/2014	617.30	619.32	607.30	592.30	NP	0.00	8.08	6.06	611.24	-1.00	18.94	Yes	
MW-36S	5/4/2015	617.30	619.32	607.30	592.30	NP	0.00	8.52	6.50	610.80	-0.44	18.50	Yes	
MW-36S	10/5/2015	617.30	619.32	607.30	592.30	NP	0.00	7.69	5.67	611.63	0.83	19.33	Yes	
MW-36S	5/23/2016	617.30	619.32	607.30	592.30	NP	0.00	7.31	5.29	612.01	0.38	19.71	Yes	
MW-36S	10/3/2016	617.30	619.32	607.30	592.30	NP	0.00	7.78	5.76	611.54	-0.47	19.24	Yes	
MW-36D	7/26/2011	617.00	619.07	567.00	562.00	NP	0.00	7.85	5.78	611.22	NA	49.22	Yes	
MW-36D	10/11/2011	617.00	619.07	567.00	562.00	NP	0.00	9.03	6.96	610.04	-1.18	48.04	Yes	
MW-36D	1/4/2012	617.00	619.07	567.00	562.00	NP	0.00	9.89	7.82	609.18	-0.86	47.18	Yes	
MW-36D	4/16/2012	617.00	619.07	567.00	562.00	NP	0.00	9.65	7.58	609.42	0.24	47.42	Yes	
MW-36D	6/28/2012	617.00	619.07	567.00	562.00	NP	0.00	7.58	5.51	611.49	2.07	49.49	Yes	
MW-36D	9/30/2012	617.00	619.07	567.00	562.00	NP	0.00	9.69	7.62	609.38	-2.11	47.38	Yes	
MW-36D	12/17/2012	617.00	619.07	567.00	562.00	NP	0.00	10.02	7.95	609.05	-0.33	47.05	Yes	
MW-36D	3/25/2013	617.00	619.07	567.00	562.00	NP	0.00	10.72	8.65	608.35	-0.70	46.35	Yes	
MW-36D	5/5/2013	617.00	619.07	567.00	562.00	NP	0.00	9.54	7.47	609.53	1.18	47.53	Yes	
MW-36D	10/1/2013	617.00	619.07	567.00	562.00	NP	0.00	9.52	7.45	609.55	0.02	47.55	Yes	
MW-36D	5/21/2014	617.00	619.07	567.00	562.00	NP	0.00	7.54	5.47	611.53	1.98	49.53	Yes	
MW-36D	10/30/2014	617.00	619.07	567.00	562.00	NP	0.00	8.02	5.95	611.05	-0.48	49.05	Yes	
MW-36D	5/5/2015	617.00	619.07	567.00	562.00	NP	0.00	8.99	6.92	610.08	-0.97	48.08	Yes	
MW-36D	10/7/2015	617.00	619.07	567.00	562.00	NP	0.00	7.96	5.89	611.11	1.03	49.11	Yes	
MW-36D	5/23/2016	617.00	619.07	567.00	562.00	NP	0.00	7.20	5.13	611.87	0.76	49.87	Yes	
MW-36D	10/3/2016	617.00	619.07	567.00	562.00	NP	0.00	7.69	5.62	611.38	-0.49	49.38	Yes	
MW-36D	6/14/2017	617.00	619.07	567.00	562.00	NP	0.00	7.07	5.00	612.00	0.62	50.00	Yes	
MW-36DD	10/10/2011	616.80	618.81	538.80	536.80	NP	0.00	8.52	6.51	610.29	NA	73.49	Yes	
MW-36DD	1/4/2012	616.80	618.81	538.80	536.80	NP	0.00	9.58	7.57	609.23	-1.06	72.43	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-36DD	4/16/2012	616.80	618.81	538.80	536.80	NP	0.00	9.41	7.40	609.40	0.17	72.60	Yes	
MW-36DD	6/28/2012	616.80	618.81	538.80	536.80	NP	0.00	7.24	5.23	611.57	2.17	74.77	Yes	
MW-36DD	9/30/2012	616.80	618.81	538.80	536.80	NP	0.00	9.34	7.33	609.47	-2.10	72.67	Yes	
MW-36DD	12/17/2012	616.80	618.81	538.80	536.80	NP	0.00	9.73	7.72	609.08	-0.39	72.28	Yes	
MW-36DD	3/25/2013	616.80	618.81	538.80	536.80	NP	0.00	10.40	8.39	608.41	-0.67	71.61	Yes	
MW-36DD	5/5/2013	616.80	618.81	538.80	536.80	NP	0.00	9.27	7.26	609.54	1.13	72.74	Yes	
MW-36DD	10/1/2013	616.80	618.81	538.80	536.80	NP	0.00	9.01	7.00	609.80	0.26	73.00	Yes	
MW-36DD	5/20/2014	616.80	618.81	538.80	536.80	NP	0.00	7.34	5.33	611.47	1.67	74.67	Yes	
MW-36DD	10/29/2014	616.80	618.81	538.80	536.80	NP	0.00	7.65	5.64	611.16	-0.31	74.36	Yes	
MW-36DD	5/4/2015	616.80	618.81	538.80	536.80	NP	0.00	8.72	6.71	610.09	-1.07	73.29	Yes	
MW-36DD	10/5/2015	616.80	618.81	538.80	536.80	NP	0.00	7.57	5.56	611.24	1.15	74.44	Yes	
MW-36DD	5/23/2016	616.80	618.81	538.80	536.80	NP	0.00	6.84	4.83	611.97	0.73	75.17	Yes	
MW-36DD	10/3/2016	616.80	618.81	538.80	536.80	NP	0.00	7.33	5.32	611.48	-0.49	74.68	Yes	
MW-37S	7/26/2011	614.40	616.42	604.40	589.40	NP	0.00	5.62	3.60	610.80	NA	21.40	Yes	
MW-37S	10/11/2011	614.40	616.42	604.40	589.40	NP	0.00	6.56	4.54	609.86	-0.94	20.46	Yes	
MW-37S	1/4/2012	614.40	616.42	604.40	589.40	NP	0.00	7.32	5.30	609.10	-0.76	19.70	Yes	
MW-37S	4/16/2012	614.40	616.42	604.40	589.40	NP	0.00	5.12	3.10	611.30	2.20	21.90	Yes	
MW-37S	6/28/2012	614.40	616.42	604.40	589.40	NP	0.00	5.19	3.17	611.23	-0.07	21.83	Yes	
MW-37S	9/30/2012	614.40	616.42	604.40	589.40	NP	0.00	7.57	5.55	608.85	-2.38	19.45	Yes	
MW-37S	12/17/2012	614.40	616.42	604.40	589.40	NP	0.00	7.19	5.17	609.23	0.38	19.83	Yes	
MW-37S	3/25/2013	614.40	616.42	604.40	589.40	NP	0.00	7.99	5.97	608.43	-0.80	19.03	Yes	
MW-37S	5/5/2013	614.40	616.42	604.40	589.40	NP	0.00	5.94	3.92	610.48	2.05	21.08	Yes	
MW-37S	10/3/2013	614.40	616.42	604.40	589.40	NP	0.00	7.20	5.18	609.22	-1.26	19.82	Yes	
MW-37S	5/20/2014	614.40	616.42	604.40	589.40	NP	0.00	4.56	2.54	611.86	2.64	22.46	Yes	
MW-37S	10/31/2014	614.40	616.42	604.40	589.40	NP	0.00	5.89	3.87	610.53	-1.33	21.13	Yes	
MW-37S	5/4/2015	614.40	616.42	604.40	589.40	NP	0.00	6.00	3.98	610.42	-0.11	21.02	Yes	
MW-37S	10/5/2015	614.40	616.42	604.40	589.40	NP	0.00	5.43	3.41	610.99	0.57	21.59	Yes	
MW-37S	5/23/2016	614.40	616.42	604.40	589.40	NP	0.00	5.44	3.42	610.98	-0.01	21.58	Yes	
MW-37S	10/3/2016	614.40	616.42	604.40	589.40	NP	0.00	5.65	3.63	610.77	-0.21	21.37	Yes	
MW-37S	6/29/2017	614.40	616.42	604.40	589.40	NP	0.00	4.69	2.67	611.73	0.96	22.33	Yes	
MW-37D	7/26/2011	614.80	617.05	564.80	559.80	NP	0.00	6.79	4.54	610.26	NA	50.46	Yes	
MW-37D	10/11/2011	614.80	617.05	564.80	559.80	NP	0.00	7.78	5.53	609.27	-0.99	49.47	Yes	
MW-37D	1/4/2012	614.80	617.05	564.80	559.80	NP	0.00	8.79	6.54	608.26	-1.01	48.46	Yes	
MW-37D	4/16/2012	614.80	617.05	564.80	559.80	NP	0.00	8.41	6.16	608.64	0.38	48.84	Yes	
MW-37D	6/28/2012	614.80	617.05	564.80	559.80	NP	0.00	6.47	4.22	610.58	1.94	50.78	Yes	
MW-37D	9/30/2012	614.80	617.05	564.80	559.80	NP	0.00	8.51	6.26	608.54	-2.04	48.74	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-37D	12/17/2012	614.80	617.05	564.80	559.80	NP	0.00	8.86	6.61	608.19	-0.35	48.39	Yes	
MW-37D	3/25/2013	614.80	617.05	564.80	559.80	NP	0.00	9.53	7.28	607.52	-0.67	47.72	Yes	
MW-37D	5/5/2013	614.80	617.05	564.80	559.80	NP	0.00	8.28	6.03	608.77	1.25	48.97	Yes	
MW-37D	10/1/2013	614.80	617.05	564.80	559.80	NP	0.00	8.28	6.03	608.77	0.00	48.97	Yes	
MW-37D	5/21/2014	614.80	617.05	564.80	559.80	NP	0.00	6.45	4.20	610.60	1.83	50.80	Yes	
MW-37D	10/30/2014	614.80	617.05	564.80	559.80	NP	0.00	6.88	4.63	610.17	-0.43	50.37	Yes	
MW-37D	5/5/2015	614.80	617.05	564.80	559.80	NP	0.00	7.75	5.50	609.30	-0.87	49.50	Yes	
MW-37D	10/7/2015	614.80	617.05	564.80	559.80	NP	0.00	6.82	4.57	610.23	0.93	50.43	Yes	
MW-37D	5/23/2016	614.80	617.05	564.80	559.80	NP	0.00	6.14	3.89	610.91	0.68	51.11	Yes	
MW-37D	10/3/2016	614.80	617.05	564.80	559.80	NP	0.00	6.59	4.34	610.46	-0.45	50.66	Yes	
MW-37D	6/14/2017	614.80	617.05	564.80	559.80	NP	0.00	6.05	3.80	611.00	0.54	51.20	Yes	
MW-37DD	10/11/2011	614.60	616.48	536.60	534.60	NP	0.00	7.06	5.18	609.42	NA	74.82	Yes	
MW-37DD	1/4/2012	614.60	616.48	536.60	534.60	NP	0.00	8.11	6.23	608.37	-1.05	73.77	Yes	
MW-37DD	4/16/2012	614.60	616.48	536.60	534.60	NP	0.00	7.82	5.94	608.66	0.29	74.06	Yes	
MW-37DD	6/28/2012	614.60	616.48	536.60	534.60	NP	0.00	5.78	3.90	610.70	2.04	76.10	Yes	
MW-37DD	9/30/2012	614.60	616.48	536.60	534.60	NP	0.00	7.86	5.98	608.62	-2.08	74.02	Yes	
MW-37DD	12/17/2012	614.60	616.48	536.60	534.60	NP	0.00	8.18	6.30	608.30	-0.32	73.70	Yes	
MW-37DD	3/25/2013	614.60	616.48	536.60	534.60	NP	0.00	8.84	6.96	607.64	-0.66	73.04	Yes	
MW-37DD	5/5/2013	614.60	616.48	536.60	534.60	NP	0.00	7.67	5.79	608.81	1.17	74.21	Yes	
MW-37DD	10/1/2013	614.60	616.48	536.60	534.60	NP	0.00	7.45	5.57	609.03	0.22	74.43	Yes	
MW-37DD	5/21/2014	614.60	616.48	536.60	534.60	NP	0.00	5.80	3.92	610.68	1.65	76.08	Yes	
MW-37DD	10/29/2014	614.60	616.48	536.60	534.60	NP	0.00	6.15	4.27	610.33	-0.35	75.73	Yes	
MW-37DD	5/5/2015	614.60	616.48	536.60	534.60	NP	0.00	7.12	5.24	609.36	-0.97	74.76	Yes	
MW-37DD	10/6/2015	614.60	616.48	536.60	534.60	NP	0.00	6.03	4.15	610.45	1.09	75.85	Yes	
MW-37DD	5/23/2016	614.60	616.48	536.60	534.60	NP	0.00	5.42	3.54	611.06	0.61	76.46	Yes	
MW-37DD	10/3/2016	614.60	616.48	536.60	534.60	NP	0.00	5.86	3.98	610.62	-0.44	76.02	Yes	
MW-37DD	6/29/2017	614.60	616.48	536.60	534.60	NP	0.00	5.46	3.58	611.02	0.40	76.42	Yes	
MW-38S	7/26/2011	610.90	612.96	600.90	585.90	NP	0.00	4.95	2.89	608.01	NA	22.11	Yes	
MW-38S	10/11/2011	610.90	612.96	600.90	585.90	NP	0.00	6.09	4.03	606.87	-1.14	20.97	Yes	
MW-38S	1/4/2012	610.90	612.96	600.90	585.90	NP	0.00	6.94	4.88	606.02	-0.85	20.12	Yes	
MW-38S	4/16/2012	610.90	612.96	600.90	585.90	NP	0.00	4.38	2.32	608.58	2.56	22.68	Yes	
MW-38S	6/28/2012	610.90	612.96	600.90	585.90	NP	0.00	4.39	2.33	608.57	-0.01	22.67	Yes	
MW-38S	9/30/2012	610.90	612.96	600.90	585.90	NP	0.00	7.03	4.97	605.93	-2.64	20.03	Yes	
MW-38S	12/17/2012	610.90	612.96	600.90	585.90	NP	0.00	6.42	4.36	606.54	0.61	20.64	Yes	
MW-38S	3/25/2013	610.90	612.96	600.90	585.90	NP	0.00	7.29	5.23	605.67	-0.87	19.77	Yes	
MW-38S	5/5/2013	610.90	612.96	600.90	585.90	NP	0.00	4.83	2.77	608.13	2.46	22.23	Yes	

Table 3
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MW-38S	10/3/2013	610.90	612.96	600.90	585.90	NP	0.00	6.43	4.37	606.53	-1.60	20.63	Yes	
MW-38S	5/20/2014	610.90	612.96	600.90	585.90	NP	0.00	3.79	1.73	609.17	2.64	23.27	Yes	
MW-38S	10/31/2014	610.90	612.96	600.90	585.90	NP	0.00	5.62	3.56	607.34	-1.83	21.44	Yes	
MW-38S	5/4/2015	610.90	612.96	600.90	585.90	NP	0.00	5.38	3.32	607.58	0.24	21.68	Yes	
MW-38S	10/5/2015	610.90	612.96	600.90	585.90	NP	0.00	5.13	3.07	607.83	0.25	21.93	Yes	
MW-38S	5/23/2016	610.90	612.96	600.90	585.90	NP	0.00	5.33	3.27	607.63	-0.20	21.73	Yes	
MW-38S	10/3/2016	610.90	612.96	600.90	585.90	NP	0.00	5.41	3.35	607.55	-0.08	21.65	Yes	
MW-38S	6/29/2017	610.90	612.96	600.90	585.90	NP	0.00	4.28	2.22	608.68	1.13	22.78	Yes	
MW-38D	7/26/2011	610.90	612.78	560.90	555.90	NP	0.00	3.63	1.75	609.15	NA	53.25	Yes	
MW-38D	10/11/2011	610.90	612.78	560.90	555.90	NP	0.00	4.54	2.66	608.24	-0.91	52.34	Yes	
MW-38D	1/4/2012	610.90	612.78	560.90	555.90	NP	0.00	5.64	3.76	607.14	-1.10	51.24	Yes	
MW-38D	4/16/2012	610.90	612.78	560.90	555.90	NP	0.00	5.07	3.19	607.71	0.57	51.81	Yes	
MW-38D	6/28/2012	610.90	612.78	560.90	555.90	NP	0.00	3.19	1.31	609.59	1.88	53.69	Yes	
MW-38D	9/30/2012	610.90	612.78	560.90	555.90	NP	0.00	5.36	3.48	607.42	-2.17	51.52	Yes	
MW-38D	12/17/2012	610.90	612.78	560.90	555.90	NP	0.00	5.65	3.77	607.13	-0.29	51.23	Yes	
MW-38D	3/25/2013	610.90	612.78	560.90	555.90	NP	0.00	6.24	4.36	606.54	-0.59	50.64	Yes	
MW-38D	5/5/2013	610.90	612.78	560.90	555.90	NP	0.00	4.88	3.00	607.90	1.36	52.00	Yes	
MW-38D	10/1/2013	610.90	612.78	560.90	555.90	NP	0.00	4.28	2.40	608.50	0.60	52.60	Yes	
MW-38D	5/20/2014	610.90	612.78	560.90	555.90	NP	0.00	3.05	1.17	609.73	1.23	53.83	Yes	
MW-38D	10/29/2014	610.90	612.78	560.90	555.90	NP	0.00	3.59	1.71	609.19	-0.54	53.29	Yes	
MW-38D	5/4/2015	610.90	612.78	560.90	555.90	NP	0.00	4.40	2.52	608.38	-0.81	52.48	Yes	
MW-38D	10/5/2015	610.90	612.78	560.90	555.90	NP	0.00	3.51	1.63	609.27	0.89	53.37	Yes	
MW-38D	5/23/2016	610.90	612.78	560.90	555.90	NP	0.00	3.02	1.14	609.76	0.49	53.86	Yes	
MW-38D	10/3/2016	610.90	612.78	560.90	555.90	NP	0.00	3.41	1.53	609.37	-0.39	53.47	Yes	
MW-38D	6/29/2017	610.90	612.78	560.90	555.90	NP	0.00	2.91	1.03	609.87	0.50	53.97	Yes	
MW-40S	7/26/2011	606.90	609.00	596.90	581.90	NP	0.00	2.48	0.38	606.52	NA	24.62	Yes	
MW-40S	10/11/2011	606.90	609.00	596.90	581.90	NP	0.00	6.38	4.28	602.62	-3.90	20.72	Yes	
MW-40S	1/4/2012	606.90	609.00	596.90	581.90	NP	0.00	7.07	4.97	601.93	-0.69	20.03	Yes	
MW-40S	4/16/2012	606.90	609.00	596.90	581.90	NP	0.00	4.64	2.54	604.36	2.43	22.46	Yes	
MW-40S	6/28/2012	606.90	609.00	596.90	581.90	NP	0.00	6.73	4.63	602.27	-2.09	20.37	Yes	
MW-40S	9/30/2012	606.90	609.00	596.90	581.90	NP	0.00	7.51	5.41	601.49	-0.78	19.59	Yes	
MW-40S	12/17/2012	606.90	609.00	596.90	581.90	NP	0.00	6.48	4.38	602.52	1.03	20.62	Yes	
MW-40S	3/25/2013	606.90	609.00	596.90	581.90	NP	0.00	7.15	5.05	601.85	-0.67	19.95	Yes	
MW-40S	5/5/2013	606.90	609.00	596.90	581.90	NP	0.00	5.02	2.92	603.98	2.13	22.08	Yes	
MW-40S	10/3/2013	606.90	609.00	596.90	581.90	NP	0.00	5.81	3.71	603.19	-0.79	21.29	Yes	
MW-40S	5/20/2014	606.90	609.00	596.90	581.90	NP	0.00	4.83	2.73	604.17	0.98	22.27	Yes	

Table 3
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MW-40S	10/31/2014	606.90	609.00	596.90	581.90	NP	0.00	5.38	3.28	603.62	-0.55	21.72	Yes	
MW-40S	5/4/2015	606.90	609.00	596.90	581.90	NP	0.00	5.80	3.70	603.20	-0.42	21.30	Yes	
MW-40S	10/5/2015	606.90	609.00	596.90	581.90	NP	0.00	5.11	3.01	603.89	0.69	21.99	Yes	
MW-40S	5/23/2016	606.90	609.00	596.90	581.90	NP	0.00	5.71	3.61	603.29	-0.60	21.39	Yes	
MW-40S	10/3/2016	606.90	609.00	596.90	581.90	NP	0.00	5.33	3.23	603.67	0.38	21.77	Yes	
MW-40S	6/29/2017	606.90	609.00	596.90	581.90	NP	0.00	5.03	2.93	603.97	0.30	22.07	Yes	
MW-40D	7/26/2011	607.00	608.80	557.00	552.00	NP	0.00	4.95	3.15	603.85	NA	51.85	Yes	
MW-40D	10/11/2011	607.00	608.80	557.00	552.00	NP	0.00	3.11	1.31	605.69	1.84	53.69	Yes	
MW-40D	1/4/2012	607.00	608.80	557.00	552.00	NP	0.00	3.82	2.02	604.98	-0.71	52.98	Yes	
MW-40D	4/16/2012	607.00	608.80	557.00	552.00	NP	0.00	3.40	1.60	605.40	0.42	53.40	Yes	
MW-40D	6/28/2012	607.00	608.80	557.00	552.00	NP	0.00	1.98	0.18	606.82	1.42	54.82	Yes	
MW-40D	9/30/2012	607.00	608.80	557.00	552.00	NP	0.00	3.51	1.71	605.29	-1.53	53.29	Yes	
MW-40D	12/17/2012	607.00	608.80	557.00	552.00	NP	0.00	3.92	2.12	604.88	-0.41	52.88	Yes	
MW-40D	3/26/2013	607.00	608.80	557.00	552.00	NP	0.00	4.46	2.66	604.34	-0.54	52.34	Yes	
MW-40D	5/6/2013	607.00	608.80	557.00	552.00	NP	0.00	3.27	1.47	605.53	1.19	53.53	Yes	
MW-40D	10/1/2013	607.00	608.80	557.00	552.00	NP	0.00	2.96	1.16	605.84	0.31	53.84	Yes	
MW-40D	5/20/2014	607.00	608.80	557.00	552.00	NP	0.00	1.56	-0.24	607.24	1.40	55.24	Yes	
MW-40D	10/29/2014	607.00	608.80	557.00	552.00	NP	0.00	1.89	0.09	606.91	-0.33	54.91	Yes	
MW-40D	5/4/2015	607.00	608.80	557.00	552.00	NP	0.00	2.56	0.76	606.24	-0.67	54.24	Yes	
MW-40D	10/5/2015	607.00	608.80	557.00	552.00	NP	0.00	1.85	0.05	606.95	0.71	54.95	Yes	
MW-40D	5/23/2016	607.00	608.80	557.00	552.00	NP	0.00	1.74	-0.06	607.06	0.11	55.06	Yes	
MW-40D	10/3/2016	607.00	608.80	557.00	552.00	NP	0.00	1.79	-0.01	607.01	-0.05	55.01	Yes	
MW-40D	6/29/2017	607.00	608.80	557.00	552.00	NP	0.00	1.36	-0.44	607.44	0.43	55.44	Yes	
MW-41S	7/26/2011	608.70	610.68	598.70	583.70	NP	0.00	6.12	4.14	604.56	NA	20.86	Yes	
MW-41S	10/11/2011	608.70	610.68	598.70	583.70	NP	0.00	6.89	4.91	603.79	-0.77	20.09	Yes	
MW-41S	1/4/2012	608.70	610.68	598.70	583.70	NP	0.00	7.41	5.43	603.27	-0.52	19.57	Yes	
MW-41S	4/16/2012	608.70	610.68	598.70	583.70	NP	0.00	5.71	3.73	604.97	1.70	21.27	Yes	
MW-41S	6/28/2012	608.70	610.68	598.70	583.70	NP	0.00	5.48	3.50	605.20	0.23	21.50	Yes	
MW-41S	9/30/2012	608.70	610.68	598.70	583.70	NP	0.00	7.54	5.56	603.14	-2.06	19.44	Yes	
MW-41S	12/17/2012	608.70	610.68	598.70	583.70	NP	0.00	7.45	5.47	603.23	0.09	19.53	Yes	
MW-41S	3/26/2013	608.70	610.68	598.70	583.70	NP	0.00	7.54	5.56	603.14	-0.09	19.44	Yes	
MW-41S	5/6/2013	608.70	610.68	598.70	583.70	NP	0.00	6.02	4.04	604.66	1.52	20.96	Yes	
MW-41S	10/3/2013	608.70	610.68	598.70	583.70	NP	0.00	6.81	4.83	603.87	-0.79	20.17	Yes	
MW-41S	5/20/2014	608.70	610.68	598.70	583.70	NP	0.00	4.94	2.96	605.74	1.87	22.04	Yes	
MW-41S	10/31/2014	608.70	610.68	598.70	583.70	NP	0.00	5.69	3.71	604.99	-0.75	21.29	Yes	
MW-41S	5/4/2015	608.70	610.68	598.70	583.70	NP	0.00	5.99	4.01	604.69	-0.30	20.99	Yes	

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MW-41S	10/5/2015	608.70	610.68	598.70	583.70	NP	0.00	5.51	3.53	605.17	0.48	21.47	Yes	
MW-41S	5/23/2016	608.70	610.68	598.70	583.70	NP	0.00	5.75	3.77	604.93	-0.24	21.23	Yes	
MW-41S	10/3/2016	608.70	610.68	598.70	583.70	NP	0.00	5.67	3.69	605.01	0.08	21.31	Yes	
MW-41S	6/29/2017	608.70	610.68	598.70	583.70	NP	0.00	5.26	3.28	605.42	0.41	21.72	Yes	
MW-41D	7/26/2011	609.00	610.86	559.00	554.00	NP	0.00	9.56	7.70	601.30	NA	47.30	Yes	
MW-41D	10/11/2011	609.00	610.86	559.00	554.00	NP	0.00	3.82	1.96	607.04	5.74	53.04	Yes	
MW-41D	1/4/2012	609.00	610.86	559.00	554.00	NP	0.00	4.75	2.89	606.11	-0.93	52.11	Yes	
MW-41D	4/16/2012	609.00	610.86	559.00	554.00	NP	0.00	4.40	2.54	606.46	0.35	52.46	Yes	
MW-41D	6/28/2012	609.00	610.86	559.00	554.00	NP	0.00	2.77	0.91	608.09	1.63	54.09	Yes	
MW-41D	9/30/2012	609.00	610.86	559.00	554.00	NP	0.00	4.51	2.65	606.35	-1.74	52.35	Yes	
MW-41D	12/17/2012	609.00	610.86	559.00	554.00	NP	0.00	4.82	2.96	606.04	-0.31	52.04	Yes	
MW-41D	3/26/2013	609.00	610.86	559.00	554.00	NP	0.00	5.33	3.47	605.53	-0.51	51.53	Yes	
MW-41D	5/6/2013	609.00	610.86	559.00	554.00	NP	0.00	4.28	2.42	606.58	1.05	52.58	Yes	
MW-41D	10/1/2013	609.00	610.86	559.00	554.00	NP	0.00	3.88	2.02	606.98	0.40	52.98	Yes	
MW-41D	5/21/2014	609.00	610.86	559.00	554.00	NP	0.00	2.57	0.71	608.29	1.31	54.29	Yes	
MW-41D	10/29/2014	609.00	610.86	559.00	554.00	NP	0.00	4.81	2.95	606.05	-2.24	52.05	Yes	
MW-41D	5/4/2015	609.00	610.86	559.00	554.00	NP	0.00	3.60	1.74	607.26	1.21	53.26	Yes	
MW-41D	10/6/2015	609.00	610.86	559.00	554.00	NP	0.00	2.76	0.90	608.10	0.84	54.10	Yes	
MW-41D	5/23/2016	609.00	610.86	559.00	554.00	NP	0.00	2.41	0.55	608.45	0.35	54.45	Yes	
MW-41D	10/3/2016	609.00	610.86	559.00	554.00	NP	0.00	2.55	0.69	608.31	-0.14	54.31	Yes	
MW-41D	6/29/2017	609.00	610.86	559.00	554.00	NP	0.00	2.20	0.34	608.66	0.35	54.66	Yes	
MW-45S	6/28/2012					NP	0.00	9.15	9.15					
MW-45S	9/30/2012					NP	0.00	11.38	11.38					
MW-45S	12/17/2012					NP	0.00	11.67	11.67					
MW-45S	3/25/2013					NP	0.00	12.45	12.45					
MW-45S	5/6/2013					NP	0.00	10.87	10.87					
MW-45S	10/3/2013					NP	0.00	11.35	11.35					
MW-45S	5/20/2014					NP	0.00	9.08	9.08					
MW-45S	10/31/2014					NP	0.00	9.85	9.85					
MW-45S	5/4/2015					NP	0.00	10.56	10.56					
MW-45S	10/5/2015					NP	0.00	9.54	9.54					
MW-45S	5/23/2016					NP	0.00	8.89	8.89					
MW-45S	10/3/2016					NP	0.00	9.50	9.50					
MW-45S	6/29/2017					NP	0.00	8.94	8.94					
MW-45D	6/28/2012					NP	0.00	9.97	9.97					
MW-45D	9/30/2012					NP	0.00	12.13	12.13					
MW-45D	12/17/2012					NP	0.00	12.56	12.56					
MW-45D	3/25/2013					NP	0.00	13.24	13.24					
MW-45D	5/6/2013					NP	0.00	12.14	12.14					
MW-45D	10/1/2013					NP	0.00	11.98	11.98					

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MW-45D	5/21/2014					NP	0.00	10.12	10.12					
MW-45D	10/30/2014					NP	0.00	10.49	10.49					
MW-45D	5/5/2015					NP	0.00	11.57	11.57					
MW-45D	10/6/2015					NP	0.00	10.41	10.41					
MW-45D	5/23/2016					NP	0.00	9.56	9.56					
MW-45D	10/3/2016					NP	0.00	10.12	10.12					
MW-45D	6/29/2017					NP	0.00	9.70	9.70					
MW-46S	6/28/2012					NP	0.00	15.46	15.46					
MW-46S	9/30/2012					NP	0.00	17.45	17.45					
MW-46S	12/17/2012					NP	0.00	17.59	17.59					
MW-46S	3/25/2013					NP	0.00	18.19	18.19					
MW-46S	5/6/2013					NP	0.00	16.59	16.59					
MW-46S	10/3/2013					NP	0.00	17.29	17.29					
MW-46S	5/20/2014					NP	0.00	15.28	15.28					
MW-46S	10/31/2014					NP	0.00	16.09	16.09					
MW-46S	5/4/2015					NP	0.00	16.31	16.31					
MW-46S	10/5/2015					NP	0.00	16.27	16.27					
MW-46S	5/23/2016					NP	0.00	15.75	15.75					
MW-46S	10/3/2016					NP	0.00	15.76	15.76					
MW-46S	6/29/2017					NP	0.00	15.23	15.23					
MW-46D	6/28/2012					NP	0.00	16.16	16.16					
MW-46D	9/30/2012					NP	0.00	17.97	17.97					
MW-46D	12/17/2012					NP	0.00	18.37	18.37					
MW-46D	3/25/2013					NP	0.00	18.94	18.94					
MW-46D	5/6/2013					NP	0.00	17.88	17.88					
MW-46D	10/1/2013					NP	0.00	17.60	17.60					
MW-46D	5/20/2014					NP	0.00	16.09	16.09					
MW-46D	10/29/2014					NP	0.00	16.36	16.36					
MW-46D	5/4/2015					NP	0.00	17.30	17.30					
MW-46D	10/5/2015					NP	0.00	16.32	16.32					
MW-46D	5/23/2016					NP	0.00	15.26	15.26					
MW-46D	10/3/2016					NP	0.00	16.09	16.09					
MW-46D	6/29/2017					NP	0.00	15.72	15.72					
MW-48S	10/3/2016	623.30	625.79	608.30	593.30	NP	0.00	14.76	12.27	611.03	NA	17.73	Yes	
MW-48S	6/13/2017	623.30	625.79	608.30	593.30	NP	0.00	12.98	10.49	612.81	1.78	19.51	Yes	
MW-48D	10/3/2016	623.24	625.75	569.24	564.24	NP	0.00	14.02	11.51	611.73	NA	47.49	Yes	
MW-48D	6/14/2017	623.24	625.75	569.24	564.24	NP	0.00	13.10	10.59	612.65	0.92	48.41	Yes	
MW-49S	10/3/2016	620.49	622.66	610.99	600.99	NP	0.00	13.49	11.32	609.17	NA	8.18	No	
MW-49S	6/13/2017	620.49	622.66	610.99	600.99	NP	0.00	11.60	9.43	611.06	1.89	10.07	Yes	
MW-49D	10/3/2016	620.61	622.98	567.61	562.61	NP	0.00	13.46	11.09	609.52	NA	46.91	Yes	
MW-49D	6/13/2017	620.61	622.98	567.61	562.61	NP	0.00	12.66	10.29	610.32	0.80	47.71	Yes	

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LRMW-1	2/8/2001	627.37	629.07	616.58	606.58	15.44	5.77	21.21	14.98	612.39	NA	7.05	No	
LRMW-1	2/23/2001	627.37	629.07	616.58	606.58	15.87	5.32	21.19	15.31	612.06	-0.33	6.62	No	
LRMW-1	4/24/2001	627.37	629.07	616.58	606.58	11.30	9.52	20.82	11.65	615.72	3.67	11.19	No	
LRMW-1	5/23/2001	627.37	629.07	616.58	606.58	10.61	10.46	21.07	11.16	616.21	0.49	11.88	No	
LRMW-1	10/24/2001	627.37	629.07	616.58	606.58	14.60	6.52	21.12	14.30	613.07	-3.14	7.89	No	
LRMW-1	12/20/2001	627.40	629.07	616.58	606.58	14.09	7.07	21.16	13.94	613.46	0.39	8.40	No	
LRMW-1	1/22/2002	627.40	629.07	616.58	606.58	15.28	5.97	21.25	14.89	612.51	-0.95	7.21	No	
LRMW-1	4/24/2002	627.40	629.07	616.58	606.58	13.19	8.08	21.27	13.26	614.14	1.64	9.30	No	
LRMW-1	5/15/2002	627.40	629.07	616.58	606.58	11.97	9.15	21.12	12.27	615.13	0.99	10.52	No	
LRMW-1	6/27/2002	627.40	629.07	616.58	606.58	12.29	8.84	21.13	12.52	614.88	-0.25	10.20	No	
LRMW-1	7/25/2002	627.40	629.07	616.58	606.58	12.91	8.18	21.09	13.00	614.40	-0.48	9.58	No	
LRMW-1	8/20/2002	627.40	629.07	616.58	606.58	12.11	8.92	21.03	12.36	615.04	0.64	10.38	No	
LRMW-1	9/9/2002	627.40	629.07	616.58	606.58	12.31	8.73	21.04	12.52	614.88	-0.16	10.18	No	
LRMW-1	9/30/2002	627.40	629.07	616.58	606.58	12.18	8.84	21.02	12.41	614.99	0.11	10.31	No	
LRMW-1	11/5/2002	627.40	629.07	616.58	606.58	11.76	9.27	21.03	12.08	615.32	0.33	10.73	No	
LRMW-1	12/23/2002	627.40	629.07	616.58	606.58	14.12	7.16	21.28	13.99	613.41	-1.91	8.37	No	
LRMW-1	1/28/2003	627.40	629.07	616.58	606.58	15.35	5.99	21.34	14.97	612.43	-0.98	7.14	No	
LRMW-1	2/19/2003	627.40	629.07	616.58	606.58	15.95	5.11	21.06	15.38	612.02	-0.41	6.54	No	
LRMW-1	4/17/2003	627.40	629.07	616.58	606.58	16.08	4.82	20.90	15.45	611.95	-0.07	6.41	No	
LRMW-1	5/15/2003	627.40	629.07	616.58	606.58	14.68	6.15	20.83	14.33	613.07	1.11	7.81	No	
LRMW-1	6/10/2003	627.40	629.07	616.58	606.58	14.28	6.44	20.72	13.99	613.41	0.34	8.21	No	
LRMW-1	7/30/2003	627.40	629.07	616.58	606.58	14.22	6.40	20.62	13.93	613.47	0.07	8.27	No	
LRMW-1	9/10/2003	627.40	629.07	616.58	606.58	15.75	5.08	20.83	15.17	612.23	-1.25	6.74	No	
LRMW-1	10/23/2003	627.40	629.07	616.58	606.58	15.88	4.98	20.86	15.28	612.12	-0.11	6.61	No	
LRMW-1	12/3/2003	626.53	629.03	616.54	606.54	16.08	4.59	20.67	14.57	611.96	-0.16	6.41	No	
LRMW-1	1/8/2004	626.53	629.03	616.54	606.54	16.78	4.08	20.86	15.16	611.37	-0.59	5.71	No	
LRMW-1	4/19/2004	626.53	629.03	616.54	606.54	15.06	5.94	21.00	13.84	612.69	1.32	7.43	No	
LRMW-1	7/27/2004	626.53	629.03	616.54	606.54	14.16	6.35	20.51	13.02	613.51	0.81	8.33	No	
LRMW-1	11/15/2004	626.53	629.03	616.54	606.54	12.69	7.66	20.35	11.84	614.69	1.19	9.80	No	
LRMW-1	4/18/2005	626.53	629.03	616.54	606.54	12.78	7.68	20.46	11.93	614.60	-0.09	9.71	No	
LRMW-1	9/9/2005	626.53	629.03	616.54	606.54	14.89	5.48	20.37	13.57	612.96	-1.64	7.60	No	
LRMW-1	10/11/2005	626.53	629.03	616.54	606.54	14.38	5.56	19.94	13.07	613.46	0.49	8.11	No	
LRMW-1	5/23/2006	626.53	629.03	616.54	606.54	11.24	9.01	20.25	10.68	615.85	2.40	11.25	No	
LRMW-1	10/16/2006	626.53	629.03	616.54	606.54	14.90	5.35	20.25	13.55	612.98	-2.87	7.59	No	
LRMW-1	4/23/2007	626.53	629.03	616.54	606.54	14.27	6.36	20.63	13.14	613.39	0.41	8.22	No	
LRMW-1	9/25/2007	626.53	629.03	616.54	606.54	14.68	5.60	20.28	13.38	613.15	-0.25	7.81	No	
LRMW-1	5/1/2008	626.53	629.03	616.54	606.54	11.06	8.73	19.79	10.44	616.09	2.95	11.43	No	
LRMW-1	10/20/2008	626.53	629.03	616.54	606.54	11.84	7.99	19.83	11.06	615.47	-0.62	10.65	No	
LRMW-1	4/18/2009	626.53	629.03	616.54	606.54	13.82	5.94	19.76	12.60	613.93	-1.54	8.67	No	
LRMW-1	4/28/2010	626.53	629.03	616.54	606.54	13.86	6.28	20.14	12.71	613.82	-0.11	8.63	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-1	10/25/2010	626.53	629.03	616.54	606.54	11.78	8.13	19.91	11.03	615.50	1.68	10.71	No	
LRMW-1	4/25/2011	626.53	629.03	616.54	606.54	12.44	7.08	19.52	11.46	615.07	-0.43	10.05	No	
LRMW-1	9/14/2011	626.53	629.03	616.54	606.54	12.87	7.05	19.92	11.88	614.65	-0.42	9.62	No	
LRMW-1	9/23/2011	626.53	629.03	616.54	606.54	13.22	6.71	19.93	12.16	614.37	-0.28	9.27	No	
LRMW-1	9/29/2011	626.53	629.03	616.54	606.54	13.34	6.59	19.93	12.26	614.27	-0.09	9.15	No	
LRMW-1	10/7/2011	626.53	629.03	616.54	606.54	13.96	5.97	19.93	12.74	613.79	-0.49	8.53	No	
LRMW-1	10/11/2011	626.53	629.03	616.54	606.54	14.15	5.73	19.88	12.88	613.65	-0.14	8.34	No	
LRMW-1	10/21/2011	626.53	629.03	616.54	606.54	13.97	5.97	19.94	12.75	613.78	0.13	8.52	No	
LRMW-1	10/27/2011	626.53	629.03	616.54	606.54	14.10	5.87	19.97	12.86	613.67	-0.11	8.39	No	
LRMW-1	11/3/2011	626.53	629.03	616.54	606.54	14.42	5.56	19.98	13.11	613.42	-0.25	8.07	No	
LRMW-1	11/9/2011	626.53	629.03	616.54	606.54	14.37	5.60	19.97	13.07	613.46	0.04	8.12	No	
LRMW-1	11/17/2011	626.53	629.03	616.54	606.54	14.73	5.29	20.02	13.37	613.16	-0.29	7.76	No	
LRMW-1	11/22/2011	626.53	629.03	616.54	606.54	14.78	5.24	20.02	13.41	613.12	-0.04	7.71	No	
LRMW-1	12/1/2011	626.53	629.03	616.54	606.54	15.03	5.04	20.07	13.61	612.92	-0.21	7.46	No	
LRMW-1	1/4/2012	626.53	629.03	616.54	606.54	15.60	4.51	20.11	14.07	612.46	-0.46	6.89	No	
LRMW-1	2/16/2012	626.53	629.03	616.54	606.54	16.50	3.61	20.11	14.78	611.75	-0.71	5.99	No	
LRMW-1	3/13/2012	626.53	629.03	616.54	606.54	18.37	1.70	20.07	16.24	610.29	-1.46	4.12	No	
LRMW-1	4/12/2012	626.53	629.03	616.54	606.54	15.41	4.63	20.04	13.90	612.63	2.33	7.08	No	Spill Buddy Before Reading
LRMW-1	4/16/2012	626.53	629.03	616.54	606.54	15.54	2.73	18.27	13.63	612.90	0.28	6.95	No	
LRMW-1	5/18/2012	626.53	629.03	616.54	606.54	14.52	3.01	17.53	12.67	613.86	0.96	7.97	No	
LRMW-1	6/28/2012	626.53	629.03	616.54	606.54	11.00	4.08	15.08	9.38	617.15	3.29	11.49	Yes	
LRMW-1	7/10/2012	626.53	629.03	616.54	606.54	12.57	3.11	15.68	10.74	615.79	-1.36	9.92	No	Spill Buddy Before Reading
LRMW-1	7/24/2012	626.53	629.03	616.54	606.54	14.26	1.02	15.28	11.98	614.55	-1.24	8.23	No	
LRMW-1	8/17/2012	626.53	629.03	616.54	606.54	14.87	1.06	15.93	12.60	613.93	-0.62	7.62	No	
LRMW-1	8/28/2012	626.53	629.03	616.54	606.54	15.22	1.12	16.34	12.96	613.57	-0.36	7.27	No	Spill Buddy Before Reading
LRMW-1	9/17/2012	626.53	629.03	616.54	606.54	16.03	0.45	16.48	13.63	612.90	-0.67	6.46	No	
LRMW-1	9/28/2012	626.53	629.03	616.54	606.54	16.32	0.45	16.77	13.92	612.61	-0.29	6.17	No	Spill Buddy Before Reading
LRMW-1	9/30/2012	626.53	629.03	616.54	606.54	16.40	0.20	16.60	13.94	612.59	-0.03	6.09	No	
LRMW-1	11/21/2012	626.53	629.03	616.54	606.54	16.66	0.26	16.92	14.22	612.31	-0.27	5.83	No	
LRMW-1	12/17/2012	626.53	629.03	616.54	606.54	16.84	0.26	17.10	14.40	612.13	-0.18	5.65	No	
LRMW-1	3/25/2013	626.53	629.03	616.54	606.54	17.91	0.31	18.22	15.48	611.05	-1.08	4.58	No	
LRMW-1	5/6/2013	626.53	629.03	616.54	606.54	15.32	0.18	15.50	12.86	613.67	2.62	7.17	No	
LRMW-1	10/3/2013	626.53	629.03	616.54	606.54	16.31	0.25	16.56	13.86	612.67	-1.01	6.18	No	
LRMW-1	5/22/2014	626.53	629.03	616.54	606.54	12.01	0.23	12.24	9.56	616.97	4.30	10.48	Yes	
LRMW-1	10/31/2014	626.53	629.03	616.54	606.54	14.53	0.16	14.69	12.06	614.47	-2.50	7.96	No	
LRMW-1	4/15/2015	626.53	629.03	616.54	606.54	16.27	0.18	16.45	13.81	612.72	-1.74	6.22	No	
LRMW-1	4/22/2015	626.53	629.03	616.54	606.54	15.63	0.09	15.72	13.15	613.38	0.66	6.86	No	
LRMW-1	4/29/2015	626.53	629.03	616.54	606.54	15.42	0.09	15.51	12.94	613.59	0.21	7.07	No	
LRMW-1	5/6/2015	626.53	629.03	616.54	606.54	15.43	0.09	15.52	12.95	613.58	-0.01	7.06	No	
LRMW-1	5/12/2015	626.53	629.03	616.54	606.54	14.80	0.07	14.87	12.32	614.21	0.63	7.69	No	
LRMW-1	6/9/2015	626.53	629.03	616.54	606.54	NP	0.00	13.73	11.23	615.30	1.09	8.76	No	

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Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-1	10/5/2015	626.53	629.03	616.54	606.54	NP	0.00	13.80	11.30	615.23	-0.07	8.69	No	
LRMW-1	5/23/2016	626.53	629.03	616.54	606.54	NP	0.00	12.19	9.69	616.84	1.61	10.30	Yes	
LRMW-1	10/3/2016	626.53	629.03	616.54	606.54	NP	0.00	13.88	11.38	615.15	-1.69	8.61	No	
LRMW-1	5/2/2017	626.53	629.03	616.54	606.54	NP	0.00	12.03	9.53	617.00	1.85	10.46	Yes	
LRMW-1	5/22/2017	626.53	629.03	616.54	606.54	NP	0.00	10.89	8.39	618.14	1.14	11.60	Yes	
LRMW-1	5/31/2017	626.53	629.03	616.54	606.54	NP	0.00	11.00	8.50	618.03	-0.11	11.49	Yes	
LRMW-2	2/8/2001	626.30	629.37	616.70	606.70	15.87	5.25	21.12	13.93	612.37	NA	6.80	No	
LRMW-2	2/23/2001	626.30	629.37	616.70	606.70	16.31	4.87	21.18	14.29	612.01	-0.36	6.36	No	
LRMW-2	4/24/2001	626.30	629.37	616.70	606.70	11.91	8.79	20.70	10.73	615.57	3.56	10.76	No	
LRMW-2	5/23/2001	626.30	629.37	616.70	606.70	11.04	10.08	21.12	10.14	616.16	0.59	11.63	No	
LRMW-2	10/24/2001	626.30	629.37	616.70	606.70	15.02	6.05	21.07	13.25	613.05	-3.11	7.65	No	
LRMW-2	12/20/2001	626.30	629.37	616.70	606.70	14.49	6.82	21.31	12.89	613.41	0.36	8.18	No	
LRMW-2	1/22/2002	626.30	629.37	616.70	606.70	15.53	5.79	21.32	13.70	612.60	-0.82	7.14	No	
LRMW-2	4/24/2002	626.30	629.37	616.70	606.70	13.67	7.64	21.31	12.24	614.06	1.46	9.00	No	
LRMW-2	5/15/2002	626.30	629.37	616.70	606.70	12.45	8.72	21.17	11.25	615.05	0.99	10.22	No	
LRMW-2	6/27/2002	626.30	629.37	616.70	606.70	12.77	8.33	21.10	11.49	614.81	-0.24	9.90	No	
LRMW-2	7/25/2002	626.30	629.37	616.70	606.70	13.33	7.82	21.15	11.94	614.36	-0.45	9.34	No	
LRMW-2	8/20/2002	626.30	629.37	616.70	606.70	12.58	8.48	21.06	11.33	614.97	0.61	10.09	No	
LRMW-2	9/9/2002	626.30	629.37	616.70	606.70	12.77	8.31	21.08	11.49	614.81	-0.15	9.90	No	
LRMW-2	9/30/2002	626.30	629.37	616.70	606.70	12.58	8.45	21.03	11.33	614.97	0.16	10.09	No	
LRMW-2	11/5/2002	626.30	629.37	616.70	606.70	12.20	8.80	21.00	11.02	615.28	0.30	10.47	No	
LRMW-2	12/23/2002	626.30	629.37	616.70	606.70	14.54	6.70	21.24	12.91	613.39	-1.89	8.13	No	
LRMW-2	1/28/2003	626.30	629.37	616.70	606.70	15.75	5.53	21.28	13.87	612.43	-0.96	6.92	No	
LRMW-2	2/19/2003	626.30	629.37	616.70	606.70	16.43	4.33	20.76	14.29	612.01	-0.42	6.24	No	
LRMW-2	4/17/2003	626.30	629.37	616.70	606.70	16.61	3.89	20.50	14.38	611.92	-0.09	6.06	No	
LRMW-2	5/15/2003	626.30	629.37	616.70	606.70	15.35	5.03	20.38	13.36	612.94	1.02	7.32	No	
LRMW-2	6/10/2003	626.30	629.37	616.70	606.70	14.83	5.45	20.28	12.93	613.37	0.43	7.84	No	
LRMW-2	7/30/2003	626.30	629.37	616.70	606.70	14.72	5.56	20.28	12.84	613.46	0.09	7.95	No	
LRMW-2	9/10/2003	626.30	629.37	616.70	606.70	16.23	4.24	20.47	14.07	612.23	-1.23	6.44	No	
LRMW-2	10/23/2003	626.30	629.37	616.70	606.70	16.38	4.07	20.45	14.18	612.12	-0.11	6.29	No	
LRMW-2	12/3/2003	626.93	629.41	616.74	606.74	16.57	3.66	20.23	14.88	612.05	-0.06	6.10	No	
LRMW-2	1/8/2004	626.93	629.41	616.74	606.74	17.23	3.31	20.54	15.46	611.47	-0.58	5.44	No	
LRMW-2	4/19/2004	626.93	629.41	616.74	606.74	15.55	5.19	20.74	14.19	612.74	1.28	7.12	No	
LRMW-2	7/27/2004	626.93	629.41	616.74	606.74	14.67	5.37	20.04	13.34	613.59	0.84	8.00	No	
LRMW-2	11/15/2004	626.93	629.41	616.74	606.74	13.28	6.36	19.64	12.17	614.76	1.18	9.39	No	
LRMW-2	4/18/2005	626.93	629.41	616.74	606.74	13.31	6.67	19.98	12.26	614.67	-0.10	9.36	No	
LRMW-2	9/9/2005	626.93	629.41	616.74	606.74	15.30	4.71	20.01	13.83	613.10	-1.57	7.37	No	
LRMW-2	10/11/2005	626.93	629.41	616.74	606.74	13.28	5.81	19.09	12.05	614.88	1.78	9.39	No	
LRMW-2	5/23/2006	626.93	629.41	616.74	606.74	11.88	7.62	19.50	11.04	615.89	1.01	10.79	No	
LRMW-2	10/16/2006	626.93	629.41	616.74	606.74	15.38	4.46	19.84	13.86	613.07	-2.82	7.29	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-2	4/23/2007	626.93	629.41	616.74	606.74	15.04	4.64	19.68	13.56	613.37	0.30	7.63	No	
LRMW-2	9/25/2007	626.93	629.28	616.61	606.61	15.39	3.86	19.25	13.87	613.06	-0.31	7.28	No	
LRMW-2	5/1/2008	626.93	629.28	616.61	606.61	11.80	7.35	19.15	11.03	615.90	2.84	10.87	No	
LRMW-2	10/20/2008	626.93	629.28	616.61	606.61	12.13	6.59	18.72	11.20	615.73	-0.17	10.54	No	
LRMW-2	4/18/2009	626.93	629.28	616.61	606.61	13.22	5.59	18.81	12.07	614.86	-0.88	9.45	No	
LRMW-2	10/11/2009	626.93	629.28	616.61	606.61	14.70	4.95	19.65	13.41	613.52	-1.34	7.97	No	
LRMW-2	4/28/2010	626.93	629.28	616.61	606.61	14.44	4.96	19.40	13.16	613.77	0.26	8.23	No	
LRMW-2	10/25/2010	626.93	629.28	616.61	606.61	12.12	7.34	19.46	11.35	615.58	1.81	10.55	No	
LRMW-2	4/25/2011	626.93	629.28	616.61	606.61	12.73	6.01	18.74	11.67	615.26	-0.32	9.94	No	
LRMW-2	9/14/2011	626.93	629.28	616.61	606.61	13.01	7.07	20.08	12.18	614.75	-0.51	9.66	No	
LRMW-2	9/23/2011	626.93	629.28	616.61	606.61	13.47	6.26	19.73	12.47	614.46	-0.29	9.20	No	
LRMW-2	9/29/2011	626.93	629.28	616.61	606.61	13.60	6.04	19.64	12.55	614.38	-0.08	9.07	No	
LRMW-2	10/7/2011	626.93	629.28	616.61	606.61	13.87	5.71	19.58	12.75	614.18	-0.20	8.80	No	
LRMW-2	10/11/2011	626.93	629.28	616.61	606.61	14.39	5.60	19.99	13.24	613.69	-0.50	8.28	No	
LRMW-2	10/21/2011	626.93	629.28	616.61	606.61	14.25	5.36	19.61	13.05	613.88	0.19	8.42	No	
LRMW-2	10/27/2011	626.93	629.28	616.61	606.61	14.40	5.74	20.14	13.28	613.65	-0.23	8.27	No	
LRMW-2	11/3/2011	626.93	629.28	616.61	606.61	14.68	5.09	19.77	13.42	613.51	-0.14	7.99	No	
LRMW-2	11/9/2011	626.93	629.28	616.61	606.61	14.67	4.90	19.57	13.37	613.56	0.05	8.00	No	
LRMW-2	11/17/2011	626.93	629.28	616.61	606.61	15.02	4.71	19.73	13.68	613.25	-0.31	7.65	No	
LRMW-2	11/22/2011	626.93	629.28	616.61	606.61	15.07	4.56	19.63	13.70	613.23	-0.02	7.60	No	
LRMW-2	12/1/2011	626.93	629.28	616.61	606.61	15.30	4.52	19.82	13.92	613.01	-0.22	7.37	No	
LRMW-2	1/4/2012	626.93	629.28	616.61	606.61	15.90	3.86	19.76	14.38	612.55	-0.46	6.77	No	
LRMW-2	2/16/2012	626.93	629.28	616.61	606.61	16.80	2.94	19.74	15.08	611.85	-0.70	5.87	No	
LRMW-2	3/13/2012	626.93	629.28	616.61	606.61	16.78	2.67	19.45	15.00	611.93	0.08	5.89	No	
LRMW-2	4/11/2012	626.93	629.28	616.61	606.61	15.85	3.55	19.40	14.26	612.67	0.74	6.82	No	Spill Buddy Before Reading
LRMW-2	4/16/2012	626.93	629.28	616.61	606.61	16.02	1.29	17.31	13.95	612.98	0.32	6.65	No	
LRMW-2	5/18/2012	626.93	629.28	616.61	606.61	14.77	2.46	17.23	12.95	613.98	1.00	7.90	No	
LRMW-2	6/28/2012	626.93	629.28	616.61	606.61	11.15	4.19	15.34	9.70	617.23	3.25	11.52	Yes	
LRMW-2	7/10/2012	626.93	629.28	616.61	606.61	12.71	3.53	16.24	11.12	615.81	-1.42	9.96	No	Spill Buddy Before Reading
LRMW-2	7/24/2012	626.93	629.28	616.61	606.61	14.45	0.90	15.35	12.29	614.64	-1.17	8.22	No	
LRMW-2	8/17/2012	626.93	629.28	616.61	606.61	14.92	1.48	16.40	12.89	614.04	-0.59	7.75	No	
LRMW-2	8/28/2012	626.93	629.28	616.61	606.61	15.21	1.74	16.95	13.23	613.70	-0.35	7.46	No	Spill Buddy Before Reading
LRMW-2	9/17/2012	626.93	629.28	616.61	606.61	15.99	1.03	17.02	13.86	613.07	-0.63	6.68	No	
LRMW-2	9/28/2012	626.93	629.28	616.61	606.61	16.27	1.28	17.55	14.20	612.73	-0.33	6.40	No	Spill Buddy Before Reading
LRMW-2	9/30/2012	626.93	629.28	616.61	606.61	16.43	0.43	16.86	14.17	612.76	0.02	6.24	No	
LRMW-2	11/21/2012	626.93	629.28	616.61	606.61	16.60	1.10	17.70	14.49	612.44	-0.31	6.07	No	
LRMW-2	12/17/2012	626.93	629.28	616.61	606.61	16.72	1.37	18.09	14.66	612.27	-0.18	5.95	No	
LRMW-2	3/25/2013	626.93	629.28	616.61	606.61	17.75	1.69	19.44	15.76	611.17	-1.10	4.92	No	
LRMW-2	5/6/2013	626.93	629.28	616.61	606.61	15.10	1.99	17.09	13.18	613.75	2.59	7.57	No	
LRMW-2	10/3/2013	626.93	629.28	616.61	606.61	15.96	2.55	18.51	14.16	612.77	-0.98	6.71	No	
LRMW-2	5/22/2014	626.93	629.28	616.61	606.61	11.28	4.33	15.61	9.86	617.07	4.30	11.39	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-2	10/31/2014	626.93	629.28	616.61	606.61	13.87	3.78	17.65	12.33	614.60	-2.47	8.80	No	
LRMW-2	5/6/2015	626.93	629.28	616.61	606.61	14.82	3.73	18.55	13.27	613.66	-0.94	7.85	No	
LRMW-2	10/5/2015	626.93	629.28	616.61	606.61	12.90	5.00	17.90	11.62	615.31	1.65	9.77	No	
LRMW-2	5/23/2016	626.93	629.28	616.61	606.61	11.35	4.58	15.93	9.98	616.95	1.64	11.32	Yes	
LRMW-2	10/3/2016	626.93	629.28	616.61	606.61	12.90	5.12	18.02	11.65	615.28	-1.67	9.77	No	
LRMW-2	5/2/2017	626.93	629.28	616.61	606.61	10.88	7.03	17.91	10.04	616.89	1.61	11.79	Yes	
LRMW-2	5/22/2017	626.93	629.28	616.61	606.61	10.64	2.22	12.86	8.77	618.16	1.27	12.03	Yes	
LRMW-2	5/25/2017	626.93	629.28	616.61	606.61	10.64	2.25	12.89	8.77	618.16	-0.01	12.03	Yes	
LRMW-2	5/31/2017	626.93	629.28	616.61	606.61	11.20	0.35	11.55	8.93	618.00	-0.15	11.47	Yes	
LRMW-2	6/21/2017	626.93	629.28	616.61	606.61	12.90	0.28	13.18	10.61	616.32	-1.68	9.77	No	
LRMW-3	2/8/2001	627.38	630.47	617.99	607.99	NP	0.00	17.35	14.26	613.12	NA	5.13	No	
LRMW-3	2/23/2001	627.38	630.47	617.99	607.99	17.35	0.06	17.41	14.27	613.11	-0.01	5.13	No	
LRMW-3	4/24/2001	627.38	630.47	617.99	607.99	14.45	0.01	14.46	11.36	616.02	2.91	8.03	No	
LRMW-3	5/23/2001	627.38	630.47	617.99	607.99	NP	0.00	13.67	10.58	616.80	0.78	8.81	No	
LRMW-3	10/24/2001	627.38	630.47	617.99	607.99	16.67	1.09	17.76	13.81	613.57	-3.23	5.81	No	
LRMW-3	12/20/2001	627.40	630.47	617.99	607.99	16.37	0.17	16.54	13.34	614.06	0.50	6.11	No	
LRMW-3	1/22/2002	627.40	630.47	617.99	607.99	17.14	0.17	17.31	14.11	613.29	-0.77	5.34	No	
LRMW-3	4/24/2002	627.40	630.47	617.99	607.99	15.43	1.81	17.24	12.75	614.65	1.36	7.05	No	
LRMW-3	5/15/2002	627.40	630.47	617.99	607.99	14.30	2.22	16.52	11.71	615.69	1.04	8.18	No	
LRMW-3	6/27/2002	627.40	630.47	617.99	607.99	14.39	2.75	17.14	11.91	615.49	-0.20	8.09	No	
LRMW-3	7/25/2002	627.40	630.47	617.99	607.99	14.75	2.91	17.66	12.31	615.09	-0.39	7.73	No	
LRMW-3	8/20/2002	627.40	630.47	617.99	607.99	14.15	3.01	17.16	11.73	615.67	0.58	8.33	No	
LRMW-3	9/30/2002	627.40	630.47	617.99	607.99	14.10	3.05	17.15	11.69	615.71	0.04	8.38	No	
LRMW-3	11/5/2002	627.40	630.47	617.99	607.99	13.73	3.08	16.81	11.32	616.08	0.36	8.75	No	
LRMW-3	12/23/2002	627.40	630.47	617.99	607.99	15.45	3.15	18.60	13.06	614.34	-1.74	7.03	No	
LRMW-3	1/28/2003	627.40	630.47	617.99	607.99	16.37	4.13	20.50	14.19	613.21	-1.13	6.11	No	
LRMW-3	2/19/2003	627.40	630.47	617.99	607.99	16.77	3.72	20.49	14.50	612.90	-0.31	5.71	No	
LRMW-3	4/17/2003	627.40	630.47	617.99	607.99	17.00	3.65	20.65	14.71	612.69	-0.21	5.48	No	
LRMW-3	5/15/2003	627.40	630.47	617.99	607.99	15.77	4.74	20.51	13.72	613.68	1.00	6.71	No	
LRMW-3	6/10/2003	627.40	630.47	617.99	607.99	15.19	5.45	20.64	13.29	614.11	0.43	7.29	No	
LRMW-3	7/30/2003	627.40	630.47	617.99	607.99	14.93	5.75	20.68	13.10	614.30	0.20	7.55	No	
LRMW-3	10/23/2003	627.40	630.47	617.99	607.99	16.69	3.86	20.55	14.45	612.95	-1.35	5.79	No	
LRMW-3	12/3/2003	628.06	630.45	617.97	607.97	16.90	3.63	20.53	15.29	612.77	-0.18	5.58	No	
LRMW-3	1/8/2004	628.06	630.45	617.97	607.97	17.53	3.23	20.76	15.83	612.23	-0.54	4.95	No	
LRMW-3	4/19/2004	628.06	630.45	617.97	607.97	16.28	4.35	20.63	14.82	613.24	1.01	6.20	No	
LRMW-3	7/27/2004	628.06	630.45	617.97	607.97	14.87	5.80	20.67	13.73	614.33	1.10	7.61	No	
LRMW-3	11/15/2004	628.06	630.45	617.97	607.97	13.49	7.65	21.14	12.74	615.32	0.98	8.99	No	
LRMW-3	4/18/2005	628.06	630.45	617.97	607.97	13.79	6.18	19.97	12.73	615.33	0.02	8.69	No	
LRMW-3	9/9/2005	628.06	630.45	617.97	607.97	15.40	4.89	20.29	14.06	614.00	-1.33	7.08	No	
LRMW-3	10/11/2005	628.06	630.45	617.97	607.97	12.87	7.23	20.10	12.03	616.03	2.03	9.61	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-3	5/23/2006	628.06	630.45	617.97	607.97	11.90	8.06	19.96	11.24	616.82	0.79	10.58	No	
LRMW-3	10/16/2006	628.06	630.45	617.97	607.97	15.52	4.72	20.24	14.14	613.92	-2.90	6.96	No	
LRMW-3	4/23/2007	628.06	630.45	617.97	607.97	15.40	4.79	20.19	14.04	614.02	0.10	7.08	No	
LRMW-3	9/25/2007	628.06	630.45	617.97	607.97	16.40	1.93	18.33	14.42	613.64	-0.39	6.08	No	
LRMW-3	5/1/2008	628.06	630.45	617.97	607.97	12.20	6.28	18.48	11.16	616.90	3.27	10.28	No	
LRMW-3	10/20/2008	628.06	630.45	617.97	607.97	12.48	6.89	19.37	11.57	616.49	-0.41	10.00	No	
LRMW-3	4/18/2009	628.06	630.45	617.97	607.97	13.66	5.63	19.29	12.48	615.58	-0.91	8.82	No	
LRMW-3	10/11/2009	628.06	630.45	617.97	607.97	14.93	5.40	20.33	13.70	614.36	-1.22	7.55	No	
LRMW-3	4/28/2010	628.06	630.45	617.97	607.97	14.54	5.61	20.15	13.36	614.70	0.34	7.94	No	
LRMW-3	10/25/2010	628.06	630.45	617.97	607.97	12.29	7.46	19.75	11.50	616.56	1.85	10.19	No	
LRMW-3	4/25/2011	628.06	630.45	617.97	607.97	12.84	7.01	19.85	11.96	616.10	-0.45	9.64	No	
LRMW-3	9/14/2011	628.06	630.45	617.97	607.97	13.09	7.20	20.29	12.25	615.81	-0.29	9.39	No	
LRMW-3	9/23/2011	628.06	630.45	617.97	607.97	13.51	6.60	20.11	12.54	615.52	-0.29	8.97	No	
LRMW-3	9/29/2011	628.06	630.45	617.97	607.97	13.63	6.42	20.05	12.62	615.44	-0.08	8.85	No	
LRMW-3	10/7/2011	628.06	630.45	617.97	607.97	13.97	5.98	19.95	12.86	615.20	-0.25	8.51	No	
LRMW-3	10/11/2011	628.06	630.45	617.97	607.97	14.26	6.28	20.54	13.22	614.84	-0.35	8.22	No	
LRMW-3	10/21/2011	628.06	630.45	617.97	607.97	14.38	5.75	20.13	13.23	614.83	-0.01	8.10	No	
LRMW-3	10/27/2011	628.06	630.45	617.97	607.97	14.49	5.65	20.14	13.31	614.75	-0.09	7.99	No	
LRMW-3	11/3/2011	628.06	630.45	617.97	607.97	14.79	5.45	20.24	13.57	614.49	-0.26	7.69	No	
LRMW-3	11/9/2011	628.06	630.45	617.97	607.97	14.81	5.21	20.02	13.54	614.52	0.03	7.67	No	
LRMW-3	11/17/2011	628.06	630.45	617.97	607.97	15.15	5.07	20.22	13.85	614.21	-0.31	7.33	No	
LRMW-3	11/22/2011	628.06	630.45	617.97	607.97	15.22	4.90	20.12	13.88	614.18	-0.03	7.26	No	
LRMW-3	12/1/2011	628.06	630.45	617.97	607.97	15.43	5.14	20.57	14.14	613.92	-0.26	7.05	No	
LRMW-3	1/4/2012	628.06	630.45	617.97	607.97	16.02	4.46	20.48	14.59	613.47	-0.44	6.46	No	
LRMW-3	2/16/2012	628.06	630.45	617.97	607.97	16.94	3.57	20.51	15.32	612.74	-0.73	5.54	No	
LRMW-3	3/13/2012	628.06	630.45	617.97	607.97	16.99	3.39	20.38	15.33	612.73	-0.01	5.49	No	
LRMW-3	4/11/2012	628.06	630.45	617.97	607.97	16.21	3.89	20.10	14.66	613.40	0.67	6.27	No	Spill Buddy Before Reading
LRMW-3	4/16/2012	628.06	630.45	617.97	607.97	16.09	3.64	19.73	14.48	613.58	0.17	6.39	No	
LRMW-3	5/18/2012	628.06	630.45	617.97	607.97	14.45	5.49	19.94	13.24	614.82	1.24	8.03	No	
LRMW-3	6/28/2012	628.06	630.45	617.97	607.97	10.26	9.55	19.81	9.92	618.14	3.32	12.22	Yes	
LRMW-3	7/10/2012	628.06	630.45	617.97	607.97	11.97	7.86	19.83	11.27	616.79	-1.35	10.51	No	Spill Buddy Before Reading
LRMW-3	7/24/2012	628.06	630.45	617.97	607.97	13.62	5.36	18.98	12.38	615.68	-1.11	8.86	No	
LRMW-3	8/17/2012	628.06	630.45	617.97	607.97	14.18	5.71	19.89	13.02	615.04	-0.64	8.30	No	
LRMW-3	8/28/2012	628.06	630.45	617.97	607.97	14.64	5.15	19.79	13.36	614.70	-0.34	7.84	No	Spill Buddy Before Reading
LRMW-3	9/17/2012	628.06	630.45	617.97	607.97	15.43	4.50	19.93	14.01	614.05	-0.65	7.05	No	
LRMW-3	9/28/2012	628.06	630.45	617.97	607.97	15.84	4.08	19.92	14.33	613.73	-0.32	6.64	No	Spill Buddy Before Reading
LRMW-3	9/30/2012	628.06	630.45	617.97	607.97	16.44	1.54	17.98	14.38	613.68	-0.05	6.04	No	
LRMW-3	11/21/2012	628.06	630.45	617.97	607.97	16.35	3.59	19.94	14.73	613.33	-0.35	6.13	No	
LRMW-3	12/17/2012	628.06	630.45	617.97	607.97	16.61	3.40	20.01	14.95	613.11	-0.22	5.87	No	
LRMW-3	3/25/2013	628.06	630.45	617.97	607.97	17.91	2.51	20.42	16.06	612.00	-1.11	4.57	No	
LRMW-3	5/6/2013	628.06	630.45	617.97	607.97	15.10	4.64	19.74	13.71	614.35	2.35	7.38	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-3	10/3/2013	628.06	630.45	617.97	607.97	15.95	4.16	20.11	14.45	613.61	-0.75	6.53	No	
LRMW-3	5/22/2014	628.06	630.45	617.97	607.97	10.56	9.22	19.78	10.15	617.91	4.30	11.92	No	
LRMW-3	10/31/2014	628.06	630.45	617.97	607.97	13.43	6.66	20.09	12.47	615.59	-2.32	9.05	No	
LRMW-3	4/15/2015	628.06	630.45	617.97	607.97	16.00	4.25	20.25	14.52	613.54	-2.05	6.48	No	
LRMW-3	4/22/2015	628.06	630.45	617.97	607.97	15.29	4.81	20.10	13.93	614.13	0.59	7.19	No	
LRMW-3	4/29/2015	628.06	630.45	617.97	607.97	15.02	4.85	19.87	13.67	614.39	0.26	7.46	No	
LRMW-3	5/6/2015	628.06	630.45	617.97	607.97	15.13	4.26	19.39	13.66	614.40	0.02	7.35	No	
LRMW-3	5/12/2015	628.06	630.45	617.97	607.97	14.33	5.54	19.87	13.13	614.93	0.52	8.15	No	
LRMW-3	6/9/2015	628.06	630.45	617.97	607.97	12.78	7.00	19.78	11.89	616.17	1.24	9.70	No	
LRMW-3	10/5/2015	628.06	630.45	617.97	607.97	12.66	7.10	19.76	11.80	616.26	0.10	9.82	No	
LRMW-3	5/23/2016	628.06	630.45	617.97	607.97	10.30	9.44	19.74	9.94	618.12	1.86	12.18	Yes	
LRMW-3	10/3/2016	628.06	630.45	617.97	607.97	12.57	7.18	19.75	11.72	616.34	-1.78	9.91	No	
LRMW-3	5/22/2017	628.06	630.45	617.97	607.97	8.78	10.85	19.63	8.72	619.34	3.00	13.70	Yes	
LRMW-3	5/31/2017	628.06	630.45	617.97	607.97	9.85	6.58	16.43	8.87	619.19	-0.15	12.63	Yes	
LRMW-3	6/29/2017	628.06	630.45	617.97	607.97	11.92	5.97	17.89	10.81	617.25	-1.94	10.56	No	
LRMW-4	2/8/2001	625.47	628.75	616.08	606.08	15.17	5.20	20.37	13.05	612.42	NA	7.50	No	
LRMW-4	2/23/2001	625.47	628.75	616.08	606.08	15.60	4.85	20.45	13.40	612.07	-0.35	7.07	No	
LRMW-4	4/24/2001	625.47	628.75	616.08	606.08	11.23	11.27	22.50	10.47	615.00	2.94	11.44	No	
LRMW-4	5/23/2001	625.47	628.75	616.08	606.08	10.34	10.16	20.50	9.33	616.14	1.14	12.33	Yes	
LRMW-4	10/24/2001	625.47	628.75	616.08	606.08	14.35	6.12	20.47	12.44	613.03	-3.11	8.32	No	
LRMW-4	12/20/2001	625.50	628.75	616.08	606.08	13.81	6.85	20.66	12.09	613.41	0.38	8.86	No	
LRMW-4	1/22/2002	625.50	628.75	616.08	606.08	14.81	5.94	20.75	12.89	612.61	-0.80	7.86	No	
LRMW-4	4/24/2002	625.50	628.75	616.08	606.08	12.98	7.65	20.63	11.44	614.06	1.45	9.69	No	
LRMW-4	5/15/2002	625.50	628.75	616.08	606.08	11.75	8.78	20.53	10.46	615.04	0.98	10.92	No	
LRMW-4	6/27/2002	625.50	628.75	616.08	606.08	12.07	8.38	20.45	10.69	614.81	-0.23	10.60	No	
LRMW-4	7/25/2002	625.50	628.75	616.08	606.08	12.63	7.92	20.55	11.15	614.35	-0.46	10.04	No	
LRMW-4	8/20/2002	625.50	628.75	616.08	606.08	11.88	8.54	20.42	10.54	614.96	0.61	10.79	No	
LRMW-4	9/9/2002	625.50	628.75	616.08	606.08	12.04	8.43	20.47	10.67	614.83	-0.14	10.63	No	
LRMW-4	9/30/2002	625.50	628.75	616.08	606.08	11.91	8.54	20.45	10.57	614.93	0.11	10.76	No	
LRMW-4	11/5/2002	625.50	628.75	616.08	606.08	11.48	8.99	20.47	10.24	615.26	0.33	11.19	No	
LRMW-4	12/23/2002	625.50	628.75	616.08	606.08	13.86	6.70	20.56	12.11	613.39	-1.87	8.81	No	
LRMW-4	1/28/2003	625.50	628.75	616.08	606.08	15.06	5.45	20.51	13.03	612.47	-0.92	7.61	No	
LRMW-4	2/19/2003	625.50	628.75	616.08	606.08	15.67	4.60	20.27	13.45	612.05	-0.42	7.00	No	
LRMW-4	4/17/2003	625.50	628.75	616.08	606.08	15.89	4.06	19.95	13.55	611.95	-0.10	6.78	No	
LRMW-4	5/15/2003	625.50	628.75	616.08	606.08	14.52	5.32	19.84	12.46	613.04	1.09	8.15	No	
LRMW-4	6/10/2003	625.50	628.75	616.08	606.08	14.08	5.79	19.87	12.12	613.38	0.33	8.59	No	
LRMW-4	7/30/2003	625.50	628.75	616.08	606.08	13.97	5.91	19.88	12.04	613.46	0.08	8.70	No	
LRMW-4	9/10/2003	625.50	628.75	616.08	606.08	15.46	4.61	20.07	13.24	612.26	-1.20	7.21	No	
LRMW-4	10/23/2003	625.50	628.75	616.08	606.08	15.61	4.44	20.05	13.35	612.15	-0.11	7.06	No	
LRMW-4	12/3/2003	625.49	628.70	616.03	606.03	15.84	3.98	19.82	13.52	611.97	-0.18	6.83	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-4	1/8/2004	625.49	628.70	616.03	606.03	16.53	3.42	19.95	14.08	611.41	-0.56	6.14	No	
LRMW-4	4/19/2004	625.49	628.70	616.03	606.03	14.86	5.22	20.08	12.82	612.67	1.27	7.81	No	
LRMW-4	7/27/2004	625.49	628.70	616.03	606.03	13.91	5.78	19.69	11.99	613.50	0.82	8.76	No	
LRMW-4	11/15/2004	625.49	628.70	616.03	606.03	12.46	7.21	19.67	10.86	614.63	1.13	10.21	No	
LRMW-4	4/18/2005	625.49	628.70	616.03	606.03	12.55	7.04	19.59	10.91	614.58	-0.05	10.12	No	
LRMW-4	9/9/2005	625.49	628.70	616.03	606.03	14.57	4.91	19.48	12.46	613.03	-1.54	8.10	No	
LRMW-4	10/11/2005	625.49	628.70	616.03	606.03	11.80	7.70	19.50	10.31	615.18	2.15	10.87	No	
LRMW-4	5/23/2006	625.49	628.70	616.03	606.03	11.22	7.95	19.17	9.79	615.70	0.52	11.45	No	
LRMW-4	10/16/2006	625.49	628.70	616.03	606.03	14.62	4.81	19.43	12.49	613.00	-2.70	8.05	No	
LRMW-4	4/23/2007	625.49	628.70	616.03	606.03	14.09	5.58	19.67	12.13	613.36	0.36	8.58	No	
LRMW-4	9/25/2007	625.49	628.53	615.86	605.86	14.38	4.97	19.35	12.45	613.04	-0.32	8.29	No	
LRMW-4	5/1/2008	625.49	628.53	615.86	605.86	10.74	7.97	18.71	9.48	616.01	2.97	11.93	Yes	
LRMW-4	10/20/2008	625.49	628.53	615.86	605.86	11.03	7.78	18.81	9.73	615.76	-0.25	11.64	No	
LRMW-4	8/31/2011	625.49	628.53	615.86	605.86	11.26	7.55	18.81	9.91	615.58	-0.18	11.41	No	
LRMW-4	9/14/2011	625.49	628.53	615.86	605.86	12.50	6.34	18.84	10.88	614.61	-0.97	10.17	No	
LRMW-4	9/23/2011	625.49	628.53	615.86	605.86	12.84	5.99	18.83	11.14	614.35	-0.26	9.83	No	
LRMW-4	9/29/2011	625.49	628.53	615.86	605.86	12.95	5.97	18.92	11.24	614.25	-0.11	9.72	No	
LRMW-4	10/7/2011	625.49	628.53	615.86	605.86	13.22	5.63	18.85	11.44	614.05	-0.19	9.45	No	
LRMW-4	10/11/2011	625.49	628.53	615.86	605.86	13.77	4.98	18.75	11.84	613.65	-0.40	8.90	No	
LRMW-4	10/21/2011	625.49	628.53	615.86	605.86	13.62	5.22	18.84	11.75	613.74	0.10	9.05	No	
LRMW-4	10/27/2011	625.49	628.53	615.86	605.86	13.76	5.09	18.85	11.86	613.63	-0.11	8.91	No	
LRMW-4	11/3/2011	625.49	628.53	615.86	605.86	14.08	4.77	18.85	12.11	613.38	-0.25	8.59	No	
LRMW-4	11/9/2011	625.49	628.53	615.86	605.86	14.02	4.82	18.84	12.06	613.43	0.05	8.65	No	
LRMW-4	11/17/2011	625.49	628.53	615.86	605.86	14.40	4.45	18.85	12.35	613.14	-0.30	8.27	No	
LRMW-4	11/22/2011	625.49	628.53	615.86	605.86	14.43	4.47	18.90	12.39	613.10	-0.03	8.24	No	
LRMW-4	12/1/2011	625.49	628.53	615.86	605.86	14.72	4.25	18.97	12.63	612.86	-0.24	7.95	No	
LRMW-4	1/4/2012	625.49	628.53	615.86	605.86	15.25	3.77	19.02	13.05	612.44	-0.42	7.42	No	
LRMW-4	2/16/2012	625.49	628.53	615.86	605.86	16.13	2.91	19.04	13.74	611.75	-0.69	6.54	No	
LRMW-4	3/13/2012	625.49	628.53	615.86	605.86	16.05	2.84	18.89	13.64	611.85	0.10	6.62	No	
LRMW-4	4/12/2012	625.49	628.53	615.86	605.86	15.10	3.94	19.04	12.94	612.55	0.70	7.57	No	Spill Buddy Before Reading
LRMW-4	4/16/2012	625.49	628.53	615.86	605.86	14.76	4.18	18.94	12.65	612.84	0.29	7.91	No	
LRMW-4	5/18/2012	625.49	628.53	615.86	605.86	13.40	5.68	19.08	11.63	613.86	1.02	9.27	No	
LRMW-4	6/28/2012	625.49	628.53	615.86	605.86	9.34	9.50	18.84	8.42	617.07	3.21	13.33	Yes	
LRMW-4	7/10/2012	625.49	628.53	615.86	605.86	11.05	7.90	18.95	9.78	615.71	-1.35	11.62	No	Spill Buddy Before Reading
LRMW-4	7/24/2012	625.49	628.53	615.86	605.86	12.52	6.43	18.95	10.92	614.57	-1.14	10.15	No	
LRMW-4	8/17/2012	625.49	628.53	615.86	605.86	13.34	5.56	18.90	11.54	613.95	-0.63	9.33	No	
LRMW-4	8/28/2012	625.49	628.53	615.86	605.86	13.80	5.04	18.84	11.89	613.60	-0.34	8.87	No	Spill Buddy Before Reading
LRMW-4	9/17/2012	625.49	628.53	615.86	605.86	14.01	4.89	18.90	12.06	613.43	-0.18	8.66	No	
LRMW-4	9/28/2012	625.49	628.53	615.86	605.86	15.02	3.86	18.88	12.84	612.65	-0.78	7.65	No	Spill Buddy Before Reading
LRMW-4	9/30/2012	625.49	628.53	615.86	605.86	15.07	3.60	18.67	12.83	612.66	0.01	7.60	No	
LRMW-4	11/21/2012	625.49	628.53	615.86	605.86	15.42	3.40	18.82	13.14	612.35	-0.31	7.25	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-4	12/17/2012	625.49	628.53	615.86	605.86	15.66	3.17	18.83	13.33	612.16	-0.19	7.01	No	
LRMW-4	3/25/2013	625.49	628.53	615.86	605.86	17.03	1.77	18.80	14.39	611.10	-1.06	5.64	No	
LRMW-4	5/6/2013	625.49	628.53	615.86	605.86	13.82	4.91	18.73	11.88	613.61	2.51	8.85	No	
LRMW-4	10/3/2013	625.49	628.53	615.86	605.86	15.04	3.71	18.75	12.83	612.66	-0.95	7.63	No	
LRMW-4	5/22/2014	625.49	628.53	615.86	605.86	9.61	5.84	15.45	7.88	617.61	4.95	13.06	Yes	
LRMW-4	10/31/2014	625.49	628.53	615.86	605.86	12.75	5.74	18.49	10.99	614.50	-3.12	9.92	No	
LRMW-4	4/15/2015	625.49	628.53	615.86	605.86	14.95	3.55	18.50	12.70	612.79	-1.71	7.72	No	
LRMW-4	4/22/2015	625.49	628.53	615.86	605.86	14.24	4.17	18.41	12.13	613.36	0.57	8.43	No	
LRMW-4	4/29/2015	625.49	628.53	615.86	605.86	14.28	2.97	17.25	11.90	613.59	0.23	8.39	No	
LRMW-4	5/6/2015	625.49	628.53	615.86	605.86	14.33	2.82	17.15	11.92	613.57	-0.02	8.34	No	
LRMW-4	5/12/2015	625.49	628.53	615.86	605.86	13.23	5.06	18.29	11.32	614.17	0.60	9.44	No	
LRMW-4	6/9/2015	625.49	628.53	615.86	605.86	11.81	6.57	18.38	10.24	615.25	1.08	10.86	No	
LRMW-4	10/5/2015	625.49	628.53	615.86	605.86	12.00	5.85	17.85	10.27	615.22	-0.03	10.67	No	
LRMW-4	5/23/2016	625.49	628.53	615.86	605.86	9.70	8.90	18.60	8.65	616.84	1.62	12.97	Yes	
LRMW-4	10/3/2016	625.49	628.53	615.86	605.86	11.87	6.81	18.68	10.35	615.14	-1.70	10.80	No	
LRMW-4	5/2/2017	625.49	628.53	615.86	605.86	9.73	8.93	18.66	8.69	616.80	1.67	12.94	Yes	
LRMW-4	5/18/2017	625.49	628.53	615.86	605.86	10.02	7.48	17.50	8.65	616.84	0.03	12.65	Yes	
LRMW-4	5/22/2017	625.49	628.53	615.86	605.86	9.38	4.80	14.18	7.41	618.08	1.24	13.29	Yes	
LRMW-4	5/25/2017	625.49	628.53	615.86	605.86	9.99	3.16	13.15	7.66	617.83	-0.24	12.68	Yes	
LRMW-4	5/31/2017	625.49	628.53	615.86	605.86	9.54	4.29	13.83	7.46	618.03	0.20	13.13	Yes	
LRMW-4	6/29/2017	625.49	628.53	615.86	605.86	10.56	7.97	18.53	9.30	616.19	-1.84	12.11	Yes	
LRMW-5	2/8/2001	626.05	629.37	615.90	605.90	17.03	0.07	17.10	13.73	612.32	NA	6.44	No	
LRMW-5	2/23/2001	626.05	629.37	615.90	605.90	17.35	0.16	17.51	14.06	611.99	-0.34	6.12	No	
LRMW-5	4/24/2001	626.05	629.37	615.90	605.90	15.12	0.10	15.22	11.82	614.23	2.24	8.35	No	
LRMW-5	5/23/2001	626.05	629.37	615.90	605.90	14.51	0.31	14.82	11.26	614.79	0.56	8.96	No	
LRMW-5	10/24/2001	626.05	629.37	615.90	605.90	15.83	2.20	18.03	12.98	613.07	-1.73	7.64	No	
LRMW-5	12/20/2001	626.10	629.37	615.90	605.90	15.09	1.93	17.02	12.23	613.87	0.80	8.38	No	
LRMW-5	1/22/2002	626.10	629.37	615.90	605.90	15.89	2.14	18.03	13.08	613.02	-0.85	7.58	No	
LRMW-5	4/24/2002	626.10	629.37	615.90	605.90	14.29	0.94	15.23	11.22	614.88	1.86	9.18	No	
LRMW-5	5/15/2002	626.10	629.37	615.90	605.90	13.74	0.32	14.06	10.54	615.56	0.68	9.73	No	
LRMW-5	6/27/2002	626.10	629.37	615.90	605.90	13.93	0.45	14.38	10.76	615.34	-0.22	9.54	No	
LRMW-5	7/25/2002	626.10	629.37	615.90	605.90	14.43	1.14	15.57	11.40	614.70	-0.65	9.04	No	
LRMW-5	8/20/2002	626.10	629.37	615.90	605.90	NP	0.00	14.55	11.28	614.82	0.12	8.92	No	
LRMW-5	9/30/2002	626.10	629.37	615.90	605.90	14.06	0.67	14.73	10.93	615.17	0.35	9.41	No	
LRMW-5	11/5/2002	626.10	629.37	615.90	605.90	13.66	0.42	14.08	10.48	615.62	0.45	9.81	No	
LRMW-5	12/23/2002	626.10	629.37	615.90	605.90	14.97	2.25	17.22	12.18	613.92	-1.70	8.50	No	
LRMW-5	1/28/2003	626.10	629.37	615.90	605.90	15.84	2.44	18.28	13.09	613.01	-0.91	7.63	No	
LRMW-5	2/19/2003	626.10	629.37	615.90	605.90	16.56	2.38	18.94	13.80	612.30	-0.71	6.91	No	
LRMW-5	4/17/2003	626.10	629.37	615.90	605.90	16.78	1.93	18.71	13.92	612.18	-0.12	6.69	No	
LRMW-5	5/15/2003	626.10	629.37	615.90	605.90	15.38	2.16	17.54	12.57	613.53	1.35	8.09	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-5	6/10/2003	626.10	629.37	615.90	605.90	14.99	2.50	17.49	12.26	613.84	0.32	8.48	No	
LRMW-5	7/30/2003	626.10	629.37	615.90	605.90	15.01	2.59	17.60	12.30	613.80	-0.04	8.46	No	
LRMW-5	9/10/2003	626.10	629.37	615.90	605.90	16.39	2.92	19.31	13.75	612.35	-1.45	7.08	No	
LRMW-5	10/23/2003	626.10	629.37	615.90	605.90	16.66	2.73	19.39	13.98	612.12	-0.23	6.81	No	
LRMW-5	12/3/2003	626.69	629.37	615.90	605.90	16.72	2.72	19.44	14.62	612.07	-0.06	6.75	No	
LRMW-5	1/8/2004	626.69	629.37	615.90	605.90	17.30	2.66	19.96	15.19	611.50	-0.57	6.17	No	
LRMW-5	2/24/2004	626.69	629.37	615.90	605.90	17.89	2.59	20.48	15.77	610.92	-0.57	5.58	No	
LRMW-5	4/19/2004	626.69	629.37	615.90	605.90	15.30	3.51	18.81	13.37	613.32	2.39	8.17	No	
LRMW-5	7/27/2004	626.69	629.37	615.90	605.90	14.65	3.65	18.30	12.75	613.94	0.62	8.82	No	
LRMW-5	11/16/2004	626.69	629.37	615.90	605.90	13.96	2.40	16.36	11.80	614.89	0.96	9.51	No	
LRMW-5	4/18/2005	626.69	629.37	615.90	605.90	13.48	2.11	15.59	11.25	615.44	0.54	9.99	No	
LRMW-5	9/9/2005	626.69	629.37	615.90	605.90	15.06	5.50	20.56	13.56	613.13	-2.31	8.41	No	
LRMW-5	10/11/2005	626.69	629.37	615.90	605.90	13.54	1.97	15.51	11.28	615.41	2.28	9.93	No	
LRMW-5	5/23/2006	626.69	629.37	615.90	605.90	11.11	7.65	18.76	10.07	616.62	1.21	12.36	Yes	
LRMW-5	10/16/2006	626.69	629.37	615.90	605.90	15.33	4.93	20.26	13.71	612.98	-3.64	8.14	No	
LRMW-5	4/23/2007	626.69	629.37	615.90	605.90	13.92	4.67	18.59	12.24	614.45	1.47	9.55	No	
LRMW-5	9/25/2007	626.69	629.20	615.73	605.73	14.44	4.58	19.02	12.91	613.78	-0.67	9.03	No	
LRMW-5	5/1/2008	626.69	629.20	615.73	605.73	10.91	6.38	17.29	9.77	616.92	3.14	12.56	Yes	
LRMW-5	10/20/2008	626.69	629.20	615.73	605.73	10.97	7.60	18.57	10.09	616.60	-0.32	12.50	Yes	
LRMW-5	4/18/2009	626.69	629.20	615.73	605.73	11.31	7.30	18.61	10.37	616.32	-0.28	12.16	Yes	
LRMW-5	10/11/2009	626.69	629.20	615.73	605.73	14.74	2.85	17.59	12.84	613.85	-2.47	8.73	No	
LRMW-5	4/28/2010	626.69	629.20	615.73	605.73	13.31	3.79	17.10	11.61	615.08	1.23	10.16	No	
LRMW-5	10/25/2010	626.69	629.20	615.73	605.73	12.13	4.42	16.55	10.57	616.12	1.04	11.34	Yes	
LRMW-5	4/25/2011	626.69	629.20	615.73	605.73	11.97	3.83	15.80	10.28	616.41	0.29	11.50	Yes	
LRMW-5	9/14/2011	626.69	629.20	615.73	605.73	13.09	3.85	16.94	11.41	615.28	-1.12	10.38	No	
LRMW-5	9/23/2011	626.69	629.20	615.73	605.73	13.28	4.86	18.14	11.81	614.88	-0.41	10.19	No	
LRMW-5	9/29/2011	626.69	629.20	615.73	605.73	13.34	5.02	18.36	11.91	614.78	-0.09	10.13	No	
LRMW-5	10/7/2011	626.69	629.20	615.73	605.73	13.53	5.66	19.19	12.24	614.45	-0.33	9.94	No	
LRMW-5	10/11/2011	626.69	629.20	615.73	605.73	13.61	5.86	19.47	12.36	614.33	-0.12	9.86	No	
LRMW-5	10/21/2011	626.69	629.20	615.73	605.73	13.77	6.07	19.84	12.56	614.13	-0.21	9.70	No	
LRMW-5	10/27/2011	626.69	629.20	615.73	605.73	13.91	6.02	19.93	12.69	614.00	-0.13	9.56	No	
LRMW-5	11/3/2011	626.69	629.20	615.73	605.73	14.22	5.83	20.05	12.96	613.73	-0.27	9.25	No	
LRMW-5	11/9/2011	626.69	629.20	615.73	605.73	14.26	5.69	19.95	12.97	613.72	-0.01	9.21	No	
LRMW-5	11/17/2011	626.69	629.20	615.73	605.73	14.63	5.50	20.13	13.30	613.39	-0.33	8.84	No	
LRMW-5	11/22/2011	626.69	629.20	615.73	605.73	14.65	5.37	20.02	13.29	613.40	0.01	8.82	No	
LRMW-5	12/1/2011	626.69	629.20	615.73	605.73	14.94	5.12	20.06	13.53	613.16	-0.24	8.53	No	
LRMW-5	1/4/2012	626.69	629.20	615.73	605.73	15.52	4.43	19.95	13.96	612.73	-0.43	7.95	No	
LRMW-5	2/16/2012	626.69	629.20	615.73	605.73	16.44	3.45	19.89	14.67	612.02	-0.71	7.03	No	
LRMW-5	3/13/2012	626.69	629.20	615.73	605.73	16.51	3.12	19.63	14.67	612.02	0.00	6.96	No	
LRMW-5	4/12/2012	626.69	629.20	615.73	605.73	15.25	3.79	19.04	13.55	613.14	1.12	8.22	No	Cannot get Spill Buddy in Well
LRMW-5	4/16/2012	626.69	629.20	615.73	605.73	15.05	3.84	18.89	13.37	613.32	0.19	8.42	No	

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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-5	5/18/2012	626.69	629.20	615.73	605.73	13.68	3.92	17.60	12.01	614.68	1.35	9.79	No	
LRMW-5	6/28/2012	626.69	629.20	615.73	605.73	10.71	3.83	14.54	9.02	617.67	2.99	12.76	Yes	
LRMW-5	7/24/2012	626.69	629.20	615.73	605.73	13.19	4.10	17.29	11.56	615.13	-2.54	10.28	No	
LRMW-5	8/17/2012	626.69	629.20	615.73	605.73	13.58	5.71	19.29	12.30	614.39	-0.74	9.89	No	
LRMW-5	8/28/2012	626.69	629.20	615.73	605.73	14.28	5.71	19.99	13.00	613.69	-0.70	9.19	No	Hand Bail before reading
LRMW-5	8/28/2012	626.69	629.20	615.73	605.73	19.36	1.02	20.38	17.07	609.62	-4.07	4.11	No	Hand Bail after reading
LRMW-5	9/17/2012	626.69	629.20	615.73	605.73	15.41	2.53	17.94	13.44	613.25	3.63	8.06	No	
LRMW-5	9/30/2012	626.69	629.20	615.73	605.73	15.80	2.49	18.29	13.82	612.87	-0.38	7.67	No	
LRMW-5	11/21/2012	626.69	629.20	615.73	605.73	16.32	2.20	18.52	14.28	612.41	-0.46	7.15	No	
LRMW-5	12/17/2012	626.69	629.20	615.73	605.73	16.64	2.04	18.68	14.57	612.12	-0.29	6.83	No	
LRMW-5	3/25/2013	626.69	629.20	615.73	605.73	17.52	1.94	19.46	15.43	611.26	-0.86	5.95	No	
LRMW-5	5/6/2013	626.69	629.20	615.73	605.73	14.53	2.43	16.96	12.54	614.15	2.88	8.94	No	
LRMW-5	10/3/2013	626.69	629.20	615.73	605.73	15.53	3.39	18.92	13.75	612.94	-1.21	7.94	No	
LRMW-5	5/22/2014	626.69	629.20	615.73	605.73	10.85	3.11	13.96	9.01	617.68	4.74	12.62	Yes	
LRMW-5	10/31/2014	626.69	629.20	615.73	605.73	13.30	3.78	17.08	11.60	615.09	-2.59	10.17	No	
LRMW-5	4/15/2015	626.69	629.20	615.73	605.73	14.35	5.24	19.59	12.97	613.72	-1.36	9.12	No	
LRMW-5	4/22/2015	626.69	629.20	615.73	605.73	14.45	1.15	15.60	12.19	614.50	0.78	9.02	No	
LRMW-5	4/29/2015	626.69	629.20	615.73	605.73	14.37	0.18	14.55	11.90	614.79	0.29	9.10	No	
LRMW-5	5/6/2015	626.69	629.20	615.73	605.73	14.38	0.20	14.58	11.91	614.78	-0.01	9.09	No	
LRMW-5	5/12/2015	626.69	629.20	615.73	605.73	13.83	0.12	13.95	11.35	615.34	0.57	9.64	No	
LRMW-5	6/9/2015	626.69	629.20	615.73	605.73	12.83	0.40	13.23	10.41	616.28	0.94	10.64	Yes	
LRMW-5	10/5/2015	626.69	629.20	615.73	605.73	13.25	0.27	13.52	10.80	615.89	-0.39	10.22	Yes	
LRMW-5	5/23/2016	626.69	629.20	615.73	605.73	10.80	2.89	13.69	8.91	617.78	1.89	12.67	Yes	
LRMW-5	10/3/2016	626.69	629.20	615.73	605.73	14.13	1.19	15.32	11.88	614.81	-2.96	9.34	No	
LRMW-5	5/2/2017	626.69	629.20	615.73	605.73	10.63	3.44	14.07	8.86	617.83	3.02	12.84	Yes	
LRMW-5	5/22/2017	626.69	629.20	615.73	605.73	9.65	3.40	13.05	7.87	618.82	0.99	13.82	Yes	
LRMW-5	5/31/2017	626.69	629.20	615.73	605.73	9.92	2.38	12.30	7.92	618.77	-0.05	13.55	Yes	
LRMW-5	6/22/2017	626.69	629.20	615.73	605.73	11.89	0.66	12.55	9.52	617.17	-1.60	11.58	Yes	
LRMW-5	6/29/2017	626.69	629.20	615.73	605.73	NP	0.00	15.09	12.58	614.11	-3.06	8.38	No	
LRMW-6	2/8/2001	628.97	632.50	619.36	609.36	NP	0.00	19.47	15.94	613.03	NA	3.67	No	
LRMW-6	2/22/2001	628.97	632.50	619.36	609.36	NP	0.00	19.55	16.02	612.95	-0.08	3.59	No	
LRMW-6	5/23/2001	628.97	632.50	619.36	609.36	NP	0.00	15.70	12.17	616.80	3.85	7.44	No	
LRMW-6	10/24/2001	628.97	632.50	619.36	609.36	NP	0.00	18.82	15.29	613.68	-3.12	4.32	No	
LRMW-6	12/20/2001	629.00	632.50	619.36	609.36	NP	0.00	18.44	14.94	614.06	0.38	4.70	No	
LRMW-6	1/22/2002	629.00	632.50	619.36	609.36	NP	0.00	19.26	15.76	613.24	-0.82	3.88	No	
LRMW-6	5/15/2002	629.00	632.50	619.36	609.36	NP	0.00	16.87	13.37	615.63	2.39	6.27	No	
LRMW-6	6/27/2002	629.00	632.50	619.36	609.36	NP	0.00	17.11	13.61	615.39	-0.24	6.03	No	
LRMW-6	7/25/2002	629.00	632.50	619.36	609.36	NP	0.00	17.53	14.03	614.97	-0.42	5.61	No	
LRMW-6	8/20/2002	629.00	632.50	619.36	609.36	NP	0.00	16.94	13.44	615.56	0.59	6.20	No	
LRMW-6	9/30/2002	629.00	632.50	619.36	609.36	NP	0.00	16.90	13.40	615.60	0.04	6.24	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-6	11/5/2002	629.00	632.50	619.36	609.36	NP	0.00	17.90	14.40	614.60	-1.00	5.24	No	
LRMW-6	12/23/2002	629.00	632.50	619.36	609.36	NP	0.00	18.45	14.95	614.05	-0.55	4.69	No	
LRMW-6	1/28/2003	629.00	632.50	619.36	609.36	NP	0.00	19.38	15.88	613.12	-0.93	3.76	No	
LRMW-6	2/19/2003	629.00	632.50	619.36	609.36	NP	0.00	18.94	15.44	613.56	0.44	4.20	No	
LRMW-6	4/17/2003	629.00	632.50	619.36	609.36	NP	0.00	23.14	19.64	609.36	-4.20	0.00	No	
LRMW-6	5/15/2003	629.00	632.50	619.36	609.36	NP	0.00	18.99	15.49	613.51	4.15	4.15	No	
LRMW-6	6/10/2003	629.00	632.50	619.36	609.36	NP	0.00	18.57	15.07	613.93	0.42	4.57	No	
LRMW-6	7/30/2003	629.00	632.50	619.36	609.36	NP	0.00	18.40	14.90	614.10	0.17	4.74	No	
LRMW-6	10/22/2003	629.00	632.50	619.36	609.36	NP	0.00	19.68	16.18	612.82	-1.28	3.46	No	
LRMW-6	12/3/2003	629.30	632.45	619.31	609.31	NP	0.00	19.89	16.74	612.56	-0.26	3.25	No	
LRMW-6	1/8/2004	629.30	632.45	619.31	609.31	NP	0.00	20.43	17.28	612.02	-0.54	2.71	No	
LRMW-6	4/19/2004	629.30	632.45	619.31	609.31	NP	0.00	19.41	16.26	613.04	1.02	3.73	No	
LRMW-6	7/27/2004	629.30	632.45	619.31	609.31	NP	0.00	18.32	15.17	614.13	1.09	4.82	No	
LRMW-6	11/18/2004	629.30	632.45	619.31	609.31	NP	0.00	17.12	13.97	615.33	1.20	6.02	No	
LRMW-6	4/18/2005	629.30	632.45	619.31	609.31	NP	0.00	16.92	13.77	615.53	0.20	6.22	No	
LRMW-6	10/11/2005	629.30	632.45	619.31	609.31	NP	0.00	16.56	13.41	615.89	0.36	6.58	No	
LRMW-6	5/23/2006	629.30	632.45	619.31	609.31	NP	0.00	15.77	12.62	616.68	0.79	7.37	No	
LRMW-6	10/16/2006	629.30	632.45	619.31	609.31	NP	0.00	18.54	15.39	613.91	-2.77	4.60	No	
LRMW-6	4/23/2007	629.30	632.45	619.31	609.31	NP	0.00	18.34	15.19	614.11	0.20	4.80	No	
LRMW-6	9/25/2007	629.30	632.32	619.18	609.18	NP	0.00	18.71	15.69	613.61	-0.50	4.43	No	
LRMW-6	5/1/2008	629.30	632.32	619.18	609.18	NP	0.00	15.43	12.41	616.89	3.28	7.71	No	
LRMW-6	10/20/2008	629.30	632.32	619.18	609.18	NP	0.00	15.28	12.26	617.04	0.15	7.86	No	
LRMW-6	4/18/2009	629.30	632.32	619.18	609.18	NP	0.00	16.22	13.20	616.10	-0.94	6.92	No	
LRMW-6	10/11/2009	629.30	632.32	619.18	609.18	NP	0.00	17.99	14.97	614.33	-1.77	5.15	No	
LRMW-6	4/28/2010	629.30	632.32	619.18	609.18	NP	0.00	17.62	14.60	614.70	0.37	5.52	No	
LRMW-6	10/25/2010	629.30	632.32	619.18	609.18	NP	0.00	15.99	12.97	616.33	1.63	7.15	No	
LRMW-6	4/25/2011	629.30	632.32	619.18	609.18	NP	0.00	16.05	13.03	616.27	-0.06	7.09	No	
LRMW-6	9/14/2011	629.30	632.32	619.18	609.18	NP	0.00	16.75	13.73	615.57	-0.70	6.39	No	
LRMW-6	9/23/2011	629.30	632.32	619.18	609.18	NP	0.00	17.02	14.00	615.30	-0.27	6.12	No	
LRMW-6	9/29/2011	629.30	632.32	619.18	609.18	NP	0.00	17.02	14.00	615.30	0.00	6.12	No	
LRMW-6	10/7/2011	629.30	632.32	619.18	609.18	NP	0.00	17.21	14.19	615.11	-0.19	5.93	No	
LRMW-6	10/11/2011	629.30	632.32	619.18	609.18	NP	0.00	17.23	14.21	615.09	-0.02	5.91	No	
LRMW-6	10/21/2011	629.30	632.32	619.18	609.18	NP	0.00	17.58	14.56	614.74	-0.35	5.56	No	
LRMW-6	10/27/2011	629.30	632.32	619.18	609.18	NP	0.00	17.66	14.64	614.66	-0.08	5.48	No	
LRMW-6	11/3/2011	629.30	632.32	619.18	609.18	NP	0.00	17.96	14.94	614.36	-0.30	5.18	No	
LRMW-6	11/9/2011	629.30	632.32	619.18	609.18	NP	0.00	17.90	14.88	614.42	0.06	5.24	No	
LRMW-6	11/17/2011	629.30	632.32	619.18	609.18	NP	0.00	18.25	15.23	614.07	-0.35	4.89	No	
LRMW-6	11/22/2011	629.30	632.32	619.18	609.18	NP	0.00	18.22	15.20	614.10	0.03	4.92	No	
LRMW-6	12/1/2011	629.30	632.32	619.18	609.18	NP	0.00	18.36	15.34	613.96	-0.14	4.78	No	
LRMW-6	1/4/2012	629.30	632.32	619.18	609.18	NP	0.00	18.92	15.90	613.40	-0.56	4.22	No	
LRMW-6	2/16/2012	629.30	632.32	619.18	609.18	NP	0.00	19.71	16.69	612.61	-0.79	3.43	No	

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LRMW-6	3/13/2012	629.30	632.32	619.18	609.18	NP	0.00	19.78	16.76	612.54	-0.07	3.36	No	
LRMW-6	4/16/2012	629.30	632.32	619.18	609.18	NP	0.00	18.34	15.32	613.98	1.44	4.80	No	
LRMW-6	5/18/2012	629.30	632.32	619.18	609.18	NP	0.00	17.48	14.46	614.84	0.86	5.66	No	
LRMW-6	6/28/2012	629.30	632.32	619.18	609.18	NP	0.00	14.33	11.31	617.99	3.15	8.81	No	
LRMW-6	7/24/2012	629.30	632.32	619.18	609.18	NP	0.00	16.81	13.79	615.51	-2.48	6.33	No	
LRMW-6	8/17/2012	629.30	632.32	619.18	609.18	NP	0.00	17.44	14.42	614.88	-0.63	5.70	No	
LRMW-6	9/17/2012	629.30	632.32	619.18	609.18	NP	0.00	18.45	15.43	613.87	-1.01	4.69	No	
LRMW-6	9/30/2012	629.30	632.32	619.18	609.18	NP	0.00	18.75	15.73	613.57	-0.30	4.39	No	
LRMW-6	11/21/2012	629.30	632.32	619.18	609.18	NP	0.00	18.83	15.81	613.49	-0.08	4.31	No	
LRMW-6	12/17/2012	629.30	632.32	619.18	609.18	NP	0.00	18.97	15.95	613.35	-0.14	4.17	No	
LRMW-6	3/25/2013	629.30	632.32	619.18	609.18	NP	0.00	20.39	17.37	611.93	-1.42	2.75	No	
LRMW-6	5/6/2013	629.30	632.32	619.18	609.18	NP	0.00	17.69	14.67	614.63	2.70	5.45	No	
LRMW-6	10/3/2013	629.30	632.32	619.18	609.18	NP	0.00	18.73	15.71	613.59	-1.04	4.41	No	
LRMW-6	5/21/2014	629.30	632.32	619.18	609.18	NP	0.00	14.52	11.50	617.80	4.21	8.62	No	
LRMW-6	10/31/2014	629.30	632.32	619.18	609.18	NP	0.00	16.93	13.91	615.39	-2.41	6.21	No	
LRMW-6	5/6/2015	629.30	632.32	619.18	609.18	NP	0.00	17.84	14.82	614.48	-0.91	5.30	No	
LRMW-6	10/5/2015	629.30	632.32	619.18	609.18	NP	0.00	16.17	13.15	616.15	1.67	6.97	No	
LRMW-6	5/23/2016	629.30	632.32	619.18	609.18	NP	0.00	14.27	11.25	618.05	1.90	8.87	No	
LRMW-6	10/3/2016	629.30	632.32	619.18	609.18	NP	0.00	15.98	12.96	616.34	-1.71	7.16	No	
LRMW-7	7/27/2011	627.00	629.06	611.00	596.00	11.02	6.90	17.92	10.44	616.56	NA	22.04	Yes	
LRMW-7	7/28/2011	627.00	629.06	611.00	596.00	10.64	8.54	19.18	10.41	616.59	0.03	22.42	Yes	
LRMW-7	8/1/2011	627.00	629.06	611.00	596.00	10.80	8.98	19.78	10.67	616.33	-0.25	22.26	Yes	
LRMW-7	8/18/2011	627.00	629.06	611.00	596.00	9.98	9.72	19.70	10.01	616.99	0.66	23.08	Yes	
LRMW-7	8/25/2011	627.00	629.06	611.00	596.00	10.73	8.95	19.68	10.59	616.41	-0.58	22.33	Yes	
LRMW-7	9/1/2011	627.00	629.06	611.00	596.00	11.23	8.56	19.79	11.01	615.99	-0.42	21.83	Yes	
LRMW-7	9/8/2011	627.00	629.06	611.00	596.00	11.99	7.73	19.72	11.59	615.41	-0.58	21.07	Yes	
LRMW-7	9/14/2011	627.00	629.06	611.00	596.00	12.64	7.03	19.67	12.09	614.91	-0.50	20.42	Yes	
LRMW-7	9/23/2011	627.00	629.06	611.00	596.00	12.92	6.96	19.88	12.36	614.64	-0.26	20.14	Yes	
LRMW-7	9/29/2011	627.00	629.06	611.00	596.00	13.09	6.79	19.88	12.49	614.51	-0.13	19.97	Yes	
LRMW-7	10/7/2011	627.00	629.06	611.00	596.00	13.32	6.41	19.73	12.64	614.36	-0.15	19.74	Yes	
LRMW-7	10/11/2011	627.00	629.06	611.00	596.00	13.65	6.31	19.96	12.95	614.05	-0.31	19.41	Yes	
LRMW-7	10/21/2011	627.00	629.06	611.00	596.00	13.85	5.11	18.96	12.89	614.11	0.06	19.21	Yes	
LRMW-7	10/27/2011	627.00	629.06	611.00	596.00	14.01	5.29	19.30	13.09	613.91	-0.20	19.05	Yes	
LRMW-7	11/3/2011	627.00	629.06	611.00	596.00	14.29	5.16	19.45	13.34	613.66	-0.25	18.77	Yes	
LRMW-7	11/9/2011	627.00	629.06	611.00	596.00	14.22	5.24	19.46	13.29	613.71	0.05	18.84	Yes	
LRMW-7	11/10/2011	627.00	629.06	611.00	596.00	14.41	5.19	19.60	13.47	613.53	-0.18	18.65	Yes	Before EFR
LRMW-7	11/10/2011	627.00	629.06	611.00	596.00	16.12	0.03	16.15	14.07	612.93	-0.60	16.94	Yes	After EFR
LRMW-7	11/13/2011	627.00	629.06	611.00	596.00	14.58	3.85	18.43	13.35	613.65	0.72	18.48	Yes	
LRMW-7	11/17/2011	627.00	629.06	611.00	596.00	14.75	4.29	19.04	13.61	613.39	-0.26	18.31	Yes	
LRMW-7	11/22/2011	627.00	629.06	611.00	596.00	14.73	4.51	19.24	13.64	613.36	-0.03	18.33	Yes	

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LRMW-7	12/1/2011	627.00	629.06	611.00	596.00	14.91	4.63	19.54	13.84	613.16	-0.21	18.15	Yes	
LRMW-7	1/4/2012	627.00	629.06	611.00	596.00	15.35	4.70	20.05	14.30	612.70	-0.46	17.71	Yes	
LRMW-7	2/16/2012	627.00	629.06	611.00	596.00	16.22	4.06	20.28	15.03	611.97	-0.73	16.84	Yes	
LRMW-7	3/13/2012	627.00	629.06	611.00	596.00	16.12	3.84	19.96	14.89	612.11	0.15	16.94	Yes	
LRMW-7	4/12/2012	627.00	629.06	611.00	596.00	15.19	4.77	19.96	14.15	612.85	0.73	17.87	Yes	Spill Buddy Before Reading
LRMW-7	4/16/2012	627.00	629.06	611.00	596.00	14.94	4.49	19.43	13.84	613.16	0.31	18.12	Yes	
LRMW-7	5/18/2012	627.00	629.06	611.00	596.00	13.44	6.71	20.15	12.82	614.18	1.02	19.62	Yes	
LRMW-7	6/28/2012	627.00	629.06	611.00	596.00	9.27	10.58	19.85	9.48	617.52	3.34	23.79	Yes	
LRMW-7	7/2/2012	627.00	629.06	611.00	596.00	10.07	9.89	19.96	10.13	616.87	-0.65	22.99	Yes	Installed Portable System 2 on LRMW 7, gauge before starting portable system.
LRMW-7	11/21/2012	627.00	629.06	611.00	596.00	17.04	2.33	19.37	15.48	611.52	-5.35	16.02	Yes	
LRMW-7	12/17/2012	627.00	629.06	611.00	596.00	15.79	3.78	19.57	14.54	612.46	0.94	17.27	Yes	
LRMW-7	3/25/2013	627.00	629.06	611.00	596.00	17.12	2.97	20.09	15.70	611.30	-1.16	15.94	Yes	
LRMW-7	4/29/2013	627.00	629.06	611.00	596.00	14.19	4.99	19.18	13.20	613.80	2.50	18.87	Yes	Spill Buddy Before Reading
LRMW-7	5/6/2013	627.00	629.06	611.00	596.00	13.90	6.02	19.92	13.13	613.87	0.07	19.16	Yes	
LRMW-7	10/3/2013	627.00	629.06	611.00	596.00	15.04	4.77	19.81	14.00	613.00	-0.87	18.02	Yes	
LRMW-7	5/22/2014	627.00	629.06	611.00	596.00	9.58	9.81	19.39	9.63	617.37	4.38	23.48	Yes	
LRMW-7	10/31/2014	627.00	629.06	611.00	596.00	12.76	7.02	19.78	12.21	614.79	-2.58	20.30	Yes	
LRMW-7	4/15/2015	627.00	629.06	611.00	596.00	16.19	3.14	19.33	14.80	612.20	-2.60	16.87	Yes	
LRMW-7	4/22/2015	627.00	629.06	611.00	596.00	14.57	3.97	18.54	13.36	613.64	1.44	18.49	Yes	
LRMW-7	4/29/2015	627.00	629.06	611.00	596.00	14.25	4.35	18.60	13.12	613.88	0.24	18.81	Yes	
LRMW-7	5/6/2015	627.00	629.06	611.00	596.00	14.21	4.61	18.82	13.14	613.86	-0.02	18.85	Yes	
LRMW-7	5/12/2015	627.00	629.06	611.00	596.00	13.35	5.59	18.94	12.49	614.51	0.65	19.71	Yes	
LRMW-7	6/9/2015	627.00	629.06	611.00	596.00	11.74	7.79	19.53	11.35	615.65	1.14	21.32	Yes	
LRMW-7	10/5/2015	627.00	629.06	611.00	596.00	11.89	7.27	19.16	11.39	615.61	-0.04	21.17	Yes	
LRMW-7	5/23/2016	627.00	629.06	611.00	596.00	9.60	10.30	19.90	9.75	617.25	1.64	23.46	Yes	
LRMW-7	10/3/2016	627.00	629.06	611.00	596.00	11.81	7.91	19.72	11.45	615.55	-1.70	21.25	Yes	
LRMW-7	5/2/2017	627.00	629.06	611.00	596.00	9.80	9.36	19.16	9.75	617.25	1.70	23.26	Yes	
LRMW-7	5/8/2017	627.00	629.06	611.00	596.00	10.17	8.53	18.70	9.94	617.06	-0.19	22.89	Yes	
LRMW-7	5/18/2017	627.00	629.06	611.00	596.00	9.65	9.45	19.10	9.62	617.38	0.32	23.41	Yes	
LRMW-7	5/22/2017	627.00	629.06	611.00	596.00	8.34	10.25	18.59	8.48	618.52	1.14	24.72	Yes	
LRMW-7	5/25/2017	627.00	629.06	611.00	596.00	8.42	9.93	18.35	8.49	618.51	-0.01	24.64	Yes	
LRMW-7	5/31/2017	627.00	629.06	611.00	596.00	8.24	11.13	19.37	8.57	618.43	-0.08	24.82	Yes	
LRMW-7	6/21/2017	627.00	629.06	611.00	596.00	10.23	9.36	19.59	10.18	616.82	-1.61	22.83	Yes	
LRMW-7	6/22/2017	627.00	629.06	611.00	596.00	11.42	4.30	15.72	10.28	616.72	-0.10	21.64	Yes	
LRMW-7	6/29/2017	627.00	629.06	611.00	596.00	10.67	8.17	18.84	10.37	616.63	-0.08	22.39	Yes	
LRMW-8	7/21/2011	626.80	629.96	608.80	588.80	NP	0.00	13.62	10.46	616.34	NA	27.54	Yes	
LRMW-8	7/28/2011	626.80	629.96	608.80	588.80	NP	0.00	13.65	10.49	616.31	-0.03	27.51	Yes	
LRMW-8	8/18/2011	626.80	629.96	608.80	588.80	NP	0.00	13.37	10.21	616.59	0.28	27.79	Yes	
LRMW-8	8/25/2011	626.80	629.96	608.80	588.80	NP	0.00	13.94	10.78	616.02	-0.57	27.22	Yes	
LRMW-8	9/1/2011	626.80	629.96	608.80	588.80	NP	0.00	14.36	11.20	615.60	-0.42	26.80	Yes	
LRMW-8	9/8/2011	626.80	629.96	608.80	588.80	NP	0.00	14.94	11.78	615.02	-0.58	26.22	Yes	
LRMW-8	9/14/2011	626.80	629.96	608.80	588.80	NP	0.00	15.41	12.25	614.55	-0.47	25.75	Yes	
LRMW-8	9/23/2011	626.80	629.96	608.80	588.80	NP	0.00	15.68	12.52	614.28	-0.27	25.48	Yes	

Table 3
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Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-8	9/29/2011	626.80	629.96	608.80	588.80	NP	0.00	15.78	12.62	614.18	-0.10	25.38	Yes	
LRMW-8	10/7/2011	626.80	629.96	608.80	588.80	NP	0.00	15.95	12.79	614.01	-0.17	25.21	Yes	
LRMW-8	10/11/2011	626.80	629.96	608.80	588.80	NP	0.00	16.24	13.08	613.72	-0.29	24.92	Yes	
LRMW-8	10/21/2011	626.80	629.96	608.80	588.80	NP	0.00	16.25	13.09	613.71	-0.01	24.91	Yes	
LRMW-8	10/27/2011	626.80	629.96	608.80	588.80	NP	0.00	16.37	13.21	613.59	-0.12	24.79	Yes	
LRMW-8	11/3/2011	626.80	629.96	608.80	588.80	NP	0.00	16.63	13.47	613.33	-0.26	24.53	Yes	
LRMW-8	11/9/2011	626.80	629.96	608.80	588.80	NP	0.00	16.58	13.42	613.38	0.05	24.58	Yes	
LRMW-8	11/17/2011	626.80	629.96	608.80	588.80	NP	0.00	16.88	13.72	613.08	-0.30	24.28	Yes	
LRMW-8	11/22/2011	626.80	629.96	608.80	588.80	NP	0.00	16.89	13.73	613.07	-0.01	24.27	Yes	
LRMW-8	12/1/2011	626.80	629.96	608.80	588.80	NP	0.00	17.11	13.95	612.85	-0.22	24.05	Yes	
LRMW-8	1/4/2012	626.80	629.96	608.80	588.80	NP	0.00	17.57	14.41	612.39	-0.46	23.59	Yes	
LRMW-8	2/16/2012	626.80	629.96	608.80	588.80	NP	0.00	18.29	15.13	611.67	-0.72	22.87	Yes	
LRMW-8	3/13/2012	626.80	629.96	608.80	588.80	18.00	0.38	18.38	14.92	611.88	0.21	23.16	Yes	
LRMW-8	4/16/2012	626.80	629.96	608.80	588.80	16.83	0.69	17.52	13.82	612.98	1.10	24.33	Yes	
LRMW-8	5/18/2012	626.80	629.96	608.80	588.80	15.87	0.70	16.57	12.86	613.94	0.96	25.29	Yes	
LRMW-8	6/28/2012	626.80	629.96	608.80	588.80	12.60	0.69	13.29	9.59	617.21	3.27	28.56	Yes	
LRMW-8	7/24/2012	626.80	629.96	608.80	588.80	15.24	0.71	15.95	12.23	614.57	-2.64	25.92	Yes	
LRMW-8	8/17/2012	626.80	629.96	608.80	588.80	15.79	0.94	16.73	12.83	613.97	-0.60	25.37	Yes	
LRMW-8	8/28/2012	626.80	629.96	608.80	588.80	16.18	1.03	17.21	13.24	613.56	-0.41	24.98	Yes	Spill Buddy Before Reading
LRMW-8	9/17/2012	626.80	629.96	608.80	588.80	16.91	0.47	17.38	13.85	612.95	-0.61	24.25	Yes	
LRMW-8	9/28/2012	626.80	629.96	608.80	588.80	17.23	0.56	17.79	14.19	612.61	-0.34	23.93	Yes	Spill Buddy Before Reading
LRMW-8	9/30/2012	626.80	629.96	608.80	588.80	17.34	0.11	17.45	14.20	612.60	-0.01	23.82	Yes	
LRMW-8	11/21/2012	626.80	629.96	608.80	588.80	17.04	2.32	19.36	14.38	612.42	-0.17	24.12	Yes	
LRMW-8	12/17/2012	626.80	629.96	608.80	588.80	16.94	3.28	20.22	14.48	612.32	-0.11	24.22	Yes	
LRMW-8	3/25/2013	626.80	629.96	608.80	588.80	17.69	4.80	22.49	15.56	611.24	-1.08	23.47	Yes	
LRMW-8	5/6/2013	626.80	629.96	608.80	588.80	14.60	6.19	20.79	12.77	614.03	2.79	26.56	Yes	
LRMW-8	10/3/2013	626.80	629.96	608.80	588.80	15.70	5.95	21.65	13.82	612.98	-1.05	25.46	Yes	
LRMW-8	5/22/2014	626.80	629.96	608.80	588.80	10.90	7.94	18.84	9.45	617.35	4.37	30.26	Yes	
LRMW-8	10/31/2014	626.80	629.96	608.80	588.80	13.49	8.07	21.56	12.06	614.74	-2.62	27.67	Yes	
LRMW-8	4/15/2015	626.80	629.96	608.80	588.80	15.57	6.85	22.42	13.88	612.92	-1.82	25.59	Yes	
LRMW-8	4/22/2015	626.80	629.96	608.80	588.80	16.35	0.75	17.10	13.35	613.45	0.53	24.81	Yes	
LRMW-8	4/29/2015	626.80	629.96	608.80	588.80	16.25	0.25	16.50	13.14	613.66	0.21	24.91	Yes	
LRMW-8	5/6/2015	626.80	629.96	608.80	588.80	16.30	0.23	16.53	13.19	613.61	-0.05	24.86	Yes	
LRMW-8	5/12/2015	626.80	629.96	608.80	588.80	15.61	0.22	15.83	12.50	614.30	0.69	25.55	Yes	
LRMW-8	6/9/2015	626.80	629.96	608.80	588.80	14.59	0.15	14.74	11.46	615.34	1.04	26.57	Yes	
LRMW-8	10/5/2015	626.80	629.96	608.80	588.80	14.63	0.29	14.92	11.53	615.27	-0.07	26.53	Yes	
LRMW-8	5/23/2016	626.80	629.96	608.80	588.80	13.05	0.34	13.39	9.96	616.84	1.57	28.11	Yes	
LRMW-8	10/3/2016	626.80	629.96	608.80	588.80	14.72	0.32	15.04	11.63	615.17	-1.67	26.44	Yes	
LRMW-8	5/2/2017	626.80	629.96	608.80	588.80	12.92	0.51	13.43	9.87	616.93	1.76	28.24	Yes	
LRMW-8	5/18/2017	626.80	629.96	608.80	588.80	12.77	0.51	13.28	9.72	617.08	0.15	28.39	Yes	
LRMW-8	5/31/2017	626.80	629.96	608.80	588.80	11.82	0.50	12.32	8.77	618.03	0.95	29.34	Yes	

Table 3
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-8	6/22/2017	626.80	629.96	608.80	588.80	13.45	0.50	13.95	10.40	616.40	-1.63	27.71	Yes	
LRMW-9	7/28/2011	625.40	627.26	606.40	586.40	11.45	0.02	11.47	9.59	615.81	NA	29.41	Yes	
LRMW-9	8/18/2011	625.40	627.26	606.40	586.40	11.17	0.04	11.21	9.32	616.08	0.28	29.69	Yes	
LRMW-9	8/25/2011	625.40	627.26	606.40	586.40	11.73	0.05	11.78	9.88	615.52	-0.56	29.13	Yes	
LRMW-9	9/1/2011	625.40	627.26	606.40	586.40	12.14	0.02	12.16	10.28	615.12	-0.40	28.72	Yes	
LRMW-9	9/8/2011	625.40	627.26	606.40	586.40	12.74	0.04	12.78	10.89	614.51	-0.60	28.12	Yes	
LRMW-9	9/14/2011	625.40	627.26	606.40	586.40	13.20	0.05	13.25	11.35	614.05	-0.46	27.66	Yes	
LRMW-9	9/23/2011	625.40	627.26	606.40	586.40	13.45	0.05	13.50	11.60	613.80	-0.25	27.41	Yes	
LRMW-9	9/29/2011	625.40	627.26	606.40	586.40	13.56	0.05	13.61	11.71	613.69	-0.11	27.30	Yes	
LRMW-9	10/7/2011	625.40	627.26	606.40	586.40	13.74	0.05	13.79	11.89	613.51	-0.18	27.12	Yes	
LRMW-9	10/11/2011	625.40	627.26	606.40	586.40	13.96	0.03	13.99	12.11	613.29	-0.22	26.90	Yes	
LRMW-9	10/21/2011	625.40	627.26	606.40	586.40	13.98	0.06	14.04	12.13	613.27	-0.03	26.88	Yes	
LRMW-9	10/27/2011	625.40	627.26	606.40	586.40	14.01	0.03	14.04	12.16	613.24	-0.02	26.85	Yes	
LRMW-9	11/3/2011	625.40	627.26	606.40	586.40	14.36	0.06	14.42	12.51	612.89	-0.36	26.50	Yes	
LRMW-9	11/9/2011	625.40	627.26	606.40	586.40	14.33	0.05	14.38	12.48	612.92	0.03	26.53	Yes	
LRMW-9	11/17/2011	625.40	627.26	606.40	586.40	14.61	0.06	14.67	12.76	612.64	-0.28	26.25	Yes	
LRMW-9	11/22/2011	625.40	627.26	606.40	586.40	14.64	0.05	14.69	12.79	612.61	-0.03	26.22	Yes	
LRMW-9	12/1/2011	625.40	627.26	606.40	586.40	14.81	0.06	14.87	12.96	612.44	-0.17	26.05	Yes	
LRMW-9	1/4/2012	625.40	627.26	606.40	586.40	15.30	0.04	15.34	13.45	611.95	-0.49	25.56	Yes	
LRMW-9	2/16/2012	625.40	627.26	606.40	586.40	16.01	0.04	16.05	14.16	611.24	-0.71	24.85	Yes	
LRMW-9	3/13/2012	625.40	627.26	606.40	586.40	15.78	0.03	15.81	13.93	611.47	0.23	25.08	Yes	
LRMW-9	4/16/2012	625.40	627.26	606.40	586.40	NP	0.00	14.59	12.73	612.67	1.20	26.27	Yes	
LRMW-9	5/18/2012	625.40	627.26	606.40	586.40	13.70	0.03	13.73	11.85	613.55	0.88	27.16	Yes	
LRMW-9	6/28/2012	625.40	627.26	606.40	586.40	10.45	0.03	10.48	8.60	616.80	3.25	30.41	Yes	
LRMW-9	7/24/2012	625.40	627.26	606.40	586.40	13.11	0.04	13.15	11.26	614.14	-2.66	27.75	Yes	
LRMW-9	8/17/2012	625.40	627.26	606.40	586.40	13.73	0.07	13.80	11.89	613.51	-0.63	27.13	Yes	
LRMW-9	8/28/2012	625.40	627.26	606.40	586.40	14.13	0.02	14.15	12.27	613.13	-0.39	26.73	Yes	
LRMW-9	9/17/2012	625.40	627.26	606.40	586.40	14.75	0.04	14.79	12.90	612.50	-0.62	26.11	Yes	
LRMW-9	9/30/2012	625.40	627.26	606.40	586.40	15.05	0.03	15.08	13.20	612.20	-0.30	25.81	Yes	
LRMW-9	11/21/2012	625.40	627.26	606.40	586.40	15.29	0.03	15.32	13.44	611.96	-0.24	25.57	Yes	
LRMW-9	12/17/2012	625.40	627.26	606.40	586.40	15.40	0.02	15.42	13.54	611.86	-0.11	25.46	Yes	
LRMW-9	3/25/2013	625.40	627.26	606.40	586.40	NP	0.00	16.59	14.73	610.67	-1.19	24.27	Yes	
LRMW-9	5/6/2013	625.40	627.26	606.40	586.40	NP	0.00	13.75	11.89	613.51	2.84	27.11	Yes	
LRMW-9	10/3/2013	625.40	627.26	606.40	586.40	NP	0.00	14.85	12.99	612.41	-1.10	26.01	Yes	
LRMW-9	5/21/2014	625.40	627.26	606.40	586.40	NP	0.00	10.55	8.69	616.71	4.30	30.31	Yes	
LRMW-9	7/30/2014	625.40	627.26	606.40	586.40	NP	0.00	13.84	11.98	613.42	-3.29	27.02	Yes	
LRMW-9	10/31/2014	625.40	627.26	606.40	586.40	NP	0.00	13.19	11.33	614.07	0.65	27.67	Yes	
LRMW-9	4/15/2015	625.40	627.26	606.40	586.40	NP	0.00	14.80	12.94	612.46	-1.61	26.06	Yes	
LRMW-9	4/22/2015	625.40	627.26	606.40	586.40	NP	0.00	14.10	12.24	613.16	0.70	26.76	Yes	
LRMW-9	4/29/2015	625.40	627.26	606.40	586.40	NP	0.00	13.91	12.05	613.35	0.19	26.95	Yes	

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Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-9	5/5/2015	625.40	627.26	606.40	586.40	NP	0.00	14.03	12.17	613.23	-0.12	26.83	Yes	
LRMW-9	5/12/2015	625.40	627.26	606.40	586.40	NP	0.00	13.20	11.34	614.06	0.83	27.66	Yes	
LRMW-9	6/9/2015	625.40	627.26	606.40	586.40	NP	0.00	12.21	10.35	615.05	0.99	28.65	Yes	
LRMW-9	10/5/2015	625.40	627.26	606.40	586.40	NP	0.00	12.30	10.44	614.96	-0.09	28.56	Yes	
LRMW-9	5/23/2016	625.40	627.26	606.40	586.40	NP	0.00	10.78	8.92	616.48	1.52	30.08	Yes	
LRMW-9	10/3/2016	625.40	627.26	606.40	586.40	NP	0.00	12.41	10.55	614.85	-1.63	28.45	Yes	
LRMW-9	5/2/2017	625.40	627.26	606.40	586.40	NP	0.00	9.54	7.68	617.72	2.87	31.32	Yes	
LRMW-9	5/31/2017	625.40	627.26	606.40	586.40	NP	0.00	10.59	8.73	616.67	-1.05	30.27	Yes	
LRMW-9	6/22/2017	625.40	627.26	606.40	586.40	NP	0.00	11.19	9.33	616.07	-0.60	29.67	Yes	
LRMW-10	7/28/2011	623.40	625.71	600.40	580.40	9.68	15.81	25.49	10.77	612.63	NA	35.63	Yes	
LRMW-10	8/1/2011	623.40	625.71	600.40	580.40	12.08	7.74	19.82	11.43	611.97	-0.67	33.23	Yes	
LRMW-10	8/18/2011	623.40	625.71	600.40	580.40	13.59	0.32	13.91	11.35	612.05	0.08	31.72	Yes	After bail down testing
LRMW-10	8/25/2011	623.40	625.71	600.40	580.40	14.02	0.33	14.35	11.78	611.62	-0.43	31.29	Yes	
LRMW-10	9/1/2011	623.40	625.71	600.40	580.40	14.44	0.28	14.72	12.19	611.21	-0.41	30.87	Yes	
LRMW-10	9/8/2011	623.40	625.71	600.40	580.40	14.89	0.31	15.20	12.65	610.75	-0.46	30.42	Yes	
LRMW-10	9/14/2011	623.40	625.71	600.40	580.40	15.19	0.30	15.49	12.94	610.46	-0.30	30.12	Yes	
LRMW-10	9/23/2011	623.40	625.71	600.40	580.40	15.43	0.30	15.73	13.18	610.22	-0.24	29.88	Yes	
LRMW-10	9/29/2011	623.40	625.71	600.40	580.40	15.56	0.31	15.87	13.32	610.08	-0.13	29.75	Yes	
LRMW-10	10/7/2011	623.40	625.71	600.40	580.40	15.72	0.30	16.02	13.47	609.93	-0.16	29.59	Yes	
LRMW-10	10/11/2011	623.40	625.71	600.40	580.40	15.80	0.29	16.09	13.55	609.85	-0.08	29.51	Yes	
LRMW-10	10/21/2011	623.40	625.71	600.40	580.40	15.92	0.28	16.20	13.67	609.73	-0.12	29.39	Yes	
LRMW-10	10/27/2011	623.40	625.71	600.40	580.40	16.01	0.29	16.30	13.76	609.64	-0.09	29.30	Yes	
LRMW-10	11/3/2011	623.40	625.71	600.40	580.40	16.15	0.29	16.44	13.90	609.50	-0.14	29.16	Yes	
LRMW-10	11/9/2011	623.40	625.71	600.40	580.40	16.19	0.29	16.48	13.94	609.46	-0.04	29.12	Yes	
LRMW-10	11/17/2011	623.40	625.71	600.40	580.40	16.38	0.31	16.69	14.14	609.26	-0.19	28.93	Yes	
LRMW-10	11/22/2011	623.40	625.71	600.40	580.40	16.42	0.28	16.70	14.17	609.23	-0.03	28.89	Yes	
LRMW-10	12/1/2011	623.40	625.71	600.40	580.40	16.51	0.28	16.79	14.26	609.14	-0.09	28.80	Yes	
LRMW-10	1/4/2012	623.40	625.71	600.40	580.40	16.94	0.26	17.20	14.69	608.71	-0.43	28.37	Yes	
LRMW-10	2/16/2012	623.40	625.71	600.40	580.40	17.43	0.26	17.69	15.18	608.22	-0.49	27.88	Yes	
LRMW-10	3/13/2012	623.40	625.71	600.40	580.40	16.90	0.25	17.15	14.64	608.76	0.53	28.41	Yes	
LRMW-10	4/12/2012	623.40	625.71	600.40	580.40	16.34	0.22	16.56	14.08	609.32	0.57	28.97	Yes	
LRMW-10	4/16/2012	623.40	625.71	600.40	580.40	NP	0.00	15.70	13.39	610.01	0.69	29.61	Yes	
LRMW-10	5/18/2012	623.40	625.71	600.40	580.40	15.29	0.23	15.52	13.03	610.37	0.36	30.02	Yes	
LRMW-10	6/28/2012	623.40	625.71	600.40	580.40	12.56	0.23	12.79	10.30	613.10	2.73	32.75	Yes	
LRMW-10	7/24/2012	623.40	625.71	600.40	580.40	14.97	0.18	15.15	12.70	610.70	-2.40	30.34	Yes	
LRMW-10	8/17/2012	623.40	625.71	600.40	580.40	15.61	0.23	15.84	13.35	610.05	-0.65	29.70	Yes	
LRMW-10	8/28/2012	623.40	625.71	600.40	580.40	15.97	0.21	16.18	13.71	609.69	-0.36	29.34	Yes	Spill Buddy Before Reading
LRMW-10	9/17/2012	623.40	625.71	600.40	580.40	16.54	0.03	16.57	14.24	609.16	-0.53	28.77	Yes	
LRMW-10	9/30/2012	623.40	625.71	600.40	580.40	NP	0.00	16.80	14.49	608.91	-0.25	28.51	Yes	
LRMW-10	11/21/2012	623.40	625.71	600.40	580.40	17.01	0.01	17.02	14.70	608.70	-0.21	28.30	Yes	
LRMW-10	12/17/2012	623.40	625.71	600.40	580.40	NP	0.00	17.09	14.78	608.62	-0.08	28.22	Yes	
LRMW-10	3/25/2013	623.40	625.71	600.40	580.40	NP	0.00	17.76	15.45	607.95	-0.67	27.55	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-10	5/6/2013	623.40	625.71	600.40	580.40	NP	0.00	14.90	12.59	610.81	2.86	30.41	Yes	
LRMW-10	10/3/2013	623.40	625.71	600.40	580.40	NP	0.00	16.51	14.20	609.20	-1.61	28.80	Yes	
LRMW-10	5/21/2014	623.40	625.71	600.40	580.40	NP	0.00	12.64	10.33	613.07	3.87	32.67	Yes	
LRMW-10	7/30/2014	623.40	625.71	600.40	580.40	NP	0.00	14.90	12.59	610.81	-2.26	30.41	Yes	
LRMW-10	10/31/2014	623.40	625.71	600.40	580.40	15.03	0.01	15.04	12.72	610.68	-0.13	30.28	Yes	
LRMW-10	4/15/2015	623.40	625.71	600.40	580.40	NP	0.00	15.94	13.63	609.77	-0.91	29.37	Yes	
LRMW-10	4/22/2015	623.40	625.71	600.40	580.40	NP	0.00	15.23	12.92	610.48	0.71	30.08	Yes	
LRMW-10	4/29/2015	623.40	625.71	600.40	580.40	NP	0.00	15.17	12.86	610.54	0.06	30.14	Yes	
LRMW-10	5/6/2015	623.40	625.71	600.40	580.40	15.31	0.32	15.63	13.07	610.33	-0.21	30.00	Yes	
LRMW-10	5/12/2015	623.40	625.71	600.40	580.40	14.52	0.32	14.84	12.28	611.12	0.79	30.79	Yes	
LRMW-10	6/9/2015	623.40	625.71	600.40	580.40	13.98	0.27	14.25	11.73	611.67	0.55	31.33	Yes	
LRMW-10	10/6/2015	623.40	625.71	600.40	580.40	14.36	0.14	14.50	12.08	611.32	-0.35	30.95	Yes	
LRMW-10	5/23/2016	623.40	625.71	600.40	580.40	13.40	0.10	13.50	11.11	612.29	0.97	31.91	Yes	
LRMW-10	10/3/2016	623.40	625.71	600.40	580.40	14.70	0.10	14.80	12.41	610.99	-1.30	30.61	Yes	
LRMW-10	5/22/2017	623.40	625.71	600.40	580.40	12.29	0.08	12.37	10.00	613.40	2.41	33.02	Yes	
LRMW-10	5/31/2017	623.40	625.71	600.40	580.40	12.31	0.08	12.39	10.02	613.38	-0.02	33.00	Yes	
LRMW-10	6/22/2017	623.40	625.71	600.40	580.40	13.64	0.08	13.72	11.35	612.05	-1.33	31.67	Yes	
LRMW-11	7/21/2011	623.90	626.14	598.90	583.90	NP	0.00	14.96	12.72	611.18	NA	27.28	Yes	
LRMW-11	7/28/2011	623.90	626.14	598.90	583.90	14.97	0.04	15.01	12.74	611.16	-0.02	27.27	Yes	
LRMW-11	8/18/2011	623.90	626.14	598.90	583.90	14.81	0.13	14.94	12.60	611.30	0.14	27.43	Yes	
LRMW-11	8/25/2011	623.90	626.14	598.90	583.90	15.22	0.21	15.43	13.03	610.87	-0.43	27.02	Yes	
LRMW-11	9/1/2011	623.90	626.14	598.90	583.90	15.62	0.26	15.88	13.45	610.45	-0.41	26.62	Yes	
LRMW-11	9/8/2011	623.90	626.14	598.90	583.90	16.04	0.31	16.35	13.88	610.02	-0.43	26.20	Yes	
LRMW-11	9/14/2011	623.90	626.14	598.90	583.90	16.34	0.31	16.65	14.18	609.72	-0.30	25.90	Yes	
LRMW-11	9/23/2011	623.90	626.14	598.90	583.90	16.56	0.38	16.94	14.42	609.48	-0.24	25.68	Yes	
LRMW-11	9/29/2011	623.90	626.14	598.90	583.90	16.68	0.42	17.10	14.55	609.35	-0.13	25.56	Yes	
LRMW-11	10/7/2011	623.90	626.14	598.90	583.90	16.80	0.48	17.28	14.68	609.22	-0.14	25.44	Yes	
LRMW-11	10/11/2011	623.90	626.14	598.90	583.90	16.89	0.48	17.37	14.77	609.13	-0.09	25.35	Yes	
LRMW-11	10/21/2011	623.90	626.14	598.90	583.90	16.99	0.56	17.55	14.89	609.01	-0.12	25.25	Yes	
LRMW-11	10/27/2011	623.90	626.14	598.90	583.90	17.05	0.60	17.65	14.96	608.94	-0.07	25.19	Yes	
LRMW-11	11/3/2011	623.90	626.14	598.90	583.90	17.19	0.65	17.84	15.11	608.79	-0.15	25.05	Yes	
LRMW-11	11/9/2011	623.90	626.14	598.90	583.90	17.22	0.71	17.93	15.16	608.74	-0.05	25.02	Yes	
LRMW-11	11/17/2011	623.90	626.14	598.90	583.90	17.35	0.80	18.15	15.31	608.59	-0.15	24.89	Yes	
LRMW-11	11/22/2011	623.90	626.14	598.90	583.90	17.39	0.82	18.21	15.36	608.54	-0.05	24.85	Yes	
LRMW-11	12/1/2011	623.90	626.14	598.90	583.90	17.46	0.90	18.36	15.45	608.45	-0.09	24.78	Yes	
LRMW-11	1/4/2012	623.90	626.14	598.90	583.90	17.83	1.20	19.03	15.89	608.01	-0.45	24.41	Yes	
LRMW-11	2/16/2012	623.90	626.14	598.90	583.90	18.20	1.48	19.68	16.33	607.57	-0.44	24.04	Yes	
LRMW-11	3/13/2012	623.90	626.14	598.90	583.90	17.54	1.66	19.20	15.72	608.18	0.61	24.70	Yes	
LRMW-11	4/12/2012	623.90	626.14	598.90	583.90	16.90	1.80	18.70	15.11	608.79	0.60	25.34	Yes	Spill Buddy Before Reading
LRMW-11	4/16/2012	623.90	626.14	598.90	583.90	NP	0.00	16.69	14.45	609.45	0.66	25.55	Yes	
LRMW-11	5/18/2012	623.90	626.14	598.90	583.90	16.25	0.23	16.48	14.07	609.83	0.38	25.99	Yes	
LRMW-11	6/28/2012	623.90	626.14	598.90	583.90	13.60	0.30	13.90	11.44	612.46	2.63	28.64	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
LRMW-11	7/24/2012	623.90	626.14	598.90	583.90	15.96	0.42	16.38	13.83	610.07	-2.39	26.28	Yes	
LRMW-11	8/17/2012	623.90	626.14	598.90	583.90	16.60	0.53	17.13	14.49	609.41	-0.67	25.64	Yes	
LRMW-11	8/28/2012	623.90	626.14	598.90	583.90	16.96	0.58	17.54	14.87	609.03	-0.37	25.28	Yes	Spill Buddy Before Reading
LRMW-11	9/17/2012	623.90	626.14	598.90	583.90	17.65	0.04	17.69	15.42	608.48	-0.55	24.59	Yes	
LRMW-11	9/30/2012	623.90	626.14	598.90	583.90	17.88	0.21	18.09	15.69	608.21	-0.27	24.36	Yes	
LRMW-11	11/21/2012	623.90	626.14	598.90	583.90	18.04	0.52	18.56	15.93	607.97	-0.24	24.20	Yes	
LRMW-11	12/17/2012	623.90	626.14	598.90	583.90	18.10	0.64	18.74	16.02	607.88	-0.09	24.14	Yes	
LRMW-11	3/25/2013	623.90	626.14	598.90	583.90	18.60	0.98	19.58	16.61	607.29	-0.59	23.64	Yes	
LRMW-11	5/6/2013	623.90	626.14	598.90	583.90	15.56	1.02	16.58	13.58	610.32	3.03	26.68	Yes	
LRMW-11	10/3/2013	623.90	626.14	598.90	583.90	17.26	1.55	18.81	15.41	608.49	-1.83	24.98	Yes	
LRMW-11	5/22/2014	623.90	626.14	598.90	583.90	13.09	2.19	15.28	11.40	612.50	4.01	29.15	Yes	
LRMW-11	10/31/2014	623.90	626.14	598.90	583.90	15.54	2.77	18.31	13.99	609.91	-2.60	26.70	Yes	
LRMW-11	4/15/2015	623.90	626.14	598.90	583.90	16.15	3.20	19.35	14.71	609.19	-0.72	26.09	Yes	
LRMW-11	4/22/2015	623.90	626.14	598.90	583.90	16.18	0.24	16.42	14.00	609.90	0.71	26.06	Yes	
LRMW-11	4/29/2015	623.90	626.14	598.90	583.90	16.10	0.22	16.32	13.92	609.98	0.09	26.14	Yes	
LRMW-11	5/6/2015	623.90	626.14	598.90	583.90	16.19	0.21	16.40	14.00	609.90	-0.09	26.05	Yes	
LRMW-11	5/12/2015	623.90	626.14	598.90	583.90	15.57	0.21	15.78	13.38	610.52	0.62	26.67	Yes	
LRMW-11	6/9/2015	623.90	626.14	598.90	583.90	15.06	0.21	15.27	12.87	611.03	0.51	27.18	Yes	
LRMW-11	10/5/2015	623.90	626.14	598.90	583.90	15.43	0.30	15.73	13.27	610.63	-0.39	26.81	Yes	
LRMW-11	5/23/2016	623.90	626.14	598.90	583.90	14.59	0.58	15.17	12.50	611.40	0.77	27.65	Yes	
LRMW-11	10/3/2016	623.90	626.14	598.90	583.90	15.82	0.83	16.65	13.79	610.11	-1.29	26.42	Yes	
LRMW-11	5/22/2017	623.90	626.14	598.90	583.90	14.34	1.20	15.54	12.40	611.50	1.39	27.90	Yes	
LRMW-11	5/31/2017	623.90	626.14	598.90	583.90	13.34	1.22	14.56	11.41	612.49	0.99	28.90	Yes	
LRMW-11	6/22/2017	623.90	626.14	598.90	583.90	14.83	0.44	15.27	12.70	611.20	-1.29	27.41	Yes	
MWRR-1	10/22/2003	618.12	620.46	613.12	598.03	NP	0.00	14.22	11.88	606.24	NA	8.21	No	
MWRR-1	1/20/2004	618.12	620.46	613.12	598.03	NP	0.00	14.95	12.61	605.51	-0.73	7.48	No	
MWRR-1	4/19/2004	618.12	620.46	613.12	598.03	NP	0.00	12.30	9.96	608.16	2.65	10.13	No	
MWRR-1	7/27/2004	618.12	620.46	613.12	598.03	NP	0.00	12.89	10.55	607.57	-0.59	9.54	No	
MWRR-1	11/18/2004	618.12	620.46	613.12	598.03	NP	0.00	12.29	9.95	608.17	0.60	10.14	No	
MWRR-1	4/18/2005	618.12	620.46	613.12	598.03	NP	0.00	11.82	9.48	608.64	0.47	10.61	No	
MWRR-1	10/11/2005	618.12	620.46	613.12	598.03	NP	0.00	11.59	9.25	608.87	0.23	10.84	No	
MWRR-1	5/23/2006	618.12	620.46	613.12	598.03	NP	0.00	11.75	9.41	608.71	-0.16	10.68	No	
MWRR-1	10/16/2006	618.12	620.46	613.12	598.03	NP	0.00	13.93	11.59	606.53	-2.18	8.50	No	
MWRR-1	4/23/2007	618.12	620.46	613.12	598.03	NP	0.00	11.96	9.62	608.50	1.97	10.47	No	
MWRR-1	9/25/2007	618.12	620.29	613.12	598.03	NP	0.00	11.93	9.76	608.36	-0.14	10.33	No	
MWRR-1	5/1/2008	618.12	620.29	613.12	598.03	NP	0.00	11.17	9.00	609.12	0.76	11.09	No	
MWRR-1	10/20/2008	618.12	620.29	613.12	598.03	NP	0.00	11.42	9.25	608.87	-0.25	10.84	No	
MWRR-1	8/31/2011	618.12	620.29	613.12	598.03	NP	0.00	12.35	10.18	607.94	-0.93	9.91	No	
MWRR-1	10/11/2011	618.12	620.29	613.12	598.03	NP	0.00	13.36	11.19	606.93	-1.01	8.90	No	
MWRR-1	1/4/2012	618.12	620.29	613.12	598.03	NP	0.00	14.41	12.24	605.88	-1.05	7.85	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWRR-1	4/16/2012	618.12	620.29	613.12	598.03	NP	0.00	11.91	9.74	608.38	2.50	10.35	No	
MWRR-1	6/28/2012	618.12	620.29	613.12	598.03	NP	0.00	10.58	8.41	609.71	1.33	11.68	No	
MWRR-1	9/30/2012	618.12	620.29	613.12	598.03	NP	0.00	14.28	12.11	606.01	-3.70	7.98	No	
MWRR-1	12/17/2012	618.12	620.29	613.12	598.03	NP	0.00	14.27	12.10	606.02	0.01	7.99	No	
MWRR-1	3/25/2013	618.12	620.29	613.12	598.03	NP	0.00	14.95	12.78	605.34	-0.68	7.31	No	
MWRR-1	5/6/2013	618.12	620.29	613.12	598.03	NP	0.00	11.72	9.55	608.57	3.23	10.54	No	
MWRR-1	10/1/2013	618.12	620.29	613.12	598.03	NP	0.00	13.84	11.67	606.45	-2.12	8.42	No	
MWRR-1	5/21/2014	618.12	620.29	613.12	598.03	NP	0.00	10.54	8.37	609.75	3.30	11.72	No	
MWRR-1	10/31/2014	618.12	620.29	613.12	598.03	NP	0.00	12.42	10.25	607.87	-1.88	9.84	No	
MWRR-1	5/5/2015	618.12	620.29	613.12	598.03	NP	0.00	12.40	10.23	607.89	0.02	9.86	No	
MWRR-1	10/6/2015	618.12	620.29	613.12	598.03	NP	0.00	11.82	9.65	608.47	0.58	10.44	No	
MWRR-1	5/23/2016	618.12	620.29	613.12	598.03	NP	0.00	11.47	9.30	608.82	0.35	10.79	No	
MWRR-1	10/3/2016	618.12	620.29	613.12	598.03	NP	0.00	12.34	10.17	607.95	-0.87	9.92	No	
MWRR-1	6/29/2017	618.12	620.29	613.12	598.03	NP	0.00	11.09	8.92	609.20	1.25	11.17	No	
MWRR-2	10/22/2003	622.93	625.90	617.05	602.05	NP	0.00	18.77	15.80	607.13	NA	5.08	No	
MWRR-2	1/20/2004	622.93	625.90	617.05	602.05	NP	0.00	19.24	16.27	606.66	-0.47	4.61	No	
MWRR-2	4/19/2004	622.93	625.90	617.05	602.05	NP	0.00	16.92	13.95	608.98	2.32	6.93	No	
MWRR-2	7/27/2004	622.93	625.90	617.05	602.05	NP	0.00	17.25	14.28	608.65	-0.33	6.60	No	
MWRR-2	11/16/2004	622.93	625.90	617.05	602.05	NP	0.00	16.73	13.76	609.17	0.52	7.12	No	
MWRR-2	4/18/2005	622.93	625.90	617.05	602.05	NP	0.00	16.11	13.14	609.79	0.62	7.74	No	
MWRR-2	10/11/2005	622.93	625.90	617.05	602.05	NP	0.00	17.01	14.04	608.89	-0.90	6.84	No	
MWRR-2	5/23/2006	622.93	625.90	617.05	602.05	NP	0.00	16.03	13.06	609.87	0.98	7.82	No	
MWRR-2	10/16/2006	622.93	625.90	617.05	602.05	NP	0.00	18.47	15.50	607.43	-2.44	5.38	No	
MWRR-2	4/23/2007	622.93	625.90	617.05	602.05	NP	0.00	16.73	13.76	609.17	1.74	7.12	No	
MWRR-2	9/25/2007	622.93	625.73	617.05	602.05	NP	0.00	18.00	15.20	607.73	-1.44	5.68	No	
MWRR-2	5/1/2008	622.93	625.73	617.05	602.05	NP	0.00	15.14	12.34	610.59	2.86	8.54	No	
MWRR-2	10/20/2008	622.93	625.73	617.05	602.05	NP	0.00	16.21	13.41	609.52	-1.07	7.47	No	
MWRR-2	4/18/2009	622.93	625.73	617.05	602.05	NP	0.00	16.26	13.46	609.47	-0.05	7.42	No	
MWRR-2	10/11/2009	622.93	625.73	617.05	602.05	NP	0.00	18.11	15.31	607.62	-1.85	5.57	No	
MWRR-2	4/28/2010	622.93	625.73	617.05	602.05	NP	0.00	17.32	14.52	608.41	0.79	6.36	No	
MWRR-2	10/25/2010	622.93	625.73	617.05	602.05	NP	0.00	17.04	14.24	608.69	0.28	6.64	No	
MWRR-2	4/25/2011	622.93	625.73	617.05	602.05	NP	0.00	16.28	13.48	609.45	0.76	7.40	No	
MWRR-2	10/11/2011	622.93	625.73	617.05	602.05	NP	0.00	18.16	15.36	607.57	-1.88	5.52	No	
MWRR-2	1/4/2012	622.93	625.73	617.05	602.05	NP	0.00	19.08	16.28	606.65	-0.92	4.60	No	
MWRR-2	4/16/2012	622.93	625.73	617.05	602.05	NP	0.00	18.14	15.34	607.59	0.94	5.54	No	
MWRR-2	6/28/2012	622.93	625.73	617.05	602.05	NP	0.00	14.98	12.18	610.75	3.16	8.70	No	
MWRR-2	9/30/2012	622.93	625.73	617.05	602.05	NP	0.00	18.86	16.06	606.87	-3.88	4.82	No	
MWRR-2	12/17/2012	622.93	625.73	617.05	602.05	NP	0.00	19.20	16.40	606.53	-0.34	4.48	No	
MWRR-2	3/25/2013	622.93	625.73	617.05	602.05	NP	0.00	19.25	16.45	606.48	-0.05	4.43	No	
MWRR-2	5/6/2013	622.93	625.73	617.05	602.05	NP	0.00	16.39	13.59	609.34	2.86	7.29	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWRR-2	10/3/2013	622.93	625.73	617.05	602.05	NP	0.00	18.77	15.97	606.96	-2.38	4.91	No	
MWRR-2	5/21/2014	622.93	625.73	617.05	602.05	NP	0.00	14.40	11.60	611.33	4.37	9.28	No	
MWRR-2	10/31/2014	622.93	625.73	617.05	602.05	NP	0.00	17.55	14.75	608.18	-3.15	6.13	No	
MWRR-2	5/5/2015	622.93	625.73	617.05	602.05	NP	0.00	17.38	14.58	608.35	0.17	6.30	No	
MWRR-2	10/6/2015	622.93	625.73	617.05	602.05	NP	0.00	17.00	14.20	608.73	0.38	6.68	No	
MWRR-2	5/23/2016	622.93	625.73	617.05	602.05	NP	0.00	16.22	13.42	609.51	0.78	7.46	No	
MWRR-2	10/3/2016	622.93	625.73	617.05	602.05	NP	0.00	17.50	14.70	608.23	-1.28	6.18	No	
MWRR-2	6/29/2017	622.93	625.73	617.05	602.05	NP	0.00	16.55	13.75	609.18	0.95	7.13	No	
MWRR-4	10/21/2003	623.27	626.13	613.27	603.27	NP	0.00	18.85	15.99	607.28	NA	4.01	No	
MWRR-4	12/3/2003	623.27	626.13	613.27	603.27	18.65	1.45	20.10	16.09	607.18	-0.10	4.21	No	
MWRR-4	1/20/2004	623.27	626.13	613.27	603.27	18.97	2.50	21.47	16.62	606.65	-0.54	3.89	No	
MWRR-4	4/19/2004	623.27	626.13	613.27	603.27	NP	0.00	17.12	14.26	609.01	2.36	5.74	No	
MWRR-4	7/27/2004	623.27	626.13	613.27	603.27	17.06	0.10	17.16	14.22	609.05	0.04	5.80	No	
MWRR-4	11/15/2004	623.27	626.13	613.27	603.27	16.41	0.03	16.44	13.56	609.71	0.66	6.45	No	
MWRR-4	4/18/2005	623.27	626.13	613.27	603.27	16.26	0.01	16.27	13.40	609.87	0.15	6.60	No	
MWRR-4	10/11/2005	623.27	626.13	613.27	603.27	NP	0.00	16.71	13.85	609.42	-0.45	6.15	No	
MWRR-4	5/23/2006	623.27	626.13	613.27	603.27	NP	0.00	15.98	13.12	610.15	0.73	6.88	No	
MWRR-4	10/16/2006	623.27	626.13	613.27	603.27	18.29	0.94	19.23	15.62	607.65	-2.50	4.57	No	
MWRR-4	4/23/2007	623.27	626.13	613.27	603.27	NP	0.00	16.70	13.84	609.43	1.78	6.16	No	
MWRR-4	9/25/2007	623.27	626.13	613.27	603.27	NP	0.00	17.44	14.58	608.69	-0.74	5.42	No	
MWRR-4	5/1/2008	623.27	626.13	613.27	603.27	NP	0.00	15.77	12.91	610.36	1.67	7.09	No	
MWRR-4	10/20/2008	623.27	626.13	613.27	603.27	NP	0.00	16.09	13.23	610.04	-0.32	6.77	No	
MWRR-4	4/18/2009	623.27	626.13	613.27	603.27	NP	0.00	16.27	13.41	609.86	-0.18	6.59	No	
MWRR-4	10/11/2009	623.27	626.13	613.27	603.27	NP	0.00	18.00	15.14	608.13	-1.73	4.86	No	
MWRR-4	4/28/2010	623.27	626.13	613.27	603.27	NP	0.00	17.38	14.52	608.75	0.62	5.48	No	
MWRR-4	10/25/2010	623.27	626.13	613.27	603.27	NP	0.00	16.68	13.82	609.45	0.70	6.18	No	
MWRR-4	4/25/2011	623.27	626.13	613.27	603.27	NP	0.00	16.41	13.55	609.72	0.27	6.45	No	
MWRR-4	10/11/2011	623.27	626.13	613.27	603.27	NP	0.00	18.06	15.20	608.07	-1.65	4.80	No	
MWRR-4	1/4/2012	623.27	626.13	613.27	603.27	19.10	0.29	19.39	16.30	606.97	-1.10	3.76	No	
MWRR-4	4/16/2012	623.27	626.13	613.27	603.27	NP	0.00	18.04	15.18	608.09	1.12	4.82	No	
MWRR-4	6/28/2012	623.27	626.13	613.27	603.27	NP	0.00	15.12	12.26	611.01	2.92	7.74	No	
MWRR-4	9/30/2012	623.27	626.13	613.27	603.27	18.90	0.13	19.03	16.07	607.20	-3.81	3.96	No	
MWRR-4	12/17/2012	623.27	626.13	613.27	603.27	18.90	2.13	21.03	16.48	606.79	-0.41	3.96	No	
MWRR-4	3/25/2013	623.27	626.13	613.27	603.27	19.26	2.93	22.19	17.00	606.27	-0.52	3.60	No	
MWRR-4	5/6/2013	623.27	626.13	613.27	603.27	NP	0.00	16.67	13.81	609.46	3.19	6.19	No	
MWRR-4	10/3/2013	623.27	626.13	613.27	603.27	19.60	0.26	19.86	16.79	606.48	-2.98	3.26	No	
MWRR-4	5/22/2014	623.27	626.13	613.27	603.27	NP	0.00	14.85	11.99	611.28	4.80	8.01	No	
MWRR-4	10/31/2014	623.27	626.13	613.27	603.27	NP	0.00	17.27	14.41	608.86	-2.42	5.59	No	
MWRR-4	4/15/2015	623.27	626.13	613.27	603.27	NP	0.00	18.13	15.27	608.00	-0.86	4.73	No	
MWRR-4	4/22/2015	623.27	626.13	613.27	603.27	NP	0.00	17.44	14.58	608.69	0.69	5.42	No	

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Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWRR-4	4/29/2015	623.27	626.13	613.27	603.27	NP	0.00	17.12	14.26	609.01	0.32	5.74	No	
MWRR-4	5/6/2015	623.27	626.13	613.27	603.27	NP	0.00	17.27	14.41	608.86	-0.15	5.59	No	
MWRR-4	5/12/2015	623.27	626.13	613.27	603.27	NP	0.00	16.85	13.99	609.28	0.42	6.01	No	
MWRR-4	6/9/2015	623.27	626.13	613.27	603.27	NP	0.00	16.15	13.29	609.98	0.70	6.71	No	
MWRR-4	10/6/2015	623.27	626.13	613.27	603.27	NP	0.00	16.51	13.65	609.62	-0.36	6.35	No	
MWRR-4	5/23/2016	623.27	626.13	613.27	603.27	NP	0.00	15.82	12.96	610.31	0.69	7.04	No	
MWRR-4	10/3/2016	623.27	626.13	613.27	603.27	NP	0.00	17.04	14.18	609.09	-1.22	5.82	No	
MWRR-4	5/22/2017	623.27	626.13	613.27	603.27	NP	0.00	15.12	12.26	611.01	1.92	7.74	No	
MWRR-4	5/31/2017	623.27	626.13	613.27	603.27	NP	0.00	15.00	12.14	611.13	0.12	7.86	No	
MWRR-4	6/22/2017	623.27	626.13	613.27	603.27	NP	0.00	15.97	13.11	610.16	-0.97	6.89	No	
MWRR-8	10/22/2003	622.90	624.62	613.82	598.82	17.94	0.04	17.98	16.23	606.67	NA	7.86	No	
MWRR-8	1/20/2004	622.90	624.62	613.82	598.82	18.43	0.02	18.45	16.71	606.19	-0.49	7.37	No	
MWRR-8	4/19/2004	622.90	624.62	613.82	598.82	16.14	0.06	16.20	14.43	608.47	2.28	9.66	No	
MWRR-8	7/27/2004	622.90	624.62	613.82	598.82	16.37	0.23	16.60	14.69	608.21	-0.26	9.43	No	
MWRR-8	11/15/2004	622.90	624.62	613.82	598.82	15.74	0.01	15.75	14.02	608.88	0.67	10.06	No	
MWRR-8	4/18/2005	622.90	624.62	613.82	598.82	15.37	0.01	15.38	13.65	609.25	0.37	10.43	No	
MWRR-8	10/11/2005	622.90	624.62	613.82	598.82	15.77	0.04	15.81	14.06	608.84	-0.41	10.03	No	
MWRR-8	5/23/2006	622.90	624.62	613.82	598.82	15.34	0.02	15.36	13.62	609.28	0.43	10.46	No	
MWRR-8	10/16/2006	622.90	624.62	613.82	598.82	17.46	0.29	17.75	15.79	607.11	-2.17	8.34	No	
MWRR-8	4/23/2007	622.90	624.62	613.82	598.82	15.82	0.22	16.04	14.14	608.76	1.65	9.98	No	
MWRR-8	9/25/2007	622.90	624.45	613.82	598.82	17.32	0.60	17.92	15.88	607.02	-1.74	8.31	No	
MWRR-8	5/1/2008	622.90	624.45	613.82	598.82	14.56	0.09	14.65	13.03	609.87	2.86	11.07	No	
MWRR-8	10/20/2008	622.90	624.45	613.82	598.82	15.39	0.13	15.52	13.86	609.04	-0.84	10.24	No	
MWRR-8	4/18/2009	622.90	624.45	613.82	598.82	15.31	0.07	15.38	13.77	609.13	0.09	10.32	No	
MWRR-8	10/11/2009	622.90	624.45	613.82	598.82	16.98	0.52	17.50	15.53	607.37	-1.75	8.65	No	
MWRR-8	4/28/2010	622.90	624.45	613.82	598.82	16.34	0.45	16.79	14.87	608.03	0.65	9.29	No	
MWRR-8	10/25/2010	622.90	624.45	613.82	598.82	15.80	0.02	15.82	14.25	608.65	0.62	9.83	No	
MWRR-8	4/25/2011	622.90	624.45	613.82	598.82	15.38	0.07	15.45	13.84	609.06	0.41	10.25	No	
MWRR-8	10/11/2011	622.90	624.45	613.82	598.82	17.05	0.49	17.54	15.59	607.31	-1.75	8.58	No	
MWRR-8	1/4/2012	622.90	624.45	613.82	598.82	18.03	0.34	18.37	16.54	606.36	-0.95	7.60	No	
MWRR-8	4/16/2012	622.90	624.45	613.82	598.82	16.65	1.03	17.68	15.29	607.61	1.25	8.98	No	
MWRR-8	6/28/2012	622.90	624.45	613.82	598.82	14.43	0.36	14.79	12.95	609.95	2.35	11.20	No	
MWRR-8	7/26/2012	622.90	624.45	613.82	598.82	16.07	1.19	17.26	14.74	608.16	-1.80	9.56	No	Spill Buddy Before Reading
MWRR-8	8/28/2012	622.90	624.45	613.82	598.82	17.22	0.63	17.85	15.79	607.11	-1.04	8.41	No	Spill Buddy Before Reading
MWRR-8	9/28/2012	622.90	624.45	613.82	598.82	17.89	0.26	18.15	16.39	606.51	-0.60	7.74	No	Spill Buddy Before Reading
MWRR-8	9/30/2012	622.90	624.45	613.82	598.82	17.92	0.02	17.94	16.37	606.53	0.02	7.71	No	
MWRR-8	11/21/2012	622.90	624.45	613.82	598.82	17.98	0.15	18.13	16.46	606.44	-0.08	7.65	No	
MWRR-8	12/17/2012	622.90	624.45	613.82	598.82	17.98	0.20	18.18	16.47	606.43	-0.01	7.65	No	
MWRR-8	3/25/2013	622.90	624.45	613.82	598.82	18.09	1.28	19.37	16.78	606.12	-0.31	7.54	No	
MWRR-8	5/6/2013	622.90	624.45	613.82	598.82	15.39	0.63	16.02	13.96	608.94	2.82	10.24	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWRR-8	10/3/2013	622.90	624.45	613.82	598.82	17.44	1.06	18.50	16.09	606.81	-2.13	8.19	No	
MWRR-8	5/22/2014	622.90	624.45	613.82	598.82	13.92	0.72	14.64	12.51	610.39	3.58	11.71	No	
MWRR-8	6/18/2014	622.90	624.45	613.82	598.82	14.54	0.87	15.41	13.15	609.75	-0.65	11.09	No	
MWRR-8	10/31/2014	622.90	624.45	613.82	598.82	16.28	1.87	18.15	15.08	607.82	-1.93	9.35	No	
MWRR-8	4/15/2015	622.90	624.45	613.82	598.82	16.54	1.50	18.04	15.27	607.63	-0.19	9.09	No	
MWRR-8	4/22/2015	622.90	624.45	613.82	598.82	16.21	0.18	16.39	14.69	608.21	0.58	9.42	No	
MWRR-8	4/29/2015	622.90	624.45	613.82	598.82	16.07	0.21	16.28	14.56	608.34	0.13	9.56	No	
MWRR-8	5/6/2015	622.90	624.45	613.82	598.82	16.17	0.28	16.45	14.67	608.23	-0.11	9.46	No	
MWRR-8	5/12/2015	622.90	624.45	613.82	598.82	15.81	0.04	15.85	14.27	608.63	0.41	9.82	No	
MWRR-8	6/9/2015	622.90	624.45	613.82	598.82	15.43	0.05	15.48	13.89	609.01	0.38	10.20	No	
MWRR-8	10/5/2015	622.90	624.45	613.82	598.82	15.77	0.08	15.85	14.24	608.66	-0.35	9.86	No	
MWRR-8	5/23/2016	622.90	624.45	613.82	598.82	15.26	0.06	15.32	13.72	609.18	0.51	10.37	No	
MWRR-8	10/3/2016	622.90	624.45	613.82	598.82	16.27	0.38	16.65	14.79	608.11	-1.07	9.36	No	
MWRR-8	5/22/2017	622.90	624.45	613.82	598.82	14.04	0.00	14.04	12.49	610.41	2.30	11.59	No	
MWRR-8	5/31/2017	622.90	624.45	613.82	598.82	14.12	0.04	14.16	12.58	610.32	-0.09	11.51	No	
MWRR-8	6/22/2017	622.90	624.45	613.82	598.82	15.43	0.19	15.62	13.92	608.98	-1.34	10.20	No	
MWOW-1	10/21/2003	607.38	610.16	604.38	599.38	5.58	0.17	5.75	2.83	604.55	NA	5.20	Yes	
MWOW-1	1/20/2004	607.38	610.16	604.38	599.38	6.11	0.24	6.35	3.37	604.01	-0.54	4.67	No	
MWOW-1	4/19/2004	607.38	610.16	604.38	599.38	4.27	0.13	4.40	1.51	605.87	1.86	6.51	Yes	
MWOW-1	7/27/2004	607.38	610.16	604.38	599.38	5.01	0.20	5.21	2.26	605.12	-0.75	5.77	Yes	
MWOW-1	11/15/2004	607.38	610.16	604.38	599.38	4.53	0.31	4.84	1.80	605.58	0.46	6.25	Yes	
MWOW-1	4/18/2005	607.38	610.16	604.38	599.38	4.33	0.31	4.64	1.60	605.78	0.20	6.45	Yes	
MWOW-1	10/11/2005	607.38	610.16	604.38	599.38	4.29	0.25	4.54	1.55	605.83	0.05	6.49	Yes	
MWOW-1	5/23/2006	607.38	610.16	604.38	599.38	4.61	0.35	4.96	1.89	605.49	-0.34	6.17	Yes	
MWOW-1	10/16/2006	607.38	610.16	604.38	599.38	5.06	0.02	5.08	2.28	605.10	-0.40	5.72	Yes	
MWOW-1	4/23/2007	607.38	610.16	604.38	599.38	NP	0.00	4.10	1.32	606.06	0.96	6.68	Yes	
MWOW-1	9/25/2007	607.38	609.99	604.38	599.38	4.25	0.02	4.27	1.64	605.74	-0.32	6.36	Yes	
MWOW-1	5/1/2008	607.38	609.99	604.38	599.38	4.31	0.05	4.36	1.71	605.67	-0.06	6.30	Yes	
MWOW-1	10/20/2008	607.38	609.99	604.38	599.38	4.28	0.74	5.02	1.79	605.59	-0.08	6.33	Yes	
MWOW-1	4/18/2009	607.38	609.99	604.38	599.38	4.42	0.26	4.68	1.85	605.53	-0.06	6.19	Yes	
MWOW-1	10/11/2009	607.38	609.99	604.38	599.38	5.64	0.03	5.67	3.03	604.35	-1.18	4.97	No	
MWOW-1	4/28/2010	607.38	609.99	604.38	599.38	4.85	0.54	5.39	2.33	605.05	0.71	5.76	Yes	
MWOW-1	10/25/2010	607.38	609.99	604.38	599.38	4.32	0.66	4.98	1.82	605.56	0.51	6.29	Yes	
MWOW-1	4/25/2011	607.38	609.99	604.38	599.38	4.48	0.71	5.19	1.99	605.39	-0.17	6.13	Yes	
MWOW-1	10/11/2011	607.38	609.99	604.38	599.38	5.99	0.14	6.13	3.40	603.98	-1.42	4.62	No	
MWOW-1	1/4/2012	607.38	609.99	604.38	599.38	6.61	0.31	6.92	4.05	603.33	-0.65	4.00	No	
MWOW-1	4/16/2012	607.38	609.99	604.38	599.38	4.59	0.26	4.85	2.02	605.36	2.03	6.02	Yes	
MWOW-1	6/28/2012	607.38	609.99	604.38	599.38	4.70	0.40	5.10	2.16	605.22	-0.13	5.91	Yes	
MWOW-1	7/26/2012	607.38	609.99	604.38	599.38	5.79	0.21	6.00	3.21	604.17	-1.06	4.82	No	Spill Buddy Before Reading
MWOW-1	8/28/2012	607.38	609.99	604.38	599.38	6.64	0.21	6.85	4.06	603.32	-0.85	3.97	No	Spill Buddy Before Reading

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWOW-1	9/28/2012	607.38	609.99	604.38	599.38	7.15	0.22	7.37	4.58	602.80	-0.51	3.46	No	Spill Buddy Before Reading
MWOW-1	9/30/2012	607.38	609.99	604.38	599.38	7.14	0.16	7.30	4.56	602.82	0.02	3.47	No	
MWOW-1	11/21/2012	607.38	609.99	604.38	599.38	NP	0.00	6.33	3.72	603.66	0.84	4.28	No	
MWOW-1	12/17/2012	607.38	609.99	604.38	599.38	NP	0.00	6.14	3.53	603.85	0.19	4.47	No	
MWOW-1	3/25/2013	607.38	609.99	604.38	599.38	NP	0.00	6.48	3.87	603.51	-0.34	4.13	No	
MWOW-1	5/6/2013	607.38	609.99	604.38	599.38	4.70	0.05	4.75	2.10	605.28	1.77	5.91	Yes	
MWOW-1	10/3/2013	607.38	609.99	604.38	599.38	NP	0.00	6.51	3.90	603.48	-1.80	4.10	No	
MWOW-1	5/21/2014	607.38	609.99	604.38	599.38	NP	0.00	4.75	2.14	605.24	1.76	5.86	Yes	
MWOW-1	7/30/2014	607.38	609.99	604.38	599.38	6.00	0.01	6.01	3.39	603.99	-1.25	4.61	No	
MWOW-1	10/31/2014	607.38	609.99	604.38	599.38	5.50	0.03	5.53	2.89	604.49	0.50	5.11	Yes	
MWOW-1	4/15/2015	607.38	609.99	604.38	599.38	4.93	0.05	4.98	2.33	605.05	0.57	5.68	Yes	
MWOW-1	4/22/2015	607.38	609.99	604.38	599.38	4.70	0.03	4.73	2.09	605.29	0.23	5.91	Yes	
MWOW-1	4/29/2015	607.38	609.99	604.38	599.38	4.86	0.01	4.87	2.25	605.13	-0.16	5.75	Yes	
MWOW-1	5/6/2015	607.38	609.99	604.38	599.38	5.03	0.01	5.04	2.42	604.96	-0.17	5.58	Yes	
MWOW-1	5/12/2015	607.38	609.99	604.38	599.38	NP	0.00	4.78	2.17	605.21	0.25	5.83	Yes	
MWOW-1	6/9/2015	607.38	609.99	604.38	599.38	NP	0.00	5.02	2.41	604.97	-0.24	5.59	Yes	
MWOW-1	10/6/2015	607.38	609.99	604.38	599.38	5.19	0.09	5.28	2.59	604.79	-0.18	5.42	Yes	
MWOW-1	5/23/2016	607.38	609.99	604.38	599.38	5.39	0.10	5.49	2.80	604.58	-0.20	5.22	Yes	
MWOW-1	10/3/2016	607.38	609.99	604.38	599.38	5.41	0.13	5.54	2.82	604.56	-0.02	5.20	Yes	
MWOW-1	5/22/2017	607.38	609.99	604.38	599.38	4.89	0.07	4.96	2.29	605.09		5.72	Yes	
MWOW-1	5/31/2017	607.38	609.99	604.38	599.38	5.03	0.09	5.12	2.43	604.95		5.58	Yes	
MWOW-1	6/22/2017	607.38	609.99	604.38	599.38	5.64	0.10	5.74	3.05	604.33		4.97	No	
MWOW-2	10/21/2003	607.81	610.22	604.24	599.24	NP	0.00	5.01	2.60	605.21	NA	5.97	Yes	
MWOW-2	1/20/2004	607.81	610.22	604.24	599.24	NP	0.00	5.81	3.40	604.41	-0.80	5.17	Yes	
MWOW-2	4/19/2004	607.81	610.22	604.24	599.24	NP	0.00	3.34	0.93	606.88	2.47	7.64	Yes	
MWOW-2	7/27/2004	607.81	610.22	604.24	599.24	NP	0.00	4.28	1.87	605.94	-0.94	6.70	Yes	
MWOW-2	11/18/2004	607.81	610.22	604.24	599.24	NP	0.00	3.60	1.19	606.62	0.68	7.38	Yes	
MWOW-2	4/18/2005	607.81	610.22	604.24	599.24	NP	0.00	3.43	1.02	606.79	0.17	7.55	Yes	
MWOW-2	10/11/2005	607.81	610.22	604.24	599.24	NP	0.00	3.17	0.76	607.05	0.26	7.81	Yes	
MWOW-2	5/23/2006	607.81	610.22	604.24	599.24	NP	0.00	3.65	1.24	606.57	-0.48	7.33	Yes	
MWOW-2	10/16/2006	607.81	610.22	604.24	599.24	NP	0.00	4.98	2.57	605.24	-1.33	6.00	Yes	
MWOW-2	4/23/2007	607.81	610.22	604.24	599.24	NP	0.00	3.69	1.28	606.53	1.29	7.29	Yes	
MWOW-2	9/25/2007	607.81	609.88	604.24	599.24	NP	0.00	3.35	1.28	606.53	0.00	7.29	Yes	
MWOW-2	5/1/2008	607.81	609.88	604.24	599.24	NP	0.00	4.96	2.89	604.92	-1.61	5.68	Yes	
MWOW-2	10/20/2008	607.81	609.88	604.24	599.24	NP	0.00	5.05	2.98	604.83	-0.09	5.59	Yes	
MWOW-2	8/31/2011	607.81	609.88	604.24	599.24	NP	0.00	5.93	3.86	603.95	-0.88	4.71	No	
MWOW-2	10/11/2011	607.81	609.88	604.24	599.24	NP	0.00	5.68	3.61	604.20	0.25	4.96	No	
MWOW-2	1/4/2012	607.81	609.88	604.24	599.24	NP	0.00	5.22	3.15	604.66	0.46	5.42	Yes	
MWOW-2	4/16/2012	607.81	609.88	604.24	599.24	NP	0.00	2.69	0.62	607.19	2.53	7.95	Yes	
MWOW-2	6/28/2012	607.81	609.88	604.24	599.24	NP	0.00	2.32	0.25	607.56	0.37	8.32	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWOW-2	9/30/2012	607.81	609.88	604.24	599.24	NP	0.00	5.32	3.25	604.56	-3.00	5.32	Yes	
MWOW-2	12/17/2012	607.81	609.88	604.24	599.24	NP	0.00	4.79	2.72	605.09	0.53	5.85	Yes	
MWOW-2	3/25/2013	607.81	609.88	604.24	599.24	NP	0.00	19.25	17.18	590.63	-14.46	-8.61	No	
MWOW-2	5/6/2013	607.81	609.88	604.24	599.24	NP	0.00	2.86	0.79	607.02	16.39	7.78	Yes	
MWOW-2	10/1/2013	607.81	609.88	604.24	599.24	NP	0.00	4.63	2.56	605.25	-1.77	6.01	Yes	
MWOW-2	5/20/2014	607.81	609.88	604.24	599.24	NP	0.00	2.06	-0.01	607.82	2.57	8.58	Yes	
MWOW-2	10/31/2014	607.81	609.88	604.24	599.24	NP	0.00	3.58	1.51	606.30	-1.52	7.06	Yes	
MWOW-2	5/4/2015	607.81	609.88	604.24	599.24	NP	0.00	3.65	1.58	606.23	-0.07	6.99	Yes	
MWOW-2	10/6/2015	607.81	609.88	604.24	599.24	NP	0.00	3.38	1.31	606.50	0.27	7.26	Yes	
MWOW-2	5/23/2016	607.81	609.88	604.24	599.24	NP	0.00	3.50	1.43	606.38	-0.12	7.14	Yes	
MWOW-2	10/3/2016	607.81	609.88	604.24	599.24	NP	0.00	3.85	1.78	606.03	-0.35	6.79	Yes	
MWOW-2	6/29/2017	607.81	609.88	604.24	599.24	NP	0.00	3.02	0.95	606.86	0.83	7.62	Yes	
MWOW-3	10/21/2003	622.65	625.53	616.73	601.73	NP	0.00	18.89	16.01	606.64	NA	4.91	No	
MWOW-3	1/20/2004	622.65	625.53	616.73	601.73	NP	0.00	19.38	16.50	606.15	-0.49	4.42	No	
MWOW-3	4/19/2004	622.65	625.53	616.73	601.73	NP	0.00	17.06	14.18	608.47	2.32	6.74	No	
MWOW-3	7/27/2004	622.65	625.53	616.73	601.73	NP	0.00	17.56	14.68	607.97	-0.50	6.24	No	
MWOW-3	11/16/2004	622.65	625.53	616.73	601.73	NP	0.00	17.04	14.16	608.49	0.52	6.76	No	
MWOW-3	4/18/2005	622.65	625.53	616.73	601.73	NP	0.00	16.33	13.45	609.20	0.71	7.47	No	
MWOW-3	10/11/2005	622.65	625.53	616.73	601.73	NP	0.00	16.86	13.98	608.67	-0.53	6.94	No	
MWOW-3	5/23/2006	622.65	625.53	616.73	601.73	NP	0.00	16.55	13.67	608.98	0.31	7.25	No	
MWOW-3	10/16/2006	622.65	625.53	616.73	601.73	NP	0.00	18.56	15.68	606.97	-2.01	5.24	No	
MWOW-3	4/23/2007	622.65	625.53	616.73	601.73	NP	0.00	16.89	14.01	608.64	1.67	6.91	No	
MWOW-3	9/25/2007	622.65	625.36	616.73	601.73	NP	0.00	17.34	14.63	608.02	-0.62	6.29	No	
MWOW-3	5/1/2008	622.65	625.36	616.73	601.73	NP	0.00	15.57	12.86	609.79	1.77	8.06	No	
MWOW-3	10/20/2008	622.65	625.36	616.73	601.73	NP	0.00	16.51	13.80	608.85	-0.94	7.12	No	
MWOW-3	4/18/2009	622.65	625.36	616.73	601.73	NP	0.00	16.42	13.71	608.94	0.09	7.21	No	
MWOW-3	10/11/2009	622.65	625.36	616.73	601.73	NP	0.00	18.13	15.42	607.23	-1.71	5.50	No	
MWOW-3	4/28/2010	622.65	625.36	616.73	601.73	NP	0.00	17.48	14.77	607.88	0.65	6.15	No	
MWOW-3	10/25/2010	622.65	625.36	616.73	601.73	NP	0.00	16.48	13.77	608.88	1.00	7.15	No	
MWOW-3	4/25/2011	622.65	625.36	616.73	601.73	NP	0.00	16.05	13.34	609.31	0.43	7.58	No	
MWOW-3	10/11/2011	622.65	625.36	616.73	601.73	NP	0.00	19.29	16.58	606.07	-3.24	4.34	No	
MWOW-3	1/4/2012	622.65	625.36	616.73	601.73	NP	0.00	19.13	16.42	606.23	0.16	4.50	No	
MWOW-3	4/16/2012	622.65	625.36	616.73	601.73	NP	0.00	17.76	15.05	607.60	1.37	5.87	No	
MWOW-3	6/28/2012	622.65	625.36	616.73	601.73	NP	0.00	15.72	13.01	609.64	2.04	7.91	No	
MWOW-3	9/30/2012	622.65	625.36	616.73	601.73	NP	0.00	19.03	16.32	606.33	-3.31	4.60	No	
MWOW-3	12/17/2012	622.65	625.36	616.73	601.73	NP	0.00	19.02	16.31	606.34	0.01	4.61	No	
MWOW-3	3/25/2013	622.65	625.36	616.73	601.73	NP	0.00	19.20	16.49	606.16	-0.18	4.43	No	
MWOW-3	5/6/2013	622.65	625.36	616.73	601.73	NP	0.00	16.62	13.91	608.74	2.58	7.01	No	
MWOW-3	10/1/2013	622.65	625.36	616.73	601.73	NP	0.00	18.84	16.13	606.52	-2.22	4.79	No	
MWOW-3	5/21/2014	622.65	625.36	616.73	601.73	NP	0.00	15.25	12.54	610.11	3.59	8.38	No	

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MWOW-3	7/30/2014	622.65	625.36	616.73	601.73	NP	0.00	17.64	14.93	607.72	-2.39	5.99	No	
MWOW-3	10/31/2014	622.65	625.36	616.73	601.73	NP	0.00	17.76	15.05	607.60	-0.12	5.87	No	
MWOW-3	4/15/2015	622.65	625.36	616.73	601.73	NP	0.00	17.98	15.27	607.38	-0.22	5.65	No	
MWOW-3	4/22/2015	622.65	625.36	616.73	601.73	NP	0.00	17.34	14.63	608.02	0.64	6.29	No	
MWOW-3	4/29/2015	622.65	625.36	616.73	601.73	NP	0.00	17.34	14.63	608.02	0.00	6.29	No	
MWOW-3	5/5/2015	622.65	625.36	616.73	601.73	NP	0.00	17.51	14.80	607.85	-0.17	6.12	No	
MWOW-3	5/12/2015	622.65	625.36	616.73	601.73	NP	0.00	16.92	14.21	608.44	0.59	6.71	No	
MWOW-3	6/9/2015	622.65	625.36	616.73	601.73	NP	0.00	16.79	14.08	608.57	0.13	6.84	No	
MWOW-3	10/6/2015	622.65	625.36	616.73	601.73	NP	0.00	17.27	14.56	608.09	-0.48	6.36	No	
MWOW-3	5/24/2016	622.65	625.36	616.73	601.73	NP	0.00	16.69	13.98	608.67	0.58	6.94	No	
MWOW-3	10/3/2016	622.65	625.36	616.73	601.73	NP	0.00	17.65	14.94	607.71	-0.96	5.98	No	
MWOW-3	5/22/2017	622.65	625.36	616.73	601.73	NP	0.00	15.21	12.50	610.15	2.44	8.42	No	
MWOW-3	5/31/2017	622.65	625.36	616.73	601.73	NP	0.00	15.35	12.64	610.01	-0.14	8.28	No	
MWOW-3	6/22/2017	622.65	625.36	616.73	601.73	NP	0.00	16.89	14.18	608.47	-1.54	6.74	No	
MWOW-5	10/21/2003	622.52	625.13	615.43	600.43	18.23	0.08	18.31	15.63	606.89	NA	6.47	No	
MWOW-5	1/20/2004	622.52	625.13	615.43	600.43	18.88	0.21	18.89	16.10	606.42	-0.47	6.02	No	
MWOW-5	4/19/2004	622.52	625.13	615.43	600.43	NP	0.00	14.66	12.05	610.47	4.05	10.04	No	
MWOW-5	7/27/2004	622.52	625.13	615.43	600.43	NP	0.00	14.61	12.00	610.52	0.05	10.09	No	
MWOW-5	11/15/2004	622.52	625.13	615.43	600.43	15.89	0.01	15.90	13.28	609.24	-1.28	8.81	No	
MWOW-5	4/18/2005	622.52	625.13	615.43	600.43	14.16	0.03	14.19	11.55	610.97	1.73	10.54	No	
MWOW-5	10/11/2005	622.52	625.13	615.43	600.43	NP	0.00	14.54	11.93	610.59	-0.38	10.16	No	
MWOW-5	5/23/2006	622.52	625.13	615.43	600.43	14.16	0.03	14.19	11.55	610.97	0.38	10.54	No	
MWOW-5	10/16/2006	622.52	625.13	615.43	600.43	17.36	0.10	17.46	14.77	607.75	-3.21	7.34	No	
MWOW-5	4/23/2007	622.52	625.13	615.43	600.43	13.34	0.02	13.36	10.73	611.79	4.03	11.36	No	
MWOW-5	9/25/2007	622.52	624.96	615.43	600.43	16.95	0.07	17.02	14.52	608.00	-3.79	7.58	No	
MWOW-5	5/1/2008	622.52	624.96	615.43	600.43	16.23	0.07	16.30	13.80	608.72	0.72	8.30	No	
MWOW-5	10/20/2008	622.52	624.96	615.43	600.43	12.80	0.05	12.85	10.37	612.15	3.43	11.73	No	
MWOW-5	4/18/2009	622.52	624.96	615.43	600.43	14.15	0.06	14.21	11.72	610.80	-1.35	10.38	No	
MWOW-5	10/11/2009	622.52	624.96	615.43	600.43	16.46	0.18	16.64	14.05	608.47	-2.33	8.07	No	
MWOW-5	4/28/2010	622.52	624.96	615.43	600.43	14.59	0.09	14.68	12.16	610.36	1.88	9.94	No	
MWOW-5	10/25/2010	622.52	624.96	615.43	600.43	15.41	0.07	15.48	12.98	609.54	-0.82	9.12	No	
MWOW-5	4/25/2011	622.52	624.96	615.43	600.43	13.22	0.08	13.30	10.79	611.73	2.19	11.31	No	
MWOW-5	10/11/2011	622.52	624.96	615.43	600.43	13.22	1.08	14.30	10.95	611.57	-0.16	11.31	No	
MWOW-5	1/4/2012	622.52	624.96	615.43	600.43	18.60	0.50	19.10	16.24	606.28	-5.29	5.93	No	
MWOW-5	4/16/2012	622.52	624.96	615.43	600.43	15.82	0.07	15.89	13.39	609.13	2.85	8.71	No	
MWOW-5	6/28/2012	622.52	624.96	615.43	600.43	13.69	0.06	13.75	11.26	611.26	2.13	10.84	No	
MWOW-5	7/26/2012	622.52	624.96	615.43	600.43	16.19	0.12	16.31	13.77	608.75	-2.51	8.34	No	Spill Buddy Before Reading
MWOW-5	8/28/2012	622.52	624.96	615.43	600.43	17.45	0.35	17.80	15.07	607.45	-1.30	7.08	No	Spill Buddy Before Reading
MWOW-5	9/28/2012	622.52	624.96	615.43	600.43	18.15	0.27	18.42	15.75	606.77	-0.69	6.38	No	Spill Buddy Before Reading
MWOW-5	9/30/2012	622.52	624.96	615.43	600.43	18.04	0.15	18.19	15.62	606.90	0.13	6.49	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MWOW-5	11/21/2012	622.52	624.96	615.43	600.43	18.20	0.19	18.39	15.79	606.73	-0.17	6.33	No	
MWOW-5	12/17/2012	622.52	624.96	615.43	600.43	18.17	0.16	18.33	15.76	606.76	0.03	6.36	No	
MWOW-5	3/25/2013	622.52	624.96	615.43	600.43	17.85	0.23	18.08	15.45	607.07	0.31	6.68	No	
MWOW-5	5/6/2013	622.52	624.96	615.43	600.43	14.42	0.07	14.49	11.99	610.53	3.46	10.11	No	
MWOW-5	10/3/2013	622.52	624.96	615.43	600.43	17.87	0.15	18.02	15.45	607.07	-3.46	6.66	No	
MWOW-5	5/22/2014	622.52	624.96	615.43	600.43	13.07	0.04	13.11	10.64	611.88	4.82	11.46	No	
MWOW-5	6/18/2014	622.52	624.96	615.43	600.43	14.02	0.05	14.07	11.59	610.93	-0.95	10.51	No	
MWOW-5	10/31/2014	622.52	624.96	615.43	600.43	16.84	0.01	16.85	14.40	608.12	-2.81	7.69	No	
MWOW-5	4/15/2015	622.52	624.96	615.43	600.43	NP	0.00	16.61	14.17	608.35	0.23	7.92	No	
MWOW-5	4/22/2015	622.52	624.96	615.43	600.43	NP	0.00	15.93	13.49	609.03	0.68	8.60	No	
MWOW-5	4/29/2015	622.52	624.96	615.43	600.43	NP	0.00	15.64	13.20	609.32	0.29	8.89	No	
MWOW-5	5/6/2015	622.52	624.96	615.43	600.43	15.72	0.01	15.73	13.28	609.24	-0.08	8.81	No	
MWOW-5	5/12/2015	622.52	624.96	615.43	600.43	NP	0.00	15.29	12.85	609.67	0.43	9.24	No	
MWOW-5	6/9/2015	622.52	624.96	615.43	600.43	14.57	0.02	14.59	12.13	610.39	0.72	9.96	No	
MWOW-5	10/5/2015	622.52	624.96	615.43	600.43	15.39	0.02	15.41	12.95	609.57	-0.82	9.14	No	
MWOW-5	5/23/2016	622.52	624.96	615.43	600.43	14.61	0.02	14.63	12.17	610.35	0.78	9.92	No	
MWOW-5	10/3/2016	622.52	624.96	615.43	600.43	NP	0.00	17.29	14.85	607.67	-2.68	7.24	No	
MWOW-5	5/22/2017	622.52	624.96	615.43	600.43	14.76	0.03	14.79	12.32	610.20	2.53	9.77	No	
MWOW-5	5/31/2017	622.52	624.96	615.43	600.43	13.30	0.10	13.40	10.88	611.64	1.45	11.23	No	
MWOW-5	6/22/2017	622.52	624.96	615.43	600.43	15.02	0.07	15.09	12.59	609.93	-1.72	9.51	No	
RWAST-1	10/11/2009	628.35	629.81	618.35	598.35	NP	0.00	15.02	13.56	614.79	NA	16.44	No	
RWAST-1	4/28/2010	628.35	629.81	618.35	598.35	NP	0.00	14.68	13.22	615.13	0.34	16.78	No	
RWAST-1	10/25/2010	628.35	629.81	618.35	598.35	NP	0.00	12.79	11.33	617.02	1.89	18.67	No	
RWAST-1	4/25/2011	628.35	629.81	618.35	598.35	NP	0.00	13.29	11.83	616.52	-0.50	18.17	No	
RWAST-1	10/11/2011	628.35	629.81	618.35	598.35	NP	0.00	14.31	12.85	615.50	-1.02	17.15	No	
RWAST-1	1/4/2012	628.35	629.81	618.35	598.35	NP	0.00	15.79	14.33	614.02	-1.48	15.67	No	
RWAST-1	2/16/2012	628.35	629.81	618.35	598.35	NP	0.00	16.47	15.01	613.34	-0.68	14.99	No	
RWAST-1	3/13/2012	628.35	629.81	618.35	598.35	NP	0.00	16.54	15.08	613.27	-0.07	14.92	No	
RWAST-1	4/16/2012	628.35	629.81	618.35	598.35	NP	0.00	15.86	14.40	613.95	0.68	15.60	No	
RWAST-1	6/28/2012	628.35	629.81	618.35	598.35	NP	0.00	11.30	9.84	618.51	4.56	20.16	Yes	
RWAST-1	9/30/2012	628.35	629.81	618.35	598.35	NP	0.00	15.49	14.03	614.32	-4.19	15.97	No	
RWAST-1	11/21/2012	628.35	629.81	618.35	598.35	NP	0.00	15.96	14.50	613.85	-0.47	15.50	No	
RWAST-1	12/17/2012	628.35	629.81	618.35	598.35	NP	0.00	16.22	14.76	613.59	-0.26	15.24	No	
RWAST-1	3/25/2013	628.35	629.81	618.35	598.35	NP	0.00	17.26	15.80	612.55	-1.04	14.20	No	
RWAST-1	5/6/2013	628.35	629.81	618.35	598.35	NP	0.00	15.23	13.77	614.58	2.03	16.23	No	
RWAST-1	5/23/2016	628.35	629.81	618.35	598.35	NP	0.00	11.08	9.62	618.73	4.15	20.38	Yes	
RWAST-1	10/3/2016	628.35	629.81	618.35	598.35	NP	0.00	12.91	11.45	616.90	-1.83	18.55	No	
RWAST-1	6/29/2017	628.35	629.81	618.35	598.35	NP	0.00	11.91	10.45	617.90	1.00	19.55	No	
RWAST-2	10/11/2011	629.37	631.54	615.37	600.37	NP	0.00	15.58	13.41	615.96	NA	15.59	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
RWAST-2	1/4/2012	629.37	631.54	615.37	600.37	NP	0.00	17.19	15.02	614.35	-1.61	13.98	No	
RWAST-2	2/16/2012	629.37	631.54	615.37	600.37	NP	0.00	17.89	15.72	613.65	-0.70	13.28	No	
RWAST-2	3/13/2012	629.37	631.54	615.37	600.37	17.99	0.43	18.42	15.91	613.46	-0.19	13.18	No	
RWAST-2	4/16/2012	629.37	631.54	615.37	600.37	16.46	3.70	20.16	15.08	614.29	0.83	14.71	No	
RWAST-2	6/28/2012	629.37	631.54	615.37	600.37	11.79	3.75	15.54	10.43	618.94	4.66	19.38	Yes	
RWAST-2	7/3/2012	629.37	631.54	615.37	600.37	12.38	3.73	16.11	11.01	618.36	-0.59	18.79	Yes	Spill Buddy Before Reading
RWAST-2	8/28/2012	629.37	631.54	615.37	600.37	15.95	0.04	15.99	13.79	615.58	-2.78	15.22	Yes	
RWAST-2	9/28/2012	629.37	631.54	615.37	600.37	16.83	0.06	16.89	14.67	614.70	-0.88	14.34	No	Spill Buddy Before Reading
RWAST-2	9/30/2012	629.37	631.54	615.37	600.37	16.83	0.01	16.84	14.66	614.71	0.01	14.34	No	
RWAST-2	11/21/2012	629.37	631.54	615.37	600.37	17.44	0.33	17.77	15.34	614.03	-0.68	13.73	No	
RWAST-2	12/17/2012	629.37	631.54	615.37	600.37	17.44	1.90	19.34	15.68	613.69	-0.34	13.73	No	
RWAST-2	3/25/2013	629.37	631.54	615.37	600.37	17.21	6.31	23.52	16.40	612.97	-0.72	13.96	No	
RWAST-2	4/29/2013	629.37	631.54	615.37	600.37	15.79	5.31	21.10	14.76	614.61	1.63	15.38	No	Spill Buddy Before Reading
RWAST-2	5/6/2013	629.37	631.54	615.37	600.37	16.37	1.99	18.36	14.63	614.74	0.13	14.80	No	
RWAST-2	10/3/2013	629.37	631.54	615.37	600.37	16.51	2.61	19.12	14.90	614.47	-0.27	14.66	No	
RWAST-2	5/22/2014	629.37	631.54	615.37	600.37	12.14	3.59	15.73	10.74	618.63	4.16	19.03	Yes	
RWAST-2	10/31/2014	629.37	631.54	615.37	600.37	14.23	3.55	17.78	12.82	616.55	-2.08	16.94	Yes	
RWAST-2	4/15/2015	629.37	631.54	615.37	600.37	15.98	5.64	21.62	15.02	614.35	-2.20	15.19	No	
RWAST-2	4/22/2015	629.37	631.54	615.37	600.37	16.04	3.13	19.17	14.54	614.83	0.48	15.13	No	
RWAST-2	4/29/2015	629.37	631.54	615.37	600.37	15.26	2.07	17.33	13.53	615.84	1.01	15.91	Yes	
RWAST-2	5/6/2015	629.37	631.54	615.37	600.37	16.22	0.93	17.15	14.25	615.12	-0.72	14.95	No	
RWAST-2	5/12/2015	629.37	631.54	615.37	600.37	15.76	1.14	16.90	13.83	615.54	0.41	15.41	Yes	
RWAST-2	6/9/2015	629.37	631.54	615.37	600.37	14.60	0.25	14.85	12.48	616.89	1.35	16.57	Yes	
RWAST-2	7/10/2015	629.37	631.54	615.37	600.37	15.33	0.06	15.39	13.17	616.20	-0.69	15.84	Yes	
RWAST-2	7/13/2015	629.37	631.54	615.37	600.37	15.25	0.09	15.34	13.10	616.27	0.07	15.92	Yes	
RWAST-2	7/15/2015	629.37	631.54	615.37	600.37	15.42	0.03	15.45	13.26	616.11	-0.16	15.75	Yes	
RWAST-2	7/17/2015	629.37	631.54	615.37	600.37	15.35	0.04	15.39	13.19	616.18	0.07	15.82	Yes	
RWAST-2	7/18/2015	629.37	631.54	615.37	600.37	15.38	0.03	15.41	13.22	616.15	-0.03	15.79	Yes	
RWAST-2	7/21/2015	629.37	631.54	615.37	600.37	15.60	0.04	15.64	13.44	615.93	-0.22	15.57	Yes	
RWAST-2	7/22/2015	629.37	631.54	615.37	600.37	15.65	0.04	15.69	13.49	615.88	-0.05	15.52	Yes	
RWAST-2	7/23/2015	629.37	631.54	615.37	600.37	15.70	0.06	15.76	13.54	615.83	-0.05	15.47	Yes	
RWAST-2	7/25/2015	629.37	631.54	615.37	600.37	15.78	0.01	15.79	13.61	615.76	-0.07	15.39	Yes	
RWAST-2	7/27/2015	629.37	631.54	615.37	600.37	15.87	0.02	15.89	13.70	615.67	-0.09	15.30	Yes	
RWAST-2	7/24/2015	629.37	631.54	615.37	600.37	15.64	0.02	15.66	13.47	615.90	0.23	15.53	Yes	
RWAST-2	7/31/2015	629.37	631.54	615.37	600.37	16.01	0.01	16.02	13.84	615.53	-0.37	15.16	Yes	
RWAST-2	8/4/2015	629.37	631.54	615.37	600.37	16.16	0.01	16.17	13.99	615.38	-0.15	15.01	Yes	
RWAST-2	8/7/2015	629.37	631.54	615.37	600.37	16.13	0.01	16.14	13.96	615.41	0.03	15.04	Yes	
RWAST-2	8/12/2015	629.37	631.54	615.37	600.37	16.13	0.00	16.13	13.96	615.41	0.00	15.04	Yes	
RWAST-2	8/14/2015	629.37	631.54	615.37	600.37	16.18	0.00	16.18	14.01	615.36	-0.05	14.99	No	
RWAST-2	8/15/2015	629.37	631.54	615.37	600.37	16.18	0.03	16.21	14.02	615.35	-0.01	14.99	No	
RWAST-2	8/17/2015	629.37	631.54	615.37	600.37	16.26	0.01	16.27	14.09	615.28	-0.08	14.91	No	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
RWAST-2	9/10/2015	629.37	631.54	615.37	600.37	NP	0.00	15.67	13.50	615.87	0.59	15.50	Yes	
RWAST-2	9/14/2015	629.37	631.54	615.37	600.37	NP	0.00	15.73	13.56	615.81	-0.06	15.44	Yes	
RWAST-2	9/24/2015	629.37	631.54	615.37	600.37	NP	0.00	15.06	12.89	616.48	0.67	16.11	Yes	
RWAST-2	10/1/2015	629.37	631.54	615.37	600.37	NP	0.00	14.73	12.56	616.81	0.33	16.44	Yes	
RWAST-2	10/5/2015	629.37	631.54	615.37	600.37	NP	0.00	14.70	12.53	616.84	1.56	16.47	Yes	
RWAST-2	10/29/2015	629.37	631.54	615.37	600.37	NP	0.00	15.07	12.90	616.47	-0.37	16.10	Yes	
RWAST-2	11/3/2015	629.37	631.54	615.37	600.37	NP	0.00	14.90	12.73	616.64	0.17	16.27	Yes	
RWAST-2	4/21/2016	629.37	631.54	615.37	600.37	NP	0.00	12.26	10.09	619.28	2.64	18.91	Yes	
RWAST-2	4/27/2016	629.37	631.54	615.37	600.37	NP	0.00	11.31	9.14	620.23	0.95	19.86	Yes	
RWAST-2	5/18/2016	629.37	631.54	615.37	600.37	NP	0.00	12.19	10.02	619.35	-0.88	18.98	Yes	
RWAST-2	5/23/2016	629.37	631.54	615.37	600.37	NP	0.00	12.35	10.18	619.19	-0.16	18.82	Yes	
RWAST-2	5/31/2016	629.37	631.54	615.37	600.37	NP	0.00	12.41	10.24	619.13	-0.06	18.76	Yes	
RWAST-2	6/14/2016	629.37	631.54	615.37	600.37	NP	0.00	12.21	10.04	619.33	0.20	18.96	Yes	
RWAST-2	6/21/2016	629.37	631.54	615.37	600.37	NP	0.00	11.76	9.59	619.78	0.45	19.41	Yes	
RWAST-2	7/21/2016	629.37	631.54	615.37	600.37	NP	0.00	12.50	10.33	619.04	-0.74	18.67	Yes	
RWAST-2	7/25/2016	629.37	631.54	615.37	600.37	NP	0.00	12.94	10.77	618.60	-0.44	18.23	Yes	
RWAST-2	9/2/2016	629.37	631.54	615.37	600.37	NP	0.00	14.28	12.11	617.26	-1.34	16.89	Yes	
RWAST-2	10/3/2016	629.37	631.54	615.37	600.37	NP	0.00	14.42	12.25	617.12	-0.14	16.75	Yes	
RWAST-2	10/13/2016	629.37	631.54	615.37	600.37	NP	0.00	14.68	12.51	616.86	-0.26	16.49	Yes	
RWAST-2	5/18/2017	629.37	631.54	615.37	600.37	NP	0.00	12.63	10.46	618.91	2.05	18.54	Yes	
RWAST-2	5/31/2017	629.37	631.54	615.37	600.37	NP	0.00	11.11	8.94	620.43	1.52	20.06	Yes	
RW-08	09/10/15	631.12	630.82	621.12	601.12	NP	0.00	14.93	15.23	615.89			No	
RW-08	09/14/15	631.12	630.82	621.12	601.12	NP	0.00	14.79	15.09	616.03			No	
RW-08	10/01/15	631.12	630.82	621.12	601.12	NP	0.00	14.01	14.31	616.81			No	
RW-08	10/05/15	631.12	630.82	621.12	601.12	NP	0.00	13.88	14.18	616.94			No	
RW-08	04/11/16	631.12	630.82	621.12	601.12	NP	0.00	12.29	12.59	618.53			No	
RW-08	05/23/16	631.12	630.82	621.12	601.12	NP	0.00	11.74	12.04	619.08			No	
RW-08	10/03/16	631.12	630.82	621.12	601.12	13.43	0.09	13.52	13.75	617.37			No	
RW-08	05/02/17	631.12	630.82	621.12	601.12	NP	0.00	12.71	13.01	618.11			No	
RW-08	05/18/17	631.12	630.82	621.12	601.12	NP	0.00	12.33	12.63	618.49			No	
RW-08	05/22/17	631.12	630.82	621.12	601.12	10.45	0.51	10.96	10.87	620.25			No	
RW-08	05/25/17	631.12	630.82	621.12	601.12	NP	0.00	10.75	11.05	620.07			No	
RW-08	05/31/17	631.12	630.82	621.12	601.12	NP	0.00	10.73	11.03	620.09			No	
RW-09	09/10/15	631.17	631.02	621.17	601.17	NP	0.00	15.28	15.43	615.74			No	
RW-09	09/14/15	631.17	631.02	621.17	601.17	NP	0.00	15.18	15.33	615.84			No	
RW-09	10/01/15	631.17	631.02	621.17	601.17	NP	0.00	14.40	14.55	616.62			No	
RW-09	10/05/15	631.17	631.02	621.17	601.17	NP	0.00	14.30	14.45	616.72			No	
RW-09	04/11/16	631.17	631.02	621.17	601.17	13.66	1.66	15.32	14.18	616.99			No	
RW-09	05/23/16	631.17	631.02	621.17	601.17	11.15	5.13	16.28	12.46	618.71			No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
RW-09	07/15/16	631.17	631.02	621.17	601.17	11.94	0.24	12.18	12.14	619.03			No	
RW-09	07/21/16	631.17	631.02	621.17	601.17	11.97	0.30	12.27	12.19	618.98			No	
RW-09	07/25/16	631.17	631.02	621.17	601.17	12.18	0.44	12.62	12.43	618.74			No	
RW-09	08/01/16	631.17	631.02	621.17	601.17	12.63	1.22	13.85	13.06	618.11			No	
RW-09	08/09/16	631.17	631.02	621.17	601.17	12.79	1.36	14.15	13.25	617.92			No	
RW-09	08/18/16	631.17	631.02	621.17	601.17	13.23	0.16	13.39	13.42	617.75			No	
RW-09	08/29/16	631.17	631.02	621.17	601.17	13.59	0.35	13.94	13.82	617.35			No	
RW-09	09/02/16	631.17	631.02	621.17	601.17	13.76	0.02	13.78	13.91	617.26			No	
RW-09	09/20/16	631.17	631.02	621.17	601.17	13.26	0.74	14.00	13.58	617.59			No	
RW-09	10/03/16	631.17	631.02	621.17	601.17	13.60	0.94	14.54	13.96	617.21			No	
RW-09	10/06/16	631.17	631.02	621.17	601.17	13.80	1.01	14.81	14.18	616.99			No	
RW-09	10/13/16	631.17	631.02	621.17	601.17	13.86	1.03	14.89	14.24	616.93			No	
RW-09	05/02/17	631.17	631.02	621.17	601.17	12.94	0.70	13.64	13.25	617.92			No	
RW-09	05/18/17	631.17	631.02	621.17	601.17	12.39	0.29	12.68	12.61	618.56			No	
RW-09	05/22/17	631.17	631.02	621.17	601.17	NP	0.00	10.96	11.11	620.06			No	
RW-09	05/25/17	631.17	631.02	621.17	601.17	10.81	0.26	11.07	11.02	620.15			No	
RW-09	05/31/17	631.17	631.02	621.17	601.17	10.81	0.24	11.05	11.01	620.16			No	
MRW-1	2/19/2003	626.10	630.41	610.10	605.10	17.39	0.13	17.52	13.11	612.99	NA	7.92	Yes	
MRW-1	3/13/2003	626.10	630.41	610.10	605.10	17.72	0.11	17.83	13.43	612.67	-0.33	7.59	Yes	
MRW-1	4/9/2003	626.10	630.41	610.10	605.10	17.55	0.02	17.57	13.24	612.86	0.19	7.76	Yes	
MRW-1	4/18/2003	626.10	630.41	610.10	605.10	17.55	0.04	17.59	13.25	612.85	0.00	7.76	Yes	
MRW-1	4/25/2003	626.10	630.41	610.10	605.10	17.1	0.04	17.14	12.80	613.30	0.45	8.21	Yes	
MRW-1	5/15/2003	626.10	630.41	610.10	605.10	16.45	0.20	16.65	12.18	613.92	0.62	8.86	Yes	
MRW-1	6/10/2003	626.10	630.41	610.10	605.10	16.11	0.18	16.29	11.84	614.26	0.34	9.20	Yes	
MRW-1	7/2/2003	626.10	630.41	610.10	605.10	15.74	0.42	16.16	11.52	614.58	0.32	9.57	Yes	
MRW-1	7/7/2003	626.10	630.41	610.10	605.10	15.65	0.70	16.35	11.49	614.61	0.03	9.66	Yes	
MRW-1	7/30/2003	626.10	630.41	610.10	605.10	15.73	0.70	16.43	11.57	614.53	-0.08	9.58	Yes	
MRW-1	8/12/2003	626.10	630.41	610.10	605.10	16.24	0.98	17.22	12.14	613.96	-0.57	9.07	Yes	
MRW-1	9/8/2003	626.10	630.41	610.10	605.10	16.1	4.80	20.90	12.82	613.28	-0.68	9.21	Yes	
MRW-1	10/2/2003	626.10	630.41	610.10	605.10	16.97	0.15	17.12	12.69	613.41	0.13	8.34	Yes	
MRW-1	10/20/2003	626.10	630.41	610.10	605.10	17.02	0.13	17.15	12.74	613.36	-0.05	8.29	Yes	
MRW-1	12/3/2003	626.10	630.41	610.10	605.10	17.54	0.04	17.58	13.24	612.86	-0.50	7.77	Yes	
MRW-1	1/8/2004	626.10	630.41	610.10	605.10	17.93	0.48	18.41	13.72	612.38	-0.48	7.38	Yes	
MRW-1	1/20/2004	626.10	630.41	610.10	605.10	18.05	0.28	18.33	13.80	612.30	-0.08	7.26	Yes	
MRW-1	2/24/2004	626.10	630.41	610.10	605.10	18.42	0.02	18.44	14.11	611.99	-0.31	6.89	Yes	
MRW-1	3/22/2004	626.10	630.41	610.10	605.10	18.04	0.05	18.09	13.74	612.36	0.37	7.27	Yes	
MRW-1	4/19/2004	626.10	630.41	610.10	605.10	16.9	0.12	17.02	12.62	613.48	1.12	8.41	Yes	
MRW-1	5/18/2004	626.10	630.41	610.10	605.10	16.27	0.09	16.36	11.98	614.12	0.64	9.04	Yes	
MRW-1	6/17/2004	626.10	630.41	610.10	605.10	15.4	0.10	15.50	11.11	614.99	0.87	9.91	Yes	
MRW-1	6/28/2004	626.10	630.41	610.10	605.10	15.96	0.03	15.99	11.66	614.44	-0.54	9.35	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-1	7/27/2004	626.10	630.41	610.10	605.10	15.98	0.07	16.05	11.69	614.41	-0.03	9.33	Yes	
MRW-1	8/24/2004	626.10	630.41	610.10	605.10	16.03	0.84	16.87	11.90	614.20	-0.22	9.28	Yes	
MRW-1	9/8/2004	626.10	630.41	610.10	605.10	15.9	0.61	16.51	11.72	614.38	0.18	9.41	Yes	
MRW-1	9/9/2004	626.10	630.41	610.10	605.10	15.87	0.24	16.11	11.61	614.49	0.11	9.44	Yes	
MRW-1	9/28/2004	626.10	630.41	610.10	605.10	15.14	0.26	15.40	10.89	615.21	0.73	10.17	Yes	
MRW-1	10/20/2004	626.10	630.41	610.10	605.10	15.58	0.01	15.59	11.27	614.83	-0.39	9.73	Yes	
MRW-1	11/23/2004	626.10	630.41	610.10	605.10	15.04	0.71	15.75	10.88	615.22	0.39	10.27	Yes	
MRW-1	1/5/2005	626.10	630.41	610.10	605.10	15.94	0.74	16.68	11.79	614.31	-0.91	9.37	Yes	
MRW-1	2/26/2005	626.10	630.41	610.10	605.10	16.76	0.16	16.92	12.48	613.62	-0.70	8.55	Yes	
MRW-1	3/29/2005	626.10	630.41	610.10	605.10	NP	0.00							
MRW-1	4/29/2005	626.10	630.41	610.10	605.10	14.87	0.40	15.27	10.65	615.45	1.84	10.44	Yes	
MRW-1	5/31/2005	626.10	630.41	610.10	605.10	14.22	0.34	14.56	9.98	616.12	0.66	11.09	Yes	
MRW-1	6/28/2005	626.10	630.41	610.10	605.10	13.63	0.38	14.01	9.40	616.70	0.58	11.68	Yes	
MRW-1	7/28/2005	626.10	630.41	610.10	605.10	14.88	0.44	15.32	10.66	615.44	-1.26	10.43	Yes	
MRW-1	8/11/2005	626.10	630.41	610.10	605.10	15.39	0.12	15.51	11.11	614.99	-0.44	9.92	Yes	
MRW-1	9/1/2005	626.10	630.41	610.10	605.10	16.12	0.26	16.38	11.87	614.23	-0.76	9.19	Yes	
MRW-1	9/16/2005	626.10	630.41	610.10	605.10	16.23	0.19	16.42	11.96	614.14	-0.09	9.08	Yes	
MRW-1	10/6/2005	626.10	630.41	610.10	605.10	14.63	0.21	14.84	10.37	615.73	1.60	10.68	Yes	
MRW-1	10/24/2005	626.10	630.41	610.10	605.10	14.61	0.18	14.79	10.34	615.76	0.03	10.70	Yes	
MRW-1	11/23/2005	626.10	630.41	610.10	605.10	13.99	0.12	14.11	9.71	616.39	0.63	11.32	Yes	
MRW-1	12/14/2005	626.10	630.41	610.10	605.10	14.37	0.17	14.54	10.10	616.00	-0.39	10.94	Yes	
MRW-1	1/5/2006	626.10	630.41	610.10	605.10	15.05	0.93	15.98	10.94	615.16	-0.84	10.26	Yes	
MRW-1	1/19/2006	626.10	630.41	610.10	605.10	14.75	1.50	16.25	10.76	615.34	0.18	10.56	Yes	
MRW-1	1/30/2006	626.10	630.41	610.10	605.10	14.51	3.46	17.97	10.94	615.16	-0.18	10.80	Yes	
MRW-1	1/31/2006	626.10	630.41	610.10	605.10	14.4	3.57	17.97	10.86	615.24	0.09	10.91	Yes	
MRW-1	2/3/2006	626.10	630.41	610.10	605.10	15.26	0.27	15.53	11.01	615.09	-0.15	10.05	Yes	
MRW-1	2/9/2006	626.10	630.41	610.10	605.10	15.22	0.22	15.44	10.96	615.14	0.05	10.09	Yes	
MRW-1	2/16/2006	626.10	630.41	610.10	605.10	15.69	0.16	15.85	11.41	614.69	-0.46	9.62	Yes	
MRW-1	2/28/2006	626.10	630.41	610.10	605.10	15.92	0.38	16.30	11.69	614.41	-0.28	9.39	Yes	
MRW-1	3/16/2006	626.10	630.41	610.10	605.10	15.86	0.47	16.33	11.65	614.45	0.04	9.45	Yes	
MRW-1	3/27/2006	626.10	630.41	610.10	605.10	15.37	0.33	15.70	11.13	614.97	0.52	9.94	Yes	
MRW-1	4/14/2006	626.10	630.41	610.10	605.10	14.48	0.39	14.87	10.25	615.85	0.88	10.83	Yes	
MRW-1	5/6/2006	626.10	630.41	610.10	605.10	14.4	0.32	14.72	10.16	615.94	0.10	10.91	Yes	
MRW-1	6/1/2006	626.10	630.41	610.10	605.10	13.64	0.36	14.00	9.41	616.69	0.75	11.67	Yes	
MRW-1	6/29/2006	626.10	630.41	610.10	605.10	14.9	0.49	15.39	10.70	615.40	-1.29	10.41	Yes	
MRW-1	7/17/2006	626.10	630.41	610.10	605.10	15.77	0.36	16.13	11.54	614.56	-0.84	9.54	Yes	
MRW-1	8/24/2006	626.10	630.41	610.10	605.10	16.13	0.16	16.29	11.85	614.25	-0.32	9.18	Yes	
MRW-1	9/1/2006	626.10	630.41	610.10	605.10	16.12	0.26	16.38	11.87	614.23	-0.01	9.19	Yes	
MRW-1	9/14/2006	626.10	630.41	610.10	605.10	NP	0.00	16.77	12.46	613.64	-0.59	8.54	Yes	
MRW-1	9/16/2006	626.10	630.41	610.10	605.10	16.23	0.19	16.42	11.96	614.14	0.50	9.08	Yes	
MRW-1	9/28/2006	626.10	630.41	610.10	605.10	16.44	0.24	16.68	12.18	613.92	-0.22	8.87	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-1	11/2/2006	626.10	630.41	610.10	605.10	16.63	0.29	16.92	12.38	613.72	-0.20	8.68	Yes	
MRW-1	11/21/2006	626.10	630.41	610.10	605.10	16.58	0.17	16.75	12.31	613.79	0.08	8.73	Yes	
MRW-1	12/14/2006	626.10	630.41	610.10	605.10	16.46	0.36	16.82	12.23	613.87	0.08	8.85	Yes	
MRW-1	12/28/2006	626.10	630.41	610.10	605.10	16.89	1.12	18.01	12.82	613.28	-0.59	8.42	Yes	
MRW-1	1/4/2007	626.10	630.41	610.10	605.10	16.15	0.70	16.85	11.99	614.11	0.83	9.16	Yes	
MRW-1	1/18/2007	626.10	630.41	610.10	605.10	16.74	0.24	16.98	12.48	613.62	-0.49	8.57	Yes	
MRW-1	2/1/2007	626.10	630.41	610.10	605.10	17.22	0.20	17.42	12.95	613.15	-0.47	8.09	Yes	
MRW-1	2/22/2007	626.10	630.41	610.10	605.10	17.84	0.26	18.10	13.59	612.51	-0.63	7.47	Yes	
MRW-1	3/15/2007	626.10	630.41	610.10	605.10	17.64	0.21	17.85	13.38	612.72	0.21	7.67	Yes	
MRW-1	3/29/2007	626.10	630.41	610.10	605.10	17.07	0.25	17.32	12.81	613.29	0.56	8.24	Yes	
MRW-1	4/13/2007	626.10	630.41	610.10	605.10	16.35	0.23	16.58	12.09	614.01	0.72	8.96	Yes	
MRW-1	4/29/2007	626.10	630.41	610.10	605.10	15.59	0.31	15.90	11.35	614.75	0.74	9.72	Yes	
MRW-1	5/10/2007	626.10	630.41	610.10	605.10	15.7	0.28	15.98	11.45	614.65	-0.10	9.61	Yes	
MRW-1	11/21/2012	626.10	630.41	610.10	605.10	16.97	0.18	17.15	12.70	613.40	-1.25	8.34	Yes	Pump currently Shut Down
MRW-1	12/17/2012	626.10	630.41	610.10	605.10	17.15	0.21	17.36	12.89	613.21	-0.19	8.16	Yes	Pump currently Shut Down
Well connected to Barge Dock Skimmer system														
MRW-1	3/25/2013	626.10	630.41	610.10	605.10	18.24	0.15	18.39	13.96	612.14	-1.08	7.07	Yes	
MRW-1	5/6/2013	626.10	630.41	610.10	605.10	15.73	0.13	15.86	11.45	614.65	2.51	9.58	Yes	
MRW-1	5/5/2014	626.10	630.41	610.10	605.10	13.2	0.15	13.35	8.92	617.18	2.53	12.11	Yes	
MRW-1	7/14/2014	626.10	630.41	610.10	605.10	13.48	0.17	13.65	9.21	616.89	-0.28	11.83	Yes	
MRW-1	7/18/2014	626.10	630.41	610.10	605.10	13.75	0.13	13.88	9.47	616.63	-0.26	11.56	Yes	
MRW-1	7/23/2014	626.10	630.41	610.10	605.10	14.14	0.13	14.27	9.86	616.24	-0.39	11.17	Yes	
MRW-1	9/4/2014	626.10	630.41	610.10	605.10	12.56	0.34	12.90	8.32	617.78	1.53	12.75	Yes	
MRW-1	2/19/2015	626.10	630.41	610.10	605.10	16.47	0.20	16.67	12.20	613.90	-3.88	8.84	Yes	
MRW-1	4/13/2015	626.10	630.41	610.10	605.10	16.7	0.24	16.94	12.44	613.66	-0.24	8.61	Yes	
MRW-1	4/17/2015	626.10	630.41	610.10	605.10	16.4	0.15	16.55	12.12	613.98	0.32	8.91	Yes	
MRW-1	4/24/2015	626.10	630.41	610.10	605.10	15.89	0.14	16.03	11.61	614.49	0.51	9.42	Yes	
MRW-1	4/28/2015	626.10	630.41	610.10	605.10	15.72	0.14	15.86	11.44	614.66	0.17	9.59	Yes	
MRW-1	4/13/2015	626.10	630.41	610.10	605.10	16.7	0.24	16.94	12.44	613.66	-1.00	8.61	Yes	
MRW-1	4/17/2015	626.10	630.41	610.10	605.10	16.4	0.15	16.55	12.12	613.98	0.32	8.91	Yes	
MRW-1	4/22/2015	626.10	630.41	610.10	605.10	15.99	0.12	16.11	11.71	614.39	0.42	9.32	Yes	
MRW-1	4/28/2015	626.10	630.41	610.10	605.10	15.72	0.14	15.86	11.44	614.66	0.27	9.59	Yes	
MRW-1	5/5/2015	Pulled and removed pumps - system shut down - moved to bailing wells												
MRW-1	5/9/2015	626.10	630.41	610.10	605.10	15.63	0.12	15.75	11.35	614.75	0.09	9.68	Yes	Bailed 1 Cup
MRW-1	5/12/2015	626.10	630.41	610.10	605.10	15.13	0.13	15.26	10.85	615.25	0.50	10.18	Yes	
MRW-1	5/15/2015	626.10	630.41	610.10	605.10	14.54	0.11	14.65	10.25	615.85	0.59	10.77	Yes	Bailed <0.25 gallons
MRW-1	5/22/2015	626.10	630.41	610.10	605.10	14.1	0.14	14.24	9.82	616.28	0.43	11.21	Yes	Bailed <0.25 gallons
MRW-1	5/28/2015	626.10	630.41	610.10	605.10	13.86	0.12	13.98	9.58	616.52	0.24	11.45	Yes	Bailed <0.25 gallons
MRW-1	6/5/2015	626.10	630.41	610.10	605.10	14.16	0.16	14.32	9.88	616.22	-0.31	11.15	Yes	Bailed <0.25 gallons
MRW-1	6/9/2015	626.10	630.41	610.10	605.10	14.01	0.13	14.14	9.73	616.37	0.16	11.30	Yes	Bailed <0.25 gallons
MRW-1	6/13/2015	626.10	630.41	610.10	605.10	14.45	0.11	14.56	10.16	615.94	-0.44	10.86	Yes	Bailed <0.25 gallons (trace)

Table 3
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Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-1	6/19/2015	626.10	630.41	610.10	605.10	14.81	0.12	14.93	10.53	615.57	-0.36	10.50	Yes	Bailed a trace amount of LNAPL
MRW-1	6/25/2015	626.10	630.41	610.10	605.10	14.75	0.11	14.86	10.46	615.64	0.06	10.56	Yes	Bailed a trace amount of LNAPL
MRW-1	7/2/2015	626.10	630.41	610.10	605.10	14.98	0.08	15.06	10.69	615.41	-0.22	10.33	Yes	Bailed a trace amount of LNAPL
MRW-1	7/7/2015	626.10	630.41	610.10	605.10	14.71	0.10	14.81	10.42	615.68	0.27	10.60	Yes	No LNAPL bailed
MRW-1	7/13/2015	626.10	630.41	610.10	605.10	14.56	0.10	14.66	10.27	615.83	0.15	10.75	Yes	No LNAPL bailed
MRW-1	7/21/2015	626.10	630.41	610.10	605.10	15.12	0.10	15.22	10.83	615.27	-0.56	10.19	Yes	
MRW-1	7/27/2015	626.10	630.41	610.10	605.10	15.53	0.09	15.62	11.24	614.86	-0.41	9.78	Yes	
MRW-1	7/31/2015	626.10	630.41	610.10	605.10	15.72	0.09	15.81	11.43	614.67	-0.19	9.59	Yes	
MRW-1	8/7/2015	626.10	630.41	610.10	605.10	15.68	0.09	15.77	11.39	614.71	0.04	9.63	Yes	
MRW-1	8/14/2015	626.10	630.41	610.10	605.10	15.71	0.08	15.79	11.42	614.68	-0.03	9.60	Yes	
MRW-1	8/24/2015	626.10	630.41	610.10	605.10	15.21	0.09	15.30	10.92	615.18	0.50	10.10	Yes	
MRW-1	9/10/2015	626.10	630.41	610.10	605.10	14.86	0.10	14.96	10.57	615.53	0.35	10.45	Yes	
MRW-1	9/24/2015	626.10	630.41	610.10	605.10	14.15	0.09	14.24	9.86	616.24	0.71	11.16	Yes	
MRW-1	10/1/2015	626.10	630.41	610.10	605.10	13.96	0.10	14.06	9.67	616.43	0.19	11.35	Yes	
MRW-1	10/29/2015	626.10	630.41	610.10	605.10	14.34	0.10	14.44	10.05	616.05	0.52	10.97	Yes	
MRW-1	11/3/2015	626.10	630.41	610.10	605.10	14.21	0.12	14.33	9.93	616.17	0.13	11.10	Yes	
MRW-1	10/3/2016	626.10	630.41	610.10	605.10	14.06	0.09	14.15	9.77	616.33	0.16	11.25	Yes	
MRW-1	5/2/2017	626.10	630.41	610.10	605.10	12.44	0.11	12.55	8.15	617.95	1.62	12.87	Yes	
MRW-1	5/22/2017	626.10	630.41	610.10	605.10	11.13	0.06	11.19	6.83	619.27	1.32	14.18	Yes	
MRW-1	5/31/2017	626.10	630.41	610.10	605.10	11.21	0.07	11.28	6.92	619.18	-0.08	14.10	Yes	
MRW-1	5/2/2017	626.10	630.41	610.10	605.10	12.44	0.11	12.55	8.15	617.95		12.87	Yes	
MRW-1	5/22/2017	626.10	630.41	610.10	605.10	11.13	0.06	11.19	6.83	619.27		14.18	Yes	
MRW-1	5/31/2017	626.10	630.41	610.10	605.10	11.21	0.07	11.28	6.92	619.18		14.10	Yes	
MRW-2	2/19/2003	627.00	630.85	610.00	605.00	NP	0.00	17.38	13.53	613.47	NA	8.47	Yes	
MRW-2	3/13/2003	627.00	630.85	610.00	605.00	NP	0.00	17.71	13.86	613.14	-0.33	8.14	Yes	
MRW-2	4/9/2003	627.00	630.85	610.00	605.00	17.45	0.37	17.82	13.68	613.32	0.18	8.40	Yes	
MRW-2	4/18/2003	627.00	630.85	610.00	605.00	17.4	0.50	17.90	13.66	613.34	0.02	8.45	Yes	
MRW-2	4/25/2003	627.00	630.85	610.00	605.00	16.97	0.91	17.88	13.32	613.68	0.34	8.88	Yes	
MRW-2	5/15/2003	627.00	630.85	610.00	605.00	16.56	0.24	16.80	12.76	614.24	0.55	9.29	Yes	
MRW-2	6/10/2003	627.00	630.85	610.00	605.00	16.18	0.07	16.25	12.35	614.65	0.42	9.67	Yes	
MRW-2	7/2/2003	627.00	630.85	610.00	605.00	15.87	0.18	16.05	12.06	614.94	0.29	9.98	Yes	
MRW-2	7/7/2003	627.00	630.85	610.00	605.00	15.88	0.15	16.03	12.06	614.94	0.00	9.97	Yes	
MRW-2	7/30/2003	627.00	630.85	610.00	605.00	15.87	0.41	16.28	12.11	614.89	-0.05	9.98	Yes	
MRW-2	8/12/2003	627.00	630.85	610.00	605.00	16.21	1.09	17.30	12.59	614.41	-0.49	9.64	Yes	
MRW-2	9/8/2003	627.00	630.85	610.00	605.00	16.57	2.51	19.08	13.26	613.74	-0.67	9.28	Yes	
MRW-2	10/2/2003	627.00	630.85	610.00	605.00	17.04	0.51	17.55	13.30	613.70	-0.04	8.81	Yes	
MRW-2	10/20/2003	627.00	630.85	610.00	605.00	17.16	0.25	17.41	13.36	613.64	-0.06	8.69	Yes	
MRW-2	12/3/2003	627.00	630.85	610.00	605.00	17.24	1.12	18.36	13.63	613.37	-0.27	8.61	Yes	
MRW-2	1/8/2004	627.00	630.85	610.00	605.00	17.31	3.02	20.33	14.11	612.89	-0.48	8.54	Yes	
MRW-2	1/20/2004	627.00	630.85	610.00	605.00	17.67	1.70	19.37	14.19	612.81	-0.08	8.18	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-2	2/24/2004	627.00	630.85	610.00	605.00	18.16	1.22	19.38	14.57	612.43	-0.39	7.69	Yes	
MRW-2	3/22/2004	627.00	630.85	610.00	605.00	17.94	0.72	18.66	14.24	612.76	0.33	7.91	Yes	
MRW-2	4/19/2004	627.00	630.85	610.00	605.00	16.77	1.38	18.15	13.22	613.78	1.03	9.08	Yes	
MRW-2	5/18/2004	627.00	630.85	610.00	605.00	16.39	0.41	16.80	12.63	614.37	0.59	9.46	Yes	
MRW-2	6/17/2004	627.00	630.85	610.00	605.00	15.18	1.38	16.56	11.63	615.37	1.00	10.67	Yes	
MRW-2	6/28/2004	627.00	630.85	610.00	605.00	15.91	0.60	16.51	12.19	614.81	-0.56	9.94	Yes	
MRW-2	7/27/2004	627.00	630.85	610.00	605.00	15.72	1.16	16.88	12.12	614.88	0.07	10.13	Yes	
MRW-2	8/24/2004	627.00	630.85	610.00	605.00	16.14	0.42	16.56	12.38	614.62	-0.26	9.71	Yes	
MRW-2	9/8/2004	627.00	630.85	610.00	605.00	15.99	0.45	16.44	12.24	614.76	0.14	9.86	Yes	
MRW-2	9/9/2004	627.00	630.85	610.00	605.00	15.95	0.23	16.18	12.15	614.85	0.09	9.90	Yes	
MRW-2	9/28/2004	627.00	630.85	610.00	605.00	15.17	0.51	15.68	11.43	615.57	0.72	10.68	Yes	
MRW-2	10/20/2004	627.00	630.85	610.00	605.00	15.61	0.02	15.63	11.76	615.24	-0.33	10.24	Yes	
MRW-2	11/23/2004	627.00	630.85	610.00	605.00	14.88	0.88	15.76	11.22	615.78	0.55	10.97	Yes	
MRW-2	1/5/2005	627.00	630.85	610.00	605.00	15.89	1.03	16.92	12.26	614.74	-1.04	9.96	Yes	
MRW-2	2/26/2005	627.00	630.85	610.00	605.00	17.64	0.24	17.88	13.84	613.16	-1.58	8.21	Yes	
MRW-2	3/29/2005	627.00	630.85	610.00	605.00	NP	0.00	NP						
MRW-2	4/29/2005	627.00	630.85	610.00	605.00	15.92		NP						
MRW-2	5/31/2005	627.00	630.85	610.00	605.00	14.28	0.06	14.34	10.44	616.56	3.40	11.57	Yes	
MRW-2	6/28/2005	627.00	630.85	610.00	605.00	13.66	0.16	13.82	9.84	617.16	0.60	12.19	Yes	
MRW-2	7/28/2005	627.00	630.85	610.00	605.00	14.94	0.14	15.08	11.12	615.88	-1.28	10.91	Yes	
MRW-2	8/11/2005	627.00	630.85	610.00	605.00	15.39	0.04	15.43	11.55	615.45	-0.43	10.46	Yes	
MRW-2	9/1/2005	627.00	630.85	610.00	605.00	16.12	0.06	16.18	12.28	614.72	-0.73	9.73	Yes	
MRW-2	9/16/2005	627.00	630.85	610.00	605.00	16.21		-						
MRW-2	10/6/2005	627.00	630.85	610.00	605.00	14.76	0.07	14.83	10.93	616.07	1.36	11.09	Yes	
MRW-2	10/24/2005	627.00	630.85	610.00	605.00	14.62	0.06	14.68	10.78	616.22	0.14	11.23	Yes	
MRW-2	11/23/2005	627.00	630.85	610.00	605.00	14	0.08	14.08	10.17	616.83	0.62	11.85	Yes	
MRW-2	12/14/2005	627.00	630.85	610.00	605.00	14.34	0.07	14.41	10.51	616.49	-0.34	11.51	Yes	
MRW-2	1/5/2006	627.00	630.85	610.00	605.00	NP	0.00	15.29	11.44	615.56	-0.93	10.56	Yes	
MRW-2	1/19/2006	627.00	630.85	610.00	605.00	14.26	0.06	14.32	10.42	616.58	1.02	11.59	Yes	
MRW-2	1/30/2006	627.00	630.85	610.00	605.00	15.28	0.05	15.33	11.44	615.56	-1.02	10.57	Yes	
MRW-2	2/3/2006	627.00	630.85	610.00	605.00	15.32	0.07	15.39	11.49	615.51	-0.04	10.53	Yes	
MRW-2	2/9/2006	627.00	630.85	610.00	605.00	15.2	0.05	15.25	11.36	615.64	0.12	10.65	Yes	
MRW-2	2/16/2006	627.00	630.85	610.00	605.00	15.62	0.04	15.66	11.78	615.22	-0.42	10.23	Yes	
MRW-2	2/28/2006	627.00	630.85	610.00	605.00	15.93	0.11	16.04	12.10	614.90	-0.33	9.92	Yes	
MRW-2	3/16/2006	627.00	630.85	610.00	605.00	15.98	0.33	16.31	12.20	614.80	-0.10	9.87	Yes	
MRW-2	3/27/2006	627.00	630.85	610.00	605.00	15.37	0.31	15.68	11.59	615.41	0.61	10.48	Yes	
MRW-2	4/14/2006	627.00	630.85	610.00	605.00	14.54	0.31	14.85	10.76	616.24	0.83	11.31	Yes	
MRW-2	5/6/2006	627.00	630.85	610.00	605.00	14.47	0.27	14.74	10.68	616.32	0.08	11.38	Yes	
MRW-2	6/1/2006	627.00	630.85	610.00	605.00	13.69	0.23	13.92	9.89	617.11	0.79	12.16	Yes	
MRW-2	6/29/2006	627.00	630.85	610.00	605.00	NP	0.00	15.00	11.15	615.85	-1.26	10.85	Yes	
MRW-2	7/17/2006	627.00	630.85	610.00	605.00	15.67	0.12	15.79	11.85	615.15	-0.70	10.18	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-2	8/24/2006	627.00	630.85	610.00	605.00	16.09	0.16	16.25	12.27	614.73	-0.43	9.76	Yes	
MRW-2	9/1/2006	627.00	630.85	610.00	605.00	16.12	0.06	16.18	12.28	614.72	-0.01	9.73	Yes	
MRW-2	9/14/2006	627.00	630.85	610.00	605.00	NP	0.00	16.69	12.84	614.16	-0.56	9.16	Yes	
MRW-2	9/28/2006	627.00	630.85	610.00	605.00	16.42	0.10	16.52	12.59	614.41	0.25	9.43	Yes	
MRW-2	11/2/2006	627.00	630.85	610.00	605.00	16.45	0.11	16.56	12.62	614.38	-0.03	9.40	Yes	
MRW-2	11/21/2006	627.00	630.85	610.00	605.00	16.64	0.42	17.06	12.88	614.12	-0.26	9.21	Yes	
MRW-2	12/14/2006	627.00	630.85	610.00	605.00	16.33	0.77	17.10	12.65	614.35	0.23	9.52	Yes	
MRW-2	12/28/2006	627.00	630.85	610.00	605.00	16.75	2.00	18.75	13.33	613.67	-0.68	9.10	Yes	
MRW-2	1/4/2007	627.00	630.85	610.00	605.00	16.08	1.52	17.60	12.56	614.44	0.77	9.77	Yes	
MRW-2	1/18/2007	627.00	630.85	610.00	605.00	NP	0.00	16.88	13.03	613.97	-0.47	8.97	Yes	
MRW-2	2/1/2007	627.00	630.85	610.00	605.00	17.2	0.15	17.35	13.38	613.62	-0.35	8.65	Yes	
MRW-2	2/22/2007	627.00	630.85	610.00	605.00	17.82	0.16	17.98	14.00	613.00	-0.62	8.03	Yes	
MRW-2	3/15/2007	627.00	630.85	610.00	605.00	17.56	0.66	18.22	13.85	613.15	0.15	8.29	Yes	
MRW-2	3/29/2007	627.00	630.85	610.00	605.00	16.95	1.15	18.10	13.35	613.65	0.50	8.90	Yes	
MRW-2	4/13/2007	627.00	630.85	610.00	605.00	16.37	0.51	16.88	12.63	614.37	0.72	9.48	Yes	
MRW-2	4/29/2007	627.00	630.85	610.00	605.00	15.74	0.56	16.30	12.01	614.99	0.62	10.11	Yes	
MRW-2	5/10/2007	627.00	630.85	610.00	605.00	15.86	0.36	16.22	12.09	614.91	-0.08	9.99	Yes	
MRW-2	11/21/2012	627.00	630.85	610.00	605.00	16.9	0.28	17.18	13.11	613.89	-1.02	8.95	Yes	Pump currently Shut Down
MRW-2	12/17/2012	627.00	630.85	610.00	605.00	17.11	0.29	17.40	13.32	613.68	-0.21	8.74	Yes	Pump currently Shut Down
Well connected to Barge Dock Skimmer system														
MRW-2	3/25/2013	627.00	630.85	610.00	605.00	18.2	0.28	18.48	14.41	612.59	1.09	7.65	Yes	
MRW-2	3/25/2013	627.00	630.85	610.00	605.00	15.87	0.29	16.16	12.08	614.92	2.33	9.98	Yes	
MRW-2	4/24/2014	627.00	630.85	610.00	605.00	15.95	0.28	16.23	12.16	614.84	-0.08	9.90	Yes	
MRW-2	5/5/2014	627.00	630.85	610.00	605.00	13.31	0.17	13.48	9.50	617.50	2.66	12.54	Yes	
MRW-2	7/14/2014	627.00	630.85	610.00	605.00	13.43	0.21	13.64	9.63	617.37	-0.13	12.42	Yes	
MRW-2	7/18/2014	627.00	630.85	610.00	605.00	13.86	0.03	13.89	10.02	616.98	-0.39	11.99	Yes	
MRW-2	7/23/2014	627.00	630.85	610.00	605.00	14.03	0.25	14.28	10.23	616.77	-0.22	11.82	Yes	
MRW-2	9/4/2014	627.00	630.85	610.00	605.00	12.46	0.27	12.73	8.67	618.33	1.57	13.39	Yes	
MRW-2	2/19/2015	627.00	630.85	610.00	605.00	16.11	0.64	16.75	12.40	614.60	-3.73	9.74	Yes	
MRW-2	4/13/2015	627.00	630.85	610.00	605.00	16.74	0.32	17.06	12.96	614.04	-0.56	9.11	Yes	
MRW-2	4/17/2015	627.00	630.85	610.00	605.00	16.42	0.32	16.74	12.64	614.36	0.32	9.43	Yes	
MRW-2	4/22/2015	627.00	630.85	610.00	605.00	16.05	0.30	16.35	12.26	614.74	0.37	9.80	Yes	
MRW-2	4/28/2015	627.00	630.85	610.00	605.00	15.78	0.21	15.99	11.98	615.02	0.29	10.07	Yes	
MRW-2	5/5/2015	Pulled and removed pumps - system shut down - moved to bailing wells												
MRW-2	5/9/2015	627.00	630.85	610.00	605.00	15.69	0.15	15.84	11.87	615.13	0.10	10.16	Yes	Bailed 1 Cup
MRW-2	5/12/2015	627.00	630.85	610.00	605.00	15.26	0.19	15.45	11.45	615.55	0.42	10.59	Yes	
MRW-2	5/15/2015	627.00	630.85	610.00	605.00	14.61	0.19	14.80	10.80	616.20	0.65	11.24	Yes	Bailed <0.25 gallons
MRW-2	5/22/2015	627.00	630.85	610.00	605.00	14.15	0.22	14.37	10.35	616.65	0.45	11.70	Yes	Bailed <0.25 gallons
MRW-2	5/28/2015	627.00	630.85	610.00	605.00	13.9	0.21	14.11	10.10	616.90	0.25	11.95	Yes	Bailed <0.25 gallons
MRW-2	6/5/2015	627.00	630.85	610.00	605.00	14.2	0.21	14.41	10.40	616.60	-0.30	11.65	Yes	Bailed <0.25 gallons
MRW-2	6/9/2015	627.00	630.85	610.00	605.00	14.02	0.19	14.21	10.21	616.79	0.18	11.83	Yes	Bailed <0.25 gallons

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-2	6/13/2015	627.00	630.85	610.00	605.00	14.44	0.17	14.61	10.63	616.37	-0.42	11.41	Yes	Bailed <0.25 gallons (trace)
MRW-2	6/19/2015	627.00	630.85	610.00	605.00	14.77	0.18	14.95	10.96	616.04	-0.33	11.08	Yes	Bailed a trace amount of LNAPL
MRW-2	6/25/2015	627.00	630.85	610.00	605.00	14.74	0.18	14.92	10.93	616.07	0.03	11.11	Yes	Bailed a trace amount of LNAPL
MRW-2	7/2/2015	627.00	630.85	610.00	605.00	14.94	0.16	15.10	11.12	615.88	-0.20	10.91	Yes	Bailed a trace amount of LNAPL
MRW-2	7/7/2015	627.00	630.85	610.00	605.00	14.72	0.16	14.88	10.90	616.10	0.22	11.13	Yes	
MRW-2	7/13/2015	627.00	630.85	610.00	605.00	14.53	0.15	14.68	10.71	616.29	0.19	11.32	Yes	No LNAPL bailed
MRW-2	7/21/2015	627.00	630.85	610.00	605.00	15.08	0.13	15.21	11.26	615.74	-0.55	10.77	Yes	
MRW-2	7/27/2015	627.00	630.85	610.00	605.00	15.4	0.11	15.51	11.57	615.43	-0.32	10.45	Yes	
MRW-2	7/31/2015	627.00	630.85	610.00	605.00	15.59	0.13	15.72	11.77	615.23	-0.19	10.26	Yes	
MRW-2	8/7/2015	627.00	630.85	610.00	605.00	15.62	0.12	15.74	11.80	615.20	-0.03	10.23	Yes	
MRW-2	8/14/2015	627.00	630.85	610.00	605.00	15.66	0.12	15.78	11.84	615.16	-0.04	10.19	Yes	
MRW-2	8/24/2015	627.00	630.85	610.00	605.00	15.19	0.12	15.31	11.37	615.63	0.47	10.66	Yes	
MRW-2	9/10/2015	627.00	630.85	610.00	605.00	14.88	0.12	15.00	11.06	615.94	0.31	10.97	Yes	
MRW-2	9/24/2015	627.00	630.85	610.00	605.00	14.33	0.12	14.45	10.51	616.49	0.55	11.52	Yes	
MRW-2	10/1/2015	627.00	630.85	610.00	605.00	14.14	0.11	14.25	10.31	616.69	0.19	11.71	Yes	
MRW-2	10/29/2015	627.00	630.85	610.00	605.00	14.51	0.13	14.64	10.69	616.31	0.37	11.34	Yes	
MRW-2	11/3/2015	627.00	630.85	610.00	605.00	14.36	0.14	14.50	10.54	616.46	0.15	11.49	Yes	
MRW-2	10/3/2016	627.00	630.85	610.00	605.00	14.09	0.10	14.19	10.26	616.74	0.28	11.76	Yes	
MRW-2	5/2/2017	627.00	630.85	610.00	605.00	12.37	0.09	12.46	8.54	618.46	1.72	13.48	Yes	
MRW-2	5/22/2017	627.00	630.85	610.00	605.00	10.98	0.09	11.07	7.15	619.85	1.39	14.87	Yes	
MRW-2	5/31/2017	627.00	630.85	610.00	605.00	11.08	0.08	11.16	7.25	619.75	-0.10	14.77	Yes	
MRW-3	2/19/2003	625.70	632.11	610.70	605.70	17.61	0.94	18.55	11.41	614.29	NA	8.80	Yes	
MRW-3	3/13/2003	625.70	632.11	610.70	605.70	17.93	0.73	18.66	11.68	614.02	-0.27	8.48	Yes	
MRW-3	4/9/2003	625.70	632.11	610.70	605.70	17.57	1.12	18.69	11.41	614.29	0.27	8.84	Yes	
MRW-3	4/18/2003	625.70	632.11	610.70	605.70	17.52	1.13	18.65	11.36	614.34	0.05	8.89	Yes	
MRW-3	4/25/2003	625.70	632.11	610.70	605.70	17.35	2.97	20.32	11.60	614.10	-0.24	9.06	Yes	
MRW-3	5/15/2003	625.70	632.11	610.70	605.70	16.23	2.87	19.10	10.46	615.24	1.14	10.18	Yes	
MRW-3	6/10/2003	625.70	632.11	610.70	605.70	16.58	0.37	16.95	10.25	615.45	0.21	9.83	Yes	
MRW-3	7/2/2003	625.70	632.11	610.70	605.70	14.67	6.30	20.97	9.67	616.03	0.59	11.74	Yes	
MRW-3	7/7/2003	625.70	632.11	610.70	605.70	15.82	5.09	20.91	10.55	615.15	-0.88	10.59	Yes	
MRW-3	7/30/2003	625.70	632.11	610.70	605.70	16	1.25	17.25	9.87	615.83	0.68	10.41	Yes	
MRW-3	8/12/2003	625.70	632.11	610.70	605.70	16.77	0.07	16.84	10.38	615.32	-0.51	9.64	Yes	
MRW-3	9/8/2003	625.70	632.11	610.70	605.70	17.24	1.00	18.24	11.05	614.65	-0.68	9.17	Yes	
MRW-3	10/2/2003	625.70	632.11	610.70	605.70	16.9	2.75	19.65	11.10	614.60	-0.05	9.51	Yes	
MRW-3	10/20/2003	625.70	632.11	610.70	605.70	16.42	4.72	21.14	11.06	614.64	0.04	9.99	Yes	
MRW-3	12/3/2003	625.70	632.11	610.70	605.70	17.66	0.64	18.30	11.39	614.31	-0.33	8.75	Yes	
MRW-3	1/8/2004	625.70	632.11	610.70	605.70	17.51	2.82	20.33	11.73	613.97	-0.34	8.90	Yes	
MRW-3	1/20/2004	625.70	632.11	610.70	605.70	17.54	3.46	21.00	11.90	613.80	-0.17	8.87	Yes	
MRW-3	2/24/2004	625.70	632.11	610.70	605.70	18.44	1.26	19.70	12.31	613.39	-0.41	7.97	Yes	
MRW-3	3/22/2004	625.70	632.11	610.70	605.70	17.44	3.72	21.16	11.86	613.84	0.45	8.97	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-3	4/19/2004	625.70	632.11	610.70	605.70	15.88	5.41	21.29	10.68	615.02	1.18	10.53	Yes	
MRW-3	5/18/2004	625.70	632.11	610.70	605.70	15.98	4.62	20.60	10.60	615.10	0.08	10.43	Yes	
MRW-3	6/17/2004	625.70	632.11	610.70	605.70	14.38	6.09	20.47	9.33	616.37	1.27	12.03	Yes	
MRW-3	6/28/2004	625.70	632.11	610.70	605.70	16	1.10	17.10	9.84	615.86	-0.51	10.41	Yes	
MRW-3	7/27/2004	625.70	632.11	610.70	605.70	16.76	0.07	16.83	10.37	615.33	-0.53	9.65	Yes	
MRW-3	8/24/2004	625.70	632.11	610.70	605.70	15.41	5.44	20.85	10.22	615.48	0.15	11.00	Yes	
MRW-3	9/8/2004	625.70	632.11	610.70	605.70	16.41	0.04	16.45	10.01	615.69	0.21	10.00	Yes	
MRW-3	9/9/2004	625.70	632.11	610.70	605.70	16.18	0.41	16.59	9.86	615.84	0.15	10.23	Yes	
MRW-3	9/28/2004	625.70	632.11	610.70	605.70	15.24	1.27	16.51	9.11	616.59	0.75	11.17	Yes	
MRW-3	10/20/2004	625.70	632.11	610.70	605.70	15.87	0.06	15.93	9.47	616.23	-0.36	10.54	Yes	
MRW-3	11/23/2004	625.70	632.11	610.70	605.70	13.83	6.47	20.30	8.87	616.83	0.61	12.58	Yes	
MRW-3	1/5/2005	625.70	632.11	610.70	605.70	16.1	1.16	17.26	9.95	615.75	-1.08	10.31	Yes	
MRW-3	2/26/2005	625.70	632.11	610.70	605.70	17.1	0.30	17.40	10.76	614.94	-0.81	9.31	Yes	
MRW-3	3/29/2005	625.70	632.11	610.70	605.70	NP	0.00	NP						
MRW-3	4/29/2005	625.70	632.11	610.70	605.70	15.05	0.74	15.79	8.81	616.89	1.95	11.36	Yes	
MRW-3	5/31/2005	625.70	632.11	610.70	605.70	14.2	1.50	15.70	8.13	617.57	0.68	12.21	Yes	
MRW-3	6/28/2005	625.70	632.11	610.70	605.70	13.78	0.94	14.72	7.58	618.12	0.55	12.63	Yes	
MRW-3	7/28/2005	625.70	632.11	610.70	605.70	14.67	2.85	17.52	8.90	616.80	-1.32	11.74	Yes	
MRW-3	8/11/2005	625.70	632.11	610.70	605.70	14.96	5.02	19.98	9.67	616.03	-0.77	11.45	Yes	
MRW-3	9/1/2005	625.70	632.11	610.70	605.70	16.37	0.56	16.93	10.09	615.61	-0.41	10.04	Yes	
MRW-3	9/16/2005	625.70	632.11	610.70	605.70	15.6	3.64	19.24	10.00	615.70	0.08	10.81	Yes	
MRW-3	10/6/2005	625.70	632.11	610.70	605.70	13.34	7.19	20.53	8.54	617.16	1.47	13.07	Yes	
MRW-3	10/24/2005	625.70	632.11	610.70	605.70	13.2	7.54	20.74	8.47	617.23	0.06	13.21	Yes	
MRW-3	11/23/2005	625.70	632.11	610.70	605.70	12.38	8.42	20.80	7.85	617.85	0.62	14.03	Yes	
MRW-3	12/14/2005	625.70	632.11	610.70	605.70	12.43	8.50	20.93	7.92	617.78	-0.07	13.98	Yes	
MRW-3	1/5/2006	625.70	632.11	610.70	605.70	13.96		-						
MRW-3	1/19/2006	625.70	632.11	610.70	605.70	14	7.15	21.15	9.19	616.51	-1.27	12.41	Yes	
MRW-3	1/30/2006	625.70	632.11	610.70	605.70	13.95	7.18	21.13	9.14	616.56	0.04	12.46	Yes	
MRW-3	2/3/2006	625.70	632.11	610.70	605.70	14.95	4.14	19.09	9.46	616.24	-0.32	11.46	Yes	
MRW-3	2/9/2006	625.70	632.11	610.70	605.70	15.44	1.88	17.32	9.45	616.25	0.01	10.97	Yes	
MRW-3	2/16/2006	625.70	632.11	610.70	605.70	15.85	1.30	17.15	9.73	615.97	-0.28	10.56	Yes	
MRW-3	2/28/2006	625.70	632.11	610.70	605.70	16.15	0.67	16.82	9.89	615.81	-0.16	10.26	Yes	
MRW-3	3/16/2006	625.70	632.11	610.70	605.70	16.2	0.58	16.78	9.92	615.78	-0.03	10.21	Yes	
MRW-3	3/27/2006	625.70	632.11	610.70	605.70	15.33	1.47	16.80	9.25	616.45	0.67	11.08	Yes	
MRW-3	4/14/2006	625.70	632.11	610.70	605.70	14.47	1.44	15.91	8.38	617.32	0.87	11.94	Yes	
MRW-3	5/6/2006	625.70	632.11	610.70	605.70	14.48	0.67	15.15	8.22	617.48	0.16	11.93	Yes	
MRW-3	6/1/2006	625.70	632.11	610.70	605.70	13.65	1.55	15.20	7.59	618.11	0.63	12.76	Yes	
MRW-3	6/29/2006	625.70	632.11	610.70	605.70	14.68	2.92	17.60	8.92	616.78	-1.34	11.73	Yes	
MRW-3	7/17/2006	625.70	632.11	610.70	605.70	15.66	1.56	17.22	9.60	616.10	-0.68	10.75	Yes	
MRW-3	8/24/2006	625.70	632.11	610.70	605.70	16.37	0.61	16.98	10.10	615.60	-0.50	10.04	Yes	
MRW-3	9/1/2006	625.70	632.11	610.70	605.70	16.37	0.56	16.93	10.09	615.61	0.01	10.04	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-3	9/14/2006	625.70	632.11	610.70	605.70	16.92	0.48	17.40	10.62	615.08	-0.53	9.49	Yes	
MRW-3	9/16/2006	625.70	632.11	610.70	605.70	15.6	3.64	19.24	10.00	615.70	0.61	10.81	Yes	
MRW-3	9/28/2006	625.70	632.11	610.70	605.70	16.55	1.07	17.62	10.38	615.32	-0.38	9.86	Yes	
MRW-3	11/2/2006	625.70	632.11	610.70	605.70	16.9	0.08	16.98	10.51	615.19	-0.13	9.51	Yes	
MRW-3	11/21/2006	625.70	632.11	610.70	605.70	16.62	2.20	18.82	10.70	615.00	-0.19	9.79	Yes	
MRW-3	12/14/2006	625.70	632.11	610.70	605.70	16.29	3.16	19.45	10.59	615.11	0.12	10.12	Yes	
MRW-3	12/28/2006	625.70	632.11	610.70	605.70	16.47		-						
MRW-3	1/4/2007	625.70	632.11	610.70	605.70	16.53	0.85	17.38	10.31	615.39	0.28	9.88	Yes	
MRW-3	1/18/2007	625.70	632.11	610.70	605.70	16.31	1.31	17.62	10.19	615.51	0.12	10.10	Yes	
MRW-3	2/1/2007	625.70	632.11	610.70	605.70	16.55	1.27	17.82	10.42	615.28	-0.23	9.86	Yes	
MRW-3	2/22/2007	625.70	632.11	610.70	605.70	17.52	3.31	20.83	11.85	613.85	-1.43	8.89	Yes	
MRW-3	3/15/2007	625.70	632.11	610.70	605.70	17.32	1.24	18.56	11.19	614.51	0.66	9.09	Yes	
MRW-3	3/29/2007	625.70	632.11	610.70	605.70	16.63	2.98	19.61	10.89	614.81	0.30	9.78	Yes	
MRW-3	4/13/2007	625.70	632.11	610.70	605.70	15.41	5.33	20.74	10.19	615.51	0.70	11.00	Yes	
MRW-3	4/29/2007	625.70	632.11	610.70	605.70	15.19	3.93	19.12	9.66	616.04	0.53	11.22	Yes	
MRW-3	5/10/2007	625.70	632.11	610.70	605.70	15.58	2.34	17.92	9.69	616.01	-0.03	10.83	Yes	
MRW-3	12/17/2012	625.70	632.11	610.70	605.70	17.5	0.17	17.67	11.13	614.57	-1.44	8.91	Yes	
It connected to Barge Dock Skimmer system														
MRW-3	3/25/2013	625.70	632.11	610.70	605.70	18.55	0.05	18.60	12.15	613.55	-1.02	7.86	Yes	Currently running on barge system
MRW-3	5/5/2013	625.70	632.11	610.70	605.70	15.8	0.89	16.69	9.58	616.12	2.57	10.61	Yes	
MRW-3	5/31/2013	625.70	632.11	610.70	605.70	14.52	2.20	16.72	8.58	617.12	1.00	11.89	Yes	
MRW-3	6/27/2013	625.70	632.11	610.70	605.70	12.87	4.61	17.48	7.45	618.25	1.13	13.54	Yes	
MRW-3	7/29/2013	625.70	632.11	610.70	605.70	14.76	4.29	19.05	9.27	616.43	-1.82	11.65	Yes	
MRW-3	8/29/2013	625.70	632.11	610.70	605.70	15.1	4.48	19.58	9.65	616.05	-0.38	11.31	Yes	
MRW-3	9/27/2013	625.70	632.11	610.70	605.70	15.9	3.85	19.75	10.32	615.38	-0.66	10.51	Yes	
MRW-3	11/1/2013	625.70	632.11	610.70	605.70	15.74	1.34	17.08	9.62	616.08	0.70	10.67	Yes	
MRW-3	12/31/2013	625.70	632.11	610.70	605.70	16.52	3.50	20.02	10.86	614.84	-1.24	9.89	Yes	
MRW-3	1/10/2014	625.70	632.11	610.70	605.70	16.5	3.41	19.91	10.82	614.88	0.04	9.91	Yes	
MRW-3	2/5/2014	625.70	632.11	610.70	605.70	17.88	1.33	19.21	11.76	613.94	-0.93	8.53	Yes	
MRW-3	2/23/2014	625.70	632.11	610.70	605.70	17.82	1.30	19.12	11.69	614.01	0.07	8.59	Yes	
MRW-3	3/11/2014	625.70	632.11	610.70	605.70	17.71	1.41	19.12	11.60	614.10	0.09	8.70	Yes	
MRW-3	3/26/2014	625.70	632.11	610.70	605.70	16.91	1.49	18.40	10.82	614.88	0.78	9.50	Yes	
MRW-3	3/31/2014	625.70	632.11	610.70	605.70	16.56	2.59	19.15	10.71	614.99	0.11	9.85	Yes	
MRW-3	4/18/2014	625.70	632.11	610.70	605.70	14.02	5.26	19.28	8.74	616.96	1.97	12.39	Yes	
MRW-3	5/5/2014	625.70	632.11	610.70	605.70	12.18	6.04	18.22	7.07	618.63	1.67	14.23	Yes	
MRW-3	5/20/2014	625.70	632.11	610.70	605.70	10.98	7.58	18.56	6.20	619.50	0.87	15.43	Yes	
MRW-3	6/5/2014	625.70	632.11	610.70	605.70	11.4	5.94	17.34	6.27	619.43	-0.07	15.01	Yes	
MRW-3	6/17/2014	625.70	632.11	610.70	605.70	11.49	5.58	17.07	6.28	619.42	-0.01	14.92	Yes	
MRW-3	6/26/2014	625.70	632.11	610.70	605.70	12.26	4.98	17.24	6.92	618.78	-0.64	14.15	Yes	
MRW-3	7/12/2014	625.70	632.11	610.70	605.70	13.32	2.07	15.39	7.35	618.35	-0.43	13.09	Yes	

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Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-3	7/14/2014	625.70	632.11	610.70	605.70	13.29	2.30	15.59	7.37	618.33	-0.02	13.12	Yes	
MRW-3	7/18/2014	625.70	632.11	610.70	605.70	14.05	0.20	14.25	7.68	618.02	-0.31	12.36	Yes	
MRW-3	7/23/2014	625.70	632.11	610.70	605.70	14.49	0.08	14.57	8.10	617.60	-0.41	11.92	Yes	
MRW-3	7/30/2014	625.70	632.11	610.70	605.70	14.81	0.04	14.85	8.41	617.29	-0.31	11.60	Yes	
MRW-3	8/2/2014	625.70	632.11	610.70	605.70	14.86	0.36	15.22	8.53	617.17	-0.12	11.55	Yes	
MRW-3	8/7/2014	625.70	632.11	610.70	605.70	15.1	0.21	15.31	8.74	616.96	-0.21	11.31	Yes	
MRW-3	8/14/2014	625.70	632.11	610.70	605.70	15.2	0.41	15.61	8.88	616.82	-0.14	11.21	Yes	
MRW-3	8/22/2014	625.70	632.11	610.70	605.70	13.38	2.27	15.65	7.46	618.24	1.42	13.03	Yes	
MRW-3	8/27/2014	625.70	632.11	610.70	605.70	12.86	1.16	14.02	6.70	619.00	0.76	13.55	Yes	
MRW-3	9/1/2014	625.70	632.11	610.70	605.70	12.8	0.79	13.59	6.56	619.14	0.14	13.61	Yes	
MRW-3	9/4/2014	625.70	632.11	610.70	605.70	12.67	0.74	13.41	6.42	619.28	0.14	13.74	Yes	
MRW-3	9/11/2014	625.70	632.11	610.70	605.70	13.51	0.02	13.53	7.10	618.60	-0.69	12.90	Yes	
MRW-3	9/18/2014	625.70	632.11	610.70	605.70	NP	0.00	13.89	7.48	618.22	-0.38	12.52	Yes	
MRW-3	9/25/2014	625.70	632.11	610.70	605.70	NP	0.00	14.06	7.65	618.05	-0.17	12.35	Yes	
MRW-3	10/2/2014	625.70	632.11	610.70	605.70	13.93	0.46	14.39	7.62	618.08	0.03	12.48	Yes	
MRW-3	10/9/2014	625.70	632.11	610.70	605.70	14	0.29	14.29	7.65	618.05	-0.03	12.41	Yes	
MRW-3	10/16/2014	625.70	632.11	610.70	605.70	14.03	0.26	14.29	7.68	618.02	-0.02	12.38	Yes	
MRW-3	10/23/2014	625.70	632.11	610.70	605.70	NP	0.00	14.54	8.13	617.57	-0.45	11.87	Yes	
MRW-3	10/31/2014	625.70	632.11	610.70	605.70	14.97	0.14	15.11	8.59	617.11	-0.46	11.44	Yes	
MRW-3	11/6/2014	625.70	632.11	610.70	605.70	14.98	0.30	15.28	8.63	617.07	-0.04	11.43	Yes	
MRW-3	11/13/2014	625.70	632.11	610.70	605.70	15.29	0.10	15.39	8.90	616.80	-0.27	11.12	Yes	
MRW-3	11/25/2014	625.70	632.11	610.70	605.70	15.72	0.03	15.75	9.32	616.38	-0.41	10.69	Yes	
MRW-3	12/4/2014	625.70	632.11	610.70	605.70	NP	0.00	15.83	9.42	616.28	-0.10	10.58	Yes	
MRW-3	12/15/2014	625.70	632.11	610.70	605.70	15.82	0.24	16.06	9.46	616.24	-0.04	10.59	Yes	
MRW-3	12/28/2014	625.70	632.11	610.70	605.70	15.08	0.93	16.01	8.87	616.83	0.59	11.33	Yes	
MRW-3	1/10/2015	625.70	632.11	610.70	605.70	15.61	0.60	16.21	9.33	616.37	-0.46	10.80	Yes	
MRW-3	1/24/2015	625.70	632.11	610.70	605.70	16.09	0.12	16.21	9.71	615.99	-0.38	10.32	Yes	
MRW-3	2/3/2015	625.70	632.11	610.70	605.70	16.47	0.05	16.52	10.07	615.63	-0.36	9.94	Yes	
MRW-3	2/12/2015	625.70	632.11	610.70	605.70	16.79	0.05	16.84	10.39	615.31	-0.32	9.62	Yes	
MRW-3	2/19/2015	625.70	632.11	610.70	605.70	16.75	0.36	17.11	10.42	615.28	-0.03	9.66	Yes	
MRW-3	2/24/2015	625.70	632.11	610.70	605.70	16.09	2.99	19.08	10.32	615.38	0.09	10.32	Yes	
MRW-3	3/14/2015	625.70	632.11	610.70	605.70	16.4	2.66	19.06	10.56	615.14	-0.24	10.01	Yes	
MRW-3	3/23/2015	625.70	632.11	610.70	605.70	16.43	2.79	19.22	10.62	615.08	-0.06	9.98	Yes	
MRW-3	4/3/2015	625.70	632.11	610.70	605.70	16.75	2.30	19.05	10.83	614.87	-0.21	9.66	Yes	
MRW-3	4/13/2015	625.70	632.11	610.70	605.70	16.49	2.54	19.03	10.63	615.07	0.21	9.92	Yes	
MRW-3	4/17/2015	625.70	632.11	610.70	605.70	16.45	2.59	19.04	10.60	615.10	0.03	9.96	Yes	
MRW-3	4/20/2015	625.70	632.11	610.70	605.70	15.44	3.60	19.04	9.80	615.90	0.79	10.97	Yes	
MRW-3	4/22/2015	625.70	632.11	610.70	605.70	15.68	3.21	18.89	9.96	615.74	-0.16	10.73	Yes	
MRW-3	4/24/2015	625.70	632.11	610.70	605.70	15.34	3.68	19.02	9.72	615.98	0.24	11.07	Yes	
MRW-3	4/28/2015	625.70	632.11	610.70	605.70	15.29	3.13	18.42	9.55	616.15	0.17	11.12	Yes	
MRW-3	4/29/2015	625.70	632.11	610.70	605.70	15.57	2.79	18.36	9.76	615.94	-0.21	10.84	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-3	5/9/2015	625.70	632.11	610.70	605.70	17.42	0.66	18.08	11.15	614.55	-1.39	8.99	Yes	Bailed 5 gallons
MRW-3	5/12/2015	625.70	632.11	610.70	605.70	14.42	3.78	18.20	8.82	616.88	2.33	11.99	Yes	
MRW-3	5/15/2015	625.70	632.11	610.70	605.70	13.98	3.22	17.20	8.26	617.44	0.56	12.43	Yes	Bailed 4 gallons
MRW-3	5/22/2015	625.70	632.11	610.70	605.70	13.18	4.62	17.80	7.76	617.94	0.50	13.23	Yes	Bailed 6 gallons
MRW-3	5/28/2015	625.70	632.11	610.70	605.70	12.78	5.31	18.09	7.51	618.19	0.25	13.63	Yes	Bailed 7.5 gallons
MRW-3	6/5/2015	625.70	632.11	610.70	605.70	13.04	5.56	18.60	7.82	617.88	-0.31	13.37	Yes	Bailed 8 gallons
MRW-3	6/9/2015	625.70	632.11	610.70	605.70	13.06	4.93	17.99	7.71	617.99	0.12	13.35	Yes	Bailed 8 gallons
MRW-3	6/13/2015	625.70	632.11	610.70	605.70	13.86	3.44	17.30	8.19	617.51	-0.48	12.55	Yes	Bailed 4.5 gallons
MRW-3	6/19/2015	625.70	632.11	610.70	605.70	13.96	4.79	18.75	8.58	617.12	-0.39	12.45	Yes	Bailed 6.5 gallons
MRW-3	6/25/2015	625.70	632.11	610.70	605.70	13.81	5.08	18.89	8.49	617.21	0.09	12.60	Yes	Bailed 9.1 gallons
MRW-3	7/2/2015	625.70	632.11	610.70	605.70	14.18	4.89	19.07	8.82	616.88	-0.33	12.23	Yes	Bailed 7 gallons
MRW-3	7/7/2015	625.70	632.11	610.70	605.70	13.85	5.06	18.91	8.53	617.17	0.29	12.56	Yes	Bailed 9 gallons
MRW-3	7/13/2015	625.70	632.11	610.70	605.70	13.66	5.97	19.63	8.53	617.17	-0.01	12.75	Yes	Bailed 7 gallons
MRW-3	7/21/2015	625.70	632.11	610.70	605.70	14.35	4.75	19.10	8.96	616.74	-0.43	12.06	Yes	
MRW-3	7/27/2015	625.70	632.11	610.70	605.70	14.97	3.47	18.44	9.31	616.39	-0.34	11.44	Yes	
MRW-3	7/31/2015	625.70	632.11	610.70	605.70	15.26	3.66	18.92	9.64	616.06	-0.33	11.15	Yes	
MRW-3	8/7/2015	625.70	632.11	610.70	605.70	15.08	4.07	19.15	9.54	616.16	0.09	11.33	Yes	
MRW-3	8/14/2015	625.70	632.11	610.70	605.70	15.04	4.27	19.31	9.55	616.15	0.00	11.37	Yes	
MRW-3	8/24/2015	625.70	632.11	610.70	605.70	14.34	5.02	19.36	9.01	616.69	0.54	12.07	Yes	
MRW-3	9/10/2015	625.70	632.11	610.70	605.70	13.87	5.61	19.48	8.67	617.03	0.34	12.54	Yes	
MRW-3	9/24/2015	625.70	632.11	610.70	605.70	13.02	6.29	19.31	7.96	617.74	0.70	13.39	Yes	
MRW-3	10/1/2015	625.70	632.11	610.70	605.70	12.81	6.51	19.32	7.80	617.90	0.16	13.60	Yes	
MRW-3	10/29/2015	625.70	632.11	610.70	605.70	13.16	6.40	19.56	8.13	617.57	0.54	13.25	Yes	
MRW-3	11/3/2015	625.70	632.11	610.70	605.70	13.18	5.98	19.16	8.05	617.65	0.07	13.23	Yes	
MRW-3	10/3/2016	625.70	632.11	610.70	605.70	12.78	7.24	20.02	7.93	617.77	0.13	13.63	Yes	
MRW-3	5/2/2017	625.70	632.11	610.70	605.70	10.67	9.34	20.01	6.27	619.43	1.66	15.74	Yes	
MRW-3	5/8/2017	625.70	632.11	610.70	605.70	11.49	5.91	17.40	6.35	619.35	-0.08	14.92	Yes	
MRW-3	5/18/2017	625.70	632.11	610.70	605.70	10.67	8.59	19.26	6.11	619.59	0.24	15.74	Yes	
MRW-3	5/22/2017	625.70	632.11	610.70	605.70	9.96	6.49	16.45	4.94	620.76	1.16	16.45	Yes	
MRW-3	5/25/2017	625.70	632.11	610.70	605.70	10.36	4.64	15.00	4.95	620.75	0.00	16.05	Yes	
MRW-3	5/31/2017	625.70	632.11	610.70	605.70	9.86	7.26	17.12	5.01	620.69	-0.06	16.55	Yes	
MRW-3	6/21/2017	625.70	632.11	610.70	605.70	11.28	8.49	19.77	6.69	619.01	-1.68	15.13	Yes	
MRW-3	6/22/2017	625.70	632.11	610.70	605.70	12.18	4.27	16.45	6.69	619.01	0.01	14.23	Yes	
MRW-3	6/29/2017	625.70	632.11	610.70	605.70	11.76	6.98	18.74	6.85	618.85	-0.16	14.65	Yes	
MRW-4	10/11/2009	625.69	628.21	615.69	595.69	14.85	0.21	15.06	12.38	613.31	NA	17.67	No	
MRW-4	4/28/2010	625.69	628.21	615.69	595.69	14.30	0.72	15.02	11.93	613.76	0.44	18.22	No	
MRW-4	10/25/2010	625.69	628.21	615.69	595.69	12.60	1.18	13.78	10.33	615.36	1.60	19.92	No	
MRW-4	4/25/2011	625.69	628.21	615.69	595.69	12.76	1.63	14.39	10.59	615.10	-0.26	19.76	No	
MRW-4	10/11/2011	625.69	628.21	615.69	595.69	14.18	2.00	16.18	12.09	613.60	-1.50	18.34	No	
MRW-4	1/4/2012	625.69	628.21	615.69	595.69	15.38	2.23	17.61	13.34	612.35	-1.25	17.14	No	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-4	4/16/2012	625.69	628.21	615.69	595.69	14.84	2.38	17.22	12.83	612.86	0.51	17.68	No	
MRW-4	6/28/2012	625.69	628.21	615.69	595.69	10.37	3.53	13.90	8.61	617.08	4.22	22.15	Yes	
MRW-4	7/10/2012	625.69	628.21	615.69	595.69	11.94	2.76	14.70	10.01	615.68	-1.40	20.58	No	Spill Buddy Before Reading
MRW-4	7/24/2012	625.69	628.21	615.69	595.69	13.64	0.31	13.95	11.19	614.50	-1.17	18.88	No	
MRW-4	8/19/2012	625.69	628.21	615.69	595.69	14.24	0.38	14.62	11.80	613.89	-0.62	18.28	No	
MRW-4	8/28/2012	625.69	628.21	615.69	595.69	14.63	0.46	15.09	12.21	613.48	-0.41	17.89	No	Spill Buddy Before Reading
MRW-4	9/17/2012	625.69	628.21	615.69	595.69	15.31	0.18	15.49	12.83	612.86	-0.62	17.21	No	
MRW-4	9/28/2012	625.69	628.21	615.69	595.69	15.60	0.20	15.80	13.12	612.57	-0.29	16.92	No	Spill Buddy Before Reading
MRW-4	9/30/2012	625.69	628.21	615.69	595.69	15.62	0.08	15.70	13.12	612.57	0.01	16.90	No	
MRW-4	11/21/2012	625.69	628.21	615.69	595.69	15.90	0.21	16.11	13.43	612.26	-0.31	16.62	No	
MRW-4	12/17/2012	625.69	628.21	615.69	595.69	16.06	0.21	16.27	13.59	612.10	-0.16	16.46	No	
MRW-4	3/25/2013	625.69	628.21	615.69	595.69	17.11	0.37	17.48	14.67	611.02	-1.08	15.41	No	
MRW-4	5/5/2013	625.69	628.21	615.69	595.69	14.49	0.30	14.79	12.03	613.66	2.64	18.03	No	
MRW-4	4/15/2015	625.69	628.21	615.69	595.69	15.22	1.39	16.61	13.00	612.69	-0.96	17.30	No	
MRW-4	4/22/2015	625.69	628.21	615.69	595.69	14.77	0.41	15.18	12.34	613.35	0.66	17.75	No	
MRW-4	4/29/2015	625.69	628.21	615.69	595.69	14.58	0.32	14.90	12.13	613.56	0.21	17.94	No	
MRW-4	5/12/2015	625.69	628.21	615.69	595.69	13.95	0.35	14.30	11.51	614.18	0.62	18.57	No	
MRW-4	6/9/2015	625.69	628.21	615.69	595.69	12.87	0.43	13.30	10.44	615.25	1.06	19.65	No	
MRW-4	5/23/2016	625.69	628.21	615.69	595.69	11.19	1.20	12.39	8.93	616.76	1.51	21.33	Yes	
MRW-4	10/3/2016	625.69	628.21	615.69	595.69	12.90	1.02	13.92	10.60	615.09	-1.67	19.62	No	
MRW-4	5/18/2017	625.69	628.21	615.69	595.69	11.17	0.57	11.74	8.77	616.92	1.83	21.35	Yes	
MRW-4	5/31/2017	625.69	628.21	615.69	595.69	10.20	0.37	10.57	7.76	617.93	1.01	22.32	Yes	
MRW-5	10/12/2011	625.10	627.88	610.12	595.12	12.51	6.57	19.08	11.20	613.90	NA	20.25	Yes	
MRW-5	10/21/2011	625.10	627.88	610.12	595.12	12.70	6.52	19.22	11.37	613.73	-0.18	20.06	Yes	
MRW-5	10/27/2011	625.10	627.88	610.12	595.12	12.85	6.38	19.23	11.49	613.61	-0.12	19.91	Yes	
MRW-5	11/3/2011	625.10	627.88	610.12	595.12	13.15	6.14	19.29	11.74	613.36	-0.25	19.61	Yes	
MRW-5	11/9/2011	625.10	627.88	610.12	595.12	13.11	6.13	19.24	11.70	613.40	0.04	19.65	Yes	
MRW-5	11/17/2011	625.10	627.88	610.12	595.12	13.47	5.80	19.27	11.98	613.12	-0.29	19.29	Yes	
MRW-5	11/29/2011	625.10	627.88	610.12	595.12	13.80	5.00	18.80	12.14	612.97	-0.15	18.96	Yes	Reading after portable system removal
MRW-5	12/1/2011	625.10	627.88	610.12	595.12	14.13	7.63	21.76	13.05	612.05	-0.92	18.63	Yes	
MRW-5	1/4/2012	625.10	627.88	610.12	595.12	14.37	4.93	19.30	12.69	612.41	0.36	18.39	Yes	
MRW-5	2/16/2012	625.10	627.88	610.12	595.12	15.24	4.10	19.34	13.37	611.73	-0.68	17.52	Yes	
MRW-5	3/13/2012	625.10	627.88	610.12	595.12	15.09	4.26	19.35	13.26	611.84	0.11	17.67	Yes	
MRW-5	4/16/2012	625.10	627.88	610.12	595.12	13.74	5.65	19.39	12.22	612.88	1.04	19.02	Yes	
MRW-5	6/19/2012	625.10	627.88	610.12	595.12	9.82	9.72	19.54	9.21	615.89	3.01	22.94	Yes	Reading before install of well pumps for Barge system expansion.
MRW-5	6/21/2012	625.10	627.88	610.12	595.12	10.70	0.65	11.35	8.06	617.04	1.14	22.06	Yes	Connected to System
MRW-5	6/22/2012	625.10	627.88	610.12	595.12	8.40	10.53	18.93	7.97	617.13	0.10	24.36	Yes	Connected to System
MRW-5	6/28/2012	625.10	627.88	610.12	595.12	11.14	0.25	11.39	8.42	616.68	-0.45	21.62	Yes	Connected to System
MRW-5	12/17/2012	625.10	627.88	610.12	595.12	15.25	3.90	19.15	13.34	611.76	-4.92	17.51	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-5	3/25/2013	625.10	627.88	610.12	595.12	16.55	2.84	19.39	14.40	610.70	-1.06	16.21	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-5	5/5/2013	625.10	627.88	610.12	595.12	13.27	6.12	19.39	11.85	613.25	2.55	19.49	Yes	
MRW-5	3/17/2015	625.10	627.88	610.12	595.12	14.75	4.22	18.97	12.91	612.19	1.49	18.01	Yes	
MRW-5	6/25/2015	625.10	627.88	610.12	595.12	13.64	0.26	13.90	10.92	614.18	0.94	19.12	Yes	
MRW-5	7/10/2015	625.10	627.88	610.12	595.12	13.55	0.36	13.91	10.85	614.25	0.07	19.21	Yes	
MRW-5	7/13/2015	625.10	627.88	610.12	595.12	13.50	0.37	13.87	10.80	614.30	0.05	19.26	Yes	
MRW-5	9/10/2015	625.10	627.88	610.12	595.12	13.79	0.29	14.08	11.07	614.03	-0.27	18.97	Yes	
MRW-5	9/24/2015	625.10	627.88	610.12	595.12	13.28	0.02	13.30	10.50	614.60	0.57	19.48	Yes	
MRW-5	10/1/2015	625.10	627.88	610.12	595.12	12.97	0.26	13.23	10.25	614.85	0.26	19.79	Yes	
MRW-5	10/14/2015	625.10	627.88	610.12	595.12	13.49	0.35	13.84	10.79	614.31	-0.54	19.27	Yes	
MRW-5	3/7/2016	625.10	627.88	610.12	595.12	10.74	0.25	10.99	8.02	617.08	2.77	22.02	Yes	
MRW-5	4/21/2016	625.10	627.88	610.12	595.12	8.94	9.82	18.76	8.35	616.75	-0.33	23.82	Yes	
MRW-5	5/18/2016	625.10	627.88	610.12	595.12	10.98	1.13	12.11	8.45	616.65	-0.10	21.78	Yes	
MRW-5	5/25/2016	625.10	627.88	610.12	595.12	11.40	0.32	11.72	8.69	616.41	-0.24	21.36	Yes	
MRW-5	5/31/2016	625.10	627.88	610.12	595.12	11.29	0.29	11.58	8.57	616.53	0.12	21.47	Yes	
MRW-5	6/14/2016	625.10	627.88	610.12	595.12	11.18	0.28	11.46	8.46	616.64	0.11	21.58	Yes	
MRW-5	6/21/2016	625.10	627.88	610.12	595.12	10.66	0.19	10.85	7.92	617.18	0.54	22.10	Yes	
MRW-5	7/6/2016	625.10	627.88	610.12	595.12	10.17	7.51	17.68	9.06	616.04	-1.14	22.59	Yes	Pre system start
MRW-5	7/7/2016	625.10	627.88	610.12	595.12	11.07	3.10	14.17	8.98	616.12	0.08	21.69	Yes	
MRW-5	7/15/2016	625.10	627.88	610.12	595.12	11.08	0.27	11.35	8.36	616.74	0.10	21.68	Yes	
MRW-5	7/25/2016	625.10	627.88	610.12	595.12	11.75	0.44	12.19	9.07	616.03	-0.71	21.01	Yes	
MRW-5	8/26/2016	625.10	627.88	610.12	595.12	12.96	0.37	13.33	10.26	614.84	-1.19	19.80	Yes	
MRW-5	9/2/2016	625.10	627.88	610.12	595.12	12.85	0.50	13.35	10.18	614.92	0.08	19.91	Yes	
MRW-5	10/3/2016	625.10	627.88	610.12	595.12	13.04	0.30	13.34	10.33	614.77	-0.15	19.72	Yes	
MRW-5	10/6/2016	625.10	627.88	610.12	595.12	13.18	0.34	13.52	10.48	614.62	-0.15	19.58	Yes	
MRW-5	10/13/2016	625.10	627.88	610.12	595.12	13.24	0.33	13.57	10.53	614.57	-0.06	19.52	Yes	
MRW-5	5/2/2017	625.10	627.88	610.12	595.12	9.37	9.38	18.75	8.68	616.42	1.85	23.39	Yes	
MRW-5	5/8/2017	625.10	627.88	610.12	595.12	11.51	0.31	11.82	8.80	616.30	-0.12	21.25	Yes	
MRW-5	5/18/2017	625.10	627.88	610.12	595.12	11.19	0.31	11.50	8.48	616.62	0.32	21.57	Yes	
MRW-5	5/25/2017	625.10	627.88	610.12	595.12	10.09	0.31	10.40	7.38	617.72	1.10	22.67	Yes	
MRW-5	5/31/2017	625.10	627.88	610.12	595.12	10.14	0.33	10.47	7.43	617.67	-0.05	22.62	Yes	
MRW-5	6/14/2017	625.10	627.88	610.12	595.12	11.30	0.26	11.56	8.58	616.52	-1.14	21.46	Yes	
MRW-5	6/21/2017	625.10	627.88	610.12	595.12	11.76	0.64	12.40	9.12	615.98	-0.54	21.00	Yes	
MRW-6	10/12/2011	625.90	628.27	610.86	595.86	13.64	5.54	19.18	12.46	613.44	NA	18.77	Yes	
MRW-6	10/21/2011	625.90	628.27	610.86	595.86	13.12	8.58	21.70	12.59	613.31	-0.13	19.29	Yes	
MRW-6	10/27/2011	625.90	628.27	610.86	595.86	13.26	8.47	21.73	12.71	613.19	-0.12	19.15	Yes	
MRW-6	11/3/2011	625.90	628.27	610.86	595.86	13.53	8.19	21.72	12.92	612.98	-0.21	18.88	Yes	
MRW-6	11/7/2011	625.90	628.27	610.86	595.86	13.63	8.07	21.70	12.99	612.91	-0.07	18.78	Yes	System start reading
MRW-6	11/9/2011	625.90	628.27	610.86	595.86	15.61	0.08	15.69	13.26	612.64	-0.26	16.80	Yes	
MRW-6	11/18/2011	625.90	628.27	610.86	595.86	15.55	0.39	15.94	13.26	612.64	-0.01	16.86	Yes	Reading after system removal.
MRW-6	11/22/2011	625.90	628.27	610.86	595.86	14.02	7.31	21.33	13.22	612.68	0.04	18.39	Yes	
MRW-6	12/1/2011	625.90	628.27	610.86	595.86	13.32	5.86	19.18	12.21	613.69	1.01	19.09	Yes	
MRW-6	1/4/2012	625.90	628.27	610.86	595.86	14.70	7.09	21.79	13.85	612.05	-1.64	17.71	Yes	
MRW-6	2/16/2012	625.90	628.27	610.86	595.86	15.89	5.38	21.27	14.68	611.22	-0.82	16.52	Yes	
MRW-6	3/13/2012	625.90	628.27	610.86	595.86	15.34	6.61	21.95	14.39	611.51	0.29	17.07	Yes	
MRW-6	4/16/2012	625.90	628.27	610.86	595.86	13.92	8.12	22.04	13.29	612.61	1.10	18.49	Yes	
MRW-6	6/19/2012	625.90	628.27	610.86	595.86	10.26	11.84	22.10	10.43	615.47	2.86	22.15	Yes	Reading before install of well pumps for Barge system expansion.

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-6	6/21/2012	625.90	628.27	610.86	595.86	11.53	0.52	12.05	9.27	616.63	1.16	20.88	Yes	Connected to System
MRW-6	6/22/2012	625.90	628.27	610.86	595.86	9.70	8.31	18.01	9.12	616.78	0.16	22.71	Yes	
MRW-6	6/28/2012	625.90	628.27	610.86	595.86	11.82	0.25	12.07	9.50	616.40	-0.39	20.59	Yes	
MRW-6	12/17/2012	625.90	628.27	610.86	595.86	15.33	6.12	21.45	14.27	611.63	-4.77	17.08	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-6	3/25/2013	625.90	628.27	610.86	595.86	16.60	4.94	21.54	15.29	610.61	-1.02	15.81	No	
MRW-6	5/5/2013	625.90	628.27	610.86	595.86	13.36	8.31	21.67	12.78	613.12	2.52	19.05	Yes	
MRW-6	3/17/2015	625.90	628.27	610.86	595.86	14.89	6.03	20.92	13.82	612.08	1.48	17.52	Yes	
MRW-6	6/25/2015	625.90	628.27	610.86	595.86	13.64	0.26	13.90	11.33	614.57	2.49	18.77	Yes	
MRW-6	7/10/2015	625.90	628.27	610.86	595.86	14.24	0.29	14.53	11.93	613.97	0.84	18.17	Yes	
MRW-6	7/13/2015	625.90	628.27	610.86	595.86	14.21	0.28	14.49	11.90	614.00	0.03	18.20	Yes	
MRW-6	9/10/2015	625.90	628.27	610.86	595.86	14.51	0.29	14.80	12.20	613.70	-0.88	17.90	Yes	
MRW-6	9/24/2015	625.90	628.27	610.86	595.86	13.77	0.19	13.96	11.44	614.46	0.76	18.64	Yes	
MRW-6	10/1/2015	625.90	628.27	610.86	595.86	13.64	0.32	13.96	11.34	614.56	0.56	18.77	Yes	
MRW-6	10/14/2015	625.90	628.27	610.86	595.86	14.08	0.45	14.53	11.81	614.09	-0.47	18.33	Yes	
MRW-6	4/21/2016	625.90	628.27	610.86	595.86	9.59	10.52	20.11	9.48	616.42	2.42	22.82	Yes	
MRW-6	5/18/2016	625.90	628.27	610.86	595.86	11.78	0.89	12.67	9.60	616.30	-0.12	20.63	Yes	
MRW-6	5/25/2016	625.90	628.27	610.86	595.86	12.17	0.30	12.47	9.86	616.04	-0.26	20.24	Yes	
MRW-6	5/31/2016	625.90	628.27	610.86	595.86	12.07	0.29	12.36	9.76	616.14	0.10	20.34	Yes	
MRW-6	6/7/2016	625.90	628.27	610.86	595.86	11.54	0.27	11.81	9.23	616.67	0.53	20.87	Yes	
MRW-6	6/14/2016	625.90	628.27	610.86	595.86	11.83	0.45	12.28	9.56	616.34	-0.33	20.58	Yes	
MRW-6	6/21/2016	625.90	628.27	610.86	595.86	11.51	0.28	11.79	9.20	616.70	0.36	20.90	Yes	
MRW-6	7/6/2016	625.90	628.27	610.86	595.86	11.84	3.60	15.44	10.24	615.66	-1.04	20.57	Yes	Pre system start
MRW-6	7/7/2016	625.90	628.27	610.86	595.86	12.65	0.33	12.98	10.35	615.55	-0.11	19.76	Yes	
MRW-6	7/15/2016	625.90	628.27	610.86	595.86	11.89	0.30	12.19	9.58	616.32	-0.03	20.52	Yes	
MRW-6	7/25/2016	625.90	628.27	610.86	595.86	12.55	0.37	12.92	10.26	615.64	-0.68	19.86	Yes	
MRW-6	7/25/2016	625.90	628.27	610.86	595.86	13.52	2.68	16.20	11.73	614.17	-1.47	18.89	Yes	water level dropped below skimming pump
MRW-6	9/2/2016	625.90	628.27	610.86	595.86	13.64	0.33	13.97	11.34	614.56	0.38	18.77	Yes	
MRW-6	10/3/2016	625.90	628.27	610.86	595.86	13.76	0.34	14.10	11.46	614.44	-0.12	18.65	Yes	
MRW-6	10/6/2016	625.90	628.27	610.86	595.86	13.90	0.33	14.23	11.60	614.30	-0.14	18.51	Yes	
MRW-6	10/13/2016	625.90	628.27	610.86	595.86	13.95	0.35	14.30	11.66	614.24	-0.05	18.46	Yes	
MRW-6	5/2/2017	625.90	628.27	610.86	595.86	9.99	10.05	20.04	9.78	616.12	1.88	22.42	Yes	
MRW-6	5/8/2017	625.90	628.27	610.86	595.86	12.29	0.33	12.62	9.99	615.91	-0.21	20.12	Yes	
MRW-6	5/18/2017	625.90	628.27	610.86	595.86	11.91	0.29	12.20	9.60	616.30	0.39	20.50	Yes	
MRW-6	5/25/2017	625.90	628.27	610.86	595.86	10.92	0.32	11.24	8.62	617.28	0.98	21.49	Yes	
MRW-6	5/31/2017	625.90	628.27	610.86	595.86	10.93	0.34	11.27	8.63	617.27	-0.01	21.48	Yes	
MRW-6	6/14/2017	625.90	628.27	610.86	595.86	12.07	0.29	12.36	9.76	616.14	-1.13	20.34	Yes	
MRW-6	6/21/2017	625.90	628.27	610.86	595.86	12.51	0.43	12.94	10.23	615.67	-0.47	19.90	Yes	
MRW-7	10/11/2011	627.30	629.77	608.30	593.30	16.65	3.02	19.67	14.83	612.47	NA	19.82	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-7	10/12/2011	627.30	629.77	608.30	593.30	14.46	12.71	27.17	14.72	612.58	0.11	22.01	Yes	
MRW-7	10/28/2011	627.30	629.77	608.30	593.30	14.98	11.50	26.48	14.98	612.32	-0.26	21.49	Yes	
MRW-7	11/3/2011	627.30	629.77	608.30	593.30	15.09	11.91	27.00	15.18	612.12	-0.20	21.38	Yes	
MRW-7	11/9/2011	627.30	629.77	608.30	593.30	15.02	12.19	27.21	15.17	612.13	0.01	21.45	Yes	
MRW-7	11/10/2011	627.30	629.77	608.30	593.30	15.03	12.27	27.30	15.20	612.10	-0.03	21.44	Yes	Before EFR
MRW-7	11/10/2011	627.30	629.77	608.30	593.30	20.80	0.30	21.10	18.39	608.91	-3.20	15.67	Yes	After EFR
MRW-7	11/13/2011	627.30	629.77	608.30	593.30	15.06	12.09	27.15	15.19	612.11	3.21	21.41	Yes	EFR Check
MRW-7	11/17/2011	627.30	629.77	608.30	593.30	15.28	11.96	27.24	15.38	611.92	-0.19	21.19	Yes	
MRW-7	11/22/2011	627.30	629.77	608.30	593.30	15.33	11.94	27.27	15.43	611.87	-0.05	21.14	Yes	
MRW-7	12/1/2011	627.30	629.77	608.30	593.30	15.54	11.68	27.22	15.58	611.72	-0.15	20.93	Yes	
MRW-7	1/4/2012	627.30	629.77	608.30	593.30	16.12	11.15	27.27	16.05	611.25	-0.47	20.35	Yes	
MRW-7	2/16/2012	627.30	629.77	608.30	593.30	16.88	10.39	27.27	16.64	610.66	-0.60	19.59	Yes	
MRW-7	3/13/2012	627.30	629.77	608.30	593.30	16.88	10.56	27.24	16.48	610.82	0.16	19.79	Yes	
MRW-7	4/16/2012	627.30	629.77	608.30	593.30	15.21	12.03	27.24	15.32	611.98	1.15	21.26	Yes	
MRW-7	6/11/2012	627.30	629.77	608.30	593.30	12.56	14.72	27.28	13.25	614.05	2.07	23.91	Yes	Reading before install of well pumps for Barge system expansion.
MRW-7	6/21/2012	627.30	629.77	608.30	593.30	12.91	5.98	18.89	11.72	615.58	1.53	23.56	Yes	Connected to System
MRW-7	6/22/2012	627.30	629.77	608.30	593.30	14.08	0.70	14.78	11.76	615.54	-0.04	22.39	Yes	Connected to System
MRW-7	6/28/2012	627.30	629.77	608.30	593.30	14.65	0.19	14.84	12.22	615.08	-0.46	21.82	Yes	Connected to System
MRW-7	12/17/2012	627.30	629.77	608.30	593.30	17.11	8.93	26.04	16.56	610.74	-4.34	19.36	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-7	3/25/2013	627.30	629.77	608.30	593.30	18.15	8.44	26.59	17.49	609.81	-0.93	18.32	Yes	
MRW-7	5/5/2013	627.30	629.77	608.30	593.30	15.04	11.41	26.45	15.02	612.28	2.47	21.43	Yes	
MRW-7	3/17/2015	627.30	629.77	608.30	593.30	16.43	9.46	25.89	15.99	611.31	1.50	20.04	Yes	
MRW-7	6/25/2015	627.30	629.77	608.30	593.30	16.78	0.19	16.97	14.35	612.95	1.64	19.69	Yes	
MRW-7	7/10/2015	627.30	629.77	608.30	593.30	16.77	0.26	17.03	14.36	612.94	0.67	19.70	Yes	
MRW-7	7/13/2015	627.30	629.77	608.30	593.30	16.73	0.22	16.95	14.31	612.99	0.05	19.74	Yes	
MRW-7	9/10/2015	627.30	629.77	608.30	593.30	17.02	0.24	17.26	14.60	612.70	-0.25	19.45	Yes	
MRW-7	9/24/2015	627.30	629.77	608.30	593.30	16.29	0.18	16.47	13.86	613.44	0.49	20.18	Yes	
MRW-7	10/1/2015	627.30	629.77	608.30	593.30	16.22	0.27	16.49	13.81	613.49	0.50	20.25	Yes	
MRW-7	10/14/2015	627.30	629.77	608.30	593.30	16.73	0.26	16.99	14.32	612.98	-0.01	19.74	Yes	
MRW-7	4/21/2016	627.30	629.77	608.30	593.30	15.40	0.25	15.65	12.98	614.32	1.32	21.07	Yes	
MRW-7	5/18/2016	627.30	629.77	608.30	593.30	14.56	0.83	15.39	12.27	615.03	0.72	21.91	Yes	
MRW-7	5/25/2016	627.30	629.77	608.30	593.30	14.93	0.21	15.14	12.51	614.79	-0.24	21.54	Yes	
MRW-7	5/31/2016	627.30	629.77	608.30	593.30	14.81	0.23	15.04	12.39	614.91	0.12	21.66	Yes	
MRW-7	6/7/2016	627.30	629.77	608.30	593.30	14.36	0.22	14.58	11.94	615.36	0.45	22.11	Yes	
MRW-7	6/14/2016	627.30	629.77	608.30	593.30	14.71	0.28	14.99	12.30	615.00	-0.36	21.76	Yes	
MRW-7	6/21/2016	627.30	629.77	608.30	593.30	14.39	0.20	14.59	11.96	615.34	0.34	22.08	Yes	
MRW-7	7/6/2016	627.30	629.77	608.30	593.30	12.45	12.64	25.09	12.70	614.60	-0.73	24.02	Yes	Pre system start
MRW-7	7/7/2016	627.30	629.77	608.30	593.30	13.48	8.80	22.28	12.90	614.40	-0.20	22.99	Yes	
MRW-7	7/15/2016	627.30	629.77	608.30	593.30	14.70	0.25	14.95	12.28	615.02	0.70	21.77	Yes	

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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-7	7/25/2016	627.30	629.77	608.30	593.30	15.29	0.30	15.59	12.88	614.42	-0.60	21.18	Yes	
MRW-7	8/26/2016	627.30	629.77	608.30	593.30	16.19	0.54	16.73	13.84	613.46	-0.95	20.28	Yes	
MRW-7	9/2/2016	627.30	629.77	608.30	593.30	16.26	0.21	16.47	13.84	613.46	0.00	20.21	Yes	
MRW-7	10/3/2016	627.30	629.77	608.30	593.30	16.38	0.22	16.60	13.96	613.34	-0.12	20.09	Yes	
MRW-7	10/6/2016	627.30	629.77	608.30	593.30	16.46	0.29	16.75	14.05	613.25	-0.10	20.01	Yes	
MRW-7	10/13/2016	627.30	629.77	608.30	593.30	16.55	0.27	16.82	14.14	613.16	-0.09	19.92	Yes	
MRW-7	5/2/2017	627.30	629.77	608.30	593.30	11.96	13.31	25.27	12.35	614.95	1.79	24.51	Yes	
MRW-7	5/8/2017	627.30	629.77	608.30	593.30	14.97	0.27	15.24	12.56	614.74	-0.21	21.50	Yes	
MRW-7	5/18/2017	627.30	629.77	608.30	593.30	14.57	0.25	14.82	12.15	615.15	0.40	21.90	Yes	
MRW-7	5/25/2017	627.30	629.77	608.30	593.30	13.79	0.24	14.03	11.37	615.93	0.78	22.68	Yes	
MRW-7	5/31/2017	627.30	629.77	608.30	593.30	13.76	0.27	14.03	11.35	615.95	0.02	22.71	Yes	
MRW-7	6/14/2017	627.30	629.77	608.30	593.30	14.79	0.23	15.02	12.37	614.93	-1.02	21.68	Yes	
MRW-7	6/21/2017	627.30	629.77	608.30	593.30	15.79	0.23	16.02	13.37	613.93	-1.00	20.68	Yes	
MRW-8	10/11/2011	627.30	629.50	610.37	595.37	14.29	12.22	26.51	14.72	612.58	NA	19.84	Yes	
MRW-8	10/12/2011	627.30	629.50	610.37	595.37	13.74	13.97	27.71	14.54	612.76	0.17	20.39	Yes	
MRW-8	10/21/2011	627.30	629.50	610.37	595.37	14.06	13.95	28.01	14.86	612.44	-0.32	20.07	Yes	
MRW-8	10/27/2011	627.30	629.50	610.37	595.37	16.85	3.35	20.20	15.37	611.93	-0.51	17.28	Yes	
MRW-8	10/27/2011	627.30	629.50	610.37	595.37	16.20	5.31	21.51	15.14	612.16	0.23	17.93	Yes	
MRW-8	11/3/2011	627.30	629.50	610.37	595.37	14.69	12.74	27.43	15.23	612.07	-0.09	19.44	Yes	
MRW-8	11/9/2011	627.30	629.50	610.37	595.37	14.89	12.61	27.50	15.40	611.90	-0.17	19.24	Yes	
MRW-8	11/10/2011	627.30	629.50	610.37	595.37	14.66	12.94	27.60	15.24	612.06	0.16	19.47	Yes	Before EFR
MRW-8	11/10/2011	627.30	629.50	610.37	595.37	18.04	0.30	18.34	15.90	611.40	-0.66	16.09	Yes	After EFR (12:25)
MRW-8	11/10/2011	627.30	629.50	610.37	595.37	17.45	2.50	19.95	15.79	611.51	0.12	16.68	Yes	After EFR (13:30)
MRW-8	11/13/2011	627.30	629.50	610.37	595.37	14.65	12.64	27.29	15.17	612.13	0.62	19.48	Yes	
MRW-8	11/17/2011	627.30	629.50	610.37	595.37	14.89	12.61	27.50	15.40	611.90	-0.23	19.24	Yes	
MRW-8	11/22/2011	627.30	629.50	610.37	595.37	14.94	12.63	27.57	15.45	611.85	-0.05	19.19	Yes	
MRW-8	12/1/2011	627.30	629.50	610.37	595.37	15.09	12.48	27.57	15.57	611.73	-0.12	19.04	Yes	
MRW-8	1/4/2012	627.30	629.50	610.37	595.37	15.70	11.77	27.47	16.03	611.27	-0.46	18.43	Yes	
MRW-8	2/16/2012	627.30	629.50	610.37	595.37	16.44	10.95	27.39	16.59	610.71	-0.56	17.69	Yes	
MRW-8	3/13/2012	627.30	629.50	610.37	595.37	16.31	11.03	27.34	16.48	610.82	0.11	17.82	Yes	
MRW-8	4/16/2012	627.30	629.50	610.37	595.37	14.84	12.64	27.48	15.36	611.94	1.12	19.29	Yes	
MRW-8	6/11/2012	627.30	629.50	610.37	595.37	12.22	15.77	27.99	13.41	613.89	1.95	21.91	Yes	Reading before install of well pumps for Barge system expansion.
MRW-8	6/21/2012	627.30	629.50	610.37	595.37	14.66	0.24	14.90	12.51	614.79	0.90	19.47	Yes	Connected to System
MRW-8	6/22/2012	627.30	629.50	610.37	595.37	11.08	14.98	26.06	12.10	615.20	0.41	23.05	Yes	Connected to System
MRW-8	6/28/2012	627.30	629.50	610.37	595.37	14.84	0.17	15.01	12.68	614.62	-0.58	19.29	Yes	Connected to System
MRW-8	12/17/2012	627.30	629.50	610.37	595.37	16.90	9.38	26.28	16.72	610.58	-4.04	17.23	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-8	3/25/2013	627.30	629.50	610.37	595.37	18.40	8.25	26.65	17.97	609.33	-1.26	15.73	No	
MRW-8	5/5/2013	627.30	629.50	610.37	595.37	14.96	10.97	25.93	15.12	612.18	2.86	19.17	Yes	
MRW-8	3/17/2015	627.30	629.50	610.37	595.37	16.15	8.15	24.30	15.70	611.60	-0.58	17.98	Yes	
MRW-8	6/25/2015	627.30	629.50	610.37	595.37	16.44	0.22	16.66	14.29	613.01	1.41	17.69	Yes	
MRW-8	7/10/2015	627.30	629.50	610.37	595.37	16.37	0.17	16.54	14.21	613.09	0.08	17.76	Yes	
MRW-8	7/13/2015	627.30	629.50	610.37	595.37	16.36	0.16	16.52	14.19	613.11	0.01	17.77	Yes	
MRW-8	9/10/2015	627.30	629.50	610.37	595.37	16.60	0.24	16.84	14.45	612.85	-0.26	17.53	Yes	

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-8	9/24/2015	627.30	629.50	610.37	595.37	16.04	0.18	16.22	13.88	613.42	0.57	18.09	Yes	
MRW-8	10/1/2015	627.30	629.50	610.37	595.37	15.86	0.17	16.03	13.70	613.60	0.18	18.27	Yes	
MRW-8	10/14/2015	627.30	629.50	610.37	595.37	16.25	0.30	16.55	14.11	613.19	-0.42	17.88	Yes	
MRW-8	4/21/2016	627.30	629.50	610.37	595.37	11.31	14.16	25.47	12.15	615.15	1.96	22.82	Yes	
MRW-8	5/18/2016	627.30	629.50	610.37	595.37	14.60	0.49	15.09	12.51	614.79	-0.35	19.53	Yes	
MRW-8	5/25/2016	627.30	629.50	610.37	595.37	14.82	0.21	15.03	12.67	614.63	-0.16	19.31	Yes	
MRW-8	5/31/2016	627.30	629.50	610.37	595.37	14.67	0.25	14.92	12.52	614.78	0.14	19.46	Yes	
MRW-8	6/7/2016	627.30	629.50	610.37	595.37	14.38	0.12	14.50	12.21	615.09	0.32	19.75	Yes	
MRW-8	6/14/2016	627.30	629.50	610.37	595.37	14.64	0.20	14.84	12.48	614.82	-0.28	19.49	Yes	
MRW-8	6/21/2016	627.30	629.50	610.37	595.37	14.29	0.22	14.51	12.14	615.16	0.35	19.84	Yes	
MRW-8	7/6/2016	627.30	629.50	610.37	595.37	12.51	11.19	23.70	12.71	614.59	-0.58	21.62	Yes	Pre system start
MRW-8	7/7/2016	627.30	629.50	610.37	595.37	12.51	11.19	23.70	12.71	614.59	0.00	21.62	Yes	
MRW-8	7/15/2016	627.30	629.50	610.37	595.37	14.60	0.24	14.84	12.45	614.85	0.26	19.53	Yes	
MRW-8	7/25/2016	627.30	629.50	610.37	595.37	15.06	0.30	15.36	12.92	614.38	-0.47	19.07	Yes	
MRW-8	8/26/2016	627.30	629.50	610.37	595.37	15.92	0.37	16.29	13.80	613.50	-0.88	18.21	Yes	
MRW-8	9/2/2016	627.30	629.50	610.37	595.37	16.00	0.22	16.22	13.85	613.45	-0.05	18.13	Yes	
MRW-8	10/3/2016	627.30	629.50	610.37	595.37	16.03	0.25	16.28	13.88	613.42	-0.04	18.10	Yes	
MRW-8	10/6/2016	627.30	629.50	610.37	595.37	16.10	0.22	16.32	13.95	613.35	-0.06	18.03	Yes	
MRW-8	10/13/2016	627.30	629.50	610.37	595.37	16.20	0.25	16.45	14.05	613.25	-0.11	17.93	Yes	
MRW-8	5/2/2017	627.30	629.50	610.37	595.37	11.74	13.72	25.46	12.49	614.81	1.57	22.39	Yes	
MRW-8	5/8/2017	627.30	629.50	610.37	595.37	14.90	0.28	15.18	12.76	614.54	-0.27	19.23	Yes	
MRW-8	5/18/2017	627.30	629.50	610.37	595.37	14.55	0.20	14.75	12.39	614.91	0.37	19.58	Yes	
MRW-8	5/25/2017	627.30	629.50	610.37	595.37	13.73	0.20	13.93	11.57	615.73	0.82	20.40	Yes	
MRW-8	5/31/2017	627.30	629.50	610.37	595.37	13.71	0.26	13.97	11.57	615.73	0.01	20.42	Yes	
MRW-8	6/14/2017	627.30	629.50	610.37	595.37	14.60	0.25	14.85	12.45	614.85	-0.89	19.53	Yes	
MRW-8	6/21/2017	627.30	629.50	610.37	595.37	14.98	0.29	15.27	12.84	614.46	-0.39	19.15	Yes	
MRW-9	10/11/2011	626.50	629.04	609.50	594.50	13.22	13.68	26.90	13.62	612.88	NA	21.32	Yes	
MRW-9	10/12/2011	626.50	629.04	609.50	594.50	13.12	13.78	26.90	13.54	612.96	0.08	21.42	Yes	
MRW-9	10/21/2011	626.50	629.04	609.50	594.50	13.44	13.40	26.84	13.78	612.72	-0.24	21.10	Yes	
MRW-9	10/27/2011	626.50	629.04	609.50	594.50	13.55	13.34	26.89	13.88	612.62	-0.10	20.99	Yes	
MRW-9	2/16/2012	626.50	629.04	609.50	594.50	15.90	9.95	25.85	15.50	611.00	-1.62	18.64	Yes	
MRW-9	3/13/2012	626.50	629.04	609.50	594.50	15.70	10.25	25.95	15.36	611.14	0.14	18.84	Yes	
MRW-9	4/16/2012	626.50	629.04	609.50	594.50	14.34	11.86	26.20	14.35	612.15	1.01	20.20	Yes	
MRW-9	6/11/2012	626.50	629.04	609.50	594.50	11.95	14.21	26.16	12.46	614.04	1.89	22.59	Yes	Reading before install of well pumps for Barge system expansion.
MRW-9	6/21/2012	626.50	629.04	609.50	594.50	14.10	1.05	15.15	11.79	614.71	0.68	20.44	Yes	Connected to System
MRW-9	6/22/2012	626.50	629.04	609.50	594.50	14.10	0.23	14.33	11.61	614.89	0.18	20.44	Yes	Connected to System
MRW-9	6/28/2012	626.50	629.04	609.50	594.50	14.24	0.29	14.53	11.76	614.74	-0.15	20.30	Yes	Connected to System
MRW-9	12/17/2012	626.50	629.04	609.50	594.50	16.05	7.90	23.95	15.21	611.29	-3.45	18.49	Yes	
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-9	3/25/2013	626.50	629.04	609.50	594.50	17.20	8.29	25.49	16.44	610.06	-1.23	17.34	Yes	
MRW-9	5/5/2013	626.50	629.04	609.50	594.50	14.45	10.72	25.17	14.21	612.29	2.23	20.09	Yes	
MRW-9	7/13/2013	626.50	629.04	609.50	594.50	15.13	0.02	15.15	12.59	613.91	1.62	19.41	Yes	
MRW-9	3/17/2015	626.50	629.04	609.50	594.50	17.02	0.11	17.13	14.50	612.00	-1.91	17.52	Yes	
MRW-9	6/25/2015	626.50	629.04	609.50	594.50	15.61	0.04	15.65	13.08	613.42	1.43	18.93	Yes	

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Groundwater and LNAPL Gauging Data - Barge Dock
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
MRW-9	9/10/2015	626.50	629.04	609.50	594.50	15.34	0.02	15.36	12.80	613.70	0.27	19.20	Yes	
MRW-9	10/1/2015	626.50	629.04	609.50	594.50	14.64	0.02	14.66	12.10	614.40	0.70	19.90	Yes	
MRW-9	10/14/2015	626.50	629.04	609.50	594.50	14.99	0.02	15.01	12.45	614.05	-0.35	19.55	Yes	
MRW-9	5/18/2016	626.50	629.04	609.50	594.50	13.15	0.01	13.16	10.61	615.89	1.98	21.39	Yes	
MRW-9	5/23/2016	626.50	629.04	609.50	594.50	NP	0.00	13.29	10.75	615.75	-0.14	21.25	Yes	
MRW-9	5/31/2016	626.50	629.04	609.50	594.50	13.22	0.01	13.23	10.68	615.82	0.07	21.32	Yes	
MRW-9	6/14/2016	626.50	629.04	609.50	594.50	13.10	0.01	13.11	10.56	615.94	0.12	21.44	Yes	
MRW-9	6/21/2016	626.50	629.04	609.50	594.50	12.79	0.02	12.81	10.25	616.25	0.31	21.75	Yes	
MRW-9	7/6/2016	626.50	629.04	609.50	594.50	13.46	0.01	13.47	10.92	615.58	-0.67	21.08	Yes	
MRW-9	7/7/2016	626.50	629.04	609.50	594.50	13.51	0.01	13.52	10.97	615.53	-0.05	21.03	Yes	
MRW-9	7/15/2016	626.50	629.04	609.50	594.50	NP	0.00	13.13	10.59	615.91	0.09	21.41	Yes	
MRW-9	7/25/2016	626.50	629.04	609.50	594.50	NP	0.00	13.41	10.87	615.63	-0.28	21.13	Yes	
MRW-9	8/26/2016	626.50	629.04	609.50	594.50	NP	0.00	14.29	11.75	614.75	-0.88	20.25	Yes	
MRW-9	9/2/2016	626.50	629.04	609.50	594.50	NP	0.00	14.37	11.83	614.67	-0.08	20.17	Yes	
MRW-9	10/3/2016	626.50	629.04	609.50	594.50	NP	0.00	14.44	11.90	614.60	-0.07	20.10	Yes	
MRW-9	10/6/2016	626.50	629.04	609.50	594.50	NP	0.00	14.53	11.99	614.51	-0.16	20.01	Yes	
MRW-9	10/13/2016	626.50	629.04	609.50	594.50	NP	0.00	14.62	12.08	614.42	-0.09	19.92	Yes	
MRW-9	5/2/2017	626.50	629.04	609.50	594.50	NP	0.00	13.69	11.15	615.35		20.85	Yes	
MRW-9	5/8/2017	626.50	629.04	609.50	594.50	NP	0.00	13.66	11.12	615.38		20.88	Yes	
MRW-9	5/18/2017	626.50	629.04	609.50	594.50	NP	0.00	13.36	10.82	615.68		21.18	Yes	
MRW-9	5/25/2017	626.50	629.04	609.50	594.50	NP	0.00	12.50	9.96	616.54		22.04	Yes	
MRW-9	5/31/2017	626.50	629.04	609.50	594.50	NP	0.00	12.46	9.92	616.58		22.08	Yes	
MRW-10	10/11/2011	626.90	629.30	609.85	594.85	13.41	13.39	26.80	13.89	613.01	NA	21.04	Yes	
MRW-10	10/12/2011	626.90	629.30	609.85	594.85	13.37	13.54	26.91	13.88	613.02	0.01	21.08	Yes	
MRW-10	10/21/2011	626.90	629.30	609.85	594.85	13.56	13.42	26.98	14.04	612.86	-0.16	20.89	Yes	
MRW-10	10/27/2011	626.90	629.30	609.85	594.85	13.75	13.15	26.90	14.18	612.72	-0.13	20.70	Yes	
MRW-10	11/7/2011	626.90	629.30	609.85	594.85	16.18	3.72	19.90	14.58	612.32	-0.40	18.27	Yes	
MRW-10	11/9/2011	626.90	629.30	609.85	594.85	14.32	11.62	25.94	14.42	612.48	0.16	20.13	Yes	
MRW-10	11/10/2011	626.90	629.30	609.85	594.85	14.55	11.55	26.10	14.63	612.27	-0.21	19.90	Yes	Before EFR
MRW-10	11/10/2011	626.90	629.30	609.85	594.85	20.35	0.17	20.52	17.99	608.91	-3.35	14.10	No	After EFR
MRW-10	11/13/2011	626.90	629.30	609.85	594.85	14.21	11.93	26.14	14.37	612.53	3.61	20.24	Yes	
MRW-10	11/17/2011	626.90	629.30	609.85	594.85	14.44	11.91	26.35	14.60	612.30	-0.23	20.01	Yes	
MRW-10	11/22/2011	626.90	629.30	609.85	594.85	14.48	11.94	26.42	14.65	612.25	-0.05	19.97	Yes	
MRW-10	12/1/2011	626.90	629.30	609.85	594.85	14.64	11.80	26.44	14.78	612.12	-0.13	19.81	Yes	
MRW-10	2/16/2012	626.90	629.30	609.85	594.85	16.06	9.99	26.05	15.81	611.09	-1.03	18.39	Yes	
MRW-10	3/13/2012	626.90	629.30	609.85	594.85	15.95	10.16	26.11	15.73	611.17	0.07	18.50	Yes	
MRW-10	4/16/2012	626.90	629.30	609.85	594.85	14.60	11.76	26.36	14.73	612.17	1.01	19.85	Yes	
MRW-10	6/11/2012	626.90	629.30	609.85	594.85	12.18	14.43	26.61	12.88	614.02	1.85	22.27	Yes	Reading before install of well pumps for Barge system expansion.
MRW-10	6/21/2012	626.90	629.30	609.85	594.85	15.20	0.06	15.26	12.81	614.09	0.07	19.25	Yes	Connected to System
MRW-10	6/22/2012	626.90	629.30	609.85	594.85	11.24	4.49	15.73	9.80	617.10	3.01	23.21	Yes	Connected to System - LNAPL**measure
MRW-10	6/28/2012	626.90	629.30	609.85	594.85	14.55	0.25	14.80	12.20	614.70	-2.40	19.90	Yes	Connected to System - LNAPL**measure
MRW-10	12/17/2012	626.90	629.30	609.85	594.85	16.33	8.68	25.01	15.79	611.11	-3.59	18.12	Yes	

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Former Amoco Terminal
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Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
Well connected to Barge Dock Skimmer system - Phase 2														
MRW-10	3/25/2013	626.90	629.30	609.85	594.85	17.44	7.61	25.05	16.68	610.22	-0.88	17.01	Yes	
MRW-10	5/5/2013	626.90	629.30	609.85	594.85	14.72	11.09	25.81	14.70	612.20	1.97	19.73	Yes	
MRW-10	3/17/2015	626.90	629.30	609.85	594.85	17.30	0.15	17.45	14.93	611.97	1.74	17.15	Yes	
MRW-10	6/25/2015	626.90	629.30	609.85	594.85	15.85	0.17	16.02	13.49	613.41	1.45	20.73	Yes	
MRW-10	7/13/2015	626.90	629.30	609.85	594.85	15.74	0.15	15.89	13.37	613.53	1.33	18.71	Yes	
MRW-10	9/10/2015	626.90	629.30	609.85	594.85	15.60	0.03	15.63	13.21	613.69	0.17	21.73	Yes	
MRW-10	10/1/2015	626.90	629.30	609.85	594.85	14.90	0.02	14.92	12.50	614.40	0.98	19.55	Yes	
MRW-10	10/14/2015	626.90	629.30	609.85	594.85	15.25	0.02	15.27	12.85	614.05	-0.35	22.73	Yes	
MRW-10	4/21/2016	626.90	629.30	609.85	594.85	13.48	0.14	13.62	11.11	615.79	2.27	20.97	Yes	Connected to System
MRW-10	5/18/2016	626.90	629.30	609.85	594.85	13.37	0.15	13.52	11.00	615.90	0.10	21.08	Yes	
MRW-10	5/23/2016	626.90	629.30	609.85	594.85	13.52	0.12	13.64	11.15	615.75	-0.14	20.93	Yes	
MRW-10	5/31/2016	626.90	629.30	609.85	594.85	13.43	0.14	13.57	11.06	615.84	0.09	21.02	Yes	
MRW-10	6/14/2016	626.90	629.30	609.85	594.85	13.33	0.13	13.46	10.96	615.94	0.10	21.12	Yes	
MRW-10	6/21/2016	626.90	629.30	609.85	594.85	13.02	0.14	13.16	10.65	616.25	0.31	21.43	Yes	
MRW-10	7/6/2016	626.90	629.30	609.85	594.85	13.69	0.10	13.79	11.31	615.59	-0.66	20.76	Yes	
MRW-10	7/7/2016	626.90	629.30	609.85	594.85	13.75	0.01	13.76	11.35	615.55	-0.04	20.70	Yes	
MRW-10	7/15/2016	626.90	629.30	609.85	594.85	13.36	0.32	13.68	11.03	615.87	0.12	21.09	Yes	
MRW-10	7/25/2016	626.90	629.30	609.85	594.85	13.64	0.12	13.76	11.27	615.63	-0.24	20.81	Yes	
MRW-10	8/26/2016	626.90	629.30	609.85	594.85	14.56	0.10	14.66	12.18	614.72	-0.92	19.89	Yes	
MRW-10	9/2/2016	626.90	629.30	609.85	594.85	14.61	0.11	14.72	12.23	614.67	-0.05	19.84	Yes	
MRW-10	10/3/2016	626.90	629.30	609.85	594.85	14.69	0.11	14.80	12.31	614.59	-0.08	19.76	Yes	
MRW-10	10/6/2016	626.90	629.30	609.85	594.85	14.77	0.12	14.89	12.40	614.50	-0.16	19.68	Yes	
MRW-10	10/13/2016	626.90	629.30	609.85	594.85	14.87	0.10	14.97	12.49	614.41	-0.10	19.58	Yes	
MRW-10	5/2/2017	626.90	629.30	609.85	594.85	13.85	0.21	14.06	11.50	615.40	1.00	20.60	Yes	
MRW-10	5/8/2017	626.90	629.30	609.85	594.85	12.34	1.51	13.85	10.26	616.64	1.23	22.11	Yes	
MRW-10	5/18/2017	626.90	629.30	609.85	594.85	13.54	0.23	13.77	11.19	615.71	-0.92	20.91	Yes	
MRW-10	5/25/2017	626.90	629.30	609.85	594.85	12.69	0.25	12.94	10.34	616.56	0.85	21.76	Yes	
MRW-10	5/31/2017	626.90	629.30	609.85	594.85	12.63	0.25	12.88	10.28	616.62	0.06	21.82	Yes	
MWBD-1	10/9/2013	603.06	606.04	598.06	583.06	NP	0.00	5.15	2.17	600.89	NA	17.83	Yes	
MWBD-1	5/20/2014	603.06	606.04	598.06	583.06	NP	0.00	3.35	0.37	602.69	1.80	19.63	Yes	
MWBD-1	10/29/2014	603.06	606.04	598.06	583.06	NP	0.00	4.61	1.63	601.43	-1.26	18.37	Yes	
MWBD-1	5/4/2015	603.06	606.04	598.06	583.06	NP	0.00	4.95	1.97	601.09	-0.34	18.03	Yes	
MWBD-1	10/6/2015	603.06	606.04	598.06	583.06	NP	0.00	4.48	1.50	601.56	0.47	18.50	Yes	
MWBD-1	5/23/2016	603.06	606.04	598.06	583.06	NP	0.00	4.84	1.86	601.20	-0.36	18.14	Yes	
MWBD-1	10/3/2016	603.06	606.04	598.06	583.06	NP	0.00	4.73	1.75	601.31	0.11	18.25	Yes	
MWBD-1	6/29/2017	603.06	606.04	598.06	583.06	NP	0.00	3.98	1.00	602.06	0.75	19.00	Yes	
MWBD-1D	10/29/2014	603.12	605.42	553.12	548.12	NP	0.00	3.63	1.33	601.79	NA	53.67	Yes	
MWBD-1D	5/5/2015	603.12	605.42	553.12	548.12	NP	0.00	4.18	1.88	601.24	-0.55	53.12	Yes	
MWBD-1D	10/6/2015	603.12	605.42	553.12	548.12	NP	0.00	3.69	1.39	601.73	0.49	53.61	Yes	
MWBD-1D	5/23/2016	603.12	605.42	553.12	548.12	NP	0.00	3.82	1.52	601.60	-0.13	53.48	Yes	
MWBD-1D	10/3/2016	603.12	605.42	553.12	548.12	NP	0.00	3.70	1.40	601.72	0.12	53.60	Yes	
MWBD-1D	6/14/2017	603.12	605.42	553.12	548.12	NP	0.00	3.47	1.17	601.95	0.23	53.83	Yes	

Notes:

* Corrections for free product made using: TOC elevation-[depth to ground water-(product thickness * product density)]

Product density numbers used in column T

Table 3
Groundwater and LNAPL Gauging Data - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin

Well ID	Date	Ground Elev.	TOC Elev.	TOS Elev.	BOS Elev.	Depth to Product (feet BTOC)	Free Product Thickness (feet)	Depth to Water (feet BTOC)	Corrected DTW (feet bgs)	Corrected GW Elevation	Change in Corrected GW Elevation	Liquid in Well (feet)	Screen Submerged Below Water Table? (YES/NO)	Comment
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MW-45S & D and MW-46S & D not yet surveyed for elevations

MM = Not Measured

BOS = Bottom of Screen

BTOC = Below Top of Casing

NA = Not Applicable

NP = No Free Product

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
	Sample Date																		
MW-1			03/88 to 06/90 - No free product present in the well.																
MW-1			06/90 to 10/05 - The well was not sampled due to the presence of free product.																
MW-1	10/12/2005		660	<20	570	5000	2320	29	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	+10
MW-1	05/23/06		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-1	10/16/06		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-1	04/23/07		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-1	09/25/07		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
MW-2	03/88 to 12/89		No free product present in the well.																
MW-2	05/90 to 06/07		The well was not sampled due to the presence of free product.																
MW-2	6/26/2007		Abandoned																
MW-3	3/23/1988		30	30	20	50	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-3	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	3.50	141	NM	NM	NM	0.07
MW-3	10/21/2003		230	17	23	42	22.2	<4.0	NA	NA	490	NA	NA	3.70	-107	NM	NM	NM	NM
MW-3	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.24	009	NM	NM	NM	NM
MW-3	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	680	NA	1.90	067	NM	NM	NM	0.10
MW-3	4/19/2005		1.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.1	-010	NM	NM	NM	NM
MW-3	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	4.74	-089	NM	753	7.42	1.0
MW-3	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.6	-052	NM	840	7.40	1.0
MW-3	10/22/2006		4.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	6.1	-227	NM	NM	6.87	7.0
MW-3	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	1.04	-169.8	NM	NM	6.97	3.0
MW-3	9/29/2007		3.9	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.28	-059.1	NM	NM	7.05	5.0
MW-3	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.94	249.4	NM	NM	6.32	1.0
MW-3	10/25/2008		1.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.25	101.4	NM	NM	6.80	2.0
MW-3	10/14/2009		2.9	<2.0	<2.0	<6.0	<2.0	<2.0	NA	NA	NA	NA	NA	4.51	163.0	NM	NM	7.34	NM
MW-3	10/17/2011		18.2	1.2	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.89	-201.0	7.91	969	7.85	NM
MW-3	10/3/2012		29.9	2.2	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-3	10/2/2013		11.3	1.1	<0.34	<1.0	NA	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-3	10/30/2014		7.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-3	10/6/2015		9.8	2.2	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-3	10/5/2016		7.6	0.68J	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-4S	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4S	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-4S	1/31/1991		<1.0	<1.0	4.0	<2.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-4S	7/10/1991		<1.0	<1.0	2.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-4S	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1.0	NM	NM	NM	NM	NM	NM
MW-4S	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1.0	NM	NM	NM	NM	NM	NM
MW-4S	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	92	<100	NA	NM	NM	NM	NM	NM	NM
MW-4S	10/28/1993		<1.0	<1.0	4.2	<2.0	<1.0	<4.0	<1.6	NA	200	<140	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/27/1994		1.2	<1.0	3.8	<2.0	1.2	<4.0	<1.5	NA	230	270	NA	NM	NM	NM	NM	NM	NM
MW-4S	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	110	260	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/4/1995		1.4	1.7	<1.0	<2.0	1	<4.0	<1.6	NA	98	460	NA	NM	NM	NM	NM	NM	NM
MW-4S	11/14/1995		<1.0	<1.0	3.4	<2.0	<1.0	<4.0	NA	NA	160	440	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NA	160	320	NA	NM	NM	NM	NM	NM	NM
MW-4S	11/5/1997		<1.0	<1.0	<1.0	<2.0	2.3	<4.0	NA	NA	170	300	NA	0.90	062	6.9	700	7.04	NM
MW-4S	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	470	NA	3.07	NM	8.9	1010	6.89	NM
MW-4S	3/3/1999		<1.0	<1.0	3.4	3.3	NA	<4.0	NA	NA	140	NA	NA	3.25	NM	7.0	NM	NM	NM
MW-4S	3/3/1999	D	<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	230	NA	NM	NM	NM	NM	NM	NM
MW-4S	8/17/1999		<1.0	<1.0	3.6	<3.0	NA	<4.0	NA	NA	170	330	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/26/2000		0.357	<0.40	4.16	<0.55	<0.40	<0.30	NA	NA	204	752	NA	0.70	-048	NM	NM	NM	NM
MW-4S	10/10/2000		0.86	<0.20	11	0.46	1.7	<0.16	<1.1	NA	330	730	NA	1.40	-008	NM	NM	NM	4.00
MW-4S	4/24/2001		0.19	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	100	430	NA	0.70	155	NM	NM	NM	NM
MW-4S	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	57	270	NA	4.10	-019	NM	NM	NM	1.50
MW-4S	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	110	NA	2.30	177	NM	NM	NM	3.00
MW-4S	11/6/2002		0.18	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	350	NA	NM	NM	NM	NM	NM	NM
MW-4S	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.20	-001	NM	NM	NM	2.55
MW-4S	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	10.70	017	NM	NM	NM	NM
MW-4S	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	2.19	103	NM	NM	NM	NM
MW-4S	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	66 J	860	NA	1.00	-77	NM	NM	NM	4.00
MW-4S	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.7	-85	NM	NM	NM	NM
MW-4S	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.4	-149	NM	863	7.26	10
MW-4S	5/23/2006		<1.0	<1.0	1.1	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.5	-126	NM	851	7.23	1.0
MW-4S	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	4	-49.8	NM	NM	6.81	8.0
MW-4S	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	0.52	-210.0	NM	NM	6.87	10.0
MW-4S	9/25/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.04	-66.6	NM	NM	7.2	10.0
MW-4S	5/7/2008		<1.0	<1.0	11.6	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.62	-32.1	NM	NM	6.26	10.0
MW-4S	10/25/2008		<1.0	<1.0	1.9	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.16	-52.5	NM	NM	6.9	10.0
MW-4S	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-4D	7/21/1994		<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-4D	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-4D	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-4D	11/14/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	100	NA	NM	NM	NM	NM	NM	NM
MW-4D	4/22/1996		<1.0	<1.0	<1.0	2.0	1.2	<4.0	<2.5	NA	<50	110	NA	NM	NM	NM	NM	NM	NM
MW-4D	11/5/1997		1.5	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	0.70	046	6.7	400	7.92	NM
MW-4D	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	<100	NA	0.15	NM	8.1	735	7.2	NM
MW-4D	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	2.70	NM	6.4	NM	NM	NM
MW-4D	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	<50	<100	NA	0.20	-018	NM	NM	NM	NM
MW-4D	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	180	NA	0.50	002	NM	NM	NM	3.00
MW-4D	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	270	NA	0.70	039	NM	NM	NM	0.60
MW-4D	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	0.96	114	NM	NM	NM	1.00
MW-4D	11/6/2002		<0.13	<0.20	<0.22	0.53	<0.29	<0.16	<0.46	NA	<50	160	NA	NM	NM	NM	NM	NM	NM
MW-4D	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.20	-014	NM	NM	NM	0.36
MW-4D	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	4.00	-065	NM	NM	NM	NM
MW-4D	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.82	104	NM	NM	NM	NM
MW-4D	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	930	NA	0.80	-90	NM	NM	NM	1.00
MW-4D	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.9	-080	NM	NM	NM	NM
MW-4D	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.67	-264	NM	435	8.72	2.0
MW-4D	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.8	-150	NM	602	7.61	1.0
MW-4D	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	5.5	-313.5	NM	NM	8.54	2.0
MW-4D	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	0.51	-226.9	NM	NM	8.04	2.0
MW-4D	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.02	-206.6	NM	NM	8.26	1.0
MW-4D	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.3	200.2	NM	NM	9.15	5.0
MW-4D	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.66	-250.4	NM	NM	8.26	1.0
MW-4D	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-5	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-5	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-5	1/8/1992		1.0	5.0	<1.0	5.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-5	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-5	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	4.50	NM	6.9	NM	NM	NM
MW-5	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-5	8/18/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	4.10	087	NM	NM	NM	<1
MW-5	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	3.90	158	NM	NM	NM	0.30

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-5	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	2.10	139	NM	NM	NM	NM
MW-5	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	4.00	088	NM	NM	NM	0.10
MW-5	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	2.63	105	NM	NM	NM	0.10
MW-5	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	160	NA	NM	NM	NM	NM	NM	NM
MW-5	4/15/2003		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	8/28/2003		Abandoned																
MW-6	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-6	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	8/29/1990	D	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.5	8.5	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	1/31/1991		3.0	<1.0	<1.0	<2.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-6	1/31/1991	D	2.6	<1.0	<1.0	NA	NA	NA	<1.5	9.5	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-6	7/10/1991	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	2.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-6	1/8/1992	D	<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	4.2	NA	NA	10	NM	NM	NM	NM	NM	NM
MW-6	10/14/1992		32	<1.0	55	10	NA	<20	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	6/25/1993		65	4.2	160	17	14.3	<8	8.5	NA	570	180	NA	NM	NM	NM	NM	NM	NM
MW-6	10/28/1993		38	5.1	200	25	25.5	<8	10	NA	830	<100	NA	NM	NM	NM	NM	NM	NM
MW-6	4/27/1994		14	<1.0	100	4.4	9.6	<4.0	<1.5	NA	470	220	NA	NM	NM	NM	NM	NM	NM
MW-6	10/27/1994		180	4.7	120	22	22.2	<4.0	3.3	NA	920	180	NA	NM	NM	NM	NM	NM	NM
MW-6	4/4/1995		4.6	<1.0	11	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-6	11/15/1995		140	6.1	93	11	16.1	<4.0	NA	NA	730	310	NA	NM	NM	NM	NM	NM	NM
MW-6	4/22/1996		100	2.0	93	5.6	16.9	<4.0	0.72	NA	820	110	NA	NM	NM	NM	NM	NM	NM
MW-6	4/29/1997		450	13.0	500	31	57.8	<8.0	8.4	NA	2200	640	NA	NM	NM	NM	NM	NM	NM
MW-6	11/5/1997		200	1.5	170	27	31.4	<4.0	NA	NA	980	410	NA	1.00	044	7.1	800	7.29	NM
MW-6	11/3/1998		13	<1.0	15	<2.0	<1.0	<4.0	NA	NA	<100	<100	NA	0.73	NM	7.2	1040	6.95	NM
MW-6	3/3/1999		8.9	<1.0	13	2.1	NA	<4.0	NA	NA	<100	<100	NA	2.86	NM	5.8	NM	NM	NM
MW-6	8/17/1999		200	5.0	150	23	NA	5.4	NA	NA	930	170	NA	NM	NM	NM	NM	NM	NM
MW-6	4/26/2000		65	5.49	88.8	17.28	8.02	2.11	NA	NA	342	441	NA	2.20	042	NM	NM	NM	NM
MW-6	10/10/2000		46	0.76	62	7.9	4.57	<0.25	4.2	<0.25	280	270	NA	1.20	100	NM	NM	NM	0.20
MW-6	4/24/2001		20	0.33	27	1.3	0.81	<0.16	NA	NA	110	990	NA	0.60	159	NM	NM	NM	NM
MW-6	10/23/2001		13	<0.20	15	0.57	0.40	<0.16	NA	NA	58	NA	NA	1.20	018	NM	NM	NM	0.10
MW-6	4/23/2002		9.8	0.39	11	0.45	<0.29	<0.16	<1.1	NA	<50	130	NA	1.96	084	NM	NM	NM	0.20
MW-6	11/7/2002		46	1.50	60	23	10.05	<0.16	4.3	NA	270	380	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-6	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.38	093	NM	NM	NM	0.09
MW-6	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.00	047	NM	NM	NM	NM
MW-6	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	2.09	254	NM	NM	NM	NM
MW-6	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	<100	190	NA	1.30	55	NM	NM	NM	0.00
MW-6	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.0	82	NM	NM	NM	NM
MW-6	10/12/2005		3.3	0.60 J	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-6	5/06 to 9/07		Well Damaged Unable to Sample																
MW-6	9/25/2007		Well Damaged Unable to Sample																
MW-6	7/29/2009		Abandoned																
MW-6R	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA						
MW-7	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-7	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	1/31/1991		<1.0	20	<1.0	30	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-7	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-7	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-7	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-7	6/25/1993		<1.0	<1.0	<1.0	<2.0	1.5	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<110	NA	NM	NM	NM	NM	NM	NM
MW-7	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	4/4/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	4/4/1995	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	11/14/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<2.4	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NA	<50	270	NA	NM	NM	NM	NM	NM	NM
MW-7	11/5/1997		2.8	<1.0	2.8	<2.0	<1.0	<4.0	NA	NA	52	<110	NA	1.20	050	7.3	200	7.3	NM
MW-7	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.44	NM	8.2	288	6.95	NM
MW-7	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	0.60	NM	5.1	NM	NM	NM
MW-7	8/17/1999		<1.0	35	<1.0	<3.0	NA	<4.0	NA	NA	<100	110	NA	NM	NM	NM	NM	NM	NM
MW-7	4/26/2000		<0.15	8.17	<0.5	0.631	0.748	<0.3	NA	NA	<50	233	NA	2.80	062	NM	NM	NM	NM
MW-7	10/10/2000		<0.13	0.22	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	190	NA	5.00	177	NM	NM	NM	0.30
MW-7	4/24/2001		<0.13	13	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	4100	NA	8.00	147	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-7	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	100	NA	2.30	075	NM	NM	NM	NM
MW-7	10/23/2001	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-7	4/23/2002		<0.13	0.26	<0.22	0.46	<0.29	<0.16	<1.1	NA	<50	<100	NA	0.89	-003	NM	NM	NM	NM
MW-7	4/23/2002	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	NA	NA	NM	NM	NM	NM	NM	NM
MW-7	11/7/2002		1.6	<0.20	<0.22	0.55	<0.29	<0.16	<0.46	NA	57	200	NA	NM	NM	NM	NM	NM	NM
MW-7	8/28/2003		Abandoned																
MW-8	3/23/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-8	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-8	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-8	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-8	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-8	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-8	6/25/1993		<1.0	<1.0	<1.0	<2.0	3.5	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<120	NA	NM	NM	NM	NM	NM	NM
MW-8	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	10/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	4/4/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	11/14/1995		<1.0	3.4	2.1	12	4.4	<4.0	NA	NA	53	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	10/8/1996		<0.5	<2	<2	<3	<2.0	<2	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	180	NA	NM	NM	NM	NM	NM	NM
MW-8	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<110	NA	1.30	057	7.1	800	7.19	NM
MW-8	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	<110	NA	2.98	NM	7.7	930	NM	NM
MW-8	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	4.53	NM	5.3	NM	NM	NM
MW-8	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-8	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	<50	138	NA	0.20	134	NM	NM	NM	NM
MW-8	10/10/2000		0.29	0.72	<0.22	0.34	<0.29	<0.16	<1.1	NA	<50	790	NA	1.20	132	NM	NM	NM	0.30
MW-8	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	3.80	209	NM	NM	NM	NM
MW-8	10/23/2001		<0.13	<0.20	<0.22	0.28	0.41	<0.16	NA	NA	<50	<100	NA	3.70	097	NM	NM	NM	0.10
MW-8	4/23/2002		<0.13	<0.20	<0.22	0.41	<0.29	<0.16	<1.1	NA	<50	880	NA	3.53	241	NM	NM	NM	0.20
MW-8	11/7/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	150	NA	NM	NM	NM	NM	NM	NM
MW-8	8/18/2003		Abandoned																
MW-9	3/23/1988		370	170	14000	1500	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

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Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-9	9/21/1988		610	44	290	1200	NA	NA	NA	NA	NA	NA	10300	NM	NM	NM	NM	NM	NM
MW-9	4/27/1989		2610	1280	1600	3650	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	8/29/1990		13800	14200	5710	1910	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	1/31/1991		1240	701	1300	2230	NA	1700	NA	NA	NA	NA	210000	NM	NM	NM	NM	NM	NM
MW-9	1/31/1991	D	<50	<50	670	NA	NA	NA	86	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	7/10/1991		627	255	794	1130	NA	750	NA	NA	NA	NA	69000	NM	NM	NM	NM	NM	NM
MW-9	1/8/1992		961	508	1090	1950	NA	1310	NA	NA	NA	NA	136000	NM	NM	NM	NM	NM	NM
MW-9	10/14/1992		56	222	738	843	NA	40	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	3/3/1999		<100	<100	520	480	NA	<400	NA	NA	11000	9700	NA	1.98	NM	7.2	NM	NM	NM
MW-9	8/17/1999		99	86	920	760	NA	<40	NA	NA	16000	5300	NA	NM	NM	NM	NM	NM	NM
MW-9	8/18/2000		74	31	530	400	860	<16	340	NA	89000	4600	NA	0.70	-057	NM	NM	NM	6.00
MW-9	10/10/2000		<550	<40	<91	<1500	1600	<32	<220	NA	536000	4800	NA	2.40	173	NM	NM	NM	3.00
MW-9	10/21/2003		290	54	830	1100	1000	<4.0	NA	NA	9300	NA	NA	6.31	086	NM	NM	NM	NM
MW-9	4/20/2004		320	27	690	650	830	22	NA	NA	8000	NA	NA	2.21	191	NM	NM	NM	NM
MW-9	11/18/2004		256	14.6	542	585	627	<5.0	159	NA	5650	6900	NA	1.00	44	NM	NM	NM	0.00
MW-9	4/19/2005		186	2.2	241	42.6	216.1	<1.0	81.3	NA	NA	NA	NA	1.3	-10	NM	NM	NM	NM
MW-9	10/12/2005		380	31	570	287	440	9.9 J	170	NA	NA	NA	NA	0.94	-122	NM	920	7.61	2.0
MW-9	5/23/2006		307	12.0	588	304	447	<5.0	190	NA	NA	NA	NA	1.1	-118	NM	886	7.58	1.0
MW-9	5/23/2006	D	339	<50.0	658	<150	559	<50.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	10/22/2006		237	12.5	442	204	292	<10.0	149	NA	NA	NA	NA	10.10	-143.5	NM	NM	6.9	3.00
MW-9	4/29/2007		319	17.0	554	213	263	<1.0	190	NA	NA	NA	NA	0.38	-132.3	NM	NM	7.07	5.00
MW-9	9/25/2007		314	13.7	443	256	313	<5.0	167	NA	NA	NA	NA	0.06	-10.4	NM	NM	7.01	3.00
MW-9	5/7/2008		314	17.5	521	357	340	<5.0	201	NA	NA	NA	NA	2.45	8.2	NM	NM	6.48	5.00
MW-9	10/25/2008		311	17.9	487	301	330	<5.0	169	NA	NA	NA	NA	0.57	-19.2	NM	NM	7.05	10.00
MW-9	10/27/2010		239	15.6	461	296	319	<5.0	150	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-9	10/17/2011		209	13.0	358	225	260	<1.0	118	NA	NA	NA	NA	2.77	-176	7.67	1001	7.97	NM
MW-9	10/3/2012		198	14.0	376	294	325	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	3/23/1988		230	<1.0	90	40	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	9/21/1988		80	11	3.0	15	NA	NA	NA	NA	NA	NA	600	NM	NM	NM	NM	NM	NM
MW-10	4/27/1989		260	42	18	45	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	8/29/1990		235	27	69	63	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	1/31/1991		69	7.0	15	17	NA	30	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-10	7/10/1991		26	13	31	22	NA	30	NA	NA	NA	NA	2000	NM	NM	NM	NM	NM	NM
MW-10	1/8/1992		3.0	<1.0	17	11	NA	30	NA	NA	NA	NA	2000	NM	NM	NM	NM	NM	NM
MW-10	10/14/1992		11	7.0	21	10	NA	<20	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	3/3/1999		110	7.9	35	25	NA	<4.0	NA	NA	1000	350	NA	3.32	NM	7.5	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-10	8/17/1999		5.3	4.1	6	3	NA	<4.0	NA	NA	330	<100	NA	NM	NM	NM	NM	NM	NM
MW-10	8/18/2000		48	12	49	43	36	<0.8	18	NA	1400	1000	NA	2.40	-096	NM	NM	NM	10+
MW-10	10/10/2000		140	31	120	130	103	<1.6	76	NA	2800	860	NA	2.10	106	NM	NM	NM	10.00
MW-10	10/21/2003		72	11	79	50	27	<4.0	NA	NA	910	NA	NA	1.10	-120	NM	NM	NM	NM
MW-10	4/20/2004		400	46	210	150	149	21	NA	NA	2900	NA	NA	2.40	056	NM	NM	NM	NM
MW-10	11/18/2004		90.6	3.0	61.6	31.0	41.5	<1.0	21.9	NA	1100	830	NA	1.10	-134	NM	NM	NM	4.00
MW-10	4/19/2005		7.6	<1.0	2.9	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.2	-040	NM	NM	NM	NM
MW-10	10/12/2005		4.3	<1.0	0.61 J	<3.0	<1.0	<1.0	1.5	NA	NA	NA	NA	1.85	-090	NM	996	7.66	+10
MW-10	10/12/2005	D	10	0.91 J	1.2	<3.0	<1.0	<1.0	1.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	5/23/2006		6.7	<1.0	3.7	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.9	-087	NM	1015	7.60	+10
MW-10	5/23/2006	D	6.6	<1.0	3.6	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	10/22/2006		12.1	0.73 J	8.5	3.2	1.3	<1.0	1.2	NA	NA	NA	<1000	6.80	-98.2	NM	NM	7.07	10.00
MW-10	10/22/2006	D	12.2	0.76 J	8.9	3.0	1.5	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	4/29/2007		24.1	<1.0	8.7	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.14	-94.2	NM	NM	7.18	10.00
MW-10	4/29/2007	D	24.4	<1.0	8.7	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	10/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	0.25	-23.6	NM	NM	7.16	5.00
MW-10	5/10/2008		<1.0	<1.0	5.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.95	-32.4	NM	NM	6.52	NM
MW-10	5/10/2008	D	<1.0	<1.0	4.7	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	10/28/2008		4.0	<1.0	4.2	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.86	0.86	NM	NM	6.97	4.00
MW-10	10/14/2009		4.3	<1.0	1.9	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	1.54	-39	NM	NM	7.21	NM
MW-10	10/27/2010		1.1	1.6	1.8	3.0	1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	10/17/2011		6.4	<1.0	1.7	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	2.67	-187	8.47	895	7.99	NM
MW-10	10/3/2012		9.3	<1.0	1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	10/3/2012	D	9.0	<1.0	1.1	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	5/21/2014		<1.0	<1.0	5.0	<3.0	1.7	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	5/21/2014	D	<1.0	<1.0	5.1	<3.0	<2.8	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	5/4/2015		22.2	0.72J	5.2	3.2	<1.62	0.77J	1.3	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-10	10/5/2016		3.1	<0.39	2.3	2.3J	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	3/23/1988		70	<1.0	7.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	10	NM	NM	NM	NM	NM	NM
MW-11	4/27/1989		147	19	18	19	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	8/29/1990		69	3.0	24	9.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-11	1/31/1991		125	14	40	12	NA	20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-11	7/10/1991		87	10	20	9.0	NA	30	NA	NA	NA	NA	2000	NM	NM	NM	NM	NM	NM
MW-11	1/8/1992		24	<1.0	3.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-11	10/14/1992		180	10	100	6.0	NA	<20	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 4
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Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	--
MW-11	3/3/1999		18	<1.0	4.5	<2.0	NA	<4.0	NA	NA	<100	<100	NA	4.50	NM	7.2	NM	NM	NM
MW-11	8/17/1999		3.7	<1.0	3.3	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-11	8/18/2000		16	0.35	0.51	0.7	0.25	<0.16	<1.1	NA	73	<100	NA	0.50	036	NM	NM	NM	6.00
MW-11	10/10/2000		73	3.6	23	11	4.5	<0.16	3.8	NA	510	310	NA	3.10	140	NM	NM	NM	1.00
MW-11	8/18/2003		Abandoned																
MW-12			03/88 to 12/89 - No free product present in the well.																
MW-12			05/90 to present - The well was not sampled due to the presence of free product.																
MW-13	3/23/1988		<1.0	<1.0	<1.0	10	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-13	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-13	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-13	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-13	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-13	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-13	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-13	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-13	8/18/2000		0.16	0.21	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	7.30	173	NM	NM	NM	1.00
MW-13	8/18/2003		Abandoned																
MW-14			09/88 to 12/89 - No free product present in the well.																
MW-14			05/90 to present - The well was not sampled due to the presence of free product.																
MW-15S	9/21/1988		18	16	7.0	16	NA	NA	NA	NA	NA	NA	510	NM	NM	NM	NM	NM	NM
MW-15S	4/27/1989		36	2.0	5.0	6.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	8/29/1990		4.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	1/31/1991		2.0	3.0	<1.0	2.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-15S	1/31/1991	D	1.9	1.8	<1.0	NA	NA	NA	<1.5	<0.20	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-15S	7/10/1991	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	<0.20	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-15S	1/8/1992	D	<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	<0.2	NA	NA	86	NM	NM	NM	NM	NM	NM
MW-15S	10/14/1992		1.0	2.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/14/1992	D	1.4	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	58	<100	NA	NM	NM	NM	NM	NM	NM
MW-15S	6/25/1993		3.3	2.1	<1.0	2.4	5.1	<4.0	<1.6	NA	89	<100	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/28/1993		1.4	<1.0	<1.0	<2.0	4.0	<4.0	<1.5	NA	54	<100	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	130	<100	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-15S	10/27/1994		1.4	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	52	230	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/5/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	370	NA	NM	NM	NM	NM	NM	NM
MW-15S	11/14/1995		3.1	1.4	1.7	<2.0	1.2	<4.0	NA	NA	110	580	NA	NM	NM	NM	NM	NM	NM
MW-15S	04/22/1996		1.6	<1.0	<1.0	<2.0	<1.0	<4.0	<0.26	NA	<50	650	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/8/1996		1	<2	<2	<3	<2.0	2	NA	NA	180	600	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/29/1997		7.6	1.8	1.5	12	3.5	<4.0	<1.0	NA	170	120	NA	NM	NM	NM	NM	NM	NM
MW-15S	11/5/1997		1.1	<1.0	<1.0	<2.0	1.3	<4.0	NA	NA	79	99	NA	1.30	027	7.3	800	7.58	NM
MW-15S	11/3/1998		12	3	3.2	<2.0	<1.0	13	NA	NA	170	470	NA	0.88	NM	7.7	937	NM	NM
MW-15S	3/3/1999		7.4	<1.0	1.6	<2.0	NA	<4.0	NA	NA	<100	510	NA	2.80	NM	5.8	NM	NM	NM
MW-15S	8/17/1999		6.5	2.6	3	<3.0	NA	<4.0	NA	NA	200	410	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	50.7	744	NA	0.20	080	NM	NM	NM	NM
MW-15S	10/10/2000		5.7	0.52	8.3	2.7	22.6	<0.16	1.7	NA	270	360	NA	0.10	028	NM	NM	NM	6.00
MW-15S	10/23/2001		3.1	<0.20	1.2	0.30	0.35	<0.16	NA	NA	71	400	NA	1.00	-002	NM	NM	NM	1.50
MW-15S	4/23/2002		0.73	<0.20	<0.22	0.72	0.49	<0.16	<1.1	NA	<50	490	NA	2.75	174	NM	NM	NM	0.30
MW-15S	1/7/2002		1.6	<0.20	<0.22	0.55	<0.29	<0.16	<0.46	NA	57	200	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/15/2003		3.2	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.30	066	NM	NM	NM	0.73
MW-15S	10/21/2003		33	3.1	25	<3.0	<1.0	<4.0	NA	NA	390	NA	NA	1.80	056	NM	NM	NM	NM
MW-15S	4/20/2004		14	<1.0	7.9	<3.0	<1.0	<4.0	NA	NA	110	NA	NA	1.63	121	NM	NM	NM	NM
MW-15S	11/18/2004		1.7	<1.0	1.5	<3.0	<1.0	<1.0	<1.0	NA	<100	490	NA	1.30	097	NM	NM	NM	0.10
MW-15S	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.5	50	NM	NM	NM	NM
MW-15S	10/12/2005		1.4	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/15/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15S	10/17/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.34	-254	7.89	1001	7.97	NM
MW-15S	10/3/2012		16.7	1.1	22.5	3.4	5.4	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	7/21/1994		<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-15D	11/14/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-15D	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.2	NA	<50	150	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/8/1996		<0.5	<2	<2	<3	<2.0	<2	NA	NA	<100	2300	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NA	<50	430	NA	NM	NM	NM	NM	NM	NM
MW-15D	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	240	NA	1.00	045	7	900	7.04	NM
MW-15D	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	<100	NA	0.17	NM	7.3	890	NM	NM
MW-15D	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	3.79	NM	6	NM	NM	NM
MW-15D	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.3	NA	NA	<50	<100	NA	0.10	-014	NM	NM	NM	NM
MW-15D	10/10/2000		0.13	<0.20	<0.22	0.58	<0.29	<0.16	<1.1	NA	<50	560	NA	0.20	132	NM	NM	NM	8.00
MW-15D	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	140	NA	1.20	-120	NM	NM	NM	3.00
MW-15D	4/23/2002		2.60	0.45	0.48	1.10	0.55	<0.16	2.1	NA	<50	<100	NA	1.35	-012	NM	NM	NM	3.00
MW-15D	1/7/2002		0.31	<0.20	<0.22	0.58	<0.29	<0.16	<0.46	NA	<50	130	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/15/2003		9.6	1.5	1.4	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.20	-046	NM	NM	NM	0.80
MW-15D	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.70	-046	NM	NM	NM	NM
MW-15D	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.50	064	NM	NM	NM	NM
MW-15D	11/18/2004		7.1	0.57 J	<1.0	<3.0	<1.0	<1.0	<1.0	NA	53.2 J	88 J	NA	2.00	-103	NM	NM	NM	0.60
MW-15D	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.8	-80	NM	NM	NM	NM
MW-15D	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/27/2010		25.1	2.5	2.6	4.2	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/17/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.62	-223	7.8	822	8.38	NM
MW-15D	10/3/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-15D	10/3/2012	D	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	9/21/1988		770	3400	710	2800	NA	NA	NA	NA	NA	NA	37000	NM	NM	NM	NM	NM	NM
MW-16	4/27/1989		1540	2380	358	3410	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	7/11/1989		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM
MW-16	8/29/1990		195	2340	360	3130	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	8/29/1990	D	1000	3400	660	3500	NA	<100	45	<20	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	1/31/1991		169	2869	599	3410	NA	510	NA	NA	NA	NA	47000	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-16	1/31/1991	D	1200	4200	670	NA	NA	NA	120	<40	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16	7/10/1991		689	4260	817	3800	NA	550	NA	NA	NA	57000	NM	NM	NM	NM	NM	NM	NM
MW-16	7/10/1991	D	360	3200	660	2800	NA	NA	<7.5	24	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-16			08/91 to present - The well was not sampled due to the presence of free product.																
P-17DD	9/13/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-18	9/21/1988		55	<1.0	1	9	NA	NA	NA	NA	NA	330	NM	NM	NM	NM	NM	NM	NM
MW-18	4/27/1989		641	27	7.0	31	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-18	8/29/1990		308	11	10	17	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-18	1/31/1991		166	13	<1.0	15	NA	80	NA	NA	NA	3000	NM	NM	NM	NM	NM	NM	NM
MW-18	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-18	1/8/1992		57	3.0	<1.0	<1.0	NA	<20	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-18	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-18	8/18/2000		0.62	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	4.50	190	NM	NM	NM	1.00
MW-18	8/18/2003		Abandoned																
MW-19	7/11/1989		3.0	<2.0	9.0	9.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	8/29/1990		<2.0	<2.0	9.0	36	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	8/29/1990	D	2.3	<1.0	6.3	35	NA	<1.0	23	<0.20	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	1/31/1991		<1.0	<1.0	3.0	3.0	NA	<20	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-19	7/10/1991		1.0	1.0	7.0	28	NA	<20	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-19	7/10/1991	D	2.2	<1.0	8.8	22	NA	NA	33	<0.20	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	1/8/1992		2.0	<1.0	7.0	56	NA	<20	NA	NA	NA	2000	NM	NM	NM	NM	NM	NM	NM
MW-19	1/8/1992	D	2.4	<2.0	9.4	51	NA	NA	37	<0.40	NA	NA	1900	NM	NM	NM	NM	NM	NM
MW-19	10/14/1992		1.0	1	2.0	25	NA	<20	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-19	10/14/1992	D	1.8	<1.0	3.2	32	60	<4.0	NA	NA	600	420	NA	NM	NM	NM	NM	NM	NM
MW-19	6/25/1993		2.0	<1.0	4.5	48	90	<4.0	18	NA	540	330	NA	NM	NM	NM	NM	NM	NM
MW-19	10/28/1993		1.9	<1.0	2.1	31	66	<4.0	27	NA	450	190	NA	NM	NM	NM	NM	NM	NM
MW-19	4/27/1994		1.6	<1.0	1.8	19	45.7	<4.0	23	NA	380	460	NA	NM	NM	NM	NM	NM	NM
MW-19	10/28/1994		2.2	<1.0	1.7	43	105	<4.0	33	NA	790	660	NA	NM	NM	NM	NM	NM	NM
MW-19	4/4/1995		2.6	2.1	6.8	59	136	4.3	30	NA	950	1200	NA	NM	NM	NM	NM	NM	NM
MW-19	11/14/1995		2.8	<1.0	2.5	62	158	<4.0	NA	NA	960	1900	NA	NM	NM	NM	NM	NM	NM
MW-19	4/22/1996		1.9	<1.0	2.3	63	172	<4.0	36	NA	13000	1800	NA	NM	NM	NM	NM	NM	NM
MW-19	10/8/1996		2	<2	2	61	147	3	NA	NA	910	2100	NA	NM	NM	NM	NM	NM	NM
MW-19	4/29/1997		2.3	<1.0	3.2	59	114	<4.0	44	NA	420	220	NA	NM	NM	NM	NM	NM	NM
MW-19	11/5/1997		1.2	<1.0	<1.0	5	27	12	NA	NA	280	98	NA	0.50	021	7.4	1009	7.34	NM

Table 4
Groundwater Analytical Results - Terminal
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Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-19	11/5/1998		<5.0	<5.0	<5.0	19	199	<20	NA	NA	620	1500	NA	3.23	NM	7.3	1200	6.84	NM
MW-19	3/3/1999		2.2	<1.0	2.1	29	NA	<4.0	NA	NA	<100	1900	NA	3.70	NM	7.2	NM	NM	NM
MW-19	8/17/1999		3.3	2.5	<1.0	8.3	NA	<4.0	NA	NA	920	1500	NA	NM	NM	NM	NM	NM	NM
MW-19	4/26/2000		0.871	<2.0	<2.50	6.2	122	<1.50	NA	NA	597	2670	NA	0.70	-073	NM	NM	NM	NM
MW-19	10/10/2000		3.6	<2.0	<2.2	9.5	137	<1.6	100	NA	840	2300	NA	0.50	032	NM	NM	NM	10.00
MW-19	4/24/2001		2.2	1.3	2.0	8.5	135	3.0	76	NA	820	2400	NA	1.70	170	NM	NM	NM	NM
MW-19	10/23/2001		1.1	0.27	0.94	3.8	92	<0.32	NA	NA	650	2600	NA	1.70	-118	NM	NM	NM	7.50
MW-19	4/23/2002		0.23	<0.20	<0.22	0.32	5.5	0.29	3.3	NA	56	360	NA	1.02	-023	NM	NM	NM	8.00
MW-19	11/8/2002		1.3	<0.20	0.69	2.2	133	1.4	59	NA	730	1300	NA	NM	NM	NM	NM	NM	NM
MW-19	4/15/2003		1.0	<1.0	<1.0	<3.0	94	<4.0	NA	NA	380	NA	NA	1.30	000	NM	NM	NM	>3.3
MW-19	10/21/2003		Abandoned - replaced (as MW-19 again) per city request due to new road construction.																
MW-19	10/21/2003		6.7	<1.0	2.5	14	95	<4.0	NA	NA	470	NA	NA	5.31	014	NM	NM	NM	NM
MW-19	4/20/2004		4.6	<1.0	3.9	<3.0	29	<4.0	NA	NA	430	NA	NA	2.06	119	NM	NM	NM	NM
MW-19	11/17/2004		1.8	<1.0	1.1	19.9	235.3	<1.0	12.2	NA	883	2400	NA	1.50	-6.3	NM	NM	NM	2.00
MW-19	11/17/2004	D	0.84 J	<1.0	<1.0	19.6	217.9	<4.0	NA	NA	992	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	4/19/2005		<1.0	<1.0	<1.0	13.1	254.1	<1.0	7.6	NA	NA	NA	NA	1.0	8	NM	NM	NM	NM
MW-19	4/19/2005	D	1.2	<1.0	<1.0	11.5	242.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19	9/7/2005		Abandoned - replaced with MW-19R per city request due to retention pond re-construction.																
MW-19R	10/12/2005		320	12	150	148.9	248	3.0	270	NA	NA	NA	NA	1.40	-114	NM	1182	7.36	+10
MW-19R	10/12/2005	D	320	13	150	148.4	236	2.0 J	260	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-19R	05/23/06		No sample collected due to presence of product																
MW-19R	10/16/06		No sample collected due to presence of product																
MW-19R	04/23/07		No sample collected due to presence of product																
MW-19R	09/25/07		No sample collected due to presence of product																
MW-19R	05/01/08		No sample collected due to presence of product																
MW-19R	10/20/08		No sample collected due to presence of product																
MW-20	7/11/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-20	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-20	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-20	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-20	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-20	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-20	6/25/1993		1.4	2.1	1.8	5.8	5.5	<4.0	<1.6	NA	130	<100	NA	NM	NM	NM	NM	NM	NM
MW-20	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	83	<100	NA	NM	NM	NM	NM	NM	NM
MW-20	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	79	110	NA	NM	NM	NM	NM	NM	NM

Table 4
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Former Amoco Terminal
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Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-20	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	84	470	NA	NM	NM	NM	NM	NM	NM
MW-20	4/4/1995		<1.0	<1.0	1.2	<2.0	<1.0	<4.0	<1.8	NA	60	360	NA	NM	NM	NM	NM	NM	NM
MW-20	11/14/1995		<1.0	<1.0	<1.0	<2.0	2.1	<4.0	NA	NA	220	2900	NA	NM	NM	NM	NM	NM	NM
MW-20	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NA	130	440	NA	NM	NM	NM	NM	NM	NM
MW-20	10/8/1996		0.6	<2	<2	<3	2	<2	NA	NA	200	770	NA	NM	NM	NM	NM	NM	NM
MW-20	4/29/1997		<1.0	<1.0	1.2	<2.0	1.2	6.5	<1.0	NA	290	590	NA	NM	NM	NM	NM	NM	NM
MW-20	11/5/1997		<1.0	<1.0	1.4	<2.0	3	<4.0	NA	NA	100	54	NA	0.90	-007	7.9	762	7.36	NM
MW-20	11/5/1998		<5.0	<5.0	<5.0	<10	<5.0	<20	NA	NA	<500	360	NA	0.53	NM	8	900	6.86	NM
MW-20	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	2.86	NM	7.3	NM	NM	NM
MW-20	8/17/1999		<1.0	1.3	5.8	<3.0	NA	<4.0	NA	NA	130	1400	NA	NM	NM	NM	NM	NM	NM
MW-20	4/26/2000		0.518	<0.40	4.92	1.631	5.61	<0.30	NA	NA	264	1600	NA	0.20	-024	NM	NM	NM	NM
MW-20	10/10/2000		0.72	0.25	6.5	2.50	7.1	<0.16	17	NA	260	760	NA	0.50	030	NM	NM	NM	10.00
MW-20	8/18/2003		Abandoned																
MW-21	7/11/1989		1970	31	27	50	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	8/29/1990		45	<2.0	<2.0	7.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	1/31/1991		750	3.0	<1.0	5.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-21	7/10/1991		85	1.0	<1.0	3.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-21	1/8/1992		1570	37	34	78	NA	50	NA	NA	NA	NA	7000	NM	NM	NM	NM	NM	NM
MW-21	8/18/2000		74	<0.20	<0.22	0.82	<0.29	<0.16	<1.1	NA	100	<100	NA	5.60	207	NM	NM	NM	<1.0
MW-21	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	6.36	167	NM	NM	NM	NM
MW-21	11/16/2004		Well Damaged																
MW-21	4/19/2005		1.8	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.8	-72	NM	NM	NM	NM
MW-21	10/12/2005		40	1.1	2.0	2.7	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	5/23/2006		2840	82.1	181	161	40.6	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	10/22/2006		1300	20.7	40.9	40.4	2.01 J	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	4/29/2007		59.3	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-21	6/26/2007		Abandoned																
MW-22			06/89 to present - The well was not sampled due to the presence of free product.																
MW-23			06/89 to present - The well was not sampled due to the presence of free product.																
MW-24			06/89 to present - The well was not sampled due to the presence of free product.																
MW-25			06/89 to present - The well was not sampled due to the presence of free product.																

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-26			06/89 to present - The well was not sampled due to the presence of free product.																
MW-27			06/89 to present - The well was not sampled due to the presence of free product.																
MW-28	7/11/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	8/29/1990	D	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-28	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-28	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-28	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<140	NA	NM	NM	NM	NM	NM	NM
MW-28	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	4/5/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	11/15/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.26	NA	<50	110	NA	NM	NM	NM	NM	NM	NM
MW-28	10/8/1996		4	33	18	75	33	<2	NA	NA	360	250	NA	NM	NM	NM	NM	NM	NM
MW-28	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<110	NA	0.80	043	6.9	111	7.44	NM
MW-28	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	<100	NA	0.62	NM	8.3	1290	NM	NM
MW-28	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	2.51	NM	8.1	NM	NM	NM
MW-28	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	<50	<100	NA	0.30	083	NM	NM	NM	NM
MW-28	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.13	<1.1	NA	<50	450	NA	0.60	253	NM	NM	NM	0.40
MW-28	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	250	NA	0.90	213	NM	NM	NM	NM
MW-28	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	1.50	-006	NM	NM	NM	0.20
MW-28	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	2.67	136	NM	NM	NM	0.30
MW-28	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-28	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.30	177	NM	NM	NM	0.13
MW-28	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.70	105	NM	NM	NM	NM
MW-28	4/20/2004		<1.0	<1.0	<1.0	<3.0	1.1	<4.0	NA	NA	<100	NA	NA	3.31	270	NM	NM	NM	NM
MW-28	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	210	NA	2.70	107	NM	NM	NM	0.10
MW-28	4/19/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.1	50	NM	NM	NM	NM
MW-28	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.8	-122	NM	1174	7.78	0.2
MW-28	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.1	-100	NM	1098	7.72	0.2
MW-28	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	9.9	118	NM	NM	7.22	0.0

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-28	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	1.59	95.2	NM	NM	7.13	1.0
MW-28	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.55	51.6	NM	NM	7.42	1.0
MW-28	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.06	235.9	NM	NM	6.86	1.0
MW-28	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.22	153.3	NM	NM	7.05	0.0
MW-28	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.28	154	NM	NM	7.57	NM
MW-28	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	10/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.09	37	9.35	1354	8.06	NM
MW-28	10/3/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-28	5/7/2013		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	1.74	359.6	9.3	1666	6.89	NM
MW-30S	7/11/1989		2670	282	80	368	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	8/29/1990		1850	293	30	374	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	8/29/1990	D	1700	250	23	280	NA	9.8	150	0.90	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	1/31/1991		578	73	3.0	840	NA	160	NA	NA	NA	7000	NM	NM	NM	NM	NM	NM	NM
MW-30S	1/31/1991	D	850	100	<25	NA	NA	NA	75	<5.0	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	7/10/1991		904	59	<1.0	90	NA	160	NA	NA	NA	9000	NM	NM	NM	NM	NM	NM	NM
MW-30S	7/10/1991	D	1400	<100	<100	<100	NA	NA	<1.5	<20	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	1/8/1992		68	<1.0	<1.0	10	NA	60	NA	NA	NA	2000	NM	NM	NM	NM	NM	NM	NM
MW-30S	1/8/1992	D	130	2.6	<1.0	4.6	NA	NA	2.0	<0.40	NA	NA	1500	NM	NM	NM	NM	NM	NM
MW-30S	10/14/1992		28	6	<1.0	1	NA	<20	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-30S	10/14/1992	D	36	1.3	1.4	3.7	1.3	<4.0	NA	NA	490	<100	NA	NM	NM	NM	NM	NM	NM
MW-30S	6/25/1993		230	42	2.5	69	12.5	<8.0	3.5	NA	1400	<100	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	15	NA	<50	<110	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/27/1994		890	35	24	47	28	<20	22	NA	3600	270	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/28/1994		830	46	43	59	33	<8.0	27	NA	4200	240	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/6/1995		2200	140	70	110	48	<20	190	NA	8900	1400	NA	NM	NM	NM	NM	NM	NM
MW-30S	11/15/1995		1800	140	200	220	165	<40	NA	NA	7500	950	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/22/1996		1800	170	150	250	182	<40	100 E	NA	8200	720	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/8/1996		600	44	68	67	53	43	NA	NA	3900	640	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/8/1996	D	780	41	67	70	49	61	NA	NA	3400	350	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/29/1997		600	33	62	62	39	33	37	NA	4600	370	NA	NM	NM	NM	NM	NM	NM
MW-30S	11/5/1997		150	5.4	24	17	10.5	7.5	NA	NA	1700	1300	NA	0.90	028	7	432	7.52	NM
MW-30S	11/3/1998		3100	660	300	1400	396	210	NA	NA	13000	150	NA	0.25	NM	6.5	970	7.03	NM
MW-30S	3/3/1999		3600	580	400	1200	NA	1200	NA	NA	14000	2000	NA	3.05	NM	6	NM	NM	NM
MW-30S	8/17/1999		1500	180	230	310	NA	800	NA	NA	9000	1700	NA	1.00	NM	9.2	NM	NM	NM
MW-30S	4/26/2000		1130	73.9	124	73	60.1	<1.50	NA	NA	3660	1800	NA	0.30	-084	NM	NM	NM	NM

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Former Amoco Terminal
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Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-30S	10/10/2000		1100	64	120	73	54	<0.16	100	NA	5400	1400	NA	0.20	099	NM	NM	NM	0.40
MW-30S	4/24/2001	D	1400	87	160	99	73	<0.16	150	NA	6400	1600	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/23/2001		1300	190	200	300	175	<4.9	NA	NA	6900	2700	NA	1.00	170	NM	NM	NM	0.10
MW-30S	4/23/2002		2900	810	300	920	306	<3.2	330	NA	11000	2500	NA	1.53	063	NM	NM	NM	0.20
MW-30S	11/6/2002		1400	140	200	220	164	<4.0	220	NA	5900	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	11/7/2002	D	1300	120	160	170	126	<7.5	170	NA	5100	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/15/2003		1900	180	180	320	175	<4.0	NA	NA	6300	NA	NA	0.30	171	NM	NM	NM	0.22
MW-30S	4/15/2003	D	1500	160	160	280	160	<4.0	NA	NA	<5000	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/21/2003		1700	200	180	340	162	<4.0	NA	NA	6800	NA	NA	1.94	-060	NM	NM	NM	NM
MW-30S	10/21/2003	D	1900	280	230	420	207	<4.0	NA	NA	6400	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/20/2004		2700	1700	380	1100	357	150	NA	NA	12000	NA	NA	1.42	120	NM	NM	NM	NM
MW-30S	4/20/2004	D	2800	320	360	700	145	100	NA	NA	13000	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	11/17/2004		1520	410	143	326	223.4	<1.0	<50	NA	11100	440	NA	1.50	-13	NM	NM	NM	4.00
MW-30S	4/20/2005		2640	656	304	550	298.7	<1.0	390	NA	NA	NA	NA	2.0	169	NM	NM	NM	NM
MW-30S	10/11/2005		1500	120	230	209	187	32	240	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/23/2006		1130	36.9	191	<75.0	72.9	<25.0	221	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/24/2006		496	30.5	153	61.9	70.2	<10.0	122	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	4/30/2007		1300	806	183	712	202.9	<1.0	159	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/1/2007		1620	1090	263	858	289.2	<10	209	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/10/2008		725	88.7	65.1	90	102	<5.0	140	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/28/2008		1110	41.5	86.8	74.7	66.0	<10.0	109	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/18/2011		726	58.2	79.5	89.6	70.5	<1.0	93.4	NA	NA	NA	NA	2.36	-81	6.82	593	8.17	NM
MW-30S	4/17/2012		253	105	66.8	107	36.1	<1.0	NA	NA	NA	NA	NA	3.50	52.2	7.00	778	7.12	NM
MW-30S	10/2/2012		336	45	16.1	44.1	31.1	<2.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/2/2012	D	348	45.9	16.7	44.3	32.2	<2.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/7/2013		3230	2180	393	1240	413.6	<5.0	382	NA	NA	NA	NA	3.28	231.3	8.2	969	7.14	NM
MW-30S	10/2/2013		1140	567	133	286	129.8	8.9J	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/21/2014		1710	806	190	494	198.3	<2.0	212	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/30/2014		1120	403	158	241	122.9	<4.8	144	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/5/2015		1530	578	243	530	215.9	<9.7	241	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/7/2015		1190	415	201	366	176.7	<9.7	211	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	5/24/2016		1230	507	205	363	180.8	<2.4	194	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30S	10/5/2016		1420	923	205	740	196.4	<9.7	199	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	7/21/1994		1500	55	<20	50	NA	NA	190	NA	4800	1.0	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/28/1994		2000	110	49	100	42	<20	170	NA	8200	720	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/6/1995		2500	390	300	540	363	<80	180	NA	9900	1200	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-30D	11/15/1995		1500	120	90	100	71	<40	NA	NA	5500	1500	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/22/1996		2400	110	89	100	44	<40	NA	NA	8500	1200	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/8/1996		1800	100	73	86	54	180	NA	NA	6800	1500	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/29/1997		2000	110	63	110	42	180	120	NA	9400	1100	NA	NM	NM	NM	NM	NM	NM
MW-30D	11/5/1997		2300	130	72	110	27	1300	NA	NA	10000	1200	NA	0.40	026	6.7	762	7.55	NM
MW-30D	11/3/1998		2500	100	88	100	<20	180	NA	NA	10000	120	NA	0.10	NM	6.5	950	6.96	NM
MW-30D	3/3/1999		2500	140	110	150	NA	1700	NA	NA	12000	920	NA	3.23	NM	5.2	NM	NM	NM
MW-30D	8/17/1999		1600	98	84	100	NA	1600	NA	NA	8600	1100	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/26/2000		2180	106	70.5	82.6	33.5	<3.0	NA	NA	7180	1530	NA	0.10	029	NM	NM	NM	NM
MW-30D	10/10/2000		2400	96	83	90	39	<3.2	260	NA	10000	950	NA	0.40	110	NM	NM	NM	2.00
MW-30D	10/10/2000	D	2400	96	79	85	37	<3.2	240	NA	9600	840	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/23/2001		720	29	11	39	21	<3.2	NA	NA	3500	1300	NA	1.20	-132	NM	NM	NM	>10
MW-30D	4/23/2002		1600	120	83	96	46	<1.6	270	NA	10000	1600	NA	1.58	017	NM	NM	NM	1.00
MW-30D	11/7/2002		880	32	16	34	16	<2.0	110	NA	4200	970	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/15/2003		1600	62	32	65	16	<4.0	NA	NA	6700	NA	NA	0.20	-110	NM	NM	NM	>3.30
MW-30D	10/21/2003		1100	51	25	42	18.1	<4.0	NA	NA	4200	NA	NA	1.70	-148	NM	NM	NM	NM
MW-30D	4/21/2004		990	44	34	59	56	<4.0	NA	NA	4300	NA	NA	2.23	-022	NM	NM	NM	NM
MW-30D	11/17/2004		2140	113	84.9	99.3	37	<1.0	299	NA	8360	1400	NA	0.90	-217	NM	NM	NM	0.90
MW-30D	4/20/2005		671	34.1	21.1	26.2	9.7	<1.0	61.6	NA	NA	NA	NA	1.5	176	NM	NM	NM	NM
MW-30D	10/11/2005		170	13	4.9	16.3	7.4	<1.0	23	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/23/2006		2420	84.3	72.9	<150	<50.0	<50.0	241	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/24/2006		2080	102	83	88	23.3 J	<25.0	233	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	4/30/2007		1750	71.9	70.3	71.4	26.8	<1.0	216	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/1/2007		1450	60	53.1	55.4	17.8	<10	153	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/10/2008		2170	107	117	105	39.4	<10	312	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/28/2008		2040	105	139	80.2	24	<2.0	186	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/18/2011		1220	81.4	94	67.7	20.2	<1.0	129	NA	NA	NA	NA	0.86	-157	8.03	724	7.96	NM
MW-30D	4/17/2012		1260	52.2	54.7	44.5	24.4	<10.0	NA	NA	NA	NA	NA	3.60	8.9	7.5	973	6.95	NM
MW-30D	10/2/2012		1460	60.2	62.2	58.7	18.3	<10.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/7/2013		1350	57.6	47.7	49.2	15.2	<10.0	128	NA	NA	NA	NA	0.31	91.5	8.5	866	7	NM
MW-30D	10/2/2013		1700	88.6	62.6	64.3J	<25.1J	<9.3	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/22/2014		1930	107	74.3	63.1	<22.6	<10	190	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/30/2014		2160	120	85.8	77.3	<18.2J	<9.7	161	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/5/2015		2120	113	85.4	82.3	24.1J	<12.1	231	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/7/2015		2560	118	80.7	93.3J	<41.7	<24.2	229	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	5/24/2016		2180	90.7	62.7	75.2	16.3J	<4.8	203	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30D	10/6/2016		2120	81.2	54.9	65.9	<18.1	<9.7	178	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	--
MW-30D	6/14/2017		2070	80.1	58.1	70.4	<20.8	25.3	196	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	6/2/1995		0.5	<0.6	<0.8	<1.3	<0.7	<1.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-30DD	8/18/1995		1.2	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	600	NA	NM	NM	NM	NM	NM	NM
MW-30DD	11/15/1995		5.2	7.1	1.6	18	13.2	<4.0	2.9	NA	200	290	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/22/1996		4.1	<1.0	<1.0	<2.0	<1.0	<4.0	<0.31	NA	<50	<150	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/8/1996		33	2	3	6	3	3	NA	NA	170	240	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/29/1997		430	35	26	49	27.5	26	18	NA	2200	850	NA	NM	NM	NM	NM	NM	NM
MW-30DD	11/5/1997		660	45	28	56	35	41	NA	NA	4100	240	NA	0.50	001	8.1	500	7.01	NM
MW-30DD	11/3/1998		140	7.6	5.7	8.3	4.3	78	NA	NA	400	<140	NA	1.67	NM	6.3	583	8.55	NM
MW-30DD	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	1.86	NM	6	NM	NM	NM
MW-30DD	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/26/2000		0.444	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	<50	<100	NA	0.10	032	NM	NM	NM	NM
MW-30DD	10/10/2000		1.44	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	0.20	113	NM	NM	NM	2.00
MW-30DD	10/23/2001		64	6	3.9	6.9	3.54	0.21	NA	NA	180	100	NA	1.30	126	NM	NM	NM	2.00
MW-30DD	4/23/2002		0.84	0.37	0.34	1.0	0.28	<0.16	<1.1	NA	<50	<100	NA	0.64	-137	NM	NM	NM	2.00
MW-30DD	11/7/2002		0.81	0.5	0.49	1.0	0.6	<0.16	<0.46	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/15/2003		14	4.6	1.4	3.2	<1.0	<4.0	NA	NA	<100	NA	NA	0.20	146	NM	NM	NM	3.00
MW-30DD	10/21/2003		15	1.9	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.16	-153	NM	NM	NM	NM
MW-30DD	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	2.94	015	NM	NM	NM	NM
MW-30DD	11/17/2004		15.1	1.4	<1.0	<3.0	<1.0	<1.0	<1.0	NA	75 J	100	NA	0.80	-183	NM	NM	NM	6.00
MW-30DD	11/18/2004	D	73.7	1.2	<1.0	<3.0	1.3	8.6	NA	NA	73.7 J	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/20/2005		17.5	2.2	1.5	<3.0	<1.0	<1.0	5.6	NA	NA	NA	NA	0.2	-001	NM	NM	NM	NM
MW-30DD	4/20/2005	D	18.2	2.2	1.1	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/11/2005		1700	86	66	68	16 J	<25	170	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/11/2005	D	1400	76	59	59	25.5 J	<10	140	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/23/2006		7.5	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/23/2006	D	10.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/24/2006		90.9	4.8	2.4	6.1	2.26 J	<1.0	15.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/24/2006	D	90.2	4.9	2.3	5.7	2.03 J	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/30/2007		2.9	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	4/30/2007	D	2.7	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/1/2007		2.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/10/2008		78.0	7.3	1.8	6.6	2.7	<1.0	12.9	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/10/2008	D	74.8	7.1	1.8	6.4	2.8	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/28/2008		41.0	3.8	2.2	3.7	<1.0	<1.0	5.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/18/2011		50.2	2.6	3.3	7.1	3.5	<1.0	5.9	NA	NA	NA	NA	0.64	-255	7.22	735	8.4	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-30DD	4/17/2012		<1.0	<1.0	<1.0	<3.0	1.0	<1.0	NA	NA	NA	NA	NA	0.18	-091	7.3	947	7.65	NM
MW-30DD	4/17/2012	D	<1.0	<1.0	<1.0	<3.0	1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	10/2/2012		4.2	<1.0	<1.0	<3.0	1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/7/2013		1.1	<1.0	<1.0	<3.0	1.0	<1.0	<4.0	NA	NA	NA	NA	0.07	-39.5	8.9	871	7.62	NM
MW-30DD	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.37	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-30DD	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
P-31D	9/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	12.5	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-33	8/6/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-33	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-33	1/8/1992	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	NA	NA	NA	<10	NM	NM	NM	NM	NM	NM
MW-33	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-33	10/14/1992	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<120	NA	NM	NM	NM	NM	NM	NM
MW-33	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	320	NA	NM	NM	NM	NM	NM	NM
MW-33	11/15/1995		<1.0	<1.0	<1.0	4.8	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	10/8/1996		0.6	<2	<2	<3	<2.0	<2	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	53	<100	NA	2.40	023	8	528	7.57	NM
MW-33	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	<100	NA	5.36	NM	6.8	643	7.21	NM
MW-33	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	5.05	NM	6.2	NM	NM	NM
MW-33	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	3.50	NM	8	NM	NM	NM
MW-33	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	<50	<100	NA	3.30	123	NM	NM	NM	NM
MW-33	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	5.00	259	NM	NM	NM	0.40
MW-33	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	3.00	159	NM	NM	NM	NM
MW-33	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	<100	NA	6.50	138	NM	NM	NM	0.10
MW-33	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	3.46	189	NM	NM	NM	0.40
MW-33	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-33	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.70	202	NM	NM	NM	0.02
MW-33	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	4.30	161	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	--
MW-33	4/20/2004		<1.0	<1.0	<1.0	<3.0	2.2	<4.0	NA	NA	<100	NA	NA	3.23	232	NM	NM	NM	NM
MW-33	11/17/2004		<1.0	<1.0	<1.0	<3.0	2.2	<4.0	NA	NA	<100	96 J	NA	3.20	32	NM	NM	NM	0.00
MW-33	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.0	213	NM	NM	NM	NM
MW-33	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	4.60	2.2	NM	491	7.88	0.1
MW-33	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	34.70	132.1	NM	NM	7.27	1.0
MW-33	4/30/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	5.02	58.8	NM	NM	7.30	0.0
MW-33	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	8.80	19.4	NM	NM	7.37	1.0
MW-33	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.97	184.3	NM	NM	6.60	1.0
MW-33	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.63	88.4	NM	NM	7.25	0.0
MW-33	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-33	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-33	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	8/6/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-34	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-34	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-34	10/14/1992	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.7	NA	<50	<140	NA	NM	NM	NM	NM	NM	NM
MW-34	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	4/6/1995		<1.0	<1.0	<1.0	<2.0	2.7	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	11/15/1995		<1.0	9.2	5.1	18	7.4	<4.0	NA	NA	160	170	NA	NM	NM	NM	NM	NM	NM
MW-34	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NA	<50	320	NA	NM	NM	NM	NM	NM	NM
MW-34	10/8/1996		0.6	<2	<2	<3	<2.0	<2	NA	NA	<100	330	NA	NM	NM	NM	NM	NM	NM
MW-34	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	6.2	NA	NA	62	190	NA	1.40	057	7.4	657	7.54	NM
MW-34	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	160	NA	3.54	NM	6.7	816	7.18	NM
MW-34	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	4.44	NM	6.7	NM	NM	NM
MW-34	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-34	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NA	<50	396	NA	2.00	153	NM	NM	NM	NM
MW-34	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	390	NA	4.20	193	NM	NM	NM	0.20
MW-34	10/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	220	NA	10.70	074	NM	NM	NM	0.10
MW-34	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	2.46	141	NM	NM	NM	0.10
MW-34	11/7/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	130	NA	NM	NM	NM	NM	NM	NM
MW-34	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.70	059	NM	NM	NM	0.0
MW-34	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	3.60	-055	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MW-34	4/20/2004		<1.0	<1.0	<1.0	<3.0	2.1	<4.0	NA	NA	<100	NA	NA	1.67	164	NM	NM	NM	NM
MW-34	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	130	NA	1.50	078	NM	NM	NM	0.10
MW-34	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.1	171	NM	NM	NM	NM
MW-34	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/20/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.56	-81	7.28	690	8.3	NM
MW-34	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/2/2013	D	<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/29/2014	D	<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-34	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
P-34D	9/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-35	8/6/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-35	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-35	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NA	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-35	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NA	<50	<130	NA	NM	NM	NM	NM	NM	NM
MW-35	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	11/15/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<0.24	NA	<50	190	NA	NM	NM	NM	NM	NM	NM
MW-35	10/8/1996		<0.5	<2	<2	<3	<2.0	<2	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.0	NA	<50	180	NA	NM	NM	NM	NM	NM	NM
MW-35	11/5/1997		2.3	2.3	2.4	6.8	5.2	9.5	NA	NA	76	<110	NA	2.10	065	2.9	1157	6.73	NM
MW-35	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NA	<100	<100	NA	1.26	NM	7.7	1340	6.52	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	--
MW-35	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NA	<100	<100	NA	3.49	NM	6.7	NM	NM	NM
MW-35	8/17/1999		<1.0	<1.0	1.0	<3.0	NA	<4.0	NA	NA	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-35	4/26/2000		<0.15	<0.40	<0.50	0.215	0.6	<0.3	NA	NA	<50	519	NA	0.10	191	NM	NM	NM	NM
MW-35	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	110	NA	0.90	280	NM	NM	NM	0.40
MW-35	4/24/2001		<0.13	<0.20	<0.22	0.340	<0.29	<0.16	NA	NA	<50	230	NA	2.60	178	NM	NM	NM	NM
MW-35	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NA	<50	110	NA	2.90	-018	NM	NM	NM	0.00
MW-35	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	NA	<50	<100	NA	3.73	164	NM	NM	NM	0.30
MW-35	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NA	<50	<100	NA	NA	NA	NA	NA	NA	NA
MW-35	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	0.50	191	NA	NA	NA	0.07
MW-35	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.60	055	NA	NA	NA	NM
MW-35	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	1.68	224	NA	NA	NA	NM
MW-35	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	350	NA	2.30	153	NA	NA	NA	0.00
MW-35	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	4.2	120	NA	NA	NA	NM
MW-35	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.9	-083	NA	1055	7.02	0.2
MW-35	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.6	-066	NM	1026	7.40	0.1
MW-35	10/22/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	33	229	NM	NM	6.60	0.0
MW-35	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	NA	NA	NA	10.52	184.5	NM	NM	6.73	0.0
MW-35	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.15	056.5	NM	NM	6.73	1.0
MW-35	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	5.15	256.4	NM	NM	6.32	1.0
MW-35	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	3.95	163.0	NM	NM	6.42	1.0
MW-35	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-35	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.96	166.0	NM	NM	6.96	NM
MW-35	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-35	10/13/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.81	56	7.88	1064	7.76	NM
MW-35	10/3/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-35	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-35	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-35	10/6/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-47	10/4/2016		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/23/03		Not sampled due to presence of product																
MWT-6	04/19/04		Not sampled due to presence of product																
MWT-6	11/15/04		Not sampled due to presence of product																
MWT-6	04/18/05		Not sampled due to presence of product																
MWT-6	10/12/2005		340	480	390	1380	680	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-6	05/23/06		Not sampled																

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MWT-6	10/16/06		Not sampled due to presence of product																
MWT-6	04/23/07		Not sampled due to presence of product																
MWT-6	09/25/07		Not sampled due to presence of product																
MWT-6	10/30/08		278	208	138	1730	867	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/03/12		63	31.6	75	548	469	<2.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/2/2013		49.8	12.80	71.6	325	326	1.7	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/30/2014		52.1	4.4	47.6	247	428	2.0	135	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-6	10/6/2015		59.8	14.2	63.0	205	273	2.2	95.8	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2S	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	2.40	139	NM	NM	NM	NM
MWT-2S	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NA	<100	NA	NA	2.14	193	NM	NM	NM	NM
MWT-2S	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	<100	160	NA	3.00	140	NM	NM	NM	0.10
MWT-2S	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	2.7	209	NM	NM	NM	NM
MWT-2S	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	5.63	37.5	NM	617	7.85	0.1
MWT-2S	10/25/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	14.8	146.2	NM	NM	7.16	1.0
MWT-2S	5/1/2007		4.1	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	4.39	80.9	NM	NM	7.18	1.0
MWT-2S	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	1.95	18.1	NM	NM	7.36	1.0
MWT-2S	5/10/2008		6.2	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	1.85	248.4	NM	NM	6.43	1.0
MWT-2S	10/28/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	2.27	95.9	NM	NM	7.04	0.0
MWT-2D	10/21/2003		1500	67	11	87	46	<4.0	NA	NA	3600	NA	NA	0.60	047	NM	NM	NM	NM
MWT-2D	4/13/2004		85	7.4	1.0	<3.0	6.0	<4.0	NA	NA	860	NA	NA	4.04	177	NM	NM	NM	NM
MWT-2D	11/17/2004		1820	92.3	32.0	132	74.2	<1.0	83.2	NA	4580	1400	NA	2.40	127	NM	NM	NM	0.00
MWT-2D	11/18/2004	D	1720	99.8	29.0	132	70.2	67.8	NA	NA	4270	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	4/20/2005		4510	153	158	340	182.8	<1.0	226	NA	NA	NA	NA	0.80	231	NM	NM	NM	NM
MWT-2D	10/11/2005		4700	220	120	300	179	<5.0	220	NA	NA	NA	NA	1.35	-6.2	NM	828	7.94	0.1
MWT-2D	10/25/2006		5740	273	184	310	187.6	<10.0	245	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	5/1/2007		4790	258	150	337	185.2	<25.0	241	NA	NA	NA	NA	0.52	-116.4	NM	NM	7.06	0.00
MWT-2D	9/29/2007		3910	215	55.3	305	154.9	<25.0	NA	NA	NA	NA	NA	0.16	-4.6	NM	NM	7.18	0.00
MWT-2D	5/10/2008		5060	227	43.6	252	105.3	<25.0	<100	NA	NA	NA	NA	0.55	77.5	NM	NM	6.53	1.00
MWT-2D	10/28/2008		5080	214	41.0	250	102.7	<5.0	72.3	NA	NA	NA	NA	0.79	-36.4	NM	NM	6.96	0.00
MWT-2D	10/17/2011		2800	174	75.0	261	138.5	<1.0	129	NA	NA	NA	NA	0.65	-99	7.33	922	7.94	NM
MWT-2D	4/17/2012		3230	159	137	226	118.7	<25.0	NA	NA	NA	NA	NA	0.31	54.3	7.2	1267	7.19	NM
MWT-2D	10/2/2012		4310	224	275	342	172.7	<20.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	5/7/2013		4570	211	264	350	175.9	<50.0	<200	NA	NA	NA	NA	0.58	168.3	7.7	1195	6.97	NM
MWT-2D	5/7/2013	D	4540	222	257	343	173.7	<50.0	<200	NA	NA	NA	NA	0.58	168.3	7.7	1195	6.97	NM
MWT-2D	10/3/2013		3120	173	195	277	122.4	30.3J	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
MWT-2D	5/22/2014		3450	219	247	320	209.4	<25.0	347	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	10/30/2014		3400	201	240	366	169.7	28.9J	174	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	5/5/2015		3720	224	277	377	172.2	46.3J	180	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	10/7/2015		3740	232	285	393	199.9	43.1J	215	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	5/25/2016		3670	246	331	398	203.0	92.5	196	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	10/6/2016		3590	228	319	352	193.3	92.8	163	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWT-2D	6/14/2017		3440	214	331	374	191.2	115.0	167	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RWAST-1	10/5/2016		5420	1530	642	1220	303.8	<24.2	153	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	11/17/2004		1950	57.4	87.6	86.6	34.7	<5.0	27.6	NA	3890	530	NA	NM	NM	NM	NM	NM	NM
RW-3	4/19/2005		741	5.6	16.5	4.5	3.3	<1.0	<1.0	NA	NA	NA	NA	0.8	28	NM	NM	NM	NM
RW-3	10/12/2005		8800	210	360	258 J	86 J	<120	63 J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	5/23/2006		5820	601	309	462	70.7	102	36.3	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/23/2006		2320	66.1	123	85.7	34.6	<10.0	<10.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	4/29/2007		2830	57.2	220	118	21.5	<20.0	<20.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/11/2007		5120	123	348	185	55.2	35.9	34.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	5/10/2008		2000	38.7	130	54	19.6	<10.0	<40.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/28/2008		4680	52	244	108	22.1	<20	82.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/27/2010		6540	464	698	981	166.2	<50	<200	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/13/2011		4560	131	449	625	125.2	13.8	40.5	NA	NA	NA	NA	2.02	-188	9.6	1243	7.95	NM
RW-3	4/17/2012		4760	89.6	677	625	169.5	<50.0	NA	NA	NA	NA	NA	4.23	-49.4	9.2	1530	7.52	NM
RW-3	10/3/2012		4670	<50.0	488	327	<50.0	309.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/3/2013		5280	66.3	412	220	62.1J	1200.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/30/2014		4720	45.8	364	81.3J	51.5J	869	53.6	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/7/2015		4720	78.2	498	529	128.2	588	75.3	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-3	10/6/2016		4560	180	607	601	167.6	455	104.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-7	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	1.1	NA	<100	290	NA	NM	NM	NM	NM	NM	NM
RW-7	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	0.4	-040	NM	NM	NM	NM
RW-7	10/12/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-7	5/23/2006		<1.0	<1.0	<1.0	<3.0	1.3	<1.0	7.8	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-7	10/23/2006		<1.0	<1.0	1.3	<3.0	1.6	<1.0	3.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
RW-7	4/29/2007		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM
RW-7	6/26/2007		Abandoned																
EW-06	7/28/2011		9440	9600	772	5200	1078	<50.0	396	NA	NA	NA	NA	0.32	-184	9.48	995	7.54	NM

Table 4
Groundwater Analytical Results - Terminal
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
EW-06	10/19/2011		12500	9800	1090	6260	1229	58.4	353	NA	NA	NA	NA	0.23	-196	9.27	988	7.83	NM
EW-06	4/18/2012		10400	1920	662	3260	991	382	NA	NA	NA	NA	NA	0.69	-4.6	9.4	1501	6.92	NM
EW-06	5/7/2013		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
EW-07	7/28/2011		258	857	490	2350	591	<10.0	159	NA	NA	NA	NA	0.57	-214	9.95	955	7.66	NM
EW-07	10/19/2011		226	646	307	1330	343.3	<2.0	87.9	NA	NA	NA	NA	0.67	-268	8.97	926	7.89	NM
EW-07	4/18/2012		615	796	247	969	183.9	<5.0	NA	NA	NA	NA	NA	1.46	-54.7	8.9	1247	7.01	NM
EW-07	5/7/2013		385	270	334	2240	1254.0	<25.0	199	NA	NA	NA	NA	0.5	-24.9	9.9	1181	6.85	NM
EW-08	7/28/2011		82.0	1.9	13.4	25	16.8	<1.0	9.2	NA	NA	NA	NA	0.18	-201	9.11	804	7.58	NM
EW-08	7/28/2011	D	87.2	2.0	14.2	26.3	17.3	<1.0	9.7	NA	NA	NA	NA	0.25	-190	9.46	913	7.87	NM
EW-08	10/19/2011		234	7.5	53.3	116	98.7	<1.0	45.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	10/19/2011	D	242	8.0	54.3	121	98.2	<1.0	41.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	4/18/2012		466	11.4	193	444	372.3	<5.0	NA	NA	NA	NA	NA	0.86	-31.6	9.3	1187	6.6	NM
EW-08	4/18/2012	D	448	12.1	190	435	365.4	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	5/7/2013		574	16.7	292	745	615	<5.0	220	NA	NA	NA	NA	0.54	34.4	10	1104	6.74	NM
EW-08	5/21/2014		4.1	<1.0	1.1	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	10/30/2014		219	3.7	101	122	106	<0.97	91.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	5/5/2015		578	15.8	281	517	395.1	<2.4	241	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	10/6/2015		57.0	0.40J	16.1	11.3	7.7	<0.48	11.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-08	10/5/2016		407	9.5	118	141	165.6	<1.9	103	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-09	7/28/2011		374	18.7	215	436	317.4	<2.0	188	NA	NA	NA	NA	0.16	-198	8.04	920	7.52	NM
EW-09	10/19/2011		231	11.1	132	304	268.1	<2.0	135	NA	NA	NA	NA	0.13	-181	8.05	954	7.88	NM
EW-09	4/18/2012		74.2	2.8	25.0	49.2	60.7	<1.0	NA	NA	NA	NA	NA	0.66	-21.1	7.6	1228	7.26	NM
EW-09	5/7/2013		34.1	2.6	24.2	19.4	31.2	<1.0	5.0	NA	NA	NA	NA	0.56	75.5	8.2	1042	7.05	NM
EW-09	5/21/2014		53.4	1.8	11.9	19.7	10.1	<1.0	6.3	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-09	5/4/2015		21.0	1.0	3.0	2.2J	<1.31J	0.8J	0.75J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-09	10/5/2016		28.1	2.2	25.5	40.8	38.2	<0.48	26.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-10	7/28/2011		3430	<20.0	<20.0	<60.0	<20.0	<20.0	<80.0	NA	NA	NA	NA	2.28	-143	8.93	1190	7.73	NM
EW-10	10/19/2011		3970	<1.0	2.6	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.32	-162	8.45	1130	7.99	NM
EW-10	4/18/2012		1510	<1.0	1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	1.06	91.4	7.6	1437	7.17	NM
EW-10	5/7/2013		18.3	<1.0	6.0	44.4	48.9	<1.0	4.9	NA	NA	NA	NA	0.93	167.1	8.2	1225	7	NM
EW-10	5/7/2013	D	16.0	<1.0	4.4	34.0	38.7	<1.0	<4.0	NA	NA	NA	NA	0.93	167.1	8.2	1225	7	NM
EW-10	5/21/2014		18.6	<1.0	<1.0	<3.0	<2.0	1.3	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-10	5/4/2015		7.2	<0.39	<0.39	<1.2	<0.84	2.0	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 4
Groundwater Analytical Results - Terminal
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Sample Date	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethyl-benzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	milli Volts	°C	µmhos/cm	pH units	ppm
NR 140 ES -->			5	800	700	2000	480	60	100	5	--	--	--	--	--	--	--	--	
EW-10	10/5/2016		1.4	<0.39	<0.39	<1.2	<0.84	2.6	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
EW-11	7/28/2011		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP

Notes:
 µg/L = micrograms per liter (equivalent to parts per billion)
 D = Duplicate sample
 1,2-DCA = 1,2-Dichloroethane
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 FP = The well was not sampled due to the presence of free product
 THC = Total hydrocarbons or total petroleum hydrocarbons as gasoline
 MTBE = Methyl Tertiary Butyl Ether
 NA = Not Analyzed for indicated parameter
 NM = Not Measured
 NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
 NS = Not Sampled on indicated date
 TMBs = Trimethylbenzenes
"BOLD TYPE" = The indicated concentration exceeds the NR 140 ES
 J = Laboratory flag. Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Note: Bio-Parameters for the 4/29/07 - 4/30/07 sampling event were taken on 4/24/07

Table 5
Groundwater Analytical Results - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
NR 140 ES-->			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
GP-36S	6/20/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<2.0	<8.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	9/21/1988		<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NA	<10	NM	NM	NM	NM	NM	NM
MW-17	4/27/1989		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	8/29/1990		<2.0	<2.0	<2.0	<4.0	NA	NA	NA	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	8/29/1990	D	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.5	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	1/31/1991		<1.0	<1.0	<1.0	<2.0	NA	<20	NA	NM	NM	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-17	1/31/1991	D	<1.0	<1.0	<1.0	NA	NA	NA	<1.5	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-17	7/10/1991	D	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.5	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-17	1/8/1992	D	<1.0	<1.0	<1.0	<2.0	NA	NA	<1.5	NM	NM	NA	<10.0	NM	NM	NM	NM	NM	NM	NM
MW-17	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NM	NA	<1000	NM	NM	NM	NM	NM	NM	NM
MW-17	10/14/1992	D	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/6/1995		<1.0	<1.0	<1.0	<2.0	1.1	<4.0	<1.5	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	11/15/1995		<1.0	<1.0	<1.0	3.7	2.7	<4.0	NA	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/8/1996		<0.5	<2	<2	<3	2.0	<2	NA	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/29/1997		NA	NA	NA	NA	NA	NA	<1	NM	NM	190	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	11/5/1997		1.8	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	<100	NA	2.90	037	7.9	626	7.49	NM	NM
MW-17	11/5/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	NM	<100	NA	4.10	NM	8	775	7.07	NM	NM
MW-17	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NM	NM	<100	NA	6.35	NM	7	NM	NM	NM	NM
MW-17	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	NM	<100	NA	4.10	NM	9.4	NM	NM	NM	NM
MW-17	4/26/2000		<0.15	0.523	0.653	1.858	1.12	<0.30	NA	NM	NM	<100	NA	4.20	153	NM	NM	NM	NM	NM
MW-17	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.40	0.40	<100	NA	3.90	200	NM	NM	NM	NM	0.40
MW-17	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	<100	NA	5.50	157	NM	NM	NM	NM	NM
MW-17	10/23/2001		<0.13	<0.20	<0.22	0.47	0.32	<0.16	NA	2.00	2.00	<100	NA	10.00	156	NM	NM	NM	NM	2.00
MW-17	10/23/2001	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	<100	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.30	0.30	<100	NA	6.91	277	NM	NM	NM	NM	0.30
MW-17	4/23/2002	D	<0.13	0.25	<0.22	<0.23	<0.29	<0.16	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	11/7/2002		<0.13	0.25	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	11/7/2002	D	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.0	0.0	NA	NA	3.60	242	NM	NM	NM	NM	0.0
MW-17	4/15/2003	D	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	NM	NA	NA	6.40	113	NM	NM	NM	NM	NM
MW-17	10/21/2003	D	<1.0	<1.0	<1.0	<3.0	1.2	<4.0	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM
MW-17	4/20/2004		<1.0	<1.0	<1.0	<3.0	1.2	<4.0	NA	NM	NM	NA	NA	3.70	215	NM	NM	NM	NM	NM
MW-17	4/20/2004	D	4.0	3.9	1.9	4.8	1.6	<4.0	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MW-17	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.00	0.00	180	NA	5.80	128	NM	NM	NM	0.00
MW-17	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NA	NA	5.7	181	NM	NM	NM	NM
MW-17	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.1	0.1	NA	NA	6.27	31.1	NM	547	7.85	0.1
MW-17	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.1	0.1	NA	NA	4.1	039	NM	562	7.62	0.1
MW-17	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.0	0.0	NA	NA	33.4	107	NM	NM	7.17	0.0
MW-17	4/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.0	1.0	NA	NA	7.69	10.7	NM	NM	7.44	1.0
MW-17	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.0	0.0	NA	NA	4.25	-13.9	NM	NM	7.43	0.0
MW-17	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.0	1.0	NA	NA	4.2	114.8	NM	NM	6.74	1.0
MW-17	10/25/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.0	0.0	NA	NA	5.89	22	NM	NM	7.19	0.0
MW-17	4/20/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	10/17/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NA	NA	2.61	-68	8.58	562	8.28	NM
MW-17	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	5/7/2013		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NM	NM	NA	NA	6.29	357.2	8.7	635.9	7.08	NM
MW-17	7/30/2014		<0.50	<0.50	<0.50	<1.5	<1.0	<0.17	<2.5	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-17	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NM	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	7/11/1989		3.0	<2.0	<2.0	<4.0	NA	NA	NA	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	8/29/1990		<2.0	32	5.0	29	NA	NA	NA	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	1/31/1991		<1.0	3.0	<1.0	3.0	NA	<20	NA	NM	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-31	7/10/1991		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-31	1/8/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-31	10/14/1992		<1.0	<1.0	<1.0	<1.0	NA	<20	NA	NM	NA	NA	<1000	NM	NM	NM	NM	NM	NM
MW-31	6/25/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	10/28/1993		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.6	NM	<50	<110	NA	NM	NM	NM	NM	NM	NM
MW-31	4/27/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	10/28/1994		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	4/6/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	11/15/1995		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	4/22/1996		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	10/8/1996		<0.5	<2	<2	<3.0	<2.0	<2	NA	NM	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	4/29/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<1.5	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	11/5/1997		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	52	<100	NA	0.60	022	7.8	774	7.39	NM
MW-31	11/3/1998		<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	NA	NM	<100	<100	NA	4.35	NM	6.1	853	7.41	NM
MW-31	3/3/1999		<1.0	<1.0	<1.0	<2.0	NA	<4.0	NA	NM	<100	<100	NA	2.33	NM	6.4	NM	NM	NM
MW-31	8/17/1999		<1.0	<1.0	<1.0	<3.0	NA	<4.0	NA	NM	<100	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	4/26/2000		<0.15	<0.40	<0.50	<0.55	<0.40	<0.30	NA	NM	<50	<100	NA	0.20	124	NM	NM	NM	NM
MW-31	10/10/2000		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.40	<50	<100	NA	0.30	214	NM	NM	NM	0.40
MW-31	4/24/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	<50	<100	NA	0.60	218	NM	NM	NM	NM
MW-31	10/23/2001		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	NA	NM	<50	<100	NA	0.40	001	NM	NM	NM	NM
MW-31	4/23/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<1.1	0.40	<50	<100	NA	1.27	126	NM	NM	NM	0.40

Table 5
Groundwater Analytical Results - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MW-31	11/6/2002		<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<0.46	NM	<50	<100	NA	NM	NM	NM	NM	NM	NM
MW-31	4/15/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.12	<100	NA	NA	1.30	230	NM	NM	NM	0.12
MW-31	10/21/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	<100	NA	NA	2.50	004	NM	NM	NM	NM
MW-31	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	NM	<100	NA	NA	1.52	219	NM	NM	NM	NM
MW-31	11/17/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	0.00	<100	200	NA	2.00	149	NM	NM	NM	0.00
MW-31	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NA	NA	NA	1.1	89	NM	NM	NM	NM
MW-31	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.1	NA	NA	NA	2.10	20.9	NM	747	7.80	0.1
MW-31	5/23/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.1	NA	NA	NA	2.3	033	NM	726	7.65	0.1
MW-31	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.0	NA	NA	NA	2.1	124	NM	NM	7.13	1.0
MW-31	4/30/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA	1.0	NA	NA	NA	1.97	-45.6	NM	NM	7.25	1.0
MW-31	10/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.0	NA	NA	NA	0.63	43.8	NM	NM	7.34	1.0
MW-31	5/7/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	1.0	NA	NA	NA	2.03	151.2	NM	NM	6.68	1.0
MW-31	10/28/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	0.0	NA	NA	NA	0.81	42.1	NM	NM	7.06	0.0
MW-31	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NA	NA	NA	1.06	16	NM	NM	7.60	NM
MW-31	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	10/17/2011		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	NM	NA	NA	NA	2.57	-101	7.83	746	8.18	NM
MW-31	10/2/2012		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	5/7/2013		<1.0	<1.0	<1.0	<3.1	<1.0	<2.0	<4.0	NM	NA	NA	NA	1.29	356.4	8.4	827	6.87	NM
MW-31	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-31	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NM	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-32			08/91 to present - The well was not sampled due to the presence of free product.																
MW-36S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.35	-9	9.54	809	7.95	NM
MW-36S	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.1	-48	10.0	852	8.15	NM
MW-36S	4/18/2012		1.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.75	69.4	6.2	1200	7.43	NM
MW-36S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	1.09	236.0	7.3	964	6.93	NM
MW-36S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-36D	6/21/2011		2220	30.6	<10	<30	<10	<10	<40	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	7/26/2011		2290	48.2	8.7	63.3	26.6	<1.0	<4.0	NA	NA	NA	NA	0.17	-244	9.42	951	7.72	NM
MW-36D	10/18/2011		855	23.7	2.5	37.2	16.1	<1.0	NA	NA	NA	NA	NA	0.34	-88	7.48	697	8.31	NM
MW-36D (Dup)	10/18/2011		844	23.0	2.3	36.3	15.5	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	4/18/2012		2270	65.7	14.0	102	49.2	<1.0	NA	NA	NA	NA	NA	0.51	81.7	7.8	1303	7.15	NM
MW-36D (Dup)	4/18/2012		2240	65.0	13.9	101	49.4	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	10/1/2012		2070	51.7	11.1	75.8	23.2	<10.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D (Dup)	10/1/2012		2080	51.9	11.2	77.2	34.7	<10.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	5/7/2013		1390	28.7	<10.0	<30.0	<20.1	<10.0	<40.0	NA	NA	NA	NA	0.40	180.8	9	1187	7.13	NM
MW-36D	10/2/2013		2040	49.7	11.3J	54.9J	23.5J	<7.4	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	5/22/2014		1590	34.2	<10.0	33.7	<20.4	<10.0	<40.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	10/30/2014		1840	34.9	9.2J	28.2J	<19.6J	<9.7	<8.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MW-36D	5/5/2015		1660	30.5	8.3J	<24.9	<16.7	<9.7	<8.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	10/7/2015		1840	31.1	<9.8	<31.2	<20.8	<12.1	<10.6	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	5/25/2016		1970	37.8	10.2J	<24.9	<16.7	<9.7	<8.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	10/6/2016		1920	35.4	9.1J	<12.5	<8.4	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36D	6/14/2017		1920	39.4	11.4J	<25.0	<16.7	<9.7	<8.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	4/18/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.52	84.1	7.4	992	7.67	NM
MW-36DD	10/1/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.32	228.1	7.7	558.7	7.5	NM
MW-36DD	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-36DD	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-37S	6/21/2011		4.4	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-37D	6/21/2011		3720	87.3	22.1	79.6	18.4	<10	<40	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.88	-87	8.8	517	8.00	NM
MW-37S	10/18/2011		2.2	<1.0	<1.0	<3.1	<1.0	<1.0	NA	NA	NA	NA	NA	0.43	-90	9.46	708	8.16	NM
MW-37S	4/18/2012		1.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	2.42	86.2	6.2	625	7.74	NM
MW-37S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	2.1	234.0	6.1	558.7	7.27	NM
MW-37S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	7/26/2011		649	17.20	5.90	14.6	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.22	-134	8.65	927	7.89	NM
MW-37D	10/18/2011		290	8.80	2.60	7	<1.0	<1.0	NA	NA	NA	NA	NA	0.4	-79	7.67	968	8.24	NM
MW-37D	4/18/2012		149	4.40	1.50	3.7	<1.0	<1.0	NA	NA	NA	NA	NA	0.55	53.4	7.8	1200	7.39	NM
MW-37D	10/2/2012		871	26.00	8.70	19.3	<5.0	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	5/7/2013		365.0	10.5	<5.0	<15.0	<10.0	<5.0	<20.0	NA	NA	NA	NA	0.48	136.5	8.8	1137	7.30	NM
MW-37D	10/2/2013		1960	63.3	21.3	45.3J	<13.7	<7.4	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	5/22/2014		2230	73.1	23.9	48.3	<10.0	<5.0	<20.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	10/30/2014		2240	70.4	21.6J	42.4J	<20.8	<12.1	10.8J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	5/5/2015		2800	96.8	31.7	65.8J	20.8	<12.1	<10.6	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	10/7/2015		3090	105	32.1J	73.7J	<33.3	<19.4	<17.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	5/25/2016		2990	108	36.3	84.4	13.0J	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	5/25/2016		2720	96.9	32.0	75.0	11.4J	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	10/6/2016		3020	112	35.2	80.3	<20.8	<12.1	<10.6	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	10/6/2016		3380	126	40.1	90.5	<16.7	<9.7	<8.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D	6/14/2017		3020	110	35.4J	71.5J	<41.7	<24.2	<21.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37D (Dup)	6/14/2017		3050	112	34.7J	71.5J	<41.7	<24.2	<21.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MW-37DD	10/18/2011		6.9	<1.0	<1.0	<3.0	1.1	<1.0	<4.0	NA	NA	NA	NA	0.49	-253	7.56	766	8.39	NM
MW-37DD	4/18/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.87	19.2	7.7	1102	7.59	NM
MW-37DD	10/1/2012		<1.0	<1.0	<1.0	<3.0	1.2	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	5/6/2013		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.42	168.5	7.6	1028	7.65	NM
MW-37DD	10/1/2013		5.3	<0.34	<0.34	<1.0	<1.66	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	5/21/2014		26.5	<1.0	<1.0	<3.0	1.1	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	10/29/2014		109	<0.39	<0.39	<1.2	<1.4J	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	5/5/2015		263	<0.39	<0.39	<1.2	<1.23J	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	10/6/2015		461	<1.6	<1.6	<5.0	<3.4	<1.9	<4.7	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	5/25/2016		667	<1.9	<2.0	<6.2	<4.2	<2.4	<2.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-37DD	10/5/2016		932	<1.6	<1.6	<5.0	<3.4	<1.9	<1.7	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-38S	6/21/2011		4.3	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.36	-172	7.63	934	7.82	NM
MW-38S	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.61	-201	7.69	961	8.13	NM
MW-38S	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.66	22	7.1	1337	7.22	NM
MW-38S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.79	218	8.9	1145	6.76	NM
MW-38S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-38D	6/21/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.84	-354	8.51	884	7.90	NM
MW-38D	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.37	-256	7.89	939	8.28	NM
MW-38D	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.76	-2.1	8.0	1233	7.46	NM
MW-38D	10/1/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.32	166	8.6	1117	7.03	NM
MW-38D	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-38D	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-39S	6/23/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
GP-39D	6/23/2011		<5.0	<5.0	<5.0	<15	<5.0	<5.0	<20	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.68	-244	7.24	1234	7.48	NM
MW-40S	10/18/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.95	-191	8.78	1510	7.67	NM
MW-40S	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	7.40	-34	5.7	2099	6.58	NM
MW-40S	5/7/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	1.21	83	6.3	1911	6.34	NM
MW-40S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MW-40S	5/24/2016		<0.40	<0.39	<0.39	<1.3	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	1.43	-182	9.13	295	7.87	NM
MW-40D	10/20/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.66	-210	7.86	852	8.24	NM
MW-40D	4/17/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.58	-33	7.9	1170	7.44	NM
MW-40D	10/1/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	5/7/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.37	51	8.5	1062	7.34	NM
MW-40D	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D (Dup)	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-40D	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41S	7/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.95	-32	10.2	790	7.85	NM
MW-41S	10/18/2011		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA	NA	NA	NA	NA	2.01	-224	7.78	828	8.34	NM
MW-41S	4/18/2012		3.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.8	84	7.1	1111	7.76	NM
MW-41S	5/7/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.43	160	7.4	993	7.29	NM
MW-41S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41S	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	7/26/2011		4.1	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	0.45	-3	7.32	822	7.98	NM
MW-41D	10/18/2011		7.9	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	0.43	-355	7.93	938	8.25	NM
MW-41D	4/18/2012		2.5	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	4.16	102.6	7.9	1229	7.80	NM
MW-41D	10/1/2012		3.4	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	5/7/2013		1.8	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	1.22	171	8.6	1088	7.49	NM
MW-41D	10/2/2013		2.8	<0.34	<0.34	<1.0	<0.69	<0.34	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	5/21/2014		1.6	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	10/29/2014		1.7	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	5/4/2015		3.3	<0.39	<0.39	<1.2	<0.84	<0.78	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	10/6/2015		1.0	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	5/24/2016		12.4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-41D	10/4/2016		3.0	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
P-42D	9/14/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
P-42DD	9/14/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<8.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
P-43D	9/14/2011		75.2	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
P-43DD	9/14/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45S	6/14/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45S	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
NR 140 ES-->			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MW-45S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.44	45.2	8.1	1065	6.81	NM
MW-45S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45S	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	6/14/2012		2.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	10/1/2012		81.8	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	5/6/2013		37.7	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.33	104.9	7.7	1234	6.98	NM
MW-45D	10/2/2013		101	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	5/21/2014		127	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D (Dup)	5/21/2014		109	<1.0	2.4	<3.0	<2.0	<1.0	12.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	10/30/2014		120	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	5/5/2015		105	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	10/6/2015		128	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	5/25/2016		136	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-45D	10/5/2016		129	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46S	6/14/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46S	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46S	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	5.65	228.6	8.9	6718	7.42	NM
MW-46S	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46S	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46S	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	6/14/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	10/2/2012		<1.0	<1.0	<1.0	5.3	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	5/6/2013		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	0.30	174.2	7.9	1122	7.1	NM
MW-46D	10/1/2013		<0.34	<0.34	0.70J	3.5	NA	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	5/20/2014		<1.0	<1.0	<1.0	4.3	<2.0	<1.0	<4.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	10/29/2014		<0.40	<0.39	0.47J	2.4J	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	5/4/2015		<0.40	<0.39	0.47J	2.7J	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	10/5/2015		<0.40	<0.39	0.39J	2.3J	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	5/24/2016		<0.40	<0.39	<0.39	<1.2	<.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-46D	10/4/2016		<0.40	<0.39	<0.39	1.9J	<.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-48S	10/4/2016		<0.4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-48S	6/13/2017		<0.4	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-48D	10/4/2016		125	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-48D	6/14/2017		12	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-49S	10/4/2016		21	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-49S	6/13/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-49D	10/4/2016		14.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MW-49D	6/13/2017		1.0	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MWAST-3	10/22/2003		1100	420	140	460	172	<4.0	NA		6900	NA	NA	1.1	207	NM	NM	NM	NM
MWAST-3	4/21/2004		790	240	98	280	111	72	NA		5300	NA	NA	4.4	165	NM	NM	NM	NM
MWAST-3	11/18/2004		85.1	23	6.1	28.9	12.6	<4.0	NA		416	360	NA	4.2	19	NM	NM	NM	0.0
MWAST-3	4/20/2005		374	22.1	6.7	32.3	17.4	<1.0	NA		NA	NA	NA	1.4	212	NM	NM	NM	NM
MWAST-3	10/11/2005		180	30	21	47.1	22.9	3.5	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/26/2006		650	121	<10.0	103	71.1	<10.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-3	5/1/2007		657	118	59.0	108	47.0	<20.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/2/2007		578	86	39.0	63.6	31.3	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-3	5/9/2008		528	155	8.7	72.4	20.8	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/30/2008		223	12.8	1.6	7.7	2.5	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-3	10/12/2011		521	181	47.0	88.2	28.1	<1.0	13		NA	NA	NA	1.2	-103	7.6	647	8.07	NM
MWAST-3	10/2/2012		207	49.9	17.8	37.9	16.7	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWAST-8	10/22/2003		12000	1100	890	1100	430	<4.0	NA		25000	NA	NA	1.9	211	NM	NM	NM	NM
MWAST-8	4/21/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	11/18/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	4/20/2005		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	10/11/2005		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	10/26/2006		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-8	5/1/2007		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWAST-9	10/22/2003		1400	1300	170	550	141	<4.0	NA		8300	NA	NA	1.5	212	NM	NM	NM	NM
MWAST-9	4/21/2004		160	110	13	33	8.3	7.7	NA		690	NA	NA	6.52	169	NM	NM	NM	NM
MWAST-9	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	66 J	NA	3.90	-018	NM	NM	NM	0.0
MWAST-9	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	5.0	216	NM	NM	NM	NM
MWAST-9	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	4.65	-023	NM	569	7.78	1.0
MWAST-9	10/26/2006		80.0	71.3	6.8	39.3	11.9	<1.0	NA		NA	NA	NA	64.80	141	NM	NM	NM	0.0
MWAST-9	5/1/2007		11.5	9.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	7.62	9.8	NM	NM	7.12	1.0
MWAST-9	10/2/2007		53.4	32.9	3.1	13.9	4.6	<1.0	NA		NA	NA	NA	2.70	29.3	NM	NM	7.30	NM
MWAST-9	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	2.73	224.4	NM	NM	6.52	1.0
MWAST-9	10/30/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	3.08	54.3	NM	NM	7.13	0.0
MWAST-9	10/12/2011		20.4	3.2	<1.0	<3.0	4.5	<1.0	<4.0		NA	NA	NA	0.11	-1	7.8	508	8.26	NM
MWAST-9	10/2/2012		93.2	98.7	7.0	49.9	11.5	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-2	10/22/2003		720	18	25	8.4	4.8	<4.0	NA		1600	NA	NA	5.7	243	NM	NM	NM	NM
MWM-2	4/21/2004		20	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	4.20	234	NM	NM	NM	NM
MWM-2	11/18/2004		Well Bent/Damaged																
MWM-2	4/20/2005		Well Bent/Damaged--Repaired in Aug 2005																
MWM-2	10/11/2005		0.76 J	<1.0	<1.0	0.74 J	<1.0	<1.0	NA		NA	NA	NA	6.76	34.4	NM	840	7.33	2.0
MWM-2	10/25/2006		1980	52.2	54.5	32.8	10.7	<1.0	NA		<100	NA	NA	22.70	135	NM	NM	NM	0.0
MWM-2	5/1/2007		3.6	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	4.29	26.4	NM	NM	6.97	1.0
MWM-2	10/2/2007		5.2	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	2.13	17.6	NM	NM	7.00	0.0
MWM-2	5/9/2008		708	23.0	35.3	<15.0	<5.0	<5.0	NA		NA	NA	NA	0.67	136.5	NM	NM	6.48	0.0
MWM-2	10/29/2008		183	7.0	9.5	3.8	<1.0	<1.0	NA		NA	NA	NA	1.34	30.0	NM	NM	6.96	0.0
MWM-2	10/12/2011		1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.78	-50.0	7.8	827	8.00	NM
MWM-2	10/2/2012		244	19.9	14.5	7.4	4	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-2	10/1/2013		523	13.1	22.4	5.8J	<3.5	<1.9	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MWM-2	10/30/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	0.53J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-2	10/5/2015		12.8	0.49J	0.86J	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-2	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-2D	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-2D	6/13/2017		<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-4	10/22/2003		<1.0	<1.0	3.3	<3.0	2.8	<4.0	NA		120	NA	NA	3.6	240	NM	NM	NM	NM
MWM-4	4/21/2004		1.2	<1.0	1.4	<3.0	<1.0	<4.0	NA		<100	NA	NA	6.43	217	NM	NM	NM	NM
MWM-4	11/18/2004		Well Bent/Damaged																
MWM-4	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	3.6	204	NM	NM	NM	NM
MWM-4	10/11/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	3.45	13.3	NM	692	7.69	2.0
MWM-4	10/26/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	25.80	107.4	NM	NM	NM	0.0
MWM-4	5/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	2.08	-7.7	NM	NM	7.48	1.0
MWM-4	10/2/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.36	33.3	NM	NM	7.26	0.0
MWM-4	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	3.12	246.1	NM	NM	6.58	1.0
MWM-4	10/30/2008		1.0	<1.0	3.4	3.7	2.5	<1.0	NA		NA	NA	NA	2.11	68.9	NM	NM	7.12	0.0
MWM-4	10/12/2011		1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.09	-6.0	8.3	639	8.13	NM
MWM-6	10/31/2014		3.3	<0.39	24.3	25.9	88.3	4.2	5.9	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-6	5/6/2015		3.2	1.3	7.7	16.2	22.3	0.81J	3.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7	10/22/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	1.1	210	NM	NM	NM	NM
MWM-7	4/21/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	2.34	202	NM	NM	NM	NM
MWM-7	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	140	NA	2.30	63	NM	NM	NM	0.0
MWM-7	4/20/2005		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	2.4	222	NM	NM	NM	NM
MWM-7	10/11/2005		0.25 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	6.30	43.0	NM	800	7.39	0.3
MWM-7	10/25/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	9.80	133.4	NM	NM	NM	1.0
MWM-7	5/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	2.65	3.4	NM	NM	7.15	1.0
MWM-7	9/29/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.33	33.0	NM	NM	7.06	0.0
MWM-7	5/9/2008		3.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.61	236.3	NM	NM	6.45	1.0
MWM-7	10/28/2008		6.8	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.88	76.6	NM	NM	6.82	0.0
MWM-7	10/12/2011		2.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.89	-4.0	8.5	781	7.93	NM
MWM-7	10/2/2012		3.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7	10/1/2013		2.1	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7	10/29/2014		0.60J	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7	10/6/2015		8.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7	10/5/2016		4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	10/14/2009		2340	96	67	97.2	30.3	<1.0	<4.0		NA	NA	NA	1.2	122	NM	NM	7.82	NM
MWM-7D	4/29/2010		1860	82.4	55.1	72.4	16.5	<10.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	4/29/2010		1870	81.9	51.6	71.7	<20.0	<20.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D duplicate	10/27/2010		2200	122	84.2	111	35.1	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	4/26/2011		2180	104	75.9	113	22.5	<20.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	10/12/2011		667	3.7	<1.0	38.1	4.4	<1.0	NA		NA	NA	NA	0.56	-210	8.6	1069	8.10	NM
MWM-7D	4/17/2012		731	28.3	18.0	29.1	10.7	<1.0	NA		NA	NA	NA	0.87	4.6	7.8	1397	7.69	NM
MWM-7D	10/2/2012		1600	78.6	59.2	74.7	28.9	<1.0	NA		<100	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MWM-7D duplicate	10/2/2012		1430	62.3	46.9	59.0	16.8	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	5/6/2013		1400	53.5	38.5	52.6	18.2	<10.0	<40.0	NA	NA	NA	NA	0.30	90.5	8.4	1276	7.35	NM
MWM-7D	10/3/2013		1210	43.2	35	34.9J	<19.5J	<7.4	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	5/21/2014		1170	38.9	33.6	31.1	<21.7	<10.0	<40.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	10/30/2014		1370	39.3	34.4	35.6	<13.9J	<4.8	8.2J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	5/5/2015		1630	36.7	33.7	30.5J	<16.7	<9.7	<8.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	10/6/2015		1890	44.3	40.2	39.7J	<20.8	<12.1	<10.6	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	5/25/2016		1760	39.8	36.3	37.2	8.3	<2.4	<2.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	10/5/2016		1980	45.1	42.3	40.2	<12.0J	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-7D	6/14/2017		2010	43.7	45.4	47.2J	<33.3	<19.4	<17.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
Well Abandoned																			
MWM-9	10/22/2003		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	2.2	183	NM	NM	NM	NM
MWM-9	4/20/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	1.57	235	NM	NM	NM	NM
MWM-9	11/18/2004		Well Abandoned																
MWM-9RS	10/14/2009		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<4.0		NA	NA	NA	2.1	183	NM	NM	7.53	NM
MWM-9RS	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RS	10/12/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.8	-98	8.1	847	8.11	NM
MWM-9RS	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RS	10/2/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RS	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RS	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RS	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	10/14/2009		4790	295	207	327	163.9	<1.0	37.2		NA	NA	NA	1.5	139	NM	NM	7.42	NM
MWM-9RD	4/29/2010		5520	309	248	366	129	<50.0	<200		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	10/27/2010		4980	292	272	376	205.8	<25.0	<100		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	4/26/2011		5540	318	328	469	228.5	<50.0	<200		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	4/26/2011		5230	299	300	373	164	<50.0	<200		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD duplicate	10/12/2011		3440	153	44.4	206	50.1	<1.0	<4.0		NA	NA	NA	0.46	-148	8.5	924	7.89	NM
MWM-9RD	4/17/2012		4300	226	198	264	85.7	<50.0	NA		NA	NA	NA	0.53	52.7	8.2	1224	7.14	NM
MWM-9RD	10/2/2012		4650	262	270	356	190.4	<25.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	5/8/2013		3040	113	44.4	185	127.8	<5.0	<20.0	NA	NA	NA	NA	0.5	7	8.1	1127.0	327.10	NM
MWM-9RD	10/3/2013		3060	177	202	248	140.8J	<14.8	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	5/22/2014		3190	188	225	258	157.1	<20.0	<80.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	10/30/2014		3350	204	252	322	195	<24.2	70.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	5/5/2015		3020	164	225	269	151.8J	<19.4	42.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	10/7/2015		2980	152	215	253	141.8J	<24.2	34.1J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	5/25/2016		2620	136	194	250	140.8	<4.8	39.4	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	10/6/2016		2750	141	229	399	140.5	<9.7	36.3	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-9RD	6/14/2017		2690	117	197	233	125.4	25.2	37.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/27/2010		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10S	4/26/2011		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/18/2011		<2.0	<2.0	<2.0	<6.0	<2.0	<2.0	<2.0		NA	NA	NA	0.6	-230	9	1342	7.73	NM
MWM-10S	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/1/2013		<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NN	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MWM-10S	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/5/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	0.43J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10S	10/4/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	4/29/2010		1230	23.1	<10.0	<30.0	<10.0	<10.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/27/2010		960	19.6	<5.0	18	<5.0	<5.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	4/26/2011		44.8	1.0	<1.0	3.2	1.3	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/18/2011		289	6.5	1.4	9.9	2	<1.0	NA	NA	NA	NA	0.46	-305	7.51	869	8.11	NM	
MWM-10D	4/17/2012		785	18.7	3.7	17	3.2	<1.0	NA	NA	NA	NA	0.67	-7.6	8.1	1093	7.65	NM	
MWM-10D	10/2/2012		1180	25	<10.0	<30.0	<10.0	<10.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	5/6/2013		497	10.2	<5.0	<15.0	<10.0	<5.0	<20.0	NA	NA	NA	NA	0.3	80	8	982	7.25	NM
MWM-10D (Dup)	5/6/2013		507	9.9	1.8	10.2	2.8	<1.0	<4.0	NA	NA	NA	NA	0.3	80	8	982	7.25	NM
MWM-10D	10/3/2013		845	18.8	5.5J	18.4J	<8.4J	<3.7	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	5/21/2014		925	23.5	<5.0	19.9	<10.0	<5.0	<20.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/30/2014		914	19.1	4.0J	13.6J	<4.2	<2.4	<2.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D (Dup)	10/30/2014		869	18.5	<3.9	15.7J	<8.4	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	5/5/2015		1010	22.6	4.3J	16.2J	<8.4	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/6/2015		874	19.0	<3.9	14.5J	<8.4	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	5/25/2016		883	19.3	4.9J	14.3J	4.3J	2.6J	3.1J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	10/5/2016		908	18.1	5.3J	13.6J	<8.4	<4.8	<4.2	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWM-10D	6/14/2017		1080	25.9	6.7J	20.3	<8.4	<4.8	9.5J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/15/2003		2400	280	1100	2400	499	<20	140		22000	NA	NA	0.3	-071	NM	NM	NM	1.55
LRMW-6	4/15/2003	D	2100	300	1300	2500	560	<80	NA		16000	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/22/2003		2500	300	1300	2400	510	<20	130		15000	NA	NA	1.3	-094	NM	NM	NM	NM
LRMW-6	10/22/2003	D	2400	300	1400	2400	540	<40	NA		13000	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/21/2004		3100	340	1500	2800	650	<1.0	190		14000	NA	NA	1.82	066	NM	NM	NM	NM
LRMW-6	4/21/2004	D	2500	350	1400	2600	660	<40	NA		14000	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	11/18/2004		1740	148	656	1080	258	<10	55.7		7940	3700	NA	0.80	-078	NM	NM	NM	4.0
LRMW-6	11/18/2004	D	48.4	<10.0	12.7	28.6 J	175.9	<40.0	NA		1970	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/20/2005		2190	277	972	2020	571	<5.0	118		NA	NA	NA	1.5	-13	NM	NM	NM	NM
LRMW-6	4/20/2005	D	2590	286	1160	2090	579	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/11/2005		1500	210	1000	1500	660	11	120		NA	NA	NA	1.22	-88.2	NM	1146	7.49	2.0
LRMW-6	10/11/2005	D	1500	210	1000	1500	660	11	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/25/2006		1640	175	1410	2010	866	<10.0	143		NA	NA	NA	8.60	-147.4	NM	NM	NM	10.0
LRMW-6	10/25/2006	D	1660	183	1450	2070	904	<10.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	5/1/2007		1820	207	1420	2160	655	<20.0	140		NA	NA	NA	0.47	-183.6	NM	NM	6.88	10.0
LRMW-6	5/1/2007	D	1490	187	1180	1870	582	<20.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/1/2007		1690	187	1310	1940	804	<20.0	125		NA	NA	NA	0.04	-55.4	NM	NM	6.85	10.0
LRMW-6	5/9/2008		1860	200	1500	2380	911	<10.0	167		NA	NA	NA	0.49	-73.1	NM	NM	6.63	NM
LRMW-6	5/9/2008	D	1900	226	1510	2300	954	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/30/2008		1820	203	1380	2310	924	<1.0	NA		NA	NA	NA	1.29	-71.50	NM	NM	6.84	10.0
LRMW-6	10/14/2009		1500	170	1300	1940	730.1	<10.0	127		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/29/2010		2210	266	1650	2850	822.0	<10.0	177		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/27/2010		1560	190	1520	2230	970.0	<10.0	140		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	4/26/2011		1570	196	1660	2540	1162	<10.0	152		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/12/2011		1620	181	1300	1860	844	<10.0	108		NA	NA	NA	0.56	-191	9.77	1203	7.86	NM

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Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
LRMW-6	4/17/2012		1470	197	1190	2210	620	<10.0	NA		NA	NA	NA	3.04	-19.5	8.3	1478	6.91	NM
LRMW-6	10/2/2012		2070	248	1420	2390	757	<10.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-6	10/5/2016		1130	141	1310	1340	886	<9.7	116		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-8	7/28/2011		1460	388	132	343	310	<10.0	<40.0		NA	NA	NA	0.47	-132	9.1	440	7.69	NM
LRMW-8	10/17/2011		815	333	164	509	300	<1.0	46.8		NA	NA	NA	0.88	-179	8.82	862	8.2	NM
LRMW-9	7/30/2014		1820	701	142	315	76	<3.5	<50.0					NM	NM	NM	NM	NM	NM
LRMW-9	10/31/2014		1490	499	123	240	73.8	5.2J	18.9		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-9	5/5/2015		1850	681	162	314	88.4	<9.7	26.3		NA	NA	NA	NM	NM	NM	NM	NM	NM
LRMW-9	5/25/2016		2000	661	171	325	105.5	<2.4	23.6										
LRMW-10	7/30/2014		3060	4920	1450	4710	1871	<17.4	619					NM	NM	NM	NM	NM	NM
LRMW-10	5/6/2015		FP	FP	FP	FP	FP	FP	FP		NA	NA	NA	NA	NM	NM	NM	NM	NM
MWRR-1	10/22/2003		57	1.2	<1.0	<3.0	<1.0	<4.0	NA		100	NA	NA	2.7	223	NM	NM	NM	NM
MWRR-1	4/21/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	1.78	183	NM	NM	NM	NM
MWRR-1	11/18/2004		306	1.7	<1.0	1.6 J	<1.0	<4.0	NA		490	320	NA	1.80	058	NM	NM	NM	0.0
MWRR-1	4/20/2005		6.7	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	1.5	45	NM	NM	NM	NM
MWRR-1	10/11/2005		0.29 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/24/2006		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	5/1/2007		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/1/2007		316	13.9	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	5/9/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/29/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/12/2011		<1.0	<1.0	<1.0	<3.1	<1.0	<1.0	NA		NA	NA	NA	1.1	-135	10	608	8	NM
MWRR-1	10/2/2012		154	2.4	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/3/2013		216	0.93J	<0.34	<1.0	<0.69	0.44J	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	5/5/2015		29.8	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/6/2015		164	0.89J	<0.39	<1.2	<0.84	0.61J	<0.42		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-1	10/5/2016		<0.4	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/22/2003		2.4	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	4.8	-051	NM	NM	NM	NM
MWRR-2	4/21/2004		4.4	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	1.44	135	NM	NM	NM	NM
MWRR-2	11/18/2004		9.0	<1.0	<1.0	<3.0	1.3	<4.0	NA		61.3 J	790	NA	0.80	-43	NM	NM	NM	6.0
MWRR-2	4/20/2005		2.3	<1.0	<1.0	<1.0	<3.0	<1.0	NA		NA	NA	NA	0.7	-11	NM	NM	NM	NM
MWRR-2	10/11/2005		12	0.38 J	0.59 J	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/24/2006		8.9	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	5/1/2007		9.9	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/1/2007		6.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	5/9/2008		11.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/29/2008		6.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/14/2009		6.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/27/2010		8.6	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/14/2011		19.9	1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.9	-207	8.9	-207	7.83	NM
MWRR-2	10/2/2012		17.2	1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	5/5/2015		6.9	0.45J	0.58J	1.5J	<0.84	0.96J	<0.42		NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
NR 140 ES-->			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MWRR-2	10/6/2015		11.1	0.41J	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-2	10/4/2016		17.6	0.87J	1.2	<3.95	<2.62	0.49J	0.72J	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/22/2003		740	470	400	1700	610	<40	NA		8100	NA	NA	3.25	-065	NM	NM	NM	NM
MWRR-4	4/21/2004		940	1200	240	2300	800	<20	NA		9500	NA	NA	1.80	103	NM	NM	NM	NM
MWRR-4	11/18/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWRR-4	4/20/2005		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWRR-4	10/11/2005		0.14 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/24/2006		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWRR-4	5/1/2007		304	174	75.9	1290	423	<20.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/1/2007		414	225	130.0	1350	483	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	5/9/2008		498	277	143.0	1470	511	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/30/2008		616	308	215	1460	527	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/14/2009		689	261	345	1300	546	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/27/2010		674	309	216	1250	489	<5.0	245		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/12/2011		669	235	303	1240	429	<5.0	255		NA	NA	NA	0.7	-215	10.2	868.0	7.76	NM
MWRR-4	5/6/2015		805	172	231	1130	479	<4.8	249		NA	NA	NA	0.7	-215	10.2	868.0	7.76	NM
MWRR-4	10/6/2015		383	80.2	112	702	281.6	<1.9	157	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWRR-4	10/4/2016		676	125.0	179	797	304.7	<4.8	167		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-1	10/21/2003		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	1/20/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	4/19/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	7/27/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	11/15/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	4/18/2005		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	10/11/2005		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	5/23/2006		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	10/16/2006		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	5/1/2007		500	25.8	146	444	825	28.5	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-1	9/25/2007		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-1	7/30/2014		377	12.5	92.7	62.6	924	<0.87	<12.5		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-1	5/6/2015		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-2	10/22/2003		6.8	<1.0	1.5	<3.0	1.1	<4.0	NA		230	NA	NA	1.27	194	NM	NM	NM	NM
MWOW-2	10/22/2003	D	6.2	<1.0	1.2	<3.0	<1.0	<4.0	NA		210	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	4/21/2004		6.3	<1.0	<1.0	<3.0	3.5	<4.0	NA		140	NA	NA	2.34	163	NM	NM	NM	NM
MWOW-2	4/21/2004	D	<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	11/18/2004		<1.0	<1.0	<1.0	<3.0	<1.0	<4.0	NA		<100	370	NA	2.40	118	NM	NM	NM	0.0
MWOW-2	11/18/2004	D	101	3.0	59.0	7.8	62.6	<4.0	NA		466	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	4/20/2005		5.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	1.1	-23	NM	NM	NM	NM
MWOW-2	4/20/2005	D	5.9	<1.0	0.53 J	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/11/2005		3.8	<1.0	0.42 J	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/11/2005	D	3.8	<1.0	0.50 J	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/24/2006		0.61 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/24/2006	D	0.79 J	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	5/1/2007		1.3	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
NR 140 ES-->			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
MWOW-2	5/1/2007	D	1.7	<1.0	<1.0	<3.0	<1.0	<4.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/1/2007		1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	5/9/2008		3.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	5/9/2008	D	3.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/29/2008		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/12/2011		1.1	<1.0	<1.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	0.6	-202	12.5	804	8.01	NM
MWOW-2	10/2/2012		<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/2/2013		0.38J	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	5/4/2015		0.54J	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/6/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-2	10/4/2016		0.44J	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/22/2003		190	30	81	160	123	<8.0	NA		2100	NA	NA	3.14	-104	NM	NM	NM	NM
MWOW-3	4/21/2004		61	6.5	27	68	111	<4.0	NA		1700	NA	NA	1.32	060	NM	NM	NM	NM
MWOW-3	11/18/2004		24.7	6.9	52	10.8 J	366	<20	NA		1870	15.4	NA	0.90	-29	NM	NM	NM	2.0
MWOW-3	4/20/2005		45.1	3.7 J	21.3	43.9	50.7	<5.0	NA		NA	NA	NA	0.6	-06	NM	NM	NM	NM
MWOW-3	10/11/2005		75	8.2	85	89.1	91	1.3	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/24/2006		266	25.4	16.7	<15.0	18.7	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	5/1/2007		71.2	3.7	40.6	35.4	30.8	<4.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/1/2007		47.5	<5.0	30.2	27.0	22.0	<5.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	5/9/2008		120.0	5.4	55.1	29.6	29.6	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/29/2008		116	6.0	63.2	33.0	23.5	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/14/2009		119	9.2	3.0	<3.0	<1.0	<1.0	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/27/2010		23	1.6	4.1	<3.0	<1.0	<1.0	<4.0		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/12/2011		34.3	1.9	2.3	<3.0	<1.0	<1.0	<4.0		NA	NA	NA	0.79	-162	8.8	737	8.01	NM
MWOW-3	10/2/2012		72.4	3.3	1.3	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/3/2013		167.0	16.7	23.0	56.4	14.0	4.1	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	7/30/2014		66.6	2.0	3.6	2.1J	<2.4	<0.17	<2.5	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	5/5/2015		32.5	1.2	1.9	2.8J	<1.09J	1.5	1.3	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/6/2015		24.1	2.2	6.9	7.2	4.24J	0.53J	3.7	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-3	10/4/2016		36.8	1.4	5.2	3.2	1.1	1.0	1.1	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-5	10/21/2003		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	1/20/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	4/19/2004		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM
MWOW-5	7/27/2004		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM
MWOW-5	11/15/2004		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	4/18/2005		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	10/11/2005		1300	890	570	1400	530	<10	NA		NA	NA	NA	NM	NM	NM	NM	NM	NM
MWOW-5	5/23/2006		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	10/16/2006		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	4/23/2007		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
MWOW-5	9/25/2007		FP	FP	FP	FP	FP	FP	FP		FP	FP	FP	NM	NM	NM	NM	NM	NM
ABC MW-6	4/20/1998		<	0.4	0.5	1.5	<	<	3.1		NA	NA	<0.005	NM	NM	NM	NM	NM	NM
ABC MW-6	6/24/1998		1.8	<	0.6	<	<	<	<		NA	NA	<	NM	NM	NM	NM	NM	NM
ABC MW-6	10/1998		1.02	2.57	0.696	2.29	1.38	<	<		NA	NA	<	NM	NM	NM	NM	NM	NM

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Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
ABC MW-6	2/03/1999		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35		NA	NA	<1.6	NM	NM	NM	NM	NM	NM
ABC MW-6	5/21/1999		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35		NA	NA	<1.8	NM	NM	NM	NM	NM	NM
ABC MW-6	9/23/1999		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35		NA	NA	2.9 ⁽²⁾	NM	NM	NM	NM	NM	NM
ABC MW-6	1/5/2000		<0.44	<0.40	<.50	<1.31	<0.92	<0.44	<0.59		NA	NA	5 ⁽²⁾	NM	NM	NM	NM	NM	NM
ABC MW-6	4/18/2000		<0.27	<0.27	<0.32	<0.67	<0.49	<0.32	<0.35		NA	NA	<0.92	NM	NM	NM	NM	NM	NM
GP100	9/15/2011		1730	622.0	58.6	128	92.5	<10	<40		NA	NA		NM	NM	NM	NM	NM	NM
GP101	9/15/2011		215	37.8	23.3	52.4	151.6	<1	<20.2		NA	NA		NM	NM	NM	NM	NM	NM
GP102	9/15/2011		14200	1340.0	579	924	247.7	<25	<100		NA	NA		NM	NM	NM	NM	NM	NM
GP103	9/15/2011		305	25.1	19.7	24	<1	<2	<8		NA	NA		NM	NM	NM	NM	NM	NM
GP104	9/15/2011		2670	442.0	713	3190	835	<25	747		NA	NA		NM	NM	NM	NM	NM	NM
GP105	9/15/2011		421	165.0	67	116	5.2	<5	<20		NA	NA		NM	NM	NM	NM	NM	NM
GP106	9/15/2011		493	343.0	376	1870	11760	<5	203		NA	NA		NM	NM	NM	NM	NM	NM
GP107	9/16/2011		19	7.2	19.4	56.9	932	<1	17		NA	NA		NM	NM	NM	NM	NM	NM
GP108	9/16/2011		563	23.6	34.7	108	124.8	<5	61		NA	NA		NM	NM	NM	NM	NM	NM
GP109	9/16/2011		1340	109.0	201	805	220	<10	141		NA	NA		NM	NM	NM	NM	NM	NM
GP110	9/19/2011		<1	1.1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP111	9/19/2011		1050	120.0	362	1380	835	<10	369		NA	NA		NM	NM	NM	NM	NM	NM
GP112	9/19/2011		39.4	5.0	6	6.9	5.2	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP113	9/19/2011		4430	1590.0	5280	17600	11760	<50	3940		NA	NA		NM	NM	NM	NM	NM	NM
GP114	9/19/2011		174	51.6	715	1670	932	<10	351		NA	NA		NM	NM	NM	NM	NM	NM
GP115	9/20/2011		649	20.6	21	31.1	124.8	<5	<20		NA	NA		NM	NM	NM	NM	NM	NM
GP116	9/20/2011		278	139.0	45.1	144	220	<2	21		NA	NA		NM	NM	NM	NM	NM	NM
GP117	9/20/2011		93.4	8.4	1.8	5.6	2.3	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP118	9/22/2011		5.3	<2	<2	<6	2.5	<2	<8		NA	NA		NM	NM	NM	NM	NM	NM
GP119	9/22/2011		2230	426.0	567	2940	855	<20	549		NA	NA		NM	NM	NM	NM	NM	NM
GP120	9/22/2011		4710	2440.0	732	2740	1282	<50	352		NA	NA		NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters					
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron
NR 140 ES-->			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-
GP200	9/20/2011		3.2	<1	<1	<3	<2	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP201	9/20/2011		15.6	5.1	3.2	8.1	31.1	<2	<8		NA	NA		NM	NM	NM	NM	NM	NM
GP202(D)	9/20/2011		83.7	<2	<2	<6	<2	<2	<8		NA	NA		NM	NM	NM	NM	NM	NM
GP203	9/20/2011		1.6	1.5	18.7	49.8	77.7	<1	14.9		NA	NA		NM	NM	NM	NM	NM	NM
GP204	9/20/2011		1.2	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP205	9/21/2011		1410	28.6	<1	4.7	<1	2	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP206	9/21/2011		1110	23.7	<1	3.4	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP207	9/21/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP208	9/21/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP209(D)	9/21/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP210(D)	9/21/2011		10.7	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP211	9/22/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP212	9/22/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP213	9/22/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP214	9/22/2011		1230	156.0	217	466	526	<10	86.6		NA	NA		NM	NM	NM	NM	NM	NM
GP215	9/22/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP216	9/22/2011		<1	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
GP-217	9/22/2011		1.9	<1	<1	<3	<1	<1	<4		NA	NA		NM	NM	NM	NM	NM	NM
ABC MW-7	2/4/1999		440	150	360	497	410	<3.2	60		NA	NA	<1.6	NM	NM	NM	NM	NM	NM
ABC MW-7	5/21/1999		440	120	310	446	334	<1.6	56		NA	NA	<1.6	NM	NM	NM	NM	NM	NM
ABC MW-7	9/23/1999		420	110	300	423	332	<0.80	55		NA	NA	3.2 ⁽²⁾	NM	NM	NM	NM	NM	NM
ABC MW-7	1/5/2000		410	120	340	425	440	<2.2	67		NA	NA	5 ⁽²⁾	NM	NM	NM	NM	NM	NM
ABC MW-7	4/18/2000		350	100	290	396	295	<3.2	42		NA	NA	<0.92	NM	NM	NM	NM	NM	NM
BC-3	11/20/1998		460	130	130	280	182	20	NA		3300	22000	FP	NM	NM	NM	NM	NM	NM
BC-4	11/20/1998		2.1	3.1	2.2	8.1	5.1	<4	NA		120	<300	FP	NM	NM	NM	NM	NM	NM

Table 5
Groundwater Analytical Results - Barge Dock
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Date Sampled	Duplicate (D) or Split (S)	Analytical Parameters											Bio-Parameters						
			Benzene	Toluene	Ethylbenzene	Xylenes	Total TMBs	MTBE	Naphthalene	1,2-DCA	GRO	DRO	THC	DO	REDOX	Temp	Conductivity	pH	Soluble Iron	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ppm	mV	°C	µmhos/cm	pH units	ppm
NR 140 ES-->			5	800	700	2000	480	60	100	5	-	-	-	-	-	-	-	-	-	-
BC-7	11/20/1998		FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
MWBD-1	10/10/2013		<0.34	<0.34	<0.34	<1.0	NA	<0.37	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1	5/20/2014		<1.0	<1.0	<1.0	<3.0	<2.0	<1.0	<4.0	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1	10/29/2014		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1	5/4/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1	10/6/2015		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1	5/24/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1	10/6/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	10/29/2014		167	<0.39	<0.39	<1.2	<0.84	<0.48	0.46J	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	2/19/2015		185	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	5/5/2015		207	<0.78	<0.79	<2.5	<1.67	<0.97	<0.85	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D(Dup)	5/5/2015		205	<0.78	<0.79	<2.5	<1.67	<0.97	<0.85	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	10/6/2015		210	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D(Dup)	10/6/2015		212	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	5/25/2016		213	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	10/5/2016		193	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
MWBD-1D	6/14/2017		156	<0.78	<0.79	<2.5	<1.67	<0.97	<0.85	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM
Trip Blank	10/5/2016		<0.40	<0.39	<0.39	<1.2	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM

NOTES:

- < = The compound was not detected at or above the indicated method detection limit. Unlisted detection limit concentrations were unavailable.
- µg/L = micrograms per liter (equivalent to parts per billion)
- µmhos/cm = micromhos per centimeter
- ABC MW-6 = Indicates a well owned by ABC Rail Corporation (data obtained from WDNR files)
- °C = Degrees Celsius
- D = Duplicate sample
- DO = Dissolved Oxygen
- DRO = Diesel Range Organics
- FP = The well was not sampled due to the presence of free product
- GRO = Gasoline Range Organics
- MTBE = Methyl Tertiary-Butyl Ether
- mV = millivolts
- NA = Not Analyzed for indicated parameter
- NM = Not Measured
- NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
- NS = Not Sampled
- ppm = parts per million
- REDOX = Reduction/Oxidation
- TMBs = Trimethylbenzenes
- "BOLD TYPE"** = The indicated concentration exceeds the NR 140 ES

Table 6
Phase II System LNAPL Recovery Summary
Former Amoco Terminal
Superior, WI

Superior Barge Dock Product Skimming System - Phase II				Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																							
6 LNAPL Skimming Wells on C. Reiss property				Diameter of tank = 8.00 feet				Depth of tank from top of bung = 8.08 feet				Length of tank = 18.67 feet				Depth of bung = 0.08 feet											
Product Recovery Table				Full Volume of tank = 7,019 gallons				95% full volume of tank = 6,668 gallons																			
Operational Time																											
Date/Time	Calendar Period hours	Total hours	Total days	Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimate d # of days until	Cumulative Estimate d # of days until	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons /)	Period Product recovery rate (gallons /)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons /)	Cumulative Product recovery rate (gallons /)	Notes	
6/19/12 16:00	System startup																										
6/20/12 10:00	18.00	18.0	0.8			9	-	9	7.13	8.00	0.08	0.87	470	7.0%	10.2	10.2	12	458	11.9	457.9	15.8	610.6	458	15.8	610.6		
6/20/12 15:24	5.40	23.4	1.0			11	-	11	6.90	7.90	0.18	1.00	644	9.7%	9.3	9.7	40	604	28.1	146.4	124.7	650.6	604	41.0	619.8		
6/21/12 10:45	19.35	42.8	1.8			1	7.00	19	6.30	7.58	0.50	1.28	1,163	17.4%	11.8	10.0	183	981	142.7	376.4	177.0	466.9	981	102.5	550.6		
6/21/12 14:45	4.00	46.8	1.9			1	8.00	20	6.20	7.52	0.56	1.32	1,257	18.9%	14.9	10.1	216	1,041	33.3	60.5	200.0	363.0	1,041	110.9	534.5		
6/21/12 16:20	1.58	48.3	2.0			1	8.50	20.5	6.16	7.49	0.59	1.33	1,295	19.4%	17.1	10.2	233	1,062	17.3	20.7	262.4	314.0	1,062	115.8	527.3		
6/22/12 9:30	17.17	65.5	2.7			1	11.00	23	5.97	7.49	0.59	1.52	1,479	22.2%	20.1	11.4	233	1,246	0.0	184.2	0.0	257.6	1,246	85.5	456.6		
6/22/12 15:50	6.33	71.8	3.0			1	11.50	23.5	5.92	7.49	0.59	1.57	1,529	22.9%	27.5	11.9	233	1,296	0.0	49.4	0.0	187.2	1,296	77.9	432.9	System shut down for weekend	
6/25/12 17:00	0.00	71.8	3.0			2	0.25	24.25	5.88	7.49	0.59	1.61	1,569	23.5%	NA	11.4	233	1,335	0.0	39.8	0.0	0.0	1,335	77.9	446.2	System re-started Monday mid-day	
6/26/12 17:00	24.00	95.8	4.0			2	6.25	30.25	5.37	7.49	0.59	2.12	2,094	31.4%	8.7	9.8	233	1,860	0.0	525.0	0.0	525.0	1,860	58.4	465.9		
6/27/12 16:30	23.50	119.3	5.0			2	8.50	32.5	5.19	7.61	0.47	2.42	2,285	34.3%	16.6	10.3	167	2,119	-66.6	258.4	-68.1	263.9	2,119	33.5	426.1	Some water pumped out of tank w/ spillbuddy	
6/28/12 17:00	24.50	143.8	6.0	215.4		2	10.00	34	5.12	8.04	0.04	2.92	2,361	35.4%	18.5	11.0	4	2,357	-162.4	237.8	-159.1	232.9	2,357	0.7	393.2	Water pumped out of tank w/ pneumatic pump	
6/29/12 15:46	22.77	166.6	6.9	235.2		2	11.50	35.5	4.90	8.04	0.04	3.14	2,600	39.0%	16.2	10.9	4	2,596	0.0	239.0	0.0	251.9	2,596	0.6	373.9		
7/2/12 9:20	65.57	232.2	9.7	300.8		3	6.00	42	4.36	8.04	0.04	3.68	3,197	47.9%	15.9	10.5	4	3,192	0.0	597.0	0.0	218.5	3,192	0.4	330.0		
7/2/12 14:00	4.67	236.8	9.9	300.8		3	6.75	42.75	4.30	8.04	0.04	3.74	3,264	48.9%	9.9	10.3	4	3,259	0.0	66.9	0.0	344.0	3,259	0.4	330.3		
7/3/12 10:21	20.35	257.2	10.7	325.7		3	8.50	44.5	4.17	8.04	0.04	3.87	3,409	51.1%	19.0	10.3	4	3,404	0.0	145.1	0.0	171.1	3,404	0.4	317.7		
7/3/12 15:26	5.08	262.3	10.9	330.8		3	9.00	45	4.11	8.04	0.04	3.93	3,476	52.1%	10.1	10.1	4	3,471	0.0	67.0	0.0	316.4	3,471	0.4	317.7		
7/5/12 10:00	42.57	304.8	12.7			4	0.75	48.75	3.81	8.04	0.04	4.23	3,811	57.1%	15.1	9.5	4	3,806	0.0	334.9	0.0	188.8	3,806	0.3	299.7		
7/5/12 17:05	7.08	311.9	13.0			4	1.50	49.5	3.75	8.04	0.04	4.29	3,877	58.1%	12.3	9.4	4	3,873	0.0	66.8	0.0	226.4	3,873	0.3	298.0		
7/6/12 8:12	15.12	327.0	13.6	395.6		4	2.50	50.5	3.66	8.04	0.04	4.38	3,977	59.6%	16.9	9.2	4	3,973	0.0	100.1	0.0	158.9	3,973	0.3	291.6		
7/6/12 15:16	7.07	334.1	13.9	402.7		4	3.00	51	3.60	8.04	0.04	4.44	4,044	60.6%	11.6	9.0	4	4,040	0.0	66.6	0.0	226.2	4,040	0.3	290.2		
7/9/12 10:00	66.73	400.8	16.7			4	8.50	56.5	3.15	8.04	0.04	4.89	4,539	68.1%	12.0	7.8	4	4,534	0.0	494.5	0.0	177.8	4,534	0.3	271.5		
7/9/12 15:00	5.00	405.8	16.9			4	9.00	57	3.10	8.04	0.04	4.94	4,593	68.9%	8.0	7.6	4	4,589	0.0	54.2	0.0	260.3	4,589	0.2	271.4		
7/10/12 9:05	18.08	423.9	17.7	492.5		4	10.25	58.25	3.00	8.04	0.04	5.04	4,701	70.5%	13.7	7.4	4	4,697	0.0	107.9	0.0	143.2	4,697	0.2	265.9		
7/10/12 16:14	7.15	431.1	18.0	499.5		4	11.00	59	2.95	8.04	0.04	5.09	4,754	71.3%	10.6	7.2	4	4,750	0.0	53.7	0.0	180.2	4,750	0.2	264.5		
7/11/12 8:50	16.60	447.7	18.7			5	-	5	2.84	8.04	0.04	5.20	4,872	73.1%	10.6	6.9	4	4,868	0.0	117.4	0.0	169.7	4,868	0.2	261.0		
7/11/12 15:40	6.83	454.5	18.9	523.0		5	1.00	61	2.78	8.04	0.04	5.26	4,935	74.0%	7.8	6.7	4	4,931	0.0	63.6	0.0	223.2	4,931	0.2	260.4		
7/12/12 8:15	16.58	471.1	19.6	539.7		5	2.00	62	2.69	8.04	0.04	5.35	5,030	75.4%	12.0	6.4	4	5,026	0.0	94.7	0.0	137.0	5,026	0.2	256.0		
7/12/12 15:00	6.75	477.8	19.9	546.4		5	2.50	62.5	2.63	8.04	0.04	5.41	5,093	76.4%	7.1	6.2	4	5,088	0.0	62.7	0.0	222.8	5,088	0.2	255.6		
7/13/12 15:15	24.25	502.1	20.9	570.7		5	4.50	64.5	2.48	8.04	0.04	5.56	5,248	78.7%	9.3	5.7	4	5,243	0.0	154.9	0.0	153.3	5,243	0.2	250.6		
7/17/12 8:45	89.50	591.6	24.6			5	11.25	71.25	1.90	8.04	0.04	6.14	5,818	87.2%	5.6	3.6	4	5,813	0.0	570.2	0.0	152.9	5,813	0.2	235.8		
7/18/12 8:20	23.58	615.2	25.6	683.9		6	1.00	73	1.75	8.04	0.04	6.29	5,956	89.3%	5.1	3.1	4	5,952	0.0	138.4	0.0	140.8	5,952	0.2	232.2		
7/18/12 15:42	7.37	622.5	25.9	691.2		6	1.50	73.5	1.70	8.04	0.04	6.34	6,001	90.0%	4.5	2.9	4	5,997	0.0	45.1	0.0	147.1	5,997	0.2	231.2		
7/19/12 9:03	17.35	639.9	26.7	708.6		6	3.00	75	1.60	8.04	0.04	6.44	6,090	91.3%	4.7	2.5	4	6,086	0.0	88.7	0.0	122.7	6,086	0.2	228.3		
7/19/12 15:40	6.62	646.5	26.9	715.2		6	3.50	75.5	1.54	8.04	0.04	6.50	6,142	92.1%	2.8	2.3	4	6,138	0.0	52.2	0.0	189.3	6,138	0.2	227.9		
7/20/12 8:30	16.83	663.3	27.6	731.9		6	5.00	77	1.44	8.04	0.04	6.60	6,227	93.4%	3.6	2.0	4	6,223	0.0	85.1	0.0	121.4	6,223	0.2	225.2		
7/20/12 15:25	6.92	670.2	27.9	738.8		6	5.50	77.5	1.38	8.04	0.04	6.66	6,277	94.1%	2.3	1.7	4	6,273	0.0	49.9	0.0	173.2	6,273	0.2	224.6		
7/22/12 15:15	47.83	718.1	29.9	786.7		6	10.00	82	1.00	8.04	0.04	7.04	6,570	98.5%	0.7	0.4	4	6,566	0.0	293.0	0.0	147.0	6,566	0.1	219.4		
7/23/12 9:30	18.25	736.3	30.7	805.0		6	11.50	83.5	0.85	8.04	0.04	7.19	6,673	100.1%	0.0	0.0	4	6,669	0.0	103.0	0.0	135.4	6,669	0.1	217.4	System shut down after tank gauging	
7/24/2012 12:00	0.00	736.3	30.7			0	0	0	8	8.07	0.01	0.07	12	0%	NA	NA	0.5	11	0.0	0.0	0.0	0.0	6,669	0.017156	217.4	Tank pumped out, system re-started	
7/24/12 14:30	2.50	738.8	30.8			0	2.50	2.5	7.70	8.04	0.04	0.34	122	1.8%	6.4	29.7	4	117	3.7	106.0	35.3	1017.7	6,786	0.1	220.4		
7/25/12 8:45	18.25	757.1	31.5			0	4.50	4.5	7.54	8.04	0.04	0.50	205	3.1%	59.2	29.7	4	200	0.0	83.1	0.0	109.3	6,869	0.1	217.8		
7/26/12 10:05	25.33	782.4	32.6			0	6.50	6.5	7.34	8.04	0.04	0.70	326	4.9%	55.3	29.6	4	322	0.0	121.1	0.0	114.7	6,990	0.1	214.4	Syst down - suspected power outage; restarted	
7/28/12 12:55	50.83	833.3	34.7	876.2		0	10.50	10.5	7.04	8.04	0.04	1.00															

Table 6
Phase II System LNAPL Recovery Summary
Former Amoco Terminal
Superior, WI

Superior Barge Dock Product Skimming System - Phase II																											
6 LNAPL Skimming Wells on C. Reiss property																											
Product Recovery Table																											
Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																											
							Diameter of tank = 8.00 feet			Depth of tank from top of bung = 8.08 feet																	
							Length of tank = 18.67 feet			Depth of bung = 0.08 feet																	
							Full Volume of tank = 7,019 gallons			95% full volume of tank = 6,668 gallons																	
Date/Time	Operational Time			Panel Hour	Panel Hour	Dial	Dial	Dial	Depth to	Depth to	Water Tx	Product	Total	95%	Period	Cumulati	Current	Current	Period	Period	Period	Period	Cumulative	Cumulati	Cumulativ	Notes	
	Calendar Period	Total hours	Total days	Meter total	Meter period	hour hand	minute hand	total (inches)	Product (ft)	Water (ft)	(ft)	Tx (ft)	Fluid Volume (gal)	Tank full (%)	Estimate d # of days until	ve Estimate d # of days until	Tank Water Volume (gal)	Free Product Volume (gal)	Water recovered (gal)	Free Product recovered (gal)	Water recovery rate (gallons /)	Product recovery rate (gallons /)	Product recovered (gallons)	ve Water recovery rate (gallons /)	e Product recovery rate (gallons /)		
8/13/12 9:50	41.33	1,190.1	49.6	1,233.0	17.5	2	6.00	30	5.40	8.02	0.06	2.62	2,062	30.9%	54.8	26.2	8	2,054	1.8	61.2	2.5	84.0	8,723	0.2	175.9	175.9	System down 8/12 ~ 8:00am (power failure); re-start @10:00a on 8-13-2012
8/15/12 11:20	49.50	1,239.6	51.6	1,282.5	49.5	2	8.75	32.75	5.15	8.01	0.07	2.86	2,328	34.9%	33.8	24.9	10	2,319	2.0	264.4	1.0	128.2	8,988	0.2	174.0	174.0	
8/16/12 10:02	22.70	1,262.3	52.6	1,305.2	22.7	2	10.00	34	5.06	8.01	0.07	2.95	2,426	36.4%	41.3	24.6	10	2,416	0.0	97.2	0.0	102.7	9,085	0.2	172.7	172.7	
8/17/12 10:15	24.22	1,286.5	53.6	1,329.4	24.2	2	10.75	34.75	4.98	8.01	0.07	3.03	2,512	37.7%	48.2	24.3	10	2,503	0.0	86.9	0.0	86.1	9,172	0.2	171.1	171.1	
8/19/12 8:52	46.62	1,333.1	55.5	1,376.0	46.6	3	1.00	37	4.82	8.00	0.08	3.18	2,687	40.3%	44.7	23.7	12	2,675	2.2	172.8	1.1	89.0	9,344	0.2	168.2	168.2	
8/25/12 12:55	148.05	1,481.2	63.5	1,524.1	148.1	3	6.50	42.5	4.33	7.93	0.15	3.60	3,230	48.4%	40.5	22.1	30	3,200	18.5	524.2	3.0	85.0	9,869	0.5	155.4	155.4	
8/27/12 9:30	44.58	1,525.8	65.4	1,568.7	44.6	3	8.25	44.25	4.19	7.93	0.15	3.74	3,386	50.8%	39.0	21.4	30	3,356	0.0	156.2	0.0	84.1	10,025	0.5	153.4	153.4	
8/28/12 9:15	23.75	1,549.6	66.4	1,592.5	23.8	3	9.00	45	4.12	7.92	0.16	3.80	3,465	52.0%	42.3	21.0	33	3,431	3.1	75.1	3.1	75.7	10,100	0.5	152.2	152.2	
8/29/12 15:20	30.08	1,579.7	67.6	1,622.6	30.1	3	10.00	46	4.04	7.91	0.17	3.87	3,554	53.3%	45.3	20.7	37	3,517	3.2	86.2	2.5	68.7	10,186	0.5	150.7	150.7	
8/30/12 10:05	18.75	1,598.4	68.4	1,641.3	18.7	4	10.75	58.75	3.98	7.91	0.17	3.93	3,621	54.3%	35.4	20.3	37	3,584	0.0	67.0	0.0	86.0	10,253	0.5	149.9	149.9	
8/31/12 11:29	25.40	1,623.8	69.4	1,666.7	25.4	4	11.00	59	3.90	7.90	0.18	4.00	3,710	55.6%	36.4	19.9	40	3,670	3.3	86.0	3.1	81.3	10,339	0.6	148.9	148.9	
9/3/12 11:25	71.93	1,695.8	72.4	1,738.7	72.0	4	2.00	50	3.70	7.90	0.18	4.20	3,933	59.0%	36.8	18.8	40	3,893	0.0	222.8	0.0	74.3	10,562	0.6	145.8	145.8	
9/8/12 15:55	124.50	1,820.2	77.6	1,863.1	124.4	4	6.00	54	3.40	7.87	0.21	4.47	4,265	64.0%	38.7	17.1	50	4,215	10.3	321.7	2.0	62.1	10,884	0.6	140.2	140.2	
9/10/12 10:15	42.33	1,862.7	79.4	1,905.6	42.5	4	6.75	54.75	3.30	7.87	0.21	4.57	4,375	65.6%	37.0	16.6	50	4,325	0.0	109.8	0.0	62.0	10,994	0.6	138.5	138.5	
9/11/12 9:25	23.17	1,885.7	80.4	1,928.6	23.0	4	8.00	56	3.22	7.85	0.23	4.63	4,462	66.9%	26.4	16.0	58	4,405	7.3	80.2	7.6	83.6	11,074	0.7	137.8	137.8	
9/12/12 9:46	24.35	1,910.1	81.4	1,953.0	24.4	4	9.00	57	3.15	7.85	0.23	4.70	4,539	68.1%	28.4	15.5	58	4,481	0.0	76.2	0.0	75.0	11,150	0.7	137.0	137.0	
9/13/12 14:40	28.90	1,939.6	82.6	1,982.5	29.5	4	9.50	57.5	3.07	7.85	0.23	4.78	4,625	69.4%	29.0	15.0	58	4,568	0.0	86.7	0.0	70.5	11,237	0.7	136.0	136.0	
9/14/12 15:05	24.42	1,963.4	83.6	2,006.3	23.8	4	10.50	58.5	3.00	7.82	0.26	4.82	4,701	70.5%	30.5	14.6	69	4,632	11.5	63.9	11.6	64.5	11,300	0.8	135.2	135.2	
9/17/12 12:30	69.42	2,033.0	86.5	2,075.9	69.6	5	0.50	60.5	2.85	7.82	0.26	4.97	4,861	72.9%	32.7	13.6	69	4,792	0.0	160.4	0.0	55.3	11,461	0.8	132.5	132.5	
9/18/12 8:25	19.92	2,052.7	87.3	2,095.6	19.7	5	1.00	61	2.82	7.82	0.26	5.00	4,893	73.4%	45.8	13.5	69	4,824	0.0	31.8	0.0	38.8	11,493	0.8	131.6	131.6	System shut down for recharge testing from 8:25am on 9-18-12 to 9:55 on 9-19-12
9/20/12 8:10	47.75	2,100.5	89.3	2,143.4	47.8	5	2.50	62.5	2.66	7.75	0.33	5.09	5,061	75.9%	23.0	12.3	99	4,963	29.5	138.9	14.8	69.8	11,632	1.1	130.2	130.2	
9/21/12 12:05	27.92	2,128.4	90.5	2,171.3	27.9	5	3.50	63.5	2.60	7.74	0.34	5.14	5,124	76.8%	31.0	12.0	103	5,021	4.5	58.0	3.8	49.9	11,690	1.1	129.2	129.2	
9/25/12 15:45	99.67	2,228.0	94.6	2,270.9	99.6	5	6.00	66	2.38	7.74	0.34	5.36	5,349	80.2%	24.3	10.5	103	5,246	0.0	225.5	0.0	54.3	11,915	1.0891	125.9	125.9	
9/26/12 12:45	21.00	2,249.2	95.5	2,292.1	21.2	5	6.5	66.5	2.33	7.74	0.34	5.41	5,400	81.0%	22.2	10.1	103	5,297	0.0	50.4	0.0	57.0	11,966	1.079026	125.3	125.3	
9/27/12 10:55	22.17	2,271.3	96.4	2,314.2	22.1	5	7	67	2.29	7.74	0.34	5.45	5,440	81.6%	28.2	9.9	103	5,337	0.0	40.1	0.0	43.5	12,006	1.068722	124.5	124.5	
9/28/12 13:10	26.25	2,297.4	97.5	2,340.3	26.1	5	7.75	67.75	2.22	7.73	0.35	5.51	5,509	82.6%	19.4	9.4	108	5,402	4.5	65.0	4.2	59.8	12,071	1.103342	123.8	123.8	
10/2/12 9:30	92.33	2,389.8	101.4	2,432.7	92.4	5	10.5	70.5	1.99	7.70	0.38	5.71	5,733	86.0%	17.2	7.7	122	5,611	14.0	209.4	3.6	54.4	12,280	1.199396	121.1	121.1	
10/3/12 15:30	30.00	2,419.8	102.6	2,462.7	30.0	5	11.25	71.25	1.92	7.70	0.38	5.78	5,799	87.0%	16.4	7.2	122	5,677	0.0	66.2	0.0	53.0	12,346	1.184786	120.3	120.3	
10/4/12 15:18	23.80	2,443.6	103.6	2,486.5	23.8	6	0	6	1.87	7.70	0.38	5.83	5,846	87.7%	17.4	6.9	122	5,724	0.0	46.8	0.0	47.2	12,393	1.173445	119.6	119.6	
10/5/12 11:30	20.20	2,463.9	104.5	2,506.8	20.3	6	0.5	72.5	1.83	7.70	0.38	5.87	5,883	88.2%	17.9	6.6	122	5,761	0.0	37.1	0.0	43.9	12,430	1.163943	119.0	119.0	
10/8/12 9:40	70.17	2,534.0	107.4	2,576.9	70.1	6	2	74	1.69	7.70	0.38	6.01	6,010	90.1%	15.1	5.6	122	5,889	0.0	127.4	0.0	43.6	12,557	1.13228	117.0	117.0	
10/9/12 10:00	24.33	2,558.3	108.4	2,601.2	24.3	6	3	75	1.63	7.70	0.38	6.07	6,064	90.9%	11.5	5.2	122	5,942	0.0	53.4	0.0	52.7	12,611	1.121702	116.4	116.4	
10/10/12 15:15	29.25	2,587.6	109.6	2,630.5	29.3	6	3.75	75.75	1.56	7.69	0.39	6.13	6,125	91.8%	11.7	4.7	126	5,998	4.8	56.5	3.9	46.3	12,667	1.152833	115.6	115.6	
10/11/12 15:00	23.75	2,611.6	110.6	2,654.5	24.0	6	4.5	76.5	1.5	7.69	0.39	6.19	6,176	92.6%	9.5	4.3	126	6,050	0.0	51.6	0.0	51.6	12,719	1.14241	115.0	115.0	
10/12/12 11:25	20.42	2,632.1	111.5	2,675.0	20.5	6	5	77	1.45	7.69	0.39	6.24	6,219	93.3%	9.1	3.9	126	6,092	0.0	42.4	0.0	49.6	12,761	1.133655	114.5	114.5	
10/15/12 11:45	72.33	2,704.6	114.5	2,747.5	72.5	6	7.5	79.5	1.25	7.69	0.39	6.44	6,382	95.7%	5.3	2.5	126	6,256	0.0	163.2	0.0	54.0	12,925	1.10374	112.9	112.9	
NA	NA	NA	NA	NA	NA	NA	NA	NA	1.45	8.04	0.04	6.59	6,219	93.3%	NA	NA	4	6,215	NA	NA	NA	NA	12,883	NA	NA	NA	Water pumped out of tank w/ pneumatic pump
10/16/12 13:30	25.75	2,729.7	115.5	2,772.6	25.1	6	6.25	78.25	1.38	8.04	0.04	6.66	6,277	94.1%	7.0	3.5	4	6,273	0.0	58.3	0.0	55.8	12,942	0.036409	112.0	112.0	
10/17/12 9:30	20.00	2,749.9	116.4	2,792.8	20.2	6	6.75	78.75	1.32	8.04	0.04	6.72	6,32														

Table 6
Phase II System LNAPL Recovery Summary
Former Amoco Terminal
Superior, WI

Superior Barge Dock Product Skimming System - Phase II				Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																						
6 LNAPL Skimming Wells on C. Reiss property Product Recovery Table				Diameter of tank = 8.00 feet Depth of tank from top of bung = 8.08 feet																						
				Length of tank = 18.67 feet Depth of bung = 0.08 feet																						
				Full Volume of tank = 7,019 gallons 95% full volume of tank = 6,668 gallons																						
Date/Time	Operational Time			Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimate d # of days until	Cumulative Estimate d # of days until	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons /)	Period Product recovery rate (gallons /)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons /)	Cumulative Product recovery rate (gallons /)	Notes
	Calendar Period hours	Total hours	Total days																							
11/23/12 9:58	21.57	3,511.7	148.1	3554.6	21.5	1	8.25	20.25	6.23	7.94	0.14	1.71	1,229	18%	127.9	55.6	27.4	1,201	-19.3	38.1	-21.5	42.5	14,478		97.8	Ice partially melted; WL @ top of melt
11/24/12 12:50	26.87	3,538.7	149.2	3581.6	27.0	1	8.5	20.5	6.22	7.89	0.19	1.67	1,238	19%	NA	56.0	43.3	1,195	15.9	-6.4	14.1	0.0	14,472		97.0	Product line blocked by ice/slush; system turned off
5/9/2013 11:00	3,982.17	3,542.9	149.4	3585.8	4.2	1	9.5	21.5	6.14	7.90	0.18	1.76	1,314	20%	11.8	55.0	39.9	1,274	-3.4	79.4	-19.2	453.8	14,551		97.4	Spring 2013 system startup May 9
5/9/2013 15:30	4.50	3,546.7	149.6	3589.6	3.8	1	11	23	5.98	7.90	0.18	1.92	1,470	22%	5.3	52.9	39.9	1,430	0.0	155.3	0.0	980.7	14,707		98.3	
5/10/2013 9:30	18.00	3,564.8	150.3	3607.7	18.1	2	0.75	24.75	5.85	7.90	0.18	2.05	1,599	24%	29.6	51.4	39.9	1,559	0.0	129.0	0.0	171.1	14,836		98.7	
5/13/2013 10:30	73.00	3,638.7	153.4	3681.6	73.9	2	5	29	5.5	7.90	0.18	2.4	1,957	29%	40.5	47.6	39.9	1,917	0.0	358.4	0.0	116.4	15,194		99.0	
5/15/2013 11:30	49.00	3,687.1	155.4	3730.0	48.4	2	6.65	30.65	5.32	7.90	0.18	2.58	2,147	32%	48.1	45.7	39.9	2,107	0.0	189.6	0.0	94.0	15,384		99.0	
5/17/2013 10:10	46.67	3,733.7	157.4	3776.6	46.6	2	8.5	32.5	5.17	7.90	0.18	2.73	2,307	35%	52.8	44.2	39.9	2,267	0.0	160.3	0.0	82.5	15,544		98.8	
5/20/2013 10:20	72.17	3,806.6	160.4	3849.5	72.9	2	11	35	4.98	7.90	0.18	2.92	2,512	38%	61.4	42.3	39.9	2,472	0.0	205.5	0.0	67.7	15,749		98.2	
5/21/2013 13:00	26.67	3,831.4	161.4	3874.3	24.8	3	0	3	4.91	7.90	0.18	2.99	2,589	39%	55.2	41.6	39.9	2,549	0.0	76.3	0.0	73.9	15,826		98.0	System alarm at 12:05; re-started 13:00
5/23/2013 9:10	44.17	3,875.4	163.3	3918.3	44.0	3	1.5	37.5	4.78	7.90	0.18	3.12	2,731	41%	50.6	40.3	39.9	2,691	0.0	142.5	0.0	77.7	15,968		97.8	
5/28/2013 7:39	118.48	3,994.0	168.2	4036.9	118.6	3	5.5	41.5	4.43	7.90	0.18	3.47	3,119	47%	45.3	36.5	39.9	3,079	0.0	387.4	0.0	78.4	16,356		97.2	
5/31/2013 8:50	73.18	4,067.2	171.3	4110.1	73.2	3	7.75	43.75	4.24	7.90	0.18	3.66	3,331	50%	48.1	34.5	39.9	3,291	0.0	211.8	0.0	69.4	16,568		96.7	
6/7/2013 8:25	167.58	4,234.8	178.2	4277.7	167.6	4	0.5	48.5	3.84	7.90	0.18	4.06	3,777	57%	45.2	30.3	39.9	3,737	0.0	446.6	0.0	64.0	17,014		95.5	
6/13/2013 13:30	149.08	4,383.9	184.5	4426.8	149.1	4	5	53	3.47	7.90	0.18	4.43	4,188	63%	37.5	26.3	39.9	4,148	0.0	410.8	0.0	66.1	17,425		94.5	
6/17/2013 12:40	95.17	4,479.0	188.4	4521.9	95.1	4	7	55	3.29	7.90	0.18	4.61	4,386	66%	45.7	24.4	39.9	4,346	0.0	197.9	0.0	50.0	17,623		93.5	
6/20/2013 8:40	68.00	4,547.3	191.3	4590.2	68.3	4	8.5	56.5	3.16	7.90	0.18	4.74	4,528	68%	42.9	23.0	39.9	4,488	0.0	141.8	0.0	49.8	17,765		92.9	
6/27/2013 15:01	174.35	4,721.3	198.5	4764.2	174.0	5	9.5	69.5	2.07	6.84	1.24	4.77	5,656	85%	15.4	11.0	692.3	4,964	652.3	475.9	90.0	65.6	18,241		91.9	Significant rainfall, adjusted pumps
6/28/2013 7:30	16.48	4,737.9	199.2	4780.8	16.6	5	10	70	2.03	6.84	1.24	4.81	5,694	85%	17.5	10.6	692.3	5,002	0.0	38.5	0.0	55.7	18,279		91.8	
7/2/2013 12:43	101.22	4,840.3	203.5	4883.2	102.4	6	0.5	72.5	1.83	6.84	1.24	5.01	5,883	88%	17.8	8.7	692.3	5,191	0.0	188.3	0.0	44.1	18,467		90.8	
7/3/2013 14:05	25.37	4,864.5	204.5	4907.4	24.2	6	1	73	1.78	6.84	1.24	5.06	5,929	89%	16.2	8.2	692.3	5,236	0.0	45.9	0.0	45.6	18,513		90.5	
7/9/2013 11:28	141.38	5,005.8	210.4	5048.7	141.3	6	4	76	1.52	6.84	1.24	5.32	6,159	92%	13.0	5.7	692.3	5,467	0.0	230.6	0.0	39.2	18,744		89.1	Pumped 700 gallons of water out of tank
7/11/2013 13:20	49.87	5,055.7	212.4	5098.6	49.9	5	8.5	68.5	2.15	7.88	0.2	5.73	5,578	84%	35.2	12.3	46.7	5,531	-645.5	64.4	-310.5	31.0	18,808		88.5	
7/18/2013 12:42	167.37	5,223.1	219.4	5266.0	167.4	6	0.1	72.1	1.85	7.88	0.2	6.03	5,864	88%	19.6	9.2	46.7	5,818	0.0	286.1	0.0	41.0	19,094		87.0	
7/19/2013 13:20	24.63	5,247.7	220.4	5290.6	24.6	6	0.5	72.5	1.8	7.88	0.2	6.08	5,910	89%	16.8	8.7	46.7	5,864	0.0	46.1	0.0	45.0	19,141		86.8	
7/25/2013 11:02	141.70	5,389.4	226.3	5432.3	141.7	6	2.75	74.75	1.62	7.88	0.2	6.26	6,072	91%	21.7	7.0	46.7	6,026	0.0	161.9	0.0	27.4	19,303		85.3	
7/29/2013 11:58	96.93	5,486.1	230.4	5529.0	96.7	6	4	76	1.5	7.88	0.2	6.38	6,176	93%	19.0	5.8	46.7	6,130	0.0	104.1	0.0	25.8	19,407		84.2	
8/1/2013 11:00	71.03	5,557.4	233.3	5600.3	71.3	6	6	78	1.36	7.88	0.2	6.52	6,294	94%	9.5	4.5	46.7	6,247	0.0	117.1	0.0	39.4	19,524		83.7	
8/2/2013 11:33	24.55	5,582.0	234.4	5624.9	24.6	6	6.5	78.5	1.3	7.88	0.2	6.58	6,342	95%	6.9	3.9	46.7	6,295	0.0	48.7	0.0	47.5	19,572		83.5	
8/2/2013 13:02	1.48	5,583.4	234.4	5626.3	1.4	0	2.5	2.5	7.8	8.02	0.06	0.22	77	1%	NA	78.7	7.7	69	0.0	0.0	0.0	0.0	19,642		83.8	Tank pumped out, system re-started
8/4/2013 8:05	43.05	5,626.5	236.2	5669.4	43.1	0	2.75	2.75	7.68	8.02	0.06	0.34	131	2%	217.4	78.4	7.7	123	0.0	54.0	0.0	30.1	19,696		83.4	
8/13/2013 15:13	223.13	5,700.7	239.3	5743.6	74.2	0	5	5	7.51	8.02	0.06	0.51	222	3%	220.2	78.0	7.7	214	0.0	90.5	0.0	29.3	19,786		82.7	
8/15/2013 11:28	44.25	5,723.8	240.3	5766.7	23.1	0	6.5	6.5	7.33	8.00	0.08	0.67	332	5%	57.3	76.5	11.9	320	4.2	106.4	4.3	110.5	19,893		82.8	System re-started after power outage
8/16/2013 8:25	20.95	5,744.8	241.2	5787.7	21.0	0	7.25	7.25	7.29	8.00	0.08	0.71	359	5%	209.5	76.4	11.9	347	0.0	26.4	0.0	30.1	19,919		82.6	
8/22/2013 13:10	148.75	5,893.8	247.4	5936.7	149.0	0	10.25	10.25	7.04	8.00	0.08	0.96	536	8%	214.4	75.5	11.9	524	0.0	177.6	0.0	28.6	20,097		81.2	
8/27/2013 9:30	116.33	6,009.8	252.2	6052.7	116.0	1	0.25	12.25	6.87	8.00	0.08	1.13	668	10%	219.7	74.8	11.9	656	0.0	132.0	0.0	27.3	20,229		80.2	
8/29/2013 10:33	49.05	6,058.9	254.2	6101.8	49.1	1	1	13	6.8	8.00	0.08	1.2	725	11%	214.5	74.5	11.9	713	0.0	56.7	0.0	27.7	20,285		79.8	
9/6/2013 11:50	193.28	6,252.1	262.3	6295.0	193.2	1	4	16	6.55	8.00	0.08	1.45	937	14%	217.2	73.3	11.9	925	0.0	212.4	0.0	26.4	20,498		78.1	
9/12/2013 16:00	148.17	6,400.8	268.5	6443.7	148.7	1	6	18	6.38	8.00	0.08	1.62	1,090	16%	226.8	72.5	11.9	1,078	0.0	152.4	0.0	24.6	20,650		76.9	
9/19/2013 16:05	168.08	6,568.3	275.5	6611.2	167.5	1	8.25	20.25	6.2	8.00	0.08	1.8	1,257	19%	225.4	71.6	11.9	1,245	0.0	167.6	0.0	24.0	20,818		75.6	
9/27/2013 10:30	186.42	6,755.1	283.3	6798.0	186.8	1	10.5	22.5	6.01	8.00	0.08	1.99	1,440	22%	222.4	70.5	11.9	1,428	0.0	183.0	0.0	23.5	21,001		74.1	
10/3/2013 15:45	149.25	6,904.1	289.5	6947.0	149.0	2	0.5	24.5	5.87	8.00	0.08	2.13	1,579	24%	228.3	69.7	11.9	1,567	0.0	138.4	0.0	22.3	21,139		73.0	
10/10/2013 16:30	168.75	7,073.3	296.5	7116.2	169.2	2	2	26	5.73	8.00	0.08	2.27	1,720	26%	247.1	69.0	11.9	1,708	0.0	141.2	0.0	20.0	21,280		71.8	1 pump offline
10/18/2013 11:24	186.90	7,259.7	304.3	7302.6	186.4	2	3.75	27.75	5.59	8.00	0.08	2.41	1,863	28%	259.8	68.2	11.9	1,852	0.0	143.7	0.0	18.5	21,424		70.4	All pumps online
10/21/2013 17:15	77.85	7,337.2	307.5	7380.1	77.5	2	4.5	28.5	5.51	8.00	0.08	2.49	1,947	29%	183.5	67.5	11.9	1,935	0.0	83.1	0.0	25.7	21,507		69.9	
10/25/2013 15:35	94.33	7,432.2	311.5	7475.1	95.0	2	5.75	29.75	5.42	8.00	0.08	2.58	2,041	31%	194.2	66.7	11.9	2,029	0.0	94.3	0.0	23.8	21,601		69.4	

Table 6
Phase II System LNAPL Recovery Summary
Former Amoco Terminal
Superior, WI

Superior Barge Dock Product Skimming System - Phase II 6 LNAPL Skimming Wells on C. Reiss property Product Recovery Table					Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																				Notes	
					Operational Time																					
Date/Time	Calendar Period	Total hours	Total days	Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimate d # of days until	Cumulative Estimate d # of days until	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons /)	Period Product recovery rate (gallons /)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons /)	Cumulative Product recovery rate (gallons /)	
5/6/2014 15:30	21.83	8,227.2	344.5875	8270.1	22.2	1	0.5	12.5	6.87	7.75	0.33	0.88	668	10%	139.9	90.9	98.6	570	0.0	39.7	0.0	42.9	22,738		66.0	
5/8/2014 16:20	48.83	8,275.6	346.6042	8318.5	48.4	1	1.5	13.5	6.77	7.75	0.33	0.98	750	11%	146.7	89.9	98.6	651	0.0	81.4	0.0	40.3	22,819		65.8	
5/13/2014 7:50	111.50	8,387.1	351.25	8430	111.5	1	4	16	6.56	7.75	0.33	1.19	928	14%	149.0	87.7	98.6	830	0.0	178.9	0.0	38.5	22,998		65.5	~100 gal water removed
5/15/2014 17:17	57.45	8,444.8	353.6542	8487.7	57.7	1	3.75	15.75	6.59	8.03	0.05	1.44	902	14%	208.4	88.4	5.9	896	-92.7	66.5	-38.6	27.7	23,064		65.2	
5/20/2014 8:25	111.13	8,555.7	358.275	8598.6	110.9	1	5.75	17.75	6.41	8.05	0.03	1.64	1062	16%	158.7	86.5	2.7	1,060	-3.1	163.2	-0.7	35.3	23,228		64.8	
5/22/2014 11:38	51.22	8,607.0	360.4125	8649.9	51.3	1	6.75	18.75	6.32	8.05	0.03	1.73	1145	17%	143.1	85.4	2.7	1,142	0.0	82.5	0.0	38.6	23,310		64.7	Field notes read 8.10 DTW but tank depth is 8.08; used 8.05 DTW
5/30/2014 12:42	193.07	8,800.1	368.4583	8843	193.1	1	10	22	6.04	8.03	0.05	1.99	1411	21%	160.9	82.2	5.9	1,405	3.1	262.9	0.4	32.7	23,573		64.0	
6/3/2014 17:30	100.80	8,819.2	369.2542	8862.1	19.1	1	10.5	22.5	6	8.02	0.06	2.02	1450	22%	111.6	81.6	7.7	1,442	1.8	37.2	2.3	46.8	23,610		63.9	System down for 3.5 days-power out
6/5/2014 9:18	39.80	8,858.9	370.9083	8901.8	39.7	2	0.1	24.1	5.89	8.00	0.08	2.11	1559	23%	80.9	79.9	11.9	1,547	4.2	104.5	2.5	63.2	23,715		63.9	Bump in recovery following restart, Dial minute hand cannot be 0, had to enter 0.1 to get it to formulate correctly.
6/9/2014 17:05	103.78	8,962.8	375.2375	9005.7	103.9	2	1.5	25.5	5.78	8.00	0.08	2.22	1669	25%	196.0	78.7	11.9	1,657	0.0	110.4	0.0	25.5	23,825		63.5	
6/12/2014 16:15	71.17	9,034.0	378.2042	9076.9	71.2	2	2.25	26.25	5.7	8.00	0.08	2.3	1750	26%	179.5	77.8	11.9	1,739	0.0	81.3	0.0	27.4	23,907		63.2	
6/13/2014 13:55	21.67	9,055.7	379.1083	9098.6	21.7	2	2.5	26.5	5.68	8.00	0.08	2.32	1771	27%	216.5	77.6	11.9	1,759	0.0	20.5	0.0	22.6	23,927		63.1	
6/17/2014 13:05	95.17	9,150.8	383.0708	9193.7	95.1	2	3.5	27.5	5.58	8.00	0.08	2.42	1874	28%	184.5	76.4	11.9	1,862	0.0	103.0	0.0	26.0	24,030		62.7	
6/19/2014 8:32	43.45	9,192.3	384.8	9235.2	41.5	2	4	28	5.55	8.00	0.08	2.45	1905	29%	264.7	76.2	11.9	1,893	0.0	31.1	0.0	18.0	24,061		62.5	
6/24/2014 16:40	128.13	9,320.4	390.1375	9363.3	128.1	2	5.5	29.5	5.43	8.00	0.08	2.57	2030	30%	197.4	74.8	11.9	2,018	0.0	125.4	0.0	23.5	24,186		62.0	
6/26/2014 16:25	47.75	9,368.0	392.1208	9410.9	47.6	2	6	30	5.39	8.00	0.08	2.61	2073	31%	216.3	74.4	11.9	2,061	0.0	42.1	0.0	21.2	24,229		61.8	
6/30/2014 17:33	97.13	9,465.2	396.1708	9508.1	97.2	2	7	31	5.28	8.00	0.08	2.72	2189	33%	155.5	72.9	11.9	2,177	0.0	116.7	0.0	28.8	24,345		61.5	
7/4/2014 9:50	88.28	9,553.6	399.8542	9596.5	88.4	2	8	32	5.22	8.00	0.08	2.78	2253	34%	253.7	72.3	11.9	2,241	0.0	64.1	0.0	17.4	24,409		61.0	
7/8/2014 16:00	102.17	9,655.5	404.1	9698.4	101.9	2	9	33	5.13	8.00	0.08	2.87	2350	35%	189.6	71.2	11.9	2,338	0.0	96.7	0.0	22.8	24,506		60.6	
7/12/2014 10:00	90.00	9,745.7	407.8583	9788.6	90.2	2	9.75	33.75	5.07	8.00	0.08	2.93	2415	36%	246.7	70.6	11.9	2,403	0.0	64.8	0.0	17.2	24,571		60.2	
7/14/2014 11:45	49.75	9,796.0	409.9542	9838.9	50.3	2	10	34	5.03	8.00	0.08	2.97	2458	37%	203.6	70.1	11.9	2,446	0.0	43.3	0.0	20.7	24,614		60.0	
7/18/2014 12:20	96.58	9,892.0	413.9542	9934.9	96.0	2	11	35	4.95	8.00	0.08	3.05	2545	38%	189.5	69.1	11.9	2,533	0.0	87.0	0.0	21.8	24,701		59.7	
7/23/2014 16:20	124.00	10,016.0	419.1208	10058.9	124.0	3	0.25	36.25	4.85	8.00	0.08	3.15	2654	40%	189.7	67.8	11.9	2,643	0.0	109.3	0.0	21.2	24,811		59.2	
7/30/2014 8:30	160.17	10,175.9	425.7833	10218.8	159.9	3	1.5	37.5	4.76	8.00	0.08	3.24	2753	41%	263.8	66.9	11.9	2,741	0.0	98.9	0.0	14.8	24,909		58.5	
8/2/2014 11:20	74.83	10,251.0	428.9125	10293.9	75.1	3	2	38	4.7	8.00	0.08	3.3	2819	42%	182.1	66.1	11.9	2,808	0.0	66.1	0.0	21.1	24,976		58.2	
8/7/2014 6:40	115.33	10,366.5	433.725	10409.4	115.5	3	3	39	4.63	8.00	0.08	3.37	2897	43%	234.7	65.3	11.9	2,885	0.0	77.3	0.0	16.1	25,053		57.8	
8/14/2014 6:30	167.83	10,534.3	440.7167	10577.2	167.8	3	4.5	40.5	4.52	8.00	0.08	3.48	3019	45%	209.3	63.9	11.9	3,007	0.0	121.9	0.0	17.4	25,175		57.1	
8/19/2014 16:25	129.92	10,664.0	446.1208	10706.9	129.7	3	5.5	41.5	4.4	7.91	0.17	3.51	3152	47%	174.9	62.0	36.7	3,115	24.8	108.6	4.6	20.1	25,283		56.7	
8/21/2014 9:50	41.42	10,729.7	448.8583	10772.6	65.7	3	6	42	4.36	7.88	0.2	3.52	3197	48%	275.6	61.5	46.7	3,150	10.1	34.5	3.7	12.6	25,318		56.4	
8/27/2014 17:45	151.92	10,857.2	454.1708	10900.1	127.5	3	8	44	4.22	7.74	0.34	3.52	3353	50%	176.4	59.2	103.1	3,250	56.3	99.8	10.6	18.8	25,418		56.0	
9/1/2014 15:20	117.58	10,975.0	459.0792	11017.9	117.8	3	9	45	4.13	7.71	0.37	3.58	3453	52%	182.0	57.9	116.9	3,336	13.8	86.7	2.8	17.7	25,504		55.6	
9/4/2014 10:15	66.92	11,041.9	461.8667	11084.8	66.9	3	9.5	45.5	4.09	7.71	0.37	3.62	3498	52%	197.8	57.3	116.9	3,381	0.0	44.7	0.0	16.0	25,549		55.3	
9/11/2014 7:05	164.83	11,206.9	468.7417	11249.8	165.0	4	10.5	58.5	4	7.71	0.37	3.71	3599	54%	209.9	56.1	116.9	3,482	0.0	100.5	0.0	14.6	25,650		54.7	
9/18/2014 6:55	167.83	11,374.7	475.7333	11417.6	167.8	3	11.75	47.75	3.9	7.71	0.37	3.81	3710	56%	185.3	54.6	116.9	3,593	0.0	111.6	0.0	16.0	25,761		54.2	
9/25/2014 7:30	168.58	11,543.3	482.7583	11586.2	168.6	4	1	49	3.79	7.71	0.37	3.92	3833	57%	162.4	52.9	116.9	3,716	0.0	122.7	0.0	17.5	25,884		53.6	
10/2/2014 8:25	168.92	11,712.1	489.7917	11755	168.8	4	2	50	3.7	7.71	0.37	4.01	3933.03	59%	192.0	51.6	116.9	3816	0.0	100.2	0.0	14.2	25,984		53.1	
10/9/2014 7:38	167.22	11,879.4	496.7625	11922.3	167.3	4	3	51	3.63	7.71	0.37	4.08	4010.79	60%	238.2	50.7	116.9	3894	0.0	77.8	0.0	11.2	26,062		52.5	
10/16/2014 16:20	176.70	12,056.1	504.125	12099	176.7	4	4.5	52.5	3.51	7.71	0.37	4.2	4143.74	62%	139.8	48.6	116.9	4027	0.0	132.9	0.0	18.1	26,195		52.0	
10/23/2014 16:10	167.83	12,224.0	511.1208	12266.9	167.9	4	5.5	53.5	3.41	7.71	0.37	4.3	4254.09	64%	153.1	46.9	116.9	4137	0.0	110.3	0.0	15.8	26,305		51.5	
10/31/2014 8:07	183.95	12,408.7	518.8167	12451.6	184.7	4	6.5	54.5	3.35	7.71	0.37	4.36	4320.07	65%	273.9	46.2	116.9	4203	0.0	66.0	0.0	8.6	26,371		50.8	Approximately 110 gallons water removed
11/6/2014 7:20	143.22	12,552.1	524.7917	12595	143.4	4	6	54	3.38	8.02	0.06	4.64	4287.1	64%	186.8	47.3	7.7	4279	-109.1	76.2	-18.3	12.7	26,447		50.4	
11/13/2014 14:45	175.42	12,727.5	532.1	12770.4	175.4	4	6.5	54.5	3.35	8.00	0.08	4.65	4320.07	65%	595.6	47.2	11.9	4308	4.2	28.8	0.6	3.9	26,476		49.8	End of Operating Season - System Frozen - Holding tanks pumped out [ref date and total volume] Approximately 4,320 gallons of product removed from 1,000 and 7,000 gallon tanks
3/17/2015 10:30	2,971.75	13,493.7	564.025	13536.6	766.2	0	1.5	1.5	7.84	7.95	0.13	0.11	61.3509	1%	NA	140.8	24.6	36.8	12.7	0.0	0.4	0.0	26,476.0		46.9	Depth to water is actually depth to ice
3/20/2015 14:25	75.92	13,499.3	564.2583	13542.2	5.6	0	2	2	7.73	7.95	0.13	0.22	107.59	2%	33.1	139.6	24.6	83	0.0	46.2	0.0	198.2	26,522.2		47.0	Depth to water is actually depth to ice
3/20/2015 16:55	2.50	13,506.8	564.5708	13549.7	7.5	0	3.5	3.5	7.6	8.02	0.06	0.42	171.925	3%	25.0	137.9	7.7	164	-16.8	81.2	-53.9	259.8	26,603.4		47.1	
3/21/2015 11:10	18.25	13,525.3	565.3417	13568.2	18.5	0	6.5	6.5	7.34	7.68	0.4	0.34	325.736	5%	161.2	134.6	131.2	195	123.5	30.3	160.2	39.4	26,633.7		47.1	
3/23/2015 15:20	52.17	13,577.4	567.5125	13620.3	52.1	0																				

Table 6
Phase II System LNAPL Recovery Summary
Former Amoco Terminal
Superior, WI

Superior Barge Dock Product Skimming System - Phase II 6 LNAPL Skimming Wells on C. Reiss property Product Recovery Table						Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																					
						Diameter of tank = 8.00 feet				Depth of tank from top of bung = 8.08 feet																	
						Length of tank = 18.67 feet				Depth of bung = 0.08 feet																	
						Full Volume of tank = 7,019 gallons				95% full volume of tank = 6,668 gallons																	
Date/Time	Operational Time				Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimate d # of days until	Cumulative Estimate d # of days until	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons /)	Period Product recovery rate (gallons /)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons /)	Cumulative Product recovery rate (gallons /)	Notes
	Calendar Period hours	Total hours	Total days	Panel Hour Meter total hours																							
4/17/2015 11:05	91.87	13,987.5	584.6	14030.4	92.0	1	6	18	6.37	7.24	0.84	0.87	1098.8	16%	1709.1	119.945	392.368636	706.4354	60.1	12.5	15.7	3.3	27,146		46.4		
4/20/2015 14:45	75.67	14,063.0	587.7458	14105.9	75.5	1	7	19	6.33	7.24	0.84	0.91	1135.59	17%	473.1	119.631	392.368636	743.2238	0.0	36.8	0.0	11.7	27,182		46.2		
4/24/2015 8:20	89.58	14,152.8	591.4875	14195.7	89.8	1	8	20	6.25	7.24	0.84	0.99	1210.07	18%	274.2	118.448	392.368636	817.7049	0.0	74.5	0.0	19.9	27,257		46.1	MRW5 pumped while collecting readings yet the counter didn't	
4/28/2015 15:12	102.87	14,255.7	595.775	14298.6	102.9	1	8.5	20.5	6.15	7.23	0.85	1.08	1304.79	20%	261.8	116.859	399.235062	905.5561	6.9	87.9	1.6	20.5	27,345		45.9		
5/5/2015 14:35	167.38	14,422.9	602.7417	14465.8	167.2	1	10.25	22.25	6.02	7.23	0.85	1.21	1430.43	21%	290.4	114.928	399.235062	1031.198	0.0	125.6	0.0	18.0	27,470		45.6	Removed approx 4.25" of water after reading	
5/9/2015 9:40	91.08	14,514.1	606.5417	14557	91.2	1	6	18	6.4	8.02	0.06	1.62	1071.42	16%	654.5	123.434	7.72145948	1063.696	-391.5	32.5	-103.0	8.6	27,503		45.3		
5/15/2015 13:30	147.83	14,662.1	612.7083	14705	148.0	1	9.5	21.5	6.09	7.64	0.44	1.55	1362.44	20%	221.6	117.574	151.123617	1211.316	143.4	147.6	23.3	23.9	27,651		45.1		
5/18/2015 13:30	72.00	14,733.9	615.7	14776.8	71.8	1	10	22	6.04	7.62	0.46	1.58	1410.93	21%	411.8	116.907	161.417946	1249.51	10.3	38.2	3.4	12.8	27,689		45.0		
5/22/2015 11:55	94.42	14,828.3	619.6333	14871.2	94.4	1	11	23	5.97	7.62	0.46	1.65	1479.47	22%	297.8	115.833	161.417946	1318.049	0.0	68.5	0.0	17.4	27,757		44.8		
5/28/2015 6:55	139.00	14,967.4	625.4292	15010.3	139.1	2	0.25	24.25	5.87	7.62	0.46	1.75	1578.64	24%	297.4	114.274	161.417946	1417.227	0.0	99.2	0.0	17.1	27,856		44.5		
5/30/2015 11:40	52.75	15,020.2	627.6292	15063.1	52.8	2	0.5	24.5	5.84	7.62	0.46	1.78	1608.67	24%	370.7	113.877	161.417946	1447.257	0.0	30.0	0.0	13.7	27,886		44.4	Pump cycled while collecting readings, but counter did not move	
6/5/2015 12:10	144.50	15,164.4	633.6375	15207.3	144.2	2	1.5	25.5	5.75	7.62	0.46	1.87	1699.49	25%	328.7	112.537	161.417946	1538.076	0.0	90.8	0.0	15.1	27,977		44.2		
6/13/2015 8:50	188.67	15,353.3	641.5083	15396.2	188.9	2	3.25	27.25	5.63	7.62	0.46	1.99	1822.19	27%	310.9	110.636	161.417946	1660.774	0.0	122.7	0.0	15.6	28,100		43.8		
6/19/2015 13:40	148.83	15,502.1	647.7083	15545	148.8	2	4	28	5.55	7.62	0.46	2.07	1904.94	29%	356.9	109.475	161.417946	1743.521	0.0	82.7	0.0	13.3	28,183		43.5		
6/25/2015 15:15	145.58	15,645.1	653.6667	15688	143.0	2	5	29	5.49	7.60	0.48	2.11	1967.47	30%	538.4	108.831	171.924627	1795.541	10.5	52.0	1.8	8.7	28,235		43.2		
6/29/2015 16:34	97.32	15,739.8	657.6125	15782.7	94.7	2	5.5	29.5	5.42	7.59	0.49	2.17	2040.89	31%	268.1	107.519	177.255907	1863.635	5.3	68.1	1.4	17.3	28,303		43.0	System down, high alarm condition, power outage, restarted system	
7/2/2015 8:40	64.10	15,803.9	660.2833	15846.8	64.1	2	5.75	29.75	5.4	7.59	0.49	2.19	2061.96	31%	583.9	107.384	177.255907	1884.704	0.0	21.1	0.0	7.9	28,324		42.9		
7/7/2015 12:35	123.92	15,927.9	665.45	15970.8	124.0	2	6.5	30.5	5.35	7.60	0.48	2.25	2114.8	32%	404.4	106.764	171.924627	1942.877	-5.3	58.2	-1.0	11.3	28,382		42.7		
7/10/2015 6:50	66.25	15,994.1	668.2104	16,037.05	66.2	2	8	32	5.25	7.52	0.56	2.27	2221.18	33%	197.0	104.473	215.971816	2005.206	44.0	62.3	16.0	22.6	28,444		42.6		
7/12/2015 10:20	51.50	16,034.1	669.875	16,077.00	40.0	2	7.75	31.75	5.22	7.52	0.56	2.3	2253.26	34%	229.1	103.86	215.971816	2037.289	0.0	32.1	0.0	19.3	28,476		42.5		
7/13/2015 11:00	24.67	16,058.7	670.9	16,101.60	24.6	2	8	32	5.22	7.52	0.56	2.3	2253.26	34%	NA	104.019	215.971816	2037.289	0.0	0.0	0.0	0.0	28,476		42.4	Water and approx 10 gallons product pumped out of tank	
7/14/2015 12:30	25.50	16,084.2	671.9625	16,127.10	25.5	0	0	0	8.08	8.08	0	0	0	0%	NA	157.354	0	0	0.0	0.0	0.0	0.0	28,476		42.4	Removed approx 2,037 gallons of product and 216 gallons of water	
7/21/2015 11:19	166.82	16,251.9	678.95	16,294.80	167.7	0	2.5	2.5	7.69	7.99	0.09	0.3	126.355	2%	407.5	155.366	14.17	112.19	14.2	112.2	2.0	16.1	28,589		42.1		
7/24/2015 7:25	68.10	16,319.1	681.75	16,362.00	67.2	0	3	3	7.64	8.08	0	0.44	151.124	2%	468.7	155.205	0.00	151.12	-14.2	38.9	-5.1	13.9	28,628		42.0		
7/27/2015 7:16	71.85	16,391.1	684.75	16,434.00	72.0	0	4	4	7.58	8.08	0	0.5	182.638	3%	617.4	154.963	0.00	182.64	0.0	31.5	0.0	10.5	28,659		41.9		
7/31/2015 7:25	96.15	16,487.2	688.7542	16,530.10	96.1	0	4.75	4.75	7.5	8.08	0	0.58	227.465	3%	575.3	154.55	0.00	227.47	0.0	44.8	0.0	11.2	28,704		41.7		
8/7/2015 10:00	170.58	16,657.9	695.8667	16,700.80	170.7	0	6	6	7.4	8.00	0.08	0.6	287.62	4%	940.1	154.428	11.88	275.74	11.9	48.3	1.7	6.8	28,752		41.3		
8/14/2015 8:01	166.02	16,823.8	702.7792	16,866.70	165.9	0	7	7	7.29	8.00	0.08	0.71	358.582	5%	614.6	153.848	11.88	346.70	0.0	71.0	0.0	10.3	28,823		41.0		
8/24/2015 11:40	243.65	17,067.4	712.9313	17,110.35	243.7	0	8.75	8.75	7.16	8.01	0.07	0.85	448.283	7%	687.5	153.363	9.73	438.56	-2.2	91.9	-0.2	9.0	28,915		40.6		
8/27/2015 1:22	61.70	17,141.1	716	17,184.00	73.6	0	9.5	9.5	7.1	7.99	0.09	0.89	491.642	7%	487.1	152.744	14.17	477.47	4.4	38.9	1.4	12.7	28,954		40.4		
9/3/2015 9:45	176.38	17,305.4	722.8458	17,348.30	164.3	0	10.5	10.5	7.02	8.02	0.06	1	551.247	8%	634.0	152.369	7.72	543.53	-6.4	66.1	-0.9	9.6	29,020		40.1		
9/10/2015 11:45	170.00	17,475.4	729.9292	17,518.30	170.0	0	11.25	11.25	6.93	8.00	0.08	1.07	620.613	9%	656.9	151.776	11.88	608.73	4.2	65.2	0.6	9.2	29,085		39.8		
9/17/2015 11:25	167.67	17,643.0	736.9125	17,685.90	167.6	1	0.5	12.5	6.83	7.99	0.09	1.16	700.376	11%	538.0	150.805	14.17	686.21	2.3	77.5	0.3	11.1	29,163		39.6		
9/24/2015 13:10	169.75	17,812.9	743.9917	17,855.80	169.9	1	2	14	6.72	7.94	0.14	1.22	791.163	12%	536.7	149.54	27.44	763.73	13.3	77.5	1.9	11.0	29,240		39.3		
10/1/2015 12:15	167.08	17,979.0	750.9125	18,021.90	166.1	1	3	15	6.63	7.96	0.12	1.33	867.663	13%	488.7	148.55	21.79	845.87	-5.6	82.1	-0.8	11.9	29,322		39.0		
10/8/2015 7:55	163.67	18,143.8	757.7792	18,186.70	164.8	1	4	16	6.56	7.92	0.16	1.36	928.463	14%	802.9	148.089	33.50	894.97	11.7	49.1	1.7	7.1	29,371		38.8		
10/14/2015 10:50	146.92	18,290.5	763.8917	18,333.40	146.7	1	4.5	16.5	6.51	7.92	0.16	1.41	972.556	15%	789.6	147.915	33.50	939.06	0.0	44.1	0.0	7.2	29,416		38.5		
10/21/2015 11:02	168.20	18,458.7	770.9	18,501.60	168.2	1	5.5	17.5	6.43	7.95	0.13	1.52	1044.21	16%	489.1	146.991	24.56	1019.65	-8.9	80.6	-1.3	11.5	29,496		38.3		
10/29/2015 10:30	191.47	18,650.1	778.875	18,693.00	191.4	1	7	19	6.33	8.08	0	1.75	1135.59	17%	380.6	145.527	0.00	1135.59	-24.6	115.9	-3.1	14.5	29,612		38.0		
11/3/2015 7:30	117.00	18,768.1	783.7917	18,811.00	118.0	1	7.5	19.5	6.27	8.08	0	1.81	1191.34	18%	483.0	144.697	0.00	1191.34	0.0	55.8	0.0	11.3	29,668		37.9		
11/3/2015 12:13	4.72	18,772.8	783.9883	18,815.72	4.7	1	9	21	7.89	7.98	0.1	0.09	43.2976	1%	NA	175.071	16.59	26.71	0.0	0.0	0.0	0.0	29,668		37.8	End of Operating Season - pumped ~ 1160 gallons from tank	
4/21/2016 9:45	4,077.53	18,776.0	784.1208	18,818.90	3.2	0	1.5	1.5	7.89	7.98	0.1	0.09	43.2976	1%	NA	175.101	16.59	26.71	0.0	0.0	0.0	0.0	29,668		37.8	Start of Season	
4/21/2016 14:02	4.28	18,780.2	784.2993	18,823.18	4.3	0	3	3	7.66	7.97	0.11	0.31	141.047	2%	12.2	172.005	19.13	121.92	2.5	95.2	14.2	533.5	29,763		37.9	After start-up	
4/2																											

Table 6
Phase II System LNAPL Recovery Summary
 Former Amoco Terminal
 Superior, WI

Superior Barge Dock Product Skimming System - Phase II					Tank Dimensions/Volume Calculation (depth meas. from top of hori. cylindrical tank)																										
6 LNAPL Skimming Wells on C. Reiss property Product Recovery Table					Diameter of tank = 8.00 feet Depth of tank from top of bung = 8.08 feet Length of tank = 18.67 feet Depth of bung = 0.08 feet Full Volume of tank = 7,019 gallons 95% full volume of tank = 6,668 gallons																										
					Operational Time				Panel Hour Meter total hours	Panel Hour Meter period hours	Dial hour hand	Dial minute hand	Dial total (inches)	Depth to Product (ft)	Depth to Water (ft)	Water Tx (ft)	Product Tx (ft)	Total Fluid Volume (gal)	95% Tank full (%)	Period Estimate d # of days until	Cumulative Estimate d # of days until	Current Tank Water Volume (gal)	Current Tank Free Product Volume (gal)	Period Water recovered (gal)	Period Free Product recovered (gal)	Period Water recovery rate (gallons /)	Period Product recovery rate (gallons /)	Cumulative Product recovered (gallons)	Cumulative Water recovery rate (gallons /)	Cumulative Product recovery rate (gallons /)	Notes
					Date/Time	Calendar Period hours	Total hours	Total days																							
7/15/2016 9:45	69.47	20,528.7	860.1667	20,644.00	69.5	3	5.4	41.4	4.42	5.89	2.19	1.47	3129.87	47%	-1613.2	97.516	1558.69	1571.18	39.7	-6.4	13.7	-2.2	31,212		36.3						
7/21/2016 15:23	149.63	20,678.3	866.4	20,793.60	149.6	3	6.2	42.2	4.33	5.88	2.2	1.55	3230.13	48%	237.4	95.1645	1568.66	1661.47	10.0	90.3	1.6	14.5	31,303		36.1						
7/25/2016 12:45	93.37	20,771.7	870.2917	20,887.00	93.4	3	6.9	42.9	4.29	5.88	2.2	1.59	3274.74	49%	296.1	94.2175	1568.66	1706.07	0.0	44.6	0.0	11.5	31,347		36.0						
8/1/2016 10:57	166.20	20,937.7	877.2083	21,053.00	166.0	3	7.8	43.8	4.21	5.88	2.2	1.67	3364.01	50%	256.0	92.2053	1568.66	1795.35	0.0	89.3	0.0	12.9	31,436		35.8						
8/9/2016 9:30	190.55	21,128.4	885.1542	21,243.70	190.7	3	8.9	44.9	4.12	5.88	2.2	1.76	3464.52	52%	253.3	89.9231	1568.66	1895.86	0.0	100.5	0.0	12.6	31,537		35.6						
8/9/2016 13:28	0.00	21,128.4	885.2417	21,245.80	0.0	0	1.8	1.8	7.83	7.92	0.16	0.09	65.2001	1%	NA		33.50	31.70	0.0	0.0	0.0	0.0	31,537		35.6	Mid Summer Pump Out					
8/18/2016 11:02	213.57	21,341.9	894.1375	21,459.30	213.5	0	3.4	3.4	7.61	7.95	0.13	0.34	166.645	2%	524.0	183.694	24.56	142.08	-8.9	110.4	-1.0	12.4	31,647		35.4						
8/26/2016 11:00	191.97	21,533.8	902.1333	21,651.20	191.9	0	5.2	5.2	7.45	7.96	0.12	0.51	256.996	4%	550.5	182.225	21.79	235.21	-2.8	93.1	-0.3	11.6	31,741		35.2						
9/2/2016 9:35	166.58	21,700.4	909.075	21,817.80	166.6	0	6.6	6.6	7.33	7.96	0.12	0.63	332.228	5%	584.6	181.043	21.79	310.44	0.0	75.2	0.0	10.8	31,816		35.0						
9/9/2016 13:55	172.33	21,872.7	916.2542	21,990.10	172.3	0	8.6	8.6	7.19	7.96	0.12	0.77	427.055	6%	472.5	179.208	21.79	405.26	0.0	94.8	0.0	13.2	31,911		34.8						
9/16/2016 9:25	163.50	22,036.2	923.0667	22,153.60	163.5	0	9.3	9.3	7.1	7.95	0.13	0.85	491.642	7%	680.7	178.327	24.56	467.08	2.8	61.8	0.4	9.1	31,972		34.6						
9/20/2016 8:13	94.80	22,131.1	927.0208	22,248.50	94.9	0	10	10	7.06	7.96	0.12	0.90	521.195	8%	752.0	178.054	21.79	499.40	-2.8	32.3	-0.7	8.2	32,005		34.5						
9/29/2016 10:35	218.37	22,349.5	936.1208	22,466.90	218.4	0	11	11	6.94	7.96	0.12	1.02	612.79	9%	601.6	176.617	21.79	591.00	0.0	91.6	0.0	10.1	32,096		34.3						
10/6/2016 9:52	167.28	22,516.7	943.0875	22,634.10	167.2	1	0.4	12.4	6.84	7.95	0.13	1.11	692.278	10%	542.7	175.177	24.56	667.72	2.8	76.7	0.4	11.0	32,173		34.1						
10/13/2016 9:30	167.63	22,684.3	950.0708	22,801.70	167.6	1	1.5	13.5	6.76	7.95	0.13	1.19	757.794	11%	630.0	174.185	24.56	733.23	0.0	65.5	0.0	9.4	32,239		33.9						
10/18/2016 11:05	121.58	22,805.9	955.1375	22,923.30	121.6	1	2.4	14.4	6.69	7.95	0.13	1.26	816.448	12%	505.5	173.061	24.56	791.89	0.0	58.7	0.0	11.6	32,297		33.8						
10/27/2016 10:00	214.92	23,020.9	964.0958	23,138.30	215.0	1	3.6	15.6	6.59	7.94	0.14	1.35	902.27	14%	622.8	171.682	27.44	874.83	2.9	82.9	0.3	9.3	32,380		33.6						
11/7/2016 12:45	266.75	23,269.8	974.4667	23,387.20	248.9	1	6.4	18.4	6.39	7.85	0.23	1.46	1080.53	16%	391.3	167.398	57.58	1022.95	30.1	148.1	2.9	14.3	32,528		33.4	End of operating season, Pump Out					
11/8/2016 7:30	0.00	23,269.8	975.2458	23,405.90	0.0	0	2	2	7.83	7.96	0.12	0.13	65.2001	1%	NA	197.975	21.79	43.41	0.0	0.0	0.0	0.0	32,528		33.4	End of season data					
5/2/17 14:30	4,207.00	23,269.8	975.2458	23,405.90	0.0	0	2	2	7.82	7.95	0.13	0.13	69.1245	1%	NA	197.85	24.56	44.56	2.8	1.2	0.0	0.0	32,529		33.4	T=0 Conditions (Start of Season)					
5/4/2017 11:35	45.08	23,313.8	977.0792	23,449.90	44.0	0	3.8	3.8	7.58	7.95	0.13	0.37	182.638	3%	104.7	194.135	24.56	158.08	0.0	113.5	0.0	61.9	32,643		33.4						
5/8/2017 14:20	98.75	23,412.3	981.1833	23,548.40	98.5	0	5.7	5.7	7.41	7.95	0.13	0.54	281.41	4%	265.4	191.402	24.56	256.85	0.0	98.8	0.0	24.1	32,741		33.4	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
5/18/2017 13:30	239.17	23,651.6	991.15	23,787.70	239.3	0	9	0	7.14	7.95	0.13	0.81	462.604	7%	341.5	186.828	24.56	438.04	0.0	181.2	0.0	18.2	32,923		33.2	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
5/22/2017 15:13	97.72	23,749.2	995.22	23,885.30	97.6	0	9	9	7.05	7.95	0.13	0.90	528.662	8%	378.0	185.226	24.56	504.10	0.0	66.1	0.0	16.2	32,989		33.1	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
5/25/2017 13:15	70.03	23,859.2	999.80	23,995.30	110.0	0	10	7	7	7.95	0.13	0.95	566.455	8%	740.0	184.722	24.56	541.89	0.0	37.8	0.0	8.2	33,026		33.0	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
5/31/2017 15:50	146.58	23,965.9	1004.25	24,102.00	106.7	0	11	9	6.88	7.95	0.13	1.07	660.152	10%	285.1	182.178	24.56	635.59	0.0	93.7	0.0	21.1	33,120		33.0	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
6/14/2017 14:20	334.50	24,300.3	1018.18	24,436.40	334.4	1	2	6	6.67	7.95	0.13	1.28	833.425	12%	469.2	178.445	24.56	808.86	0.0	173.3	0.0	12.4	33,293		32.7	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
6/21/2017 15:30	169.17	24,469.5	1025.23	24,605.60	169.2	1	3	8	6.56	7.95	0.13	1.39	928.463	14%	425.8	176.251	24.56	903.90	0.0	95.0	0.0	13.5	33,388		32.6	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					
6/29/2017 16:00	192.50	24,661.9	1033.25	24,798.00	192.4	1	5	0	6.46	7.95	0.13	1.49	1017.18	15%	510.6	174.42	24.56	992.62	0.0	88.7	0.0	11.1	33,477		32.4	System @ 1hr recharge, 30s discharge, 22 ON, 2 OFF					

Table 7
MWAST-4 Extended Duration LNAPL Recovery Test
Former Amoco Terminal
Superior, Wisconsin

1,000 Gallon Product Storage Tank (MWAST-4)																
Date / Time	Period Run Time	Depth to Water (feet from TOC)	Water Level (feet from tank top)	Depth to LNAPL (feet from TOC)	LNAPL Level (feet from tank top)	Water Volume (gallons, from chart)	Water Volume (gallons, calculated)	Total Liquid Volume (gallons, from chart)	LNAPL Volume (gallons)	LNAPL Volume (gallons, calc)	Total LNAPL Recovered Since Last Monitoring Event (gallons)	Total LNAPL Recovered Since Previous Monitoring Day (gallons)	Cumulative Holding Tank LNAPL Volume (gallons)	Monitoring Period LNAPL Recovery (gallons/day)	Total Pilot Test LNAPL Recovered (gallons)	Comments
7/9/2015 13:15	0.00	8.03	7.13	5.36	4.46	45.1	45.13	489.6	444.5	446.2	0	0	443.2		0	
7/9/2015 13:45	0.50	8.03	7.13	5.36	4.46	45.1	45.13	489.6	444.5	446.2	0	0	443.2		0	
7/9/2015 14:15	0.50	8.03	7.13	5.34	4.44	45.1	45.13	494.7	449.6	449.6	5.1	0	448.3		5.1	
7/9/2015 14:45	0.50	8.03	7.13	5.32	4.42	45.1	45.13	498	452.9	452.9	3.3	8.4	451.6		8.4	
7/9/2015 15:15	0.50	8.03	7.13	5.31	4.41	45.1	45.13	499.7	454.6	454.6	1.7	8.4	453.3		10.1	
7/9/2015 15:45	0.50	8.03	7.13	5.3	4.4	45.1	45.13	501.4	456.3	456.2	1.7	8.4	455		11.8	
7/9/2015 16:15	0.50	8.03	7.13	5.28	4.38	45.1	45.13	504.7	459.6	459.6	3.3	8.4	458.3		15.1	
7/9/2015 16:45	0.50	8.02	7.12	5.26	4.36	46.8	46.81	508	461.2	461.3	1.6	8.4	459.9		16.7	
7/9/2015 17:15	0.50	8.02	7.12	5.25	4.35	46.8	46.81	509.7	462.9	462.9	1.7	8.4	461.6		18.4	
7/9/2015 18:15	1.00	8.02	7.12	5.23	4.33	46.8	46.81	513.1	466.3	466.3	3.4	8.4	465	40.3	21.8	
7/10/2015 7:00	12.75	8.04	7.14	5	4.1	43.5	43.46	551.5	508	508.0	41.7	50.1	506.7		63.5	
7/10/2015 8:00	1.00	8.04	7.14	4.99	4.09	43.5	43.46	553.2	509.7	509.7	1.7	50.1	508.4		65.2	
7/10/2015 9:00	1.00	8.03	7.13	4.97	4.07	45.1	45.13	556.5	511.4	511.4	1.7	45.1	510.1		66.9	
7/10/2015 10:00	1.00	8.03	7.13	4.94	4.04	45.1	45.13	561.6	516.5	516.4	5.1	58.5	515.2		72	
7/10/2015 11:00	1.00	8.02	7.12	4.92	4.02	46.8	46.81	564.9	518.1	518.1	1.6	58.5	516.8		73.6	
7/10/2015 12:00	1.00	8.03	7.13	4.91	4.01	45.1	45.13	566.5	521.4	521.4	3.3	61.8	520.1		76.9	
7/10/2015 13:00	1.00	8.03	7.13	4.9	4	45.1	45.13	568.2	523.1	523.1	1.7	63.5	521.8		78.6	
7/10/2015 14:00	1.00	8.03	7.13	4.89	3.99	45.1	45.13	569.9	524.8	524.8	1.7	65.2	523.5	79.2	80.3	
7/11/2015 8:05	18.08	8.03	7.13	4.7	3.8	45.1	45.13	601.6	556.5	556.5	31.7	31.7	555.2	42.1	112	
7/12/2015 10:30	15.75	8.03	7.13	4.56	3.66	45.1	45.13	625	579.9	579.9	23.4	23.4	578.6		135.4	10.67 Hours of run time subtracted- system down
7/12/2015 11:57	1.45	8.03	7.13	4.53	3.63	45.1	45.13	630.1	585	584.9	5.1	28.5	583.7	39.8	140.5	
7/13/2015 10:55	22.97	8.06	7.16	4.37	3.47	40.1	40.12	656.8	616.7	616.7	31.7	31.7	615.4		172.2	
7/13/2015 19:00	8.08	8.29	7.39	4.59	3.69	1.68	1.68	620	618.32	618.3	1.62	33.32	617.02	25.8	173.82	
7/14/2015 7:20	12.33	8.3	7.4	4.54	3.64	0	0	628.4	628.4	628.4	10.08	10.08	627.1		183.9	
7/14/2015 12:00	4.67	8.31	7.41	4.49	3.59	0	0	636.8	636.8	636.7	8.4	18.48	635.5	26.1	192.3	
7/15/2015 11:41	23.68	8.32	7.42	8.17	7.27	0	0	21.7	21.7	21.7	25.1	25.1	660.6	25.4	217.4	
7/16/2015 10:15	22.57	8.32	7.42	8.09	7.19	0	0	35.1	35.1	35.1	13.4	13.4	674	14.3	230.8	
7/17/2015 16:08	29.88	8.32	7.42	7.95	7.05	0	0	58.5	58.5	58.5	23.4	23.4	697.4	18.8	254.2	
7/18/2015 11:58	19.83	8.32	7.42	7.85	6.95	0	0	75.2	75.2	75.2	16.7	16.7	714.1	20.2	270.9	
7/21/2015 11:19	71.35	8.32	7.42	7.63	6.73	0	0	112	112	112.0	36.8	36.8	750.9	12.4	307.7	
7/22/2015 10:24	23.08	8.32	7.42	7.54	6.64	0	0	127.1	127.1	127.0	15.1	15.1	766	15.7	322.8	
7/23/2015 8:25	22.02	8.32	7.42	7.48	6.58	0	0	137.1	137.1	137.1	10	10	776	10.9	332.8	
7/24/2015 7:33	23.13	8.32	7.42	7.41	6.51	0	0	148.7	148.7	148.7	11.6	11.6	787.6	12.0	344.4	
7/25/2015 12:28	28.92	8.32	7.42	7.32	6.42	0	0	163.8	163.8	163.8	15.1	15.1	802.7	12.5	359.5	
7/27/2015 7:33	43.08	8.32	7.42	7.24	6.34	0	0	177.2	177.2	177.2	13.4	13.4	816.1	7.5	372.9	
7/29/2015 7:49	48.27	8.32	7.42	7.14	6.24	0	0	193.9	193.9	193.9	16.7	16.7	832.8	8.3	389.6	
7/31/2015 7:38	47.82	8.32	7.42	7.05	6.15	0	0	208.9	208.9	208.9	15	15	847.8	7.5	404.6	
8/4/2015 7:40	96.03	8.32	7.42	6.9	6	0	0	234	234	234.0	25.1	25.1	872.9	6.3	429.7	
8/7/2015 10:26	74.77	8.32	7.42	6.82	5.92	0	0	247.3	247.3	247.3	13.3	13.3	886.2	4.3	443	
8/10/2015 8:05	69.65	8.32	7.42	6.75	5.85	0	0	259	259	259.0	11.7	11.7	897.9	4.0	454.7	
8/12/2015 7:47	47.70	8.32	7.42	6.7	5.8	0	0	267.4	267.4	267.4	8.4	8.4	906.3	4.2	463.1	
8/14/2015 8:14	48.45	8.32	7.42	6.65	5.75	0	0	275.7	275.7	275.8	8.3	8.3	914.6	4.1	471.4	
8/15/2015 11:42	27.47	8.32	7.42	6.61	5.71	0	0	282.4	282.4	282.4	6.7	6.7	921.3	5.9	478.1	
8/17/2015 12:23	48.68	8.32	7.42	6.57	5.67	0	0	289.1	289.1	289.1	6.7	6.7	928	3.3	484.8	
8/24/2015 12:03	167.67	8.32	7.42	6.46	5.56	0	0	307.5	307.5	307.5	18.4	18.4	946.4	2.6	503.2	
8/26/2015 8:55	44.87	8.32	7.42	6.44	5.54	0	0	310.9	310.9	310.9	3.4	3.4	949.8	1.8	506.6	
8/27/2015 13:27	28.53	8.32	7.42	6.4	5.5	0	0	317.5	317.5	317.5	6.6	6.6	956.4	5.6	513.2	
9/3/2015 9:56	164.48	8.32	7.42	6.29	5.39	0	0	335.9	335.9	335.9	18.4	18.4	974.8	2.7	531.6	
9/10/2015 11:50	169.90	8.32	7.42	6.21	5.31	0	0	349.3	349.3	349.3	13.4	13.4	988.2	1.9	545	
9/17/2015 11:30	167.67	8.32	7.42	6.05	5.15	0	0	376	376	376.0	26.7	26.7	1014.9	3.8	571.7	
9/24/2015 14:00	170.50	8.31	7.41	6.03	5.13	0	0	379.4	379.4	379.4	3.4	3.4	1018.3	0.5	575.1	
10/1/2015 11:30	165.50	8.32	7.42	6.03	5.13	0	0	379.4	379.4	379.4	0	0	1018.3	0.0	575.1	
10/8/2015 8:10	164.67	8.3	7.4	5.94	5.04	0	0	394.4	394.4	394.4	15	15	1033.3	2.2	590.1	
10/14/2015 10:30	146.33	8.32	7.42	5.79	4.89	0	0	419.5	419.5	419.5	25.1	25.1	1058.4	4.1	615.2	
10/21/2015 11:12	168.70	8.3	7.4	5.63	4.73	0	0	446.2	446.2	446.2	26.7	26.7	1085.1	3.8	641.9	
10/29/2015 10:42	191.50	8.31	7.41	5.44	4.54	0	0	478	478	478.0	31.8	31.8	1116.9	4.0	673.7	
11/3/2015 7:33	116.85	8.31	7.41	5.3	4.4	0	0	501.4	501.4	501.4	23.4	23.4	1140.3	4.8	697.1	501.4 gallons removed from tank -end of season

Table 7
MWAST-4 Extended Duration LNAPL Recovery Test
Former Amoco Terminal
Superior, Wisconsin

1,000 Gallon Product Storage Tank (MWAST-4)																
Date / Time	Period Run	Depth to	Water	Depth to	LNAPL	Water	Water	Total Liquid	LNAPL	LNAPL	Total LNAPL	Total LNAPL	Cumulative	Monitoring	Total Pilot	Comments
	Time	Water	Level	LNAPL	Level	Volume	Volume	Volume	Volume	Volume	Recovered Since Last Monitoring Event	Recovered Since Previous Monitoring Day	Holding Tank LNAPL Volume	Period LNAPL Recovery	Test LNAPL Recovered	
		(feet from TOC)	(feet from tank top)	(feet from TOC)	(feet from tank top)	(gallons, from chart)	(gallons, calculated)	(gallons, from chart)	(gallons)	(gallons, calc)	(gallons)	(gallons)	(gallons)	(gallons/day)	(gallons)	
4/21/2016 9:48	0.00	8.3	7.4	8.3	7.4	0	0	0	0	0.0	0	0	1140.3	0.0	697.1	System start at empty tank
4/27/2016 11:36	145.80	7.73	6.83	7.6	6.7	95.3	95.27	117	21.7	21.7	21.7	21.7	1162	3.6	718.8	
5/2/2016 16:48	125.20	7.62	6.72	7.49	6.59	113.6	113.65	135.4	21.8	21.7	0.1	0.1	1162.1	0.0	718.9	
5/9/2016 11:37	162.82	7.61	6.71	7.46	6.56	115.3	115.32	140.4	25.1	25.1	3.3	3.3	1165.4	0.5	722.2	
5/18/2016 11:10	215.55	7.59	6.69	7.45	6.55	118.7	118.67	142.1	23.4	23.4	-1.7	-1.7	1163.7	-0.2	720.5	
5/25/2016 13:20	170.17	7.59	6.69	7.45	6.55	118.7	118.67	142.1	23.4	23.4	0	0	1163.7	0.0	720.5	
5/31/2016 10:30	141.17	7.55	6.65	7.41	6.51	125.5	125.35	148.7	23.2	23.4	-0.2	-0.2	1163.5	0.0	720.3	
6/7/2016 11:50	169.33	7.53	6.63	7.39	6.49	128.8	128.69	152.1	23.3	23.4	0.1	0.1	1163.6	0.0	720.4	
6/14/2016 12:32	168.70	7.51	6.61	7.37	6.47	132.1	132.04	155.4	23.3	23.4	0.0	0.0	1163.6	0.0	720.4	
6/21/2016 10:08	165.60	7.53	6.63	7.38	6.48	128.8	128.69	153.8	25	25.1	1.7	1.7	1165.3	0.2	722.1	
6/27/2016 10:55	72.30	3.54	2.64	3.3	2.4	795.5	795.50	835.6	40.1	40.1	15.1	15.1	1180.4	5.0	737.2	System shut off estimated based on product recovery rate
7/6/2016 14:21	0.00	7.39	6.49	7.2	6.3	152.1	152.09	183.8	31.7	31.8	0.0	0	1180.4	0.0	737.2	~800 gallons of water removed from tank and system restarted
7/7/2016 11:13	20.87	7.42	6.52	7.19	6.29	147.1	147.08	185.5	38.4	38.4	6.7	6.7	1187.1	7.7	743.9	
7/12/2016 13:00	121.78	7.39	6.49	7.06	6.16	152.1	152.09	207.2	55.1	55.1	16.7	16.7	1203.8	3.3	760.6	
7/15/2016 9:56	68.93	7.39	6.49	7.04	6.14	152.1	152.09	210.6	58.5	58.492	3.4	3.4	1207.2	1.2	764	
7/21/2016 9:44	143.80	7.38	6.48	7	6.10	153.8	153.7624	217.3	63.5	63.5056	5.0	5.0	1212.2	0.8	769	
7/25/2016 12:52	99.13	7.37	6.47	6.95	6.05	155.4	155.4336	225.6	70.2	70.1904	6.7	6.7	1218.9	1.6	775.7	
8/1/2016 11:06	166.23	7.33	6.43	6.79	5.89	162.1	162.1184	252.4	90.3	90.2448	20.1	20.1	1239	2.9	795.8	
8/9/2016 10:52	191.77	7.33	6.43	6.49	5.59	162.1	162.1184	302.5	140.4	140.3808	50.1	50.1	1289.1	6.3	845.9	
8/9/2016 13:30	0.00	8.3	7.4	8.3	7.4	0	0	0	0	0	0.0	0.0	1289.1	0.0	845.9	Tank emptied
8/18/2016 11:25	213.92	8.28	7.38	7.89	6.99	3.4	3.3544	68.5	65.1	65.1768	65.1	65.1	1354.2	7.3	911.0	
8/26/2016 11:00	191.58	8.3	7.4	7.59	6.69	0.0	0.00	118.7	118.7	118.6672	53.6	53.6	1407.8	6.7	964.6	
9/2/2016 0:00	157.00	8.25	7.35	7.36	6.46	8.4	8.37	157.1	148.7	148.7368	30.0	30.0	1437.8	4.6	994.6	
9/9/2016 14:05	182.08	8.24	7.34	7.1	6.2	10.1	10.04	200.5	190.4	190.5168	41.7	41.7	1479.5	5.5	1036.3	
9/16/2016 9:30	163.42	8.22	7.32	6.89	5.99	13.4	13.38	235.7	222.3	222.2696	31.9	31.9	1511.4	4.7	1068.2	
9/20/2016 8:20	94.83	8.22	7.32	6.79	5.89	13.4	13.38	252.4	239	238.9816	16.7	16.7	1528.1	4.2	1084.9	
9/29/2016 10:40	218.33	8.21	7.31	6.59	5.69	15	15.05	285.8	270.8	270.7344	31.8	31.8	1559.9	3.5	1116.7	
10/6/2016 10:00	167.33	8.17	7.27	6.45	5.55	21.7	21.74	309.2	287.5	287.4464	16.7	16.7	1576.6	2.4	1133.4	
10/13/2016 9:35	167.58	8.16	7.26	6.34	5.44	23.4	23.41	327.60	304.2	304.1584	16.7	16.7	1593.3	2.4	1150.1	
10/18/2016 11:15	121.67	8.16	7.26	6.24	5.34	23.4	23.41	344.30	320.9	320.8704	16.7	16.7	1610	3.3	1166.8	
10/27/2016 10:50	215.58	8.14	7.24	6.11	5.21	26.8	26.75	366	339.2	339.2536	18.3	18.3	1628.3	2.0	1185.1	
11/7/2016 9:53	263.05	8.08	7.18	5.87	4.97	36.8	36.78	406.1	369.3	369.3352	30.1	30.1	1658.4	2.7	1215.2	End of operating season- pump out
5/2/2017 11:55	0.00	8.3	7.4	8.3	7.4	0	0.00	0	0	0.012	0.0	0.0	1658.4	0.0	1215.2	T=0 Start of Operating Season, ~1' of product in well.
5/4/2017 11:48	47.88	8.3	7.4	8.3	7.4	0	0.00	0	0	0.012	0.0	0.0	1658.4	0.0	1215.2	Very little product in well, sheen of product at bottom of tank
5/8/2017 10:24	94.60	8.3	7.4	8.3	7.4	0	0.00	0	0	0.012	0.0	0.0	1658.4	0.0	1215.2	Very little product in well, sheen of product at bottom of tank
5/18/2017 13:00	242.60	8.3	7.4	8.3	7.4	0	0.00	0	0	0.012	0.0	0.0	1658.4	0.0	1215.2	Very little product in well, sheen of product at bottom of tank
5/22/2017 10:10	93.17	7.79	6.89	7.77	6.87	85.3	85.24	88.6	3.3	3.3424	3.3	3.3	1661.7	0.9	1218.5	Increased Precipitation Events, Increased Water Table
5/25/2017 9:42	71.53	7.77	6.87	7.75	6.85	88.6	88.59	91.9	3.3	3.3424	0.0	0.0	1661.7	0.0	1218.5	Increased Precipitation Events, Increased Water Table
5/31/2017 16:04	150.37	7.76	6.86	7.74	6.84	90.2	90.26	93.6	3.4	3.3424	0.1	0.1	1661.8	0.0	1218.6	
6/14/2017 14:30	334.43	7.76	6.86	7.74	6.84	90.2	90.26	93.6	3.4	3.3424	0.0	0.0	1661.8	0.0	1218.6	
6/22/2017 15:12	192.70	7.74	6.84	7.72	6.82	93.6	93.60	96.9	3.3	3.3424	-0.1	-0.1	1661.7	0.0	1218.5	
6/29/2017 15:57	168.75	7.68	6.78	7.7	6.8	103.6	103.63	100.3	-3.3	-3.3424	-6.6	-6.6	1655.1	0.0	1211.9	Numbers make it appear we lost product. Will check readings again.

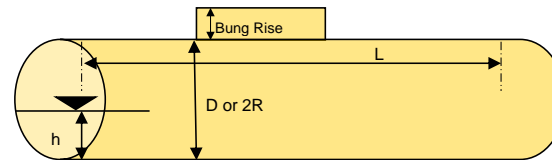
Table 8
 RW-09 Extended Duration LNAPL Recovery Test
 Former Amoco Terminal
 Superior, Wisconsin

Portable System #2 Fluid Recovery and Storage in a 300 Gallon Horizontal Tank

Former Amoco Terminal (Barge Dock)
 Superior, Wisconsin



AST Inside Diameter (in.)	37.5
AST Inside Length (in.)	60
Bung Rise (in.)	1.14
Depth to Tank Bottom (ft)	3.22
Tank Capacity (gal)	286.874



Yellow box: Data Entry
 Green box: Calculated Cell

$$Volume = \left[R^2 \cos^{-1} \left(\frac{R-h}{R} \right) - (R-h) \sqrt{2Rh - h^2} \right] L$$

Date	Elapsed Run Time (Hours)	Period* Hours	Period* Days	Tank	DTP ₁ (ft)	DTW ₁ (ft)	Product (Gallons)	Water (Gallons)	Recovery Rate (Gallons / Day)	Remaining Tank Volume (Gallons)	Notes	Cumulative Product Recovery to Date
First Extended Pumping Test												
7/6/16 15:42	0.00			Trinity 300			0.00			300.0	System Startup	0.0
7/7/16 14:30	22.80	22.80	0.95	Trinity 300	3.15	ND	1.62	0.00	1.71	285.3		1.6
7/12/16 15:42	144.00	121.20	5.05	Trinity 300	2.88	ND	16.90	0.00	3.02	270.0		16.9
7/15/16 10:02	210.33	66.33	2.76	Trinity 300	2.86	3.21	18.28	0.09	0.50	268.5	System Down for Maintenance	18.3
7/21/16 10:25	354.72	0.00	0.00	Trinity 300	2.86	3.21	18.28	0.09	0.00	268.5	System Restarted	18.3
7/25/16 13:47	454.08	99.37	4.14	Trinity 300	2.74	3.21	27.84	0.09	2.31	258.9		27.8
8/1/16 11:30	619.80	165.72	6.90	Trinity 300	2.67	3.21	33.91	0.09	0.88	252.9		33.9
8/9/16 9:48	810.10	190.30	5.10	Trinity 300	2.60	3.21	40.29	0.09	1.25	246.5	System shut off estimated based off recovery rate	40.3
8/9/16 13:22	813.67			Trinity 300	3.22	3.22	0.0	0.0		286.9	Pump Out	40.3
8/18/16 11:30	1027.80	214.13	8.92	Trinity 300	2.96	3.07	6.3	5.0	0.71	275.5		46.6
8/26/16 11:00	1219.30	191.50	7.98	Trinity 300	2.85	3.07	14.1	5.0	0.97	267.8		54.4
9/2/16 10:35	1386.88	167.58	6.98	Trinity 300	2.78	2.94	11.9	12.7	-0.31	262.3		52.2
9/9/16 14:30	1558.80	171.92	7.16	Trinity 300	2.79	2.94	11.1	12.7	-0.11	263.1		51.4
9/15/16 16:00	1704.30	145.50	6.06	Trinity 300	2.73	2.90	13.3	15.5	0.37	258.1	RW-9 pump off, MW-32 Plumbing to RW-9 Tank	53.6

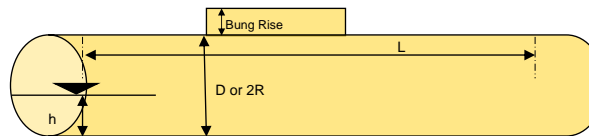
Table 9
 MW-32 Extended Duration LNAPL Recovery Test
 Former Amoco Terminal
 Superior, Wisconsin

Portable System #1 MW-32
Fluid Recovery and Storage in a 300 Gallon Horizontal Tank

Former Amoco Terminal (Barge Dock)
 Superior, Wisconsin



AST Inside Diameter (in.)	37.5
AST Inside Length (in.)	60
Bung Rise (in.)	1.14
Depth to Tank Bottom (ft)	3.22
Tank Capacity (gal)	286.87



Data Entry
 Calculated Cell

$$Volume = \left[R^2 \cos^{-1} \left(\frac{R-h}{R} \right) - (R-h) \sqrt{2Rh - h^2} \right] L$$

Date	Elapsed Run Time (Hours)	Elapsed Run Time (Days)	Period* Hours	Period* Days	Tank	DTP ₁ (ft)	DTW ₁ (ft)	Product in Portable Tank (Gallons)	Water in Portable Tank (Gallons)	Period Recovery Rate (Gallons / Day)	Remaining Tank Volume (Gallons)	Total Product (Gallons)	Notes	Cumulative Product Recovery to Date
First Extended Pumping Test														
8/24/15 12:10	0.00	0.00			Trinity 300	2.95	3.00	3.14	8.90		274.8	0.00		0.00
8/24/15 12:40	0.50	0.02			Trinity 300	2.94	2.99	3.20	9.51		274.2	0.06		0.06
8/24/15 12:55	0.75	0.03			Trinity 300	2.94	2.99	3.20	9.51		274.2	0.06		0.06
8/24/15 13:10	1.00	0.04			Trinity 300	2.94	2.99	3.20	9.51		274.2	0.06		0.06
8/24/15 13:25	1.25	0.05			Trinity 300	2.93	3.00	4.48	8.90		273.5	1.34		1.34
8/24/15 13:40	1.50	0.06			Trinity 300	2.93	3.00	4.48	8.90		273.5	1.34		1.34
8/24/15 13:55	1.75	0.07			Trinity 300	2.92	3.01	5.75	8.31		272.8	2.61		2.61
8/24/15 14:10	2.00	0.08			Trinity 300	2.92	3.01	5.75	8.31		272.8	2.61		2.61
8/24/15 14:25	2.25	0.09			Trinity 300	2.92	3.00	5.16	8.90		272.8	2.02		2.02
8/24/15 14:40	2.50	0.10			Trinity 300	2.92	3.01	5.75	8.31		272.8	2.61		2.61
8/24/15 14:55	2.75	0.11			Trinity 300	2.92	3.01	5.75	8.31		272.8	2.61		2.61
8/24/15 15:00	2.83	0.12			Trinity 300	2.92	3.01	5.75	8.31		272.8	2.61		2.61
8/24/15 15:15	3.08	0.13			Trinity 300	2.91	3.01	6.44	8.31		272.1	3.30		3.30
8/24/15 15:30	3.33	0.14			Trinity 300	2.90	2.95	3.42	12.04		271.4	0.28		0.28
8/24/15 15:45	3.58	0.15			Trinity 300	2.90	2.96	4.07	11.39		271.4	0.93		0.93
8/24/15 16:00	3.83	0.16			Trinity 300	2.90	2.95	3.42	12.04		271.4	0.28		0.28
8/24/15 16:15	4.08	0.17			Trinity 300	2.89	2.95	4.13	12.04		270.7	0.99		0.99
8/24/15 16:30	4.33	0.18			Trinity 300	2.89	2.95	4.13	12.04		270.7	0.99		0.99
8/24/15 16:45	4.58	0.19			Trinity 300	2.88	2.94	4.19	12.70		270.0	1.05		1.05
8/24/15 17:00	4.83	0.20	4.83	0.20	Trinity 300	2.88	2.94	4.19	12.70	5.22	270.0	1.05		1.05
8/25/15 8:45	20.58	0.86			Trinity 300	2.61	2.67	5.45	34.00		247.4	2.31		2.31
8/25/15 9:45	21.58	0.90			Trinity 300	2.60	2.66	5.49	34.89		246.5	2.35		2.35
8/25/15 10:45	22.58	0.94			Trinity 300	2.58	2.63	4.65	37.61		244.6	1.51		1.51
8/25/15 11:45	23.58	0.98			Trinity 300	2.57	2.63	5.6	37.6		243.7	2.45		2.45
8/25/15 12:45	24.58	1.02			Trinity 300	2.55	2.61	5.7	39.4		241.8	2.52		2.52
8/25/15 13:45	25.58	1.07			Trinity 300	2.53	2.59	5.7	41.3		239.8	2.58		2.58
8/25/15 14:45	26.58	1.11			Trinity 300	2.52	2.58	5.8	42.3		238.9	2.62		2.62
8/25/15 15:45	27.58	1.15			Trinity 300	2.51	2.57	5.8	43.2		237.9	2.65		2.65
8/25/15 16:45	28.58	1.19	23.75	0.99	Trinity 300	2.49	2.55	5.8	45.1	1.67	235.9	2.71		2.71
8/26/15 7:40	43.50	1.81			Trinity 300	2.30	2.37	7.4	63.1		216.4	4.23		4.23
8/26/15 9:00	44.83	1.87			Trinity 300	2.28	2.34	6.4	66.3		214.2	3.23		3.23
8/26/15 10:00	45.83	1.91			Trinity 300	2.27	2.34	7.4	66.3		213.1	4.31		4.31
8/26/15 11:00	46.83	1.95			Trinity 300	2.26	2.33	7.5	67.3		212.1	4.33		4.33
8/26/15 12:00	47.83	1.99			Trinity 300	2.24	2.31	7.5	69.4		209.9	4.37		4.37
8/26/15 14:30	50.33	2.10			Trinity 300	2.22	2.28	6.5	72.7		207.7	3.35		3.35
8/26/15 16:00	51.83	2.16			Trinity 300	2.22	2.28	6.5	72.7		207.7	3.35		3.35
8/26/15 17:00	52.83	2.20	24.25	1.01	Trinity 300	2.22	2.28	6.5	72.7	0.64	207.7	3.35		3.35

Table 9
 MW-32 Extended Duration LNAPL Recovery Test
 Former Amoco Terminal
 Superior, Wisconsin

Date	Elapsed Run Time (Hours)	Elapsed Run Time (Days)	Period* Hours	Period* Days	Tank	DTP ₁ (ft)	DTW ₁ (ft)	Product in Portable Tank (Gallons)	Water in Portable Tank (Gallons)	Period Recovery Rate (Gallons / Day)	Remaining Tank Volume (Gallons)	Total Product (Gallons)	Notes	Cumulative Product Recovery to Date
8/27/15 7:00	66.83	2.78	14.00	0.58	Trinity 300	2.07	2.14	7.8	88.0	2.31	191.1	4.70		4.70
Second Extended Pumping Test														
9/14/15 11:45					Trinity 300	3.04	3.20	6.4	0.2		280.3	0.0		4.7
9/14/15 19:05	7.33	3.09	7.33	0.31	Trinity 300	3.03	3.20	6.9	0.2	1.81	279.7	0.6		5.2
9/15/15 7:30	19.75	3.61			Trinity 300	3.02	3.20	7.5	0.2		279.1	1.1		5.8
9/15/15 15:40	27.92	3.95	20.58	0.86	Trinity 300	3.00	3.18	8.2	0.7	1.49	278.0	1.8		6.5
9/17/15 11:00	71.25	5.75			Trinity 300	2.92	3.13	11.7	2.4		272.8	5.3		10.0
9/17/15 15:05	75.33	5.92	47.42	1.98	Trinity 300	2.92	3.12	11.3	2.8	1.57	272.8	4.9		9.6
9/21/15 10:50	167.08	9.75	91.75	3.82	Trinity 300	2.81	3.04	15.6	6.6	1.12	264.7	9.2		13.9
9/24/15 12:20	240.58	12.81	73.50	3.06	Trinity 300	2.76	3.00	17.4	8.9	0.57	260.6	11.0		15.7
10/1/15 11:50	408.08	19.79	167.50	6.98	Trinity 300	2.71	2.94	17.8	12.7	0.06	256.4	11.4		16.1
10/8/15 10:20	574.58	26.73	166.50	6.94	Trinity 300	2.63	2.88	20.7	16.9	0.42	249.3	14.3		19.0
10/14/15 10:32	718.78	32.73	144.20	6.01	Trinity 300	2.45	2.75	27.9	27.1	1.19	231.9	21.5		26.2
10/21/15 12:15	888.50	39.81	169.72	7.07	Trinity 300	2.30	2.69	38.3	32.2	1.47	216.4	31.9		36.6
10/29/15 11:45	1080.00	47.78	191.50	7.98	Trinity 300	2.16	2.61	46.3	39.4	1.0	201.1	39.9		44.6
11/3/15 8:55	1197.17	52.67	117.17	4.88	Trinity 300	2.09	2.56	49.4	44.2	0.64	193.3	43.0	System Shutdown	47.7
Third Extended Pumping Test														
7/6/16 15:42	0.00	52.67			Trinity 300	3.16		1.3	0.0		285.6	0.0	System Restared	47.7
7/7/16 14:35	22.88	53.62	22.88	0.95	Trinity 300	3.15	3.22	1.6	0.0	0.35	285.3	0.3		48.1
7/12/16 14:53	143.18	58.63	120.30	5.01	Trinity 300	2.85	3.21	19.0	0.1	3.47	267.8	17.7		65.5
7/15/16 15:17	215.58	61.65	72.40	3.02	Trinity 300	2.66	3.19	34.4	0.5	5.11	252.0	33.1		80.9
7/21/16 15:45	360.05	67.67	144.47	6.02	Trinity 300	2.36	3.17	63.2	1.0	4.78	222.7	61.9	Bailed 2.5 gallons of product	109.6
7/25/16 13:46	454.07	71.59	94.02	3.92	Trinity 300	1.84	3.17	121.2	1.0	14.80	164.7	119.9	Recharge: 5 min Discharge: 30 sec	167.6
8/1/16 11:00	619.30	78.47	165.23	6.88	Trinity 300	1.41	3.16	171.0	1.3	7.23	114.6	169.7	Recharge: 10 min Discharge: 30 sec	217.4
8/9/16 9:45	810.05	86.42	190.75	5.10	Trinity 300	0.84	3.16	233.1	1.3	12.19	52.4	231.9	Tank Full *System shut off estimated from recovery rates. Recharge: 5 min Discharge: 30 sec	279.6
8/9/16 13:22	813.67	86.57			Trinity 300	3.22	3.22	0.0	0.0	0.00	286.9	231.9	Tank Pumpout	279.6
8/18/16 11:30	1027.80	95.49	214.13	8.92	Trinity 300	2.70	3.17	30.4	1.0	3.40	255.5	262.2		310.0
8/26/16 11:00	1219.30	103.47	191.50	7.98	Trinity 300	2.23		78.1	0.0	5.98	208.8	309.9		357.7
9/2/16 10:35	1386.88	110.45	167.58	6.98	Trinity 300	1.76	3.17	130.5	1.0	7.51	155.4	362.3		410.1
9/9/16 14:30	1558.80	117.62	171.92	7.16	Trinity 300	1.32	3.17	181.6	1.0	7.14	104.3	413.4		461.2
9/15/16 16:00	1704.30	123.68	145.50	6.06	Trinity 300	0.98	3.17	219.1	1.0	6.18	66.8	450.9	Isolate MW-32, RW-09 pump off. Attach MW-32 to RW-09 recovery tank. Recharge: 10 min Discharge: 30 sec	498.7
9/29/16 11:40	2035.97	137.50	331.67	13.82	Trinity 300 RW-09	1.96	2.91	93.5	14.8	5.81	178.6	531.1	MW-32 Accumulation from RW-9 Tank. 13.3 gallons or product in tank from RW-09.	578.9
10/6/16 10:12	2202.50	144.44	166.53	6.94	Trinity 300 RW-09	1.92	2.87	95.3	17.6	0.25	174.0	532.9	MW-32 Accumulation from RW-9 Tank. 13.3 gallons or product in tank from RW-09.	580.7
10/13/16 12:00	2372.30	151.51	169.80	7.07	Trinity 300 RW-09	1.87	2.85	99.6	19.1	0.61	168.2	537.2	MW-32 Accumulation from RW-9 Tank. 13.3 gallons or product in tank from RW-09.	584.9
10/18/16 11:30	2491.80	156.49	119.50	4.98	Trinity 300 RW-09	1.74	2.85	114.7	19.1	3.04	153.1	552.3	MW-32 Accumulation from RW-9 Tank. 13.3 gallons or product in tank from RW-09.	600.1
10/27/16 11:30	2707.80	165.49	216.25	9.01	Trinity 300 RW-09	1.71	2.81	115.1	22.2	0.05	149.6	552.7	MW-32 Accumulation from RW-9 Tank. 13.3 gallons or product in tank from RW-09.	600.5
11/8/16 7:45	2992.05	177.34	284.00	11.83	Trinity 300 RW-09	1.59	2.76	125.1	26.3	0.84	135.5	562.7	MW-32 Accumulation from RW-9 Tank. 13.3 gallons or product in tank from RW-09.	610.5

Table 9
 MW-32 Extended Duration LNAPL Recovery Test
 Former Amoco Terminal
 Superior, Wisconsin

Date	Elapsed Run Time (Hours)	Elapsed Run Time (Days)	Period* Hours	Period* Days	Tank	DTP ₁ (ft)	DTW ₁ (ft)	Product in Portable Tank (Gallons)	Water in Portable Tank (Gallons)	Period Recovery Rate (Gallons / Day)	Remaining Tank Volume (Gallons)	Total Product (Gallons)	Notes	Cumulative Product Recovery to Date
Fourth Extended Pumping Test														
5/3/17 11:20	0.00	177.34			Trinity 300	3.20		0.25	0.0		286.6	0.00	System Restarted	610.46
5/4/17 12:00	24.67	178.36	24.67	1.03	Trinity 300	3.02	3.19	7.28	0.5	6.84	279.1	7.03	System @ 30min Recharge, 30sec Discharge, Pump @ 4" W.C.	617.48
5/8/17 10:55	119.58	182.32	94.92	3.95	Trinity 300	2.87	3.21	17.54	0.1	2.60	269.2	17.29	System @ 15min Recharge, 30sec Discharge, Pump @ 3" W.C.	627.75
5/18/17 14:00	362.67	192.45	243.08	10.13	Trinity 300	2.31	3.19	68.99	0.5	5.08	217.4	68.74	System @ 15min Recharge, 30sec Discharge, Pump @ 3" W.C.	679.20
5/22/17 11:00	455.67	196.32	93.00	3.88	Trinity 300	2.13	3.19	88.61	0.5	5.06	197.8	88.36	System @ 15min Recharge, 30sec Discharge, Pump @ 3" W.C.	698.81
5/25/17 13:15	529.92	199.42	74.25	3.09	Trinity 300	1.98	3.19	105.55	0.5	5.48	180.9	105.31	System @ 15min Recharge, 30sec Discharge, Pump @ 2.5" W.C.	715.76
5/31/17 16:30	677.17	205.55	147.25	6.14	Trinity 300	1.80	3.18	126.10	0.7	3.35	160.1	125.85	System @ 15min Recharge, 30sec Discharge, Pump @ 2.5" W.C.	736.31
6/14/17 14:20	1011.00	219.46	333.83	13.91	Trinity 300	1.19	3.18	196.55	0.7	5.06	89.6	196.30	System @ 15min Recharge, 30sec Discharge, Pump @ 5" W.C.	806.76
6/21/17 15:57	1180.62	226.53	169.62	7.07	Trinity 300	0.84	3.18	233.73	0.7	5.26	52.4	233.48	System Switched to TANK #2	843.93
6/21/17 12:00	0.00	226.53			Trinity 300								TANK #2 empty @ start	843.93
6/21/17 15:57	3.95	226.53	3.95	0.16	Trinity 300	3.18		0.70	0.0	4.27	286.2	0.70	System @ 15min Recharge, 30sec Discharge, Pump @ 5.5" W.C.	844.63
6/29/17 16:25	196.42	234.55	192.47	8.02	Trinity 300	3.12		2.76	0.0	0.26	284.1	2.76	System @ 15min Recharge, 30sec Discharge, Pump @ 5.5" W.C.	846.69

*Period: The running time between two gauging events. Usually this is the period between the last gauging of the previous day and the last gauging of the current day.

Figures

Figure 1 - Area Properties Map

Figure 2 - Terminal Site Map with BRRTs Numbers

Figure 3 - Amoco Barge Dock, Manifold & AST Area Wells

Figure 4 - Groundwater Contour Map - June 2017 - Shallow Wells (Barge Dock)

Figure 5 - Groundwater Contour Map - June 2017 - Deep Wells (Barge Dock)

Figure 6 - Dissolved Phase Benzene Concentrations - June 2017 - Shallow Wells (Barge Dock)

Figure 7 - Dissolved Phase Benzene Concentrations - June 2017 - Deep Wells (Barge Dock)

Figure 8 - LNAPL Extent Map - June 2017 (Barge Dock)

Figure 9 - LNAPL Extent Map - June 2017 (Terminal)

Figure 10a - Barge Dock Phase II System - LNAPL Recovery Graph

Figure 10b - Barge Dock Phase II System - LNAPL Recovery Graph

Figure 10c - Barge Dock Phase II System - LNAPL Recovery Graph

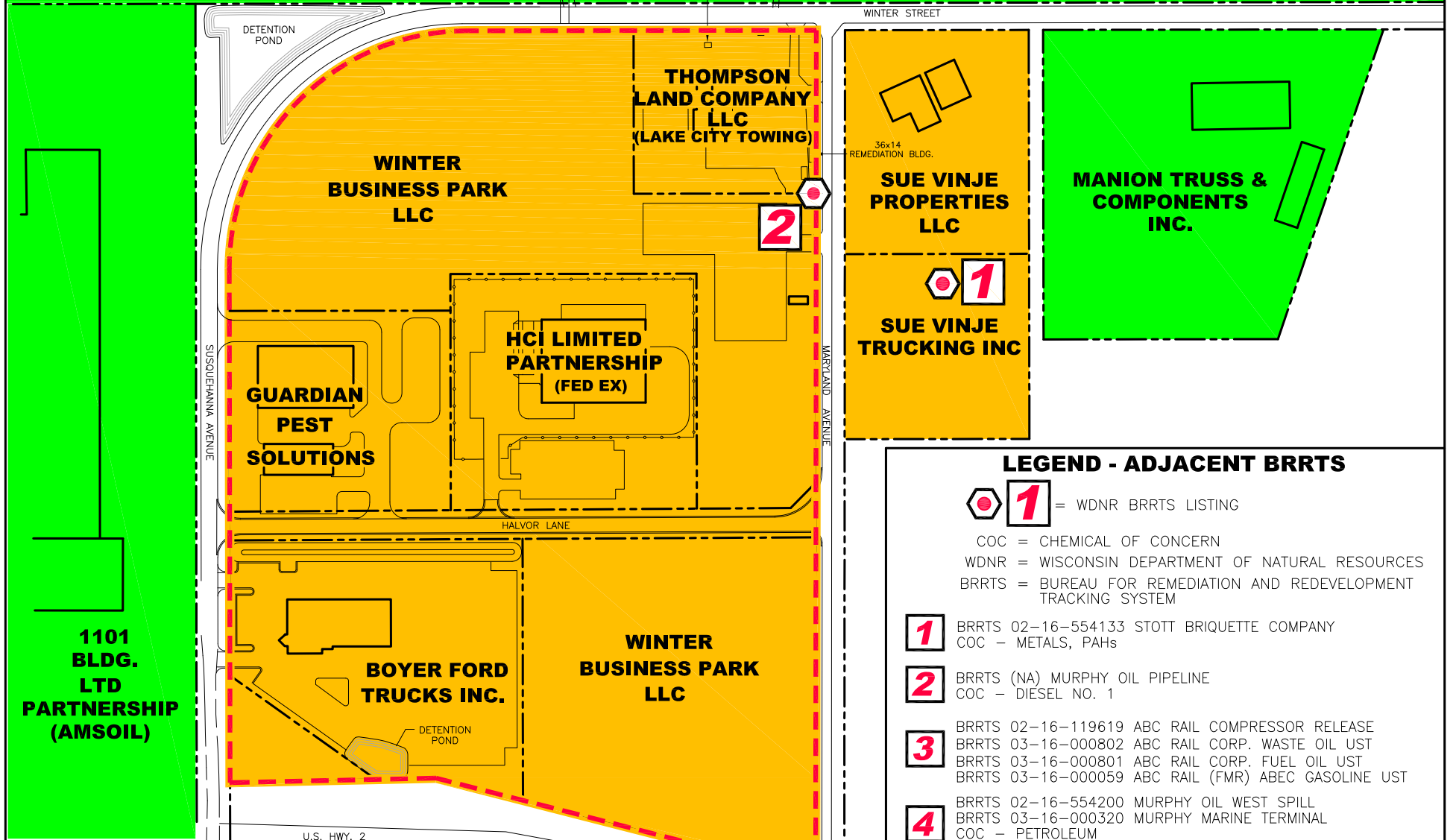
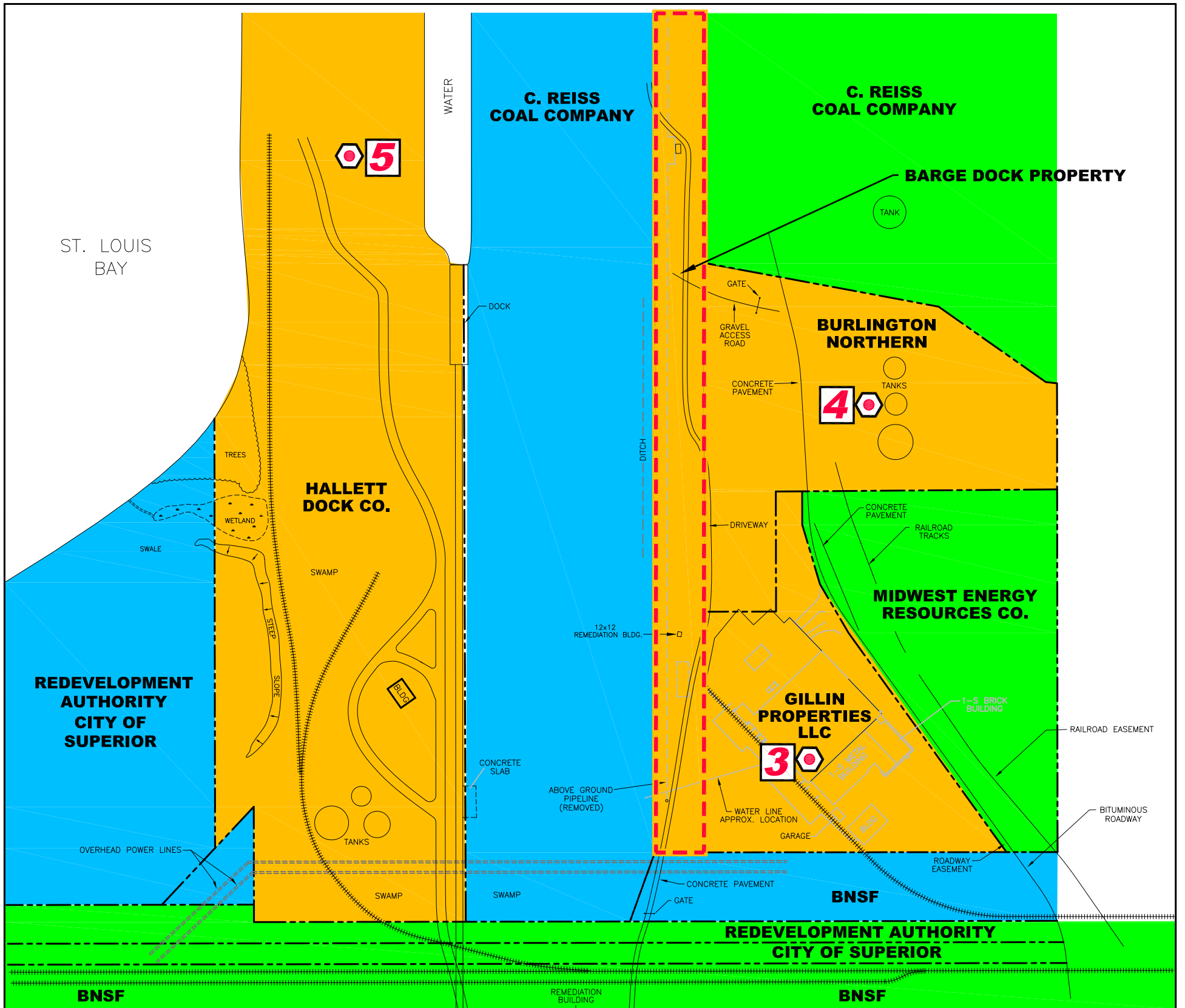
Figure 11 - MWAST-4 Extended Duration LNAPL Recovery Graph

Figure 12 - Portable MW-32 Pump - LNAPL Recovery Graph

Figure 13a - Northeast Terminal LNAPL Recovery - Percentage and Gallons

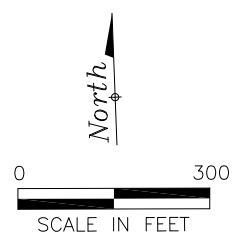
Figure 13b - North Barge LNAPL Recovery - Percentage and Gallons

Figure 13c - Barge Dock Manifest & AST Area LNAPL Recovery - Percentage and Gallons



LEGEND - COLORS

	ACTIVE COMMERCIAL (NO INCIDENT)
	ACTIVE COMMERCIAL (INCIDENT)
	VACANT
	SUBJECT SITE



LEGEND - ADJACENT BRRTS

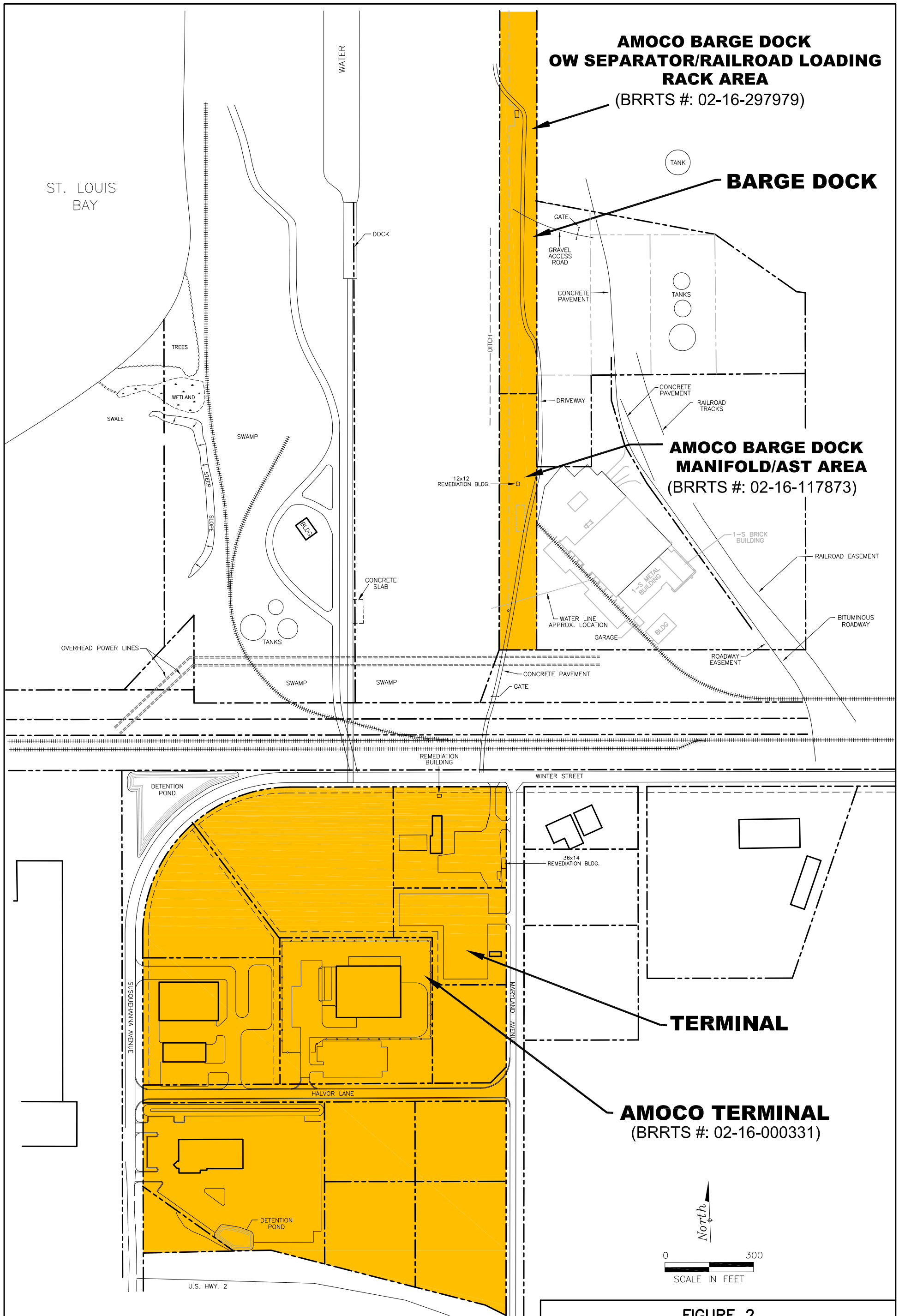
= WDNR BRRTS LISTING

COC = CHEMICAL OF CONCERN
 WDNR = WISCONSIN DEPARTMENT OF NATURAL RESOURCES
 BRRTS = BUREAU FOR REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM

1	BRRTS 02-16-554133 STOTT BRIQUETTE COMPANY COC - METALS, PAHs
2	BRRTS (NA) MURPHY OIL PIPELINE COC - DIESEL NO. 1
3	BRRTS 02-16-119619 ABC RAIL COMPRESSOR RELEASE BRRTS 03-16-000802 ABC RAIL CORP. WASTE OIL UST BRRTS 03-16-000801 ABC RAIL CORP. FUEL OIL UST BRRTS 03-16-000059 ABC RAIL (FMR) ABEC GASOLINE UST
4	BRRTS 02-16-554200 MURPHY OIL WEST SPILL BRRTS 03-16-000320 MURPHY MARINE TERMINAL COC - PETROLEUM BRRTS 03-16-000721 MURPHY OIL TANK #2 - COC GASOLINE
5	BRRTS 02-16-544665 HALLETT DOCK #8 - COC METALS, PAHs

**FIGURE 1
AREA PROPERTIES MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 07/06/17	REVIEWED BY	FILE NAME 2017-Area

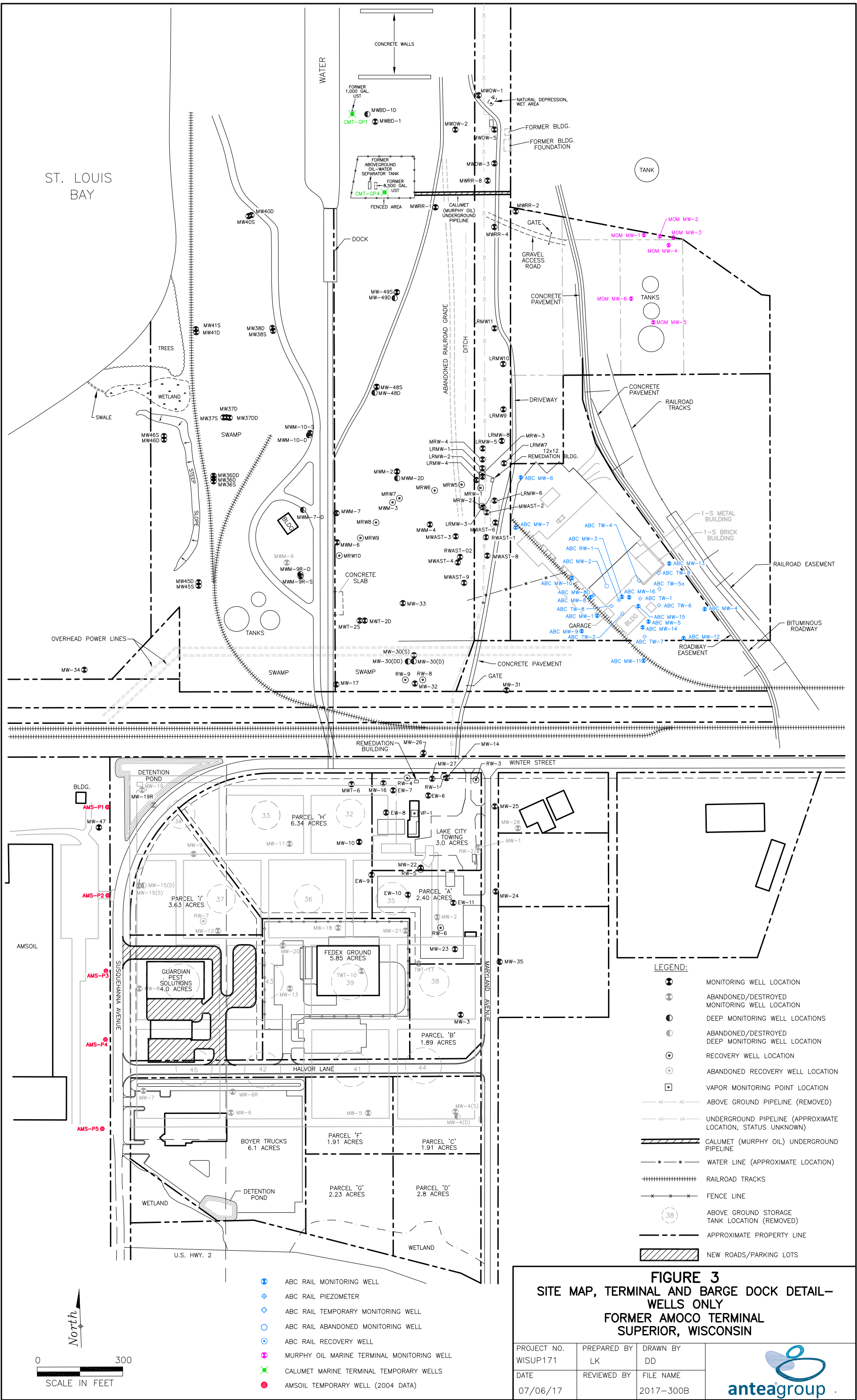


**FIGURE 2
SITE MAP**

**FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 07/06/17	REVIEWED BY	FILE NAME 2017-Base





ST. LOUIS BAY


North

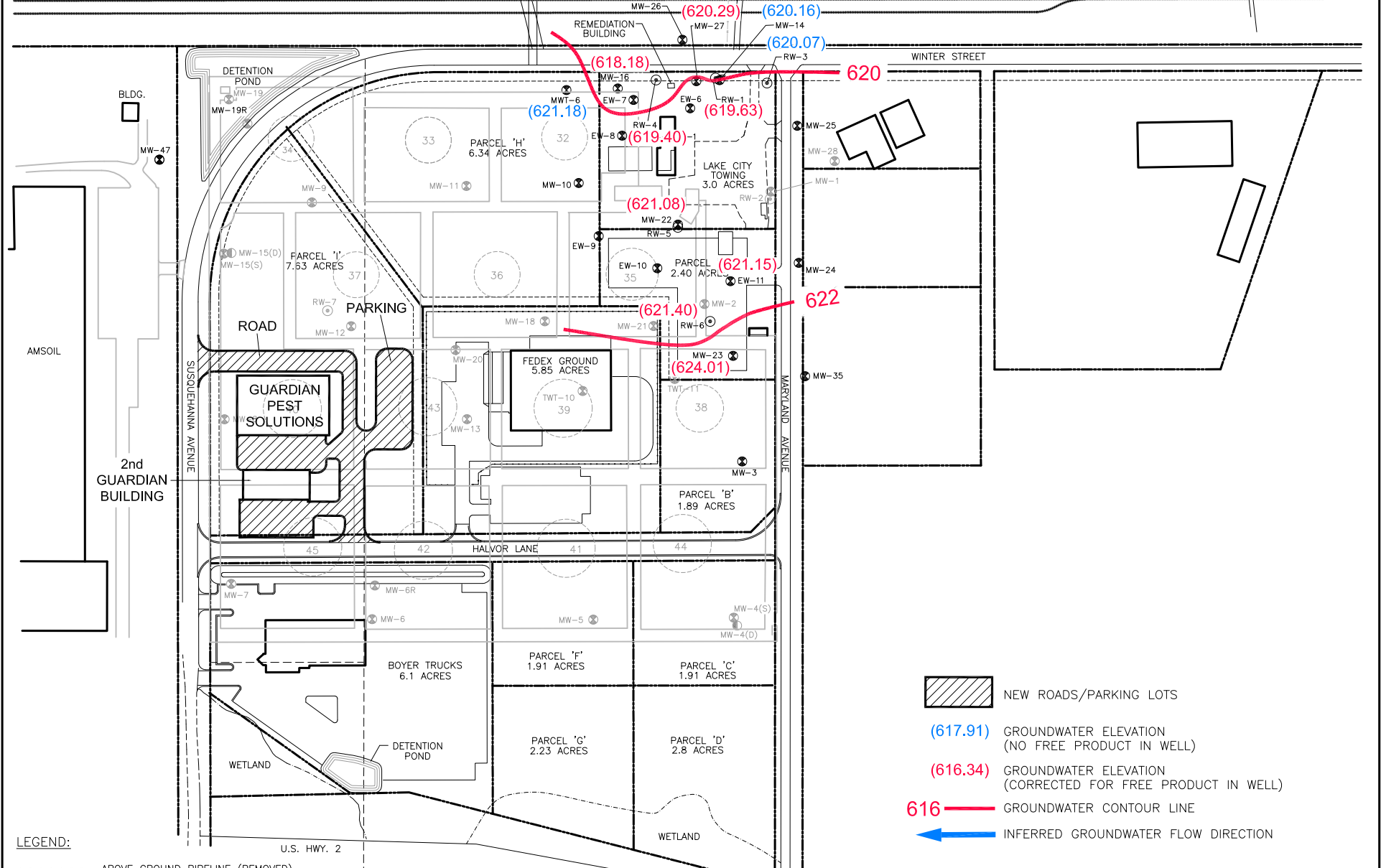
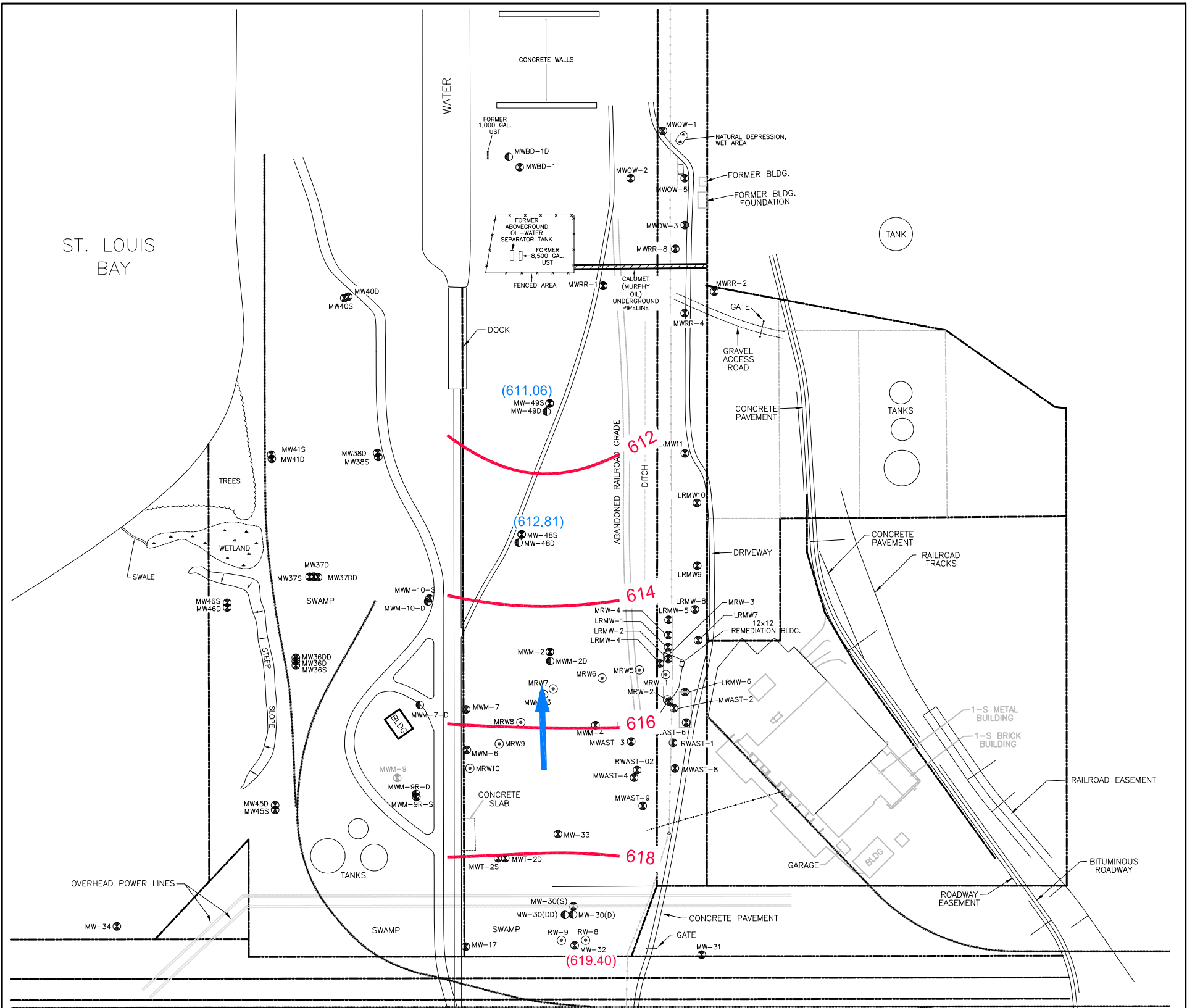
0 300
SCALE IN FEET

- ⊕ ABC RAIL MONITORING WELL
- ⊕ ABC RAIL PIEZOMETER
- ⊕ ABC RAIL TEMPORARY MONITORING WELL
- ⊕ ABC RAIL ABANDONED MONITORING WELL
- ⊕ ABC RAIL RECOVERY WELL
- ⊕ MURPHY OIL MARINE TERMINAL MONITORING WELL
- ⊕ CALUMET MARINE TERMINAL TEMPORARY WELLS
- ⊕ AMSOIL TEMPORARY WELL (2004 DATA)

- LEGEND:**
- ⊕ MONITORING WELL LOCATION
 - ⊕ ABANDONED/DESTROYED MONITORING WELL LOCATION
 - ⊕ DEEP MONITORING WELL LOCATIONS
 - ⊕ ABANDONED/DESTROYED DEEP MONITORING WELL LOCATION
 - ⊕ RECOVERY WELL LOCATION
 - ⊕ ABANDONED RECOVERY WELL LOCATION
 - ⊕ VAPOR MONITORING POINT LOCATION
 - AG — AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - w — w — WATER LINE (APPROXIMATE LOCATION)
 - ⊕ RAILROAD TRACKS
 - x — x — FENCE LINE
 - ⊕ ABOVE GROUND STORAGE TANK LOCATION (REMOVED)
 - — — APPROXIMATE PROPERTY LINE
 - ▨ NEW ROADS/PARKING LOTS

FIGURE 3
SITE MAP, TERMINAL AND BARGE DOCK DETAIL—
WELLS ONLY
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD	
DATE 07/06/17	REVIEWED BY	FILE NAME 2017-300B	



- LEGEND:**
- ABOVE GROUND PIPELINE (REMOVED)
 - UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - WATER LINE (APPROXIMATE LOCATION)
 - RAILROAD TRACKS
 - FENCE LINE
 - ABOVE GROUND STORAGE TANK LOCATION (REMOVED)
 - APPROXIMATE PROPERTY LINE
 - ⊗ MONITORING WELL LOCATION
 - ⊗ ABANDONED/DESTROYED MONITORING WELL LOCATION
 - ⊙ DEEP MONITORING WELL LOCATIONS
 - ⊙ ABANDONED/DESTROYED DEEP MONITORING WELL LOCATION
 - ⊙ RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - ⊙ VAPOR MONITORING POINT LOCATION

- ▨ NEW ROADS/PARKING LOTS
- (617.91) GROUNDWATER ELEVATION (NO FREE PRODUCT IN WELL)
- (616.34) GROUNDWATER ELEVATION (CORRECTED FOR FREE PRODUCT IN WELL)
- 616 GROUNDWATER CONTOUR LINE
- ← INFERRED GROUNDWATER FLOW DIRECTION

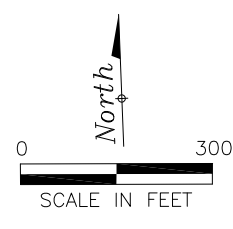
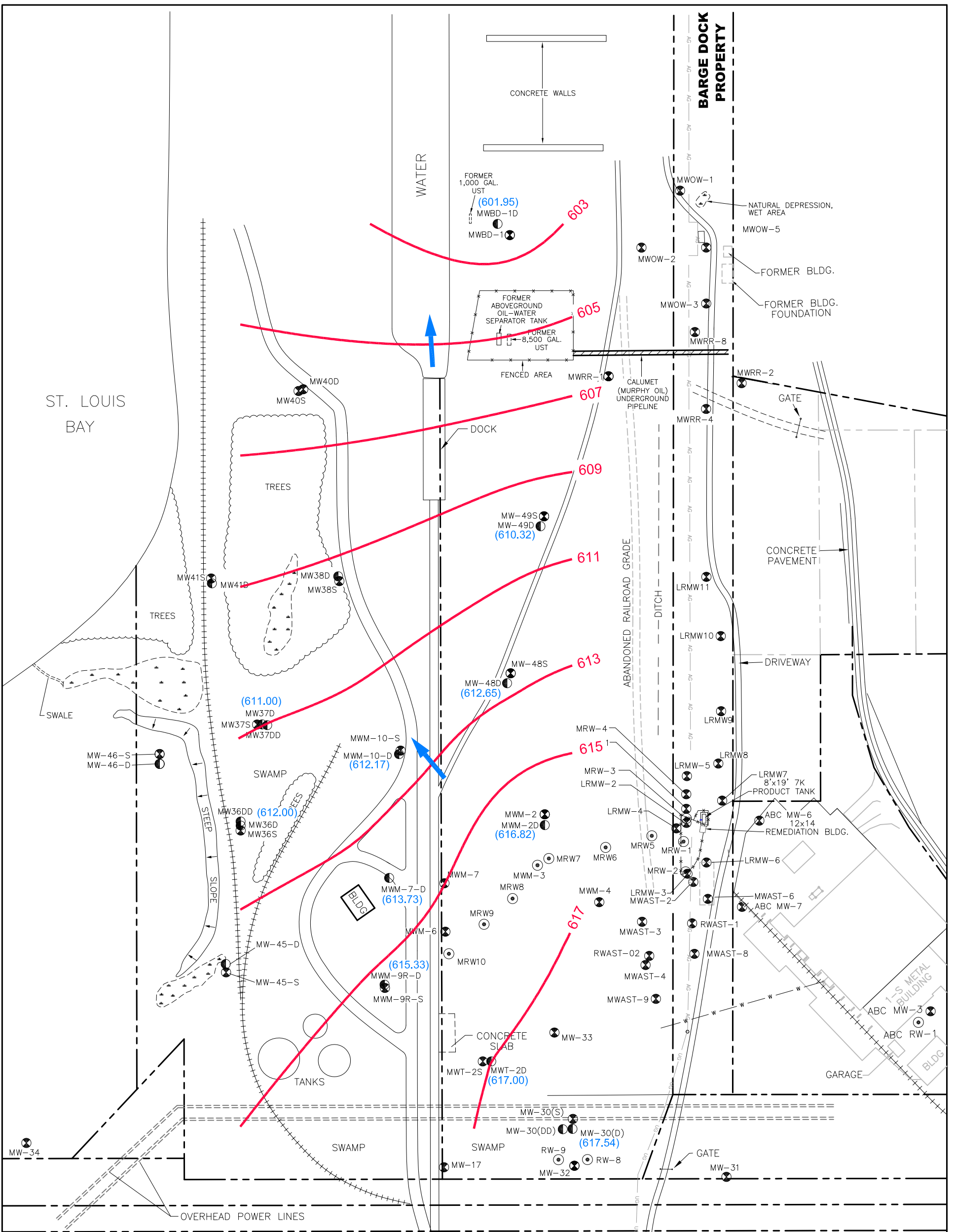


FIGURE 4
GROUNDWATER CONTOUR MAP – JUNE 14, 2017
SHALLOW WELLS
(TERMINAL & BARGE DOCK WELLS)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 06/29/17	REVIEWED BY	FILE NAME T&BD-0616-GW



- LEGEND:**
- MONITORING WELL LOCATION
 - DEEP MONITORING WELL LOCATIONS
 - RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ==== GRAVEL ACCESS ROAD
 - ++++ RAILROAD TRACKS
 - - - - FENCE LINE
 - - - - APPROXIMATE PROPERTY LINE

(617.00) GROUNDWATER ELEVATION (NO LNAPL IN WELL)

610 — GROUNDWATER CONTOUR LINE

← INFERRED GROUNDWATER FLOW DIRECTION

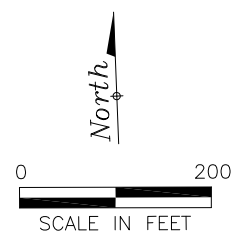

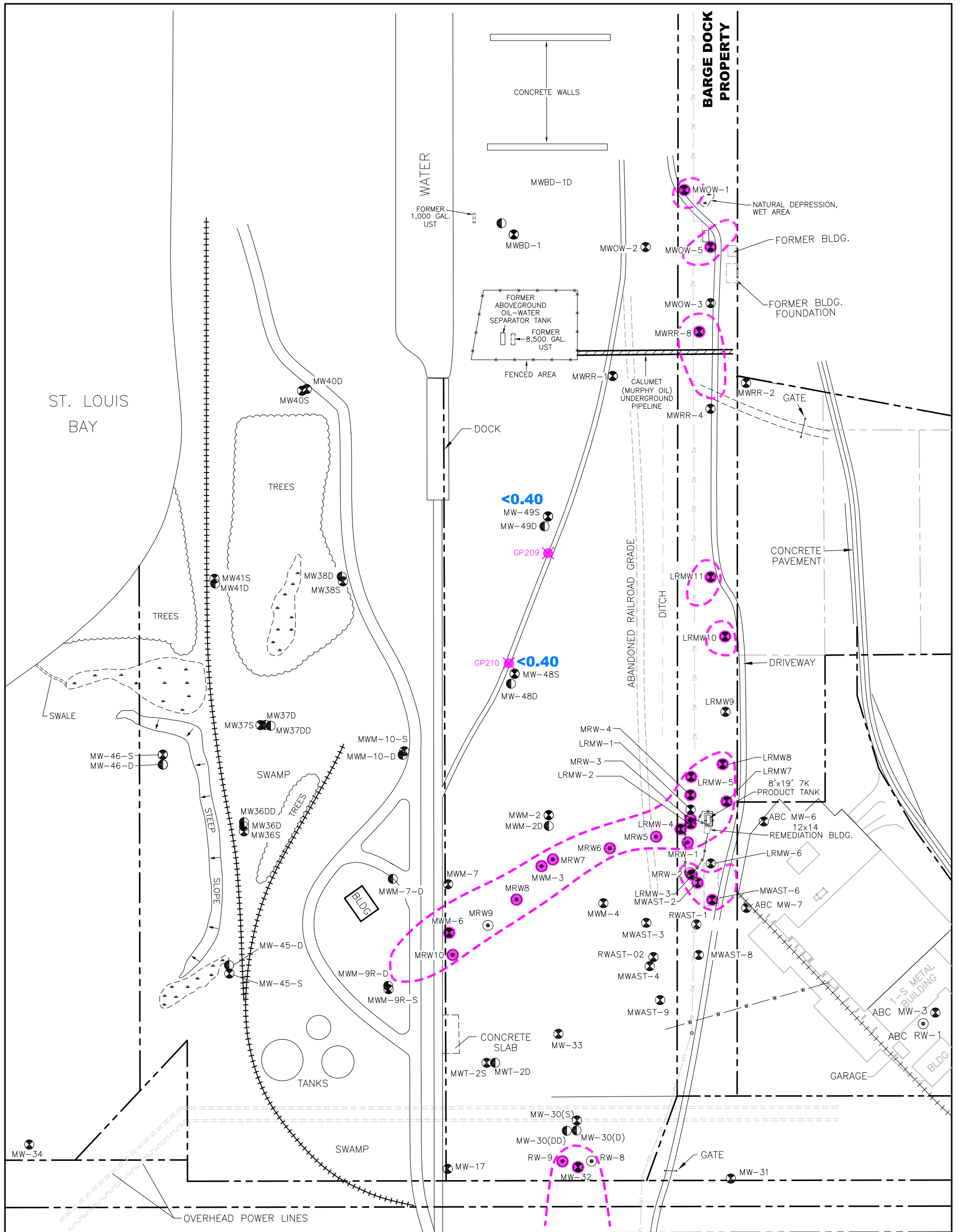


FIGURE 5
GROUNDWATER CONTOUR MAP – JUNE 14, 2017
DEEP WELLS (BARGE DOCK)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 06/29/17	REVIEWED BY	FILE NAME BD-0617-GW





LEGEND:

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATIONS
- GROUND PROBE LOCATION (2011 DATA)
- RECOVERY WELL LOCATION
- NATURAL DEPRESSION, WET AREA
- ABOVE GROUND PIPELINE (REMOVED)
- UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
- CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
- WATER LINE (APPROXIMATE LOCATION)
- GRAVEL ACCESS ROAD
- RAILROAD TRACKS
- FENCE LINE
- APPROXIMATE PROPERTY LINE

POINTS WITH LNAPL

LNAPL EXTENT (INFERRED FROM LIF & WELL GAUGING DATA)

<math><0.40</math> BENZENE CONCENTRATION $\mu\text{g/L}$ (JUNE 2017) (ES = $5\ \mu\text{g/L}$)

$5\ \mu\text{g/L}$ HORIZONTAL EXTENT OF CONTAMINATION EXCEEDING THE NR 140 ES

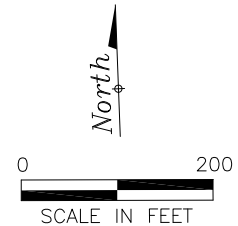
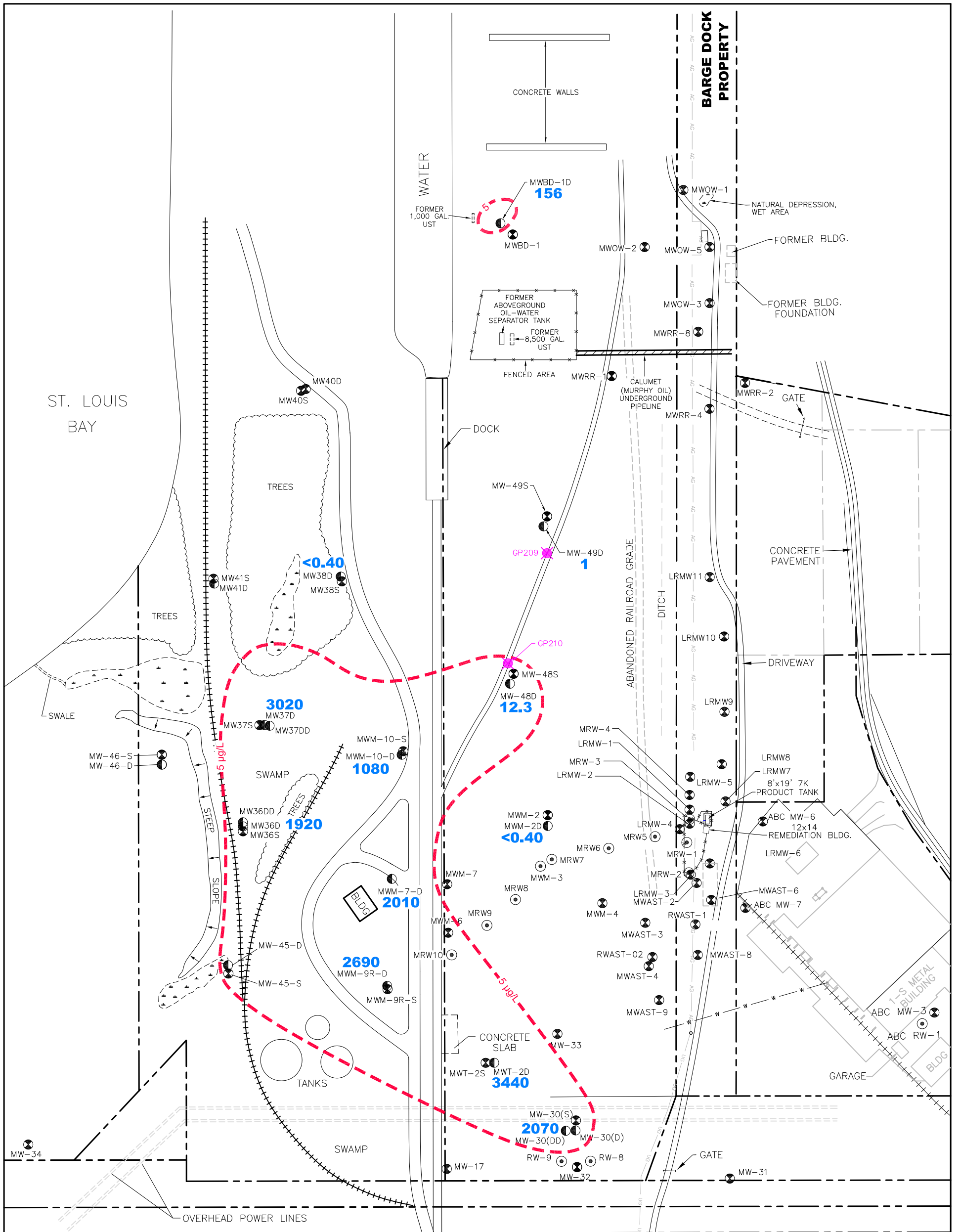


FIGURE 6
DISSOLVED PHASE BENZENE CONCENTRATIONS—
JUNE 2017
BARGE DOCK (SHALLOW WELLS)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 06/29/17	REVIEWED BY	FILE NAME BD-0617-BENZ





- LEGEND:
- ⊗ MONITORING WELL LOCATION
 - ⊙ DEEP MONITORING WELL LOCATIONS
 - ⊕ GROUND PROBE LOCATION (2011 DATA)
 - ⊗ RECOVERY WELL LOCATION
 - ⊖ NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - W — WATER LINE (APPROXIMATE LOCATION)
 - ==== GRAVEL ACCESS ROAD
 - ++++ RAILROAD TRACKS
 - FENCE LINE
 - APPROXIMATE PROPERTY LINE

1080 BENZENE CONCENTRATION $\mu\text{g/L}$
(JUNE 2017)
(ES = 5 $\mu\text{g/L}$)

5 $\mu\text{g/L}$ INFERRED HORIZONTAL EXTENT OF BENZENE CONTAMINATION EXCEEDING THE NR 140 ES

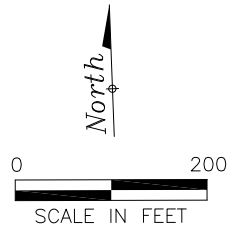
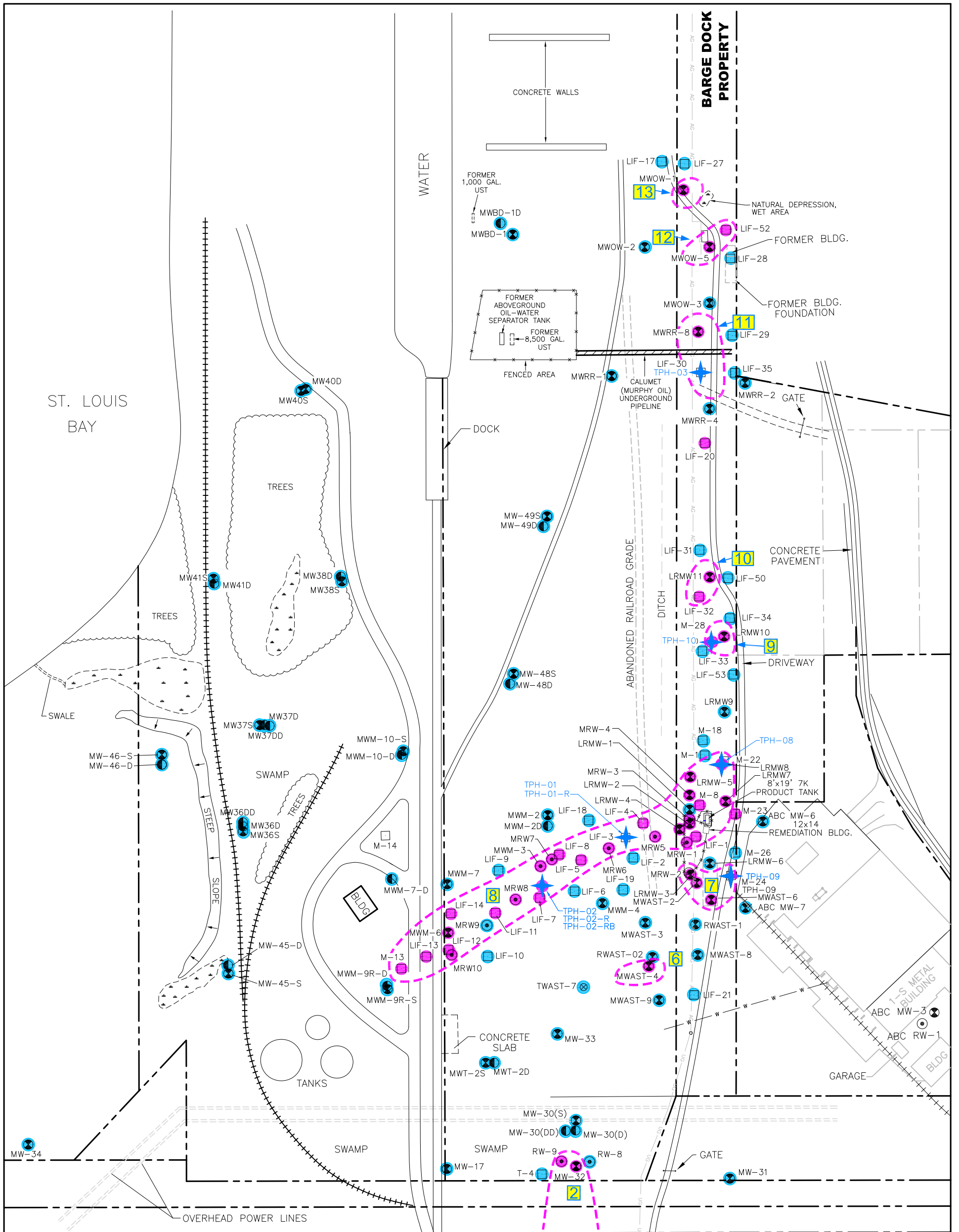


FIGURE 7
DISSOLVED PHASE BENZENE CONCENTRATIONS—
BARGE DOCK (DEEP WELLS)
JUNE 2017
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 08/03/17	REVIEWED BY	FILE NAME BD-0617-BENZ



- LEGEND:**
- ⊗ MONITORING WELL LOCATION
 - ⊗ TEMPORARY MONITORING WELL LOCATION (REMOVED)
 - DEEP MONITORING WELL LOCATIONS
 - ⊙ RECOVERY WELL LOCATION
 - ⊙ ABANDONED RECOVERY WELL LOCATION
 - ★ TPH BORING LOCATION
 - ◇ SVE TOTAL FLUIDS RECOVERY WELL LOCATION
 - CPT-LIF BORING LOCATION
 - NATURAL DEPRESSION, WET AREA
 - AG — ABOVE GROUND PIPELINE (REMOVED)
 - UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
 - CALUMET (MURPHY OIL) UNDERGROUND PIPELINE
 - w — WATER LINE (APPROXIMATE LOCATION)
 - ===== GRAVEL ACCESS ROAD
 - +++++ RAILROAD TRACKS
 - - - - - FENCE LINE
 - - - - - APPROXIMATE PROPERTY LINE
- 8 LNAPL EXTENT (INFERRED FROM LIF & WELL GAUGING DATA) (PLUME I.D. REFERENCED IN TEXT)
- POINTS WITH LNAPL
● NO LNAPL

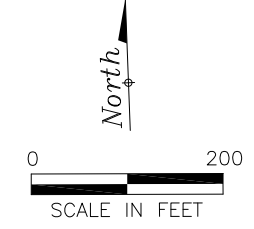
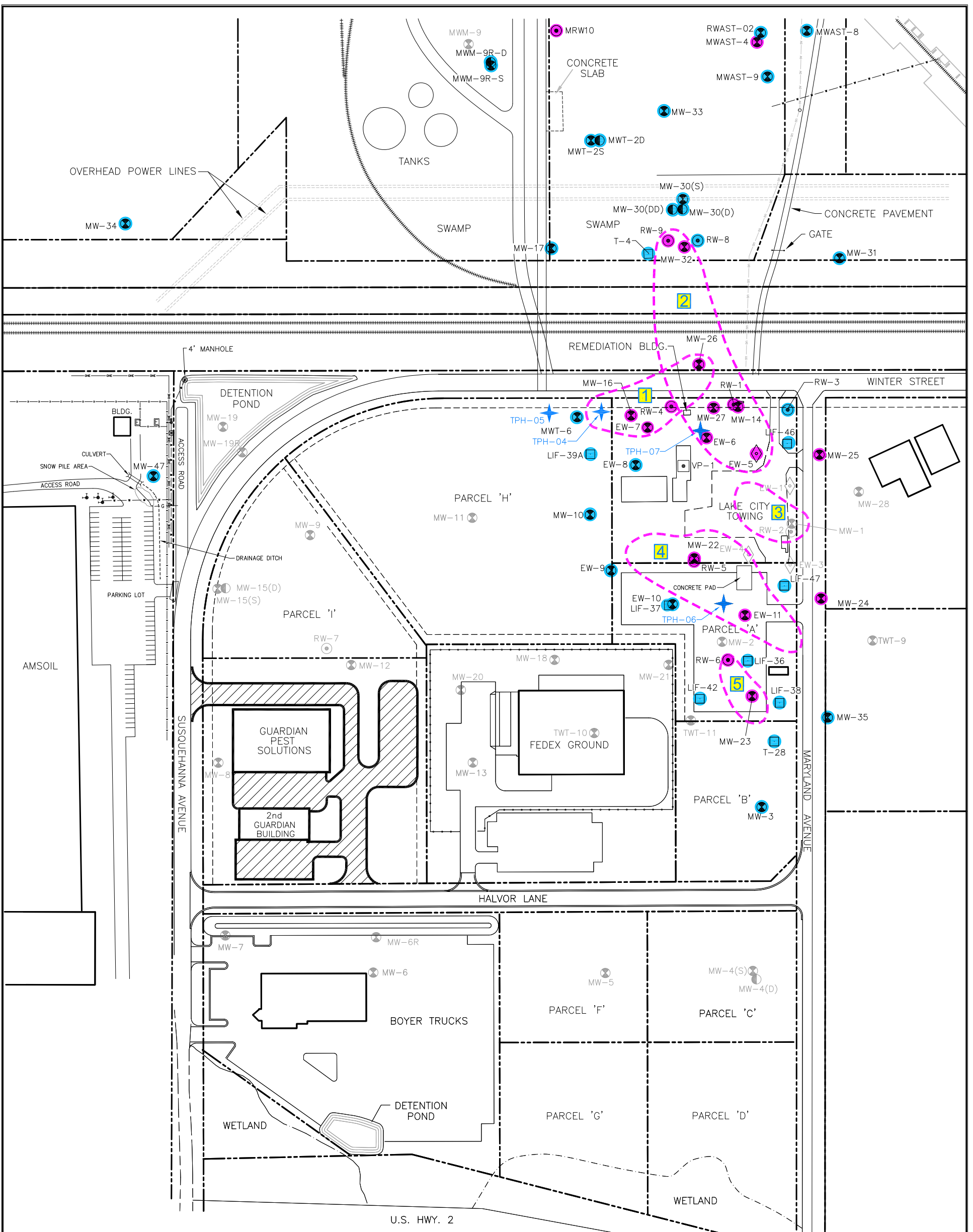


FIGURE 8
LNAPL EXTENT MAP – JUNE 2017
(BARGE DOCK)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 07/06/17	REVIEWED BY	FILE NAME BD-0617-LNAPL





LEGEND:

- ⊗ MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATIONS
- ABANDONED DEEP MONITORING WELL LOCATION
- ⊙ RECOVERY WELL LOCATION
- ⊙ ABANDONED RECOVERY WELL LOCATION
- ◇ SVE TOTAL FLUIDS RECOVERY WELL LOCATION
- ◇ ABANDONED SVE TOTAL FLUIDS RECOVERY WELL LOCATION
- ★ LIF-TPH BORING LOCATION
- CPT-LIF BORING LOCATION
- ⊠ VAPOR MONITORING POINT LOCATION
- ⊠ MANHOLE
- ⊠ FIRE HYDRANT
- ⊠ ELECTRICAL BOX
- ▨ NEW ROADS/PARKING LOTS
- OHE — OVERHEAD ELECTRIC LINE
- ⋯ RAILROAD TRACKS
- x-x-x- FENCE LINE
- - - - - APPROXIMATE PROPERTY LINE
- AG — ABOVE GROUND PIPELINE (REMOVED)
- UG — UNDERGROUND PIPELINE (APPROXIMATE LOCATION, STATUS UNKNOWN)
- W — WATER LINE (APPROXIMATE LOCATION)
- G — NATURAL GAS LINE (APPROXIMATE LOCATION)
- 1 LNAPL EXTENT (PLUME I.D. REFERENCED IN TEXT)
- POINTS WITH LNAPL
- LOW/NO LNAPL

NOTE:
PLUME 3 IS INFERRED, BASED ON HISTORICAL DATA

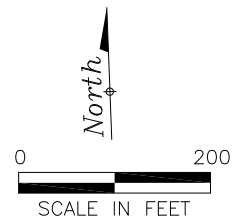


FIGURE 9
LNAPL EXTENT MAP – JUNE 2017
(TERMINAL)
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 07/06/17	REVIEWED BY	FILE NAME TERM-0617-LNAPL



Figure 10a
Barge Dock Phase II System
LNAPL Recovery
 Former Amoco Terminal
 Superior, WI

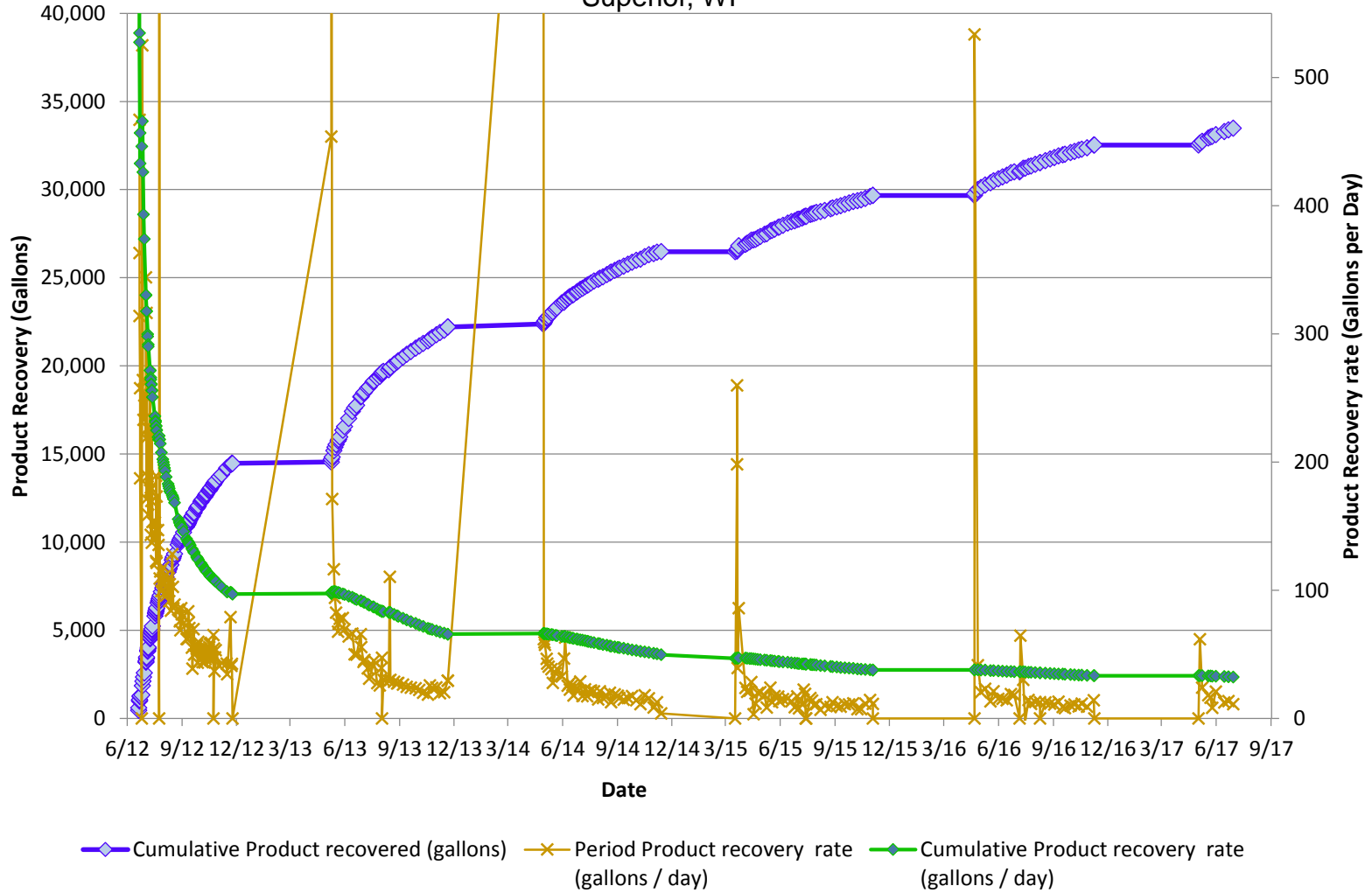
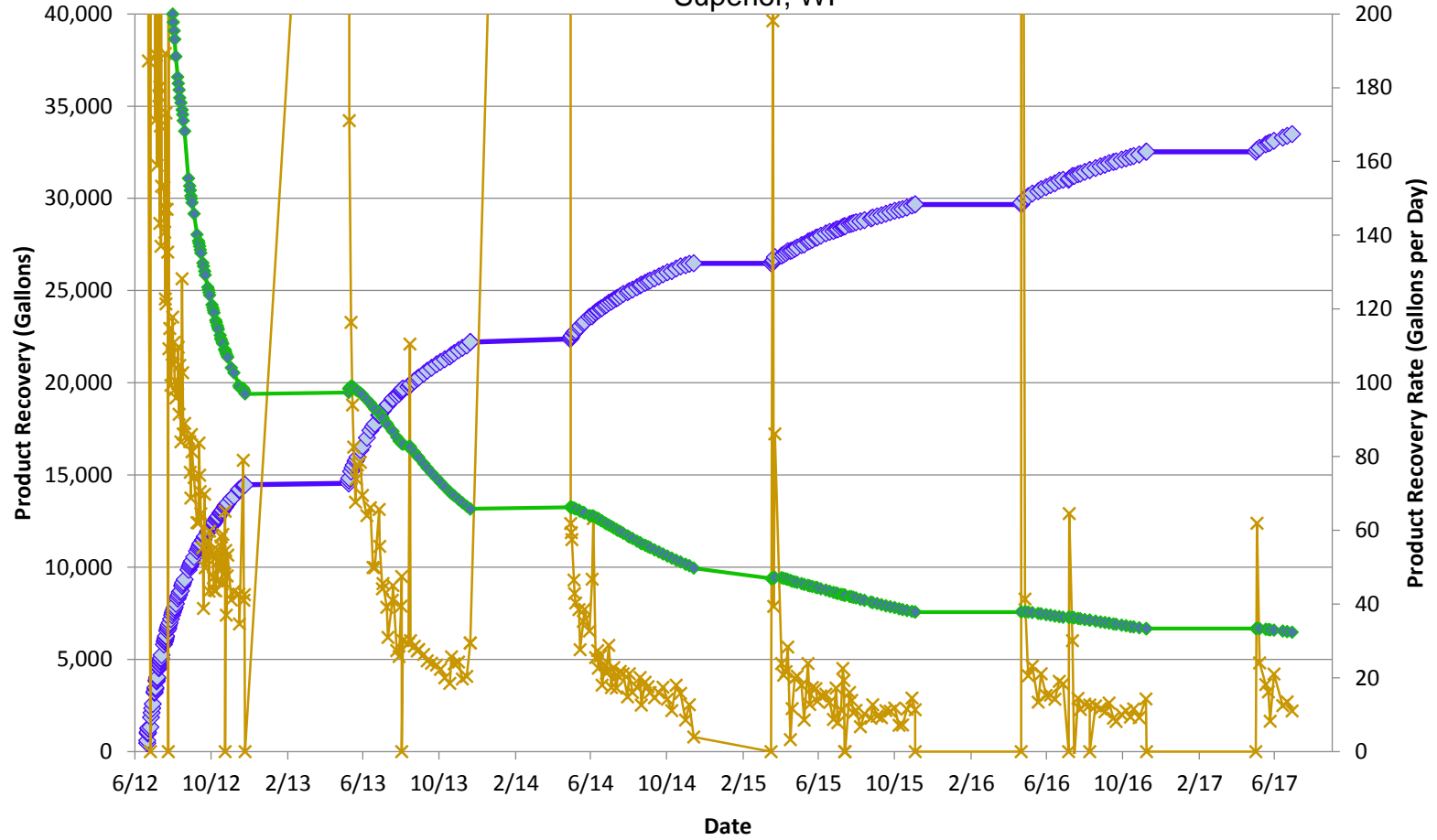
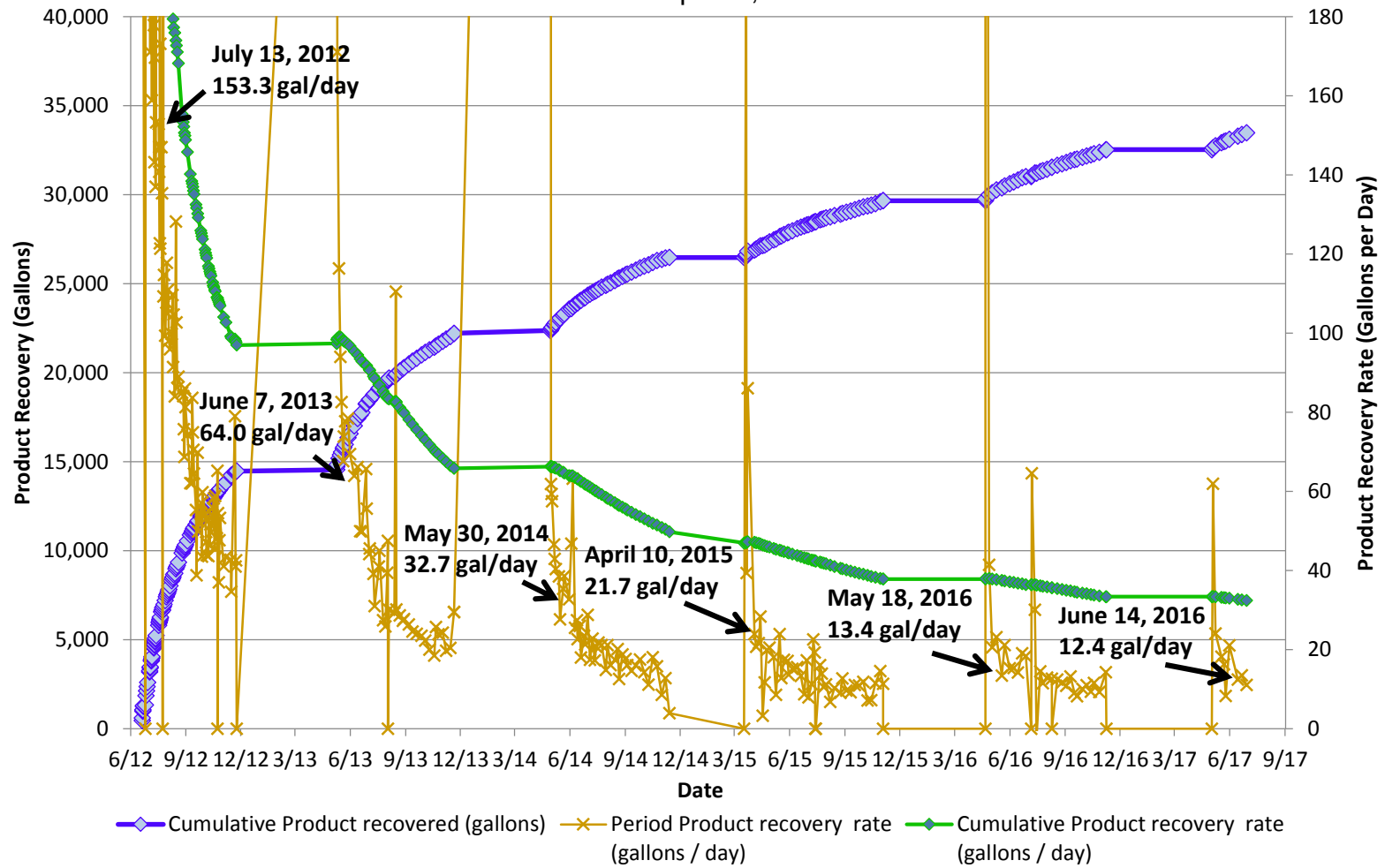


Figure 10b
Barge Dock Phase II System
LNAPL Recovery Graph
 Former Amoco Terminal
 Superior, WI



◆ Cumulative Product recovered (gallons)
 ✕ Period Product recovery rate (gallons / day)
 ◆ Cumulative Product recovery rate (gallons / day)

Figure 10c
Barge Dock Phase II System
LNAPL Recovery Graph
 Former Amoco Terminal
 Superior, WI



Highlighted dates mark LNAPL recovery rate 4 weeks after seasonal system startup

Figure 11
MWAST-4 LNAPL Recovery
Former Amoco Terminal
Superior, WI

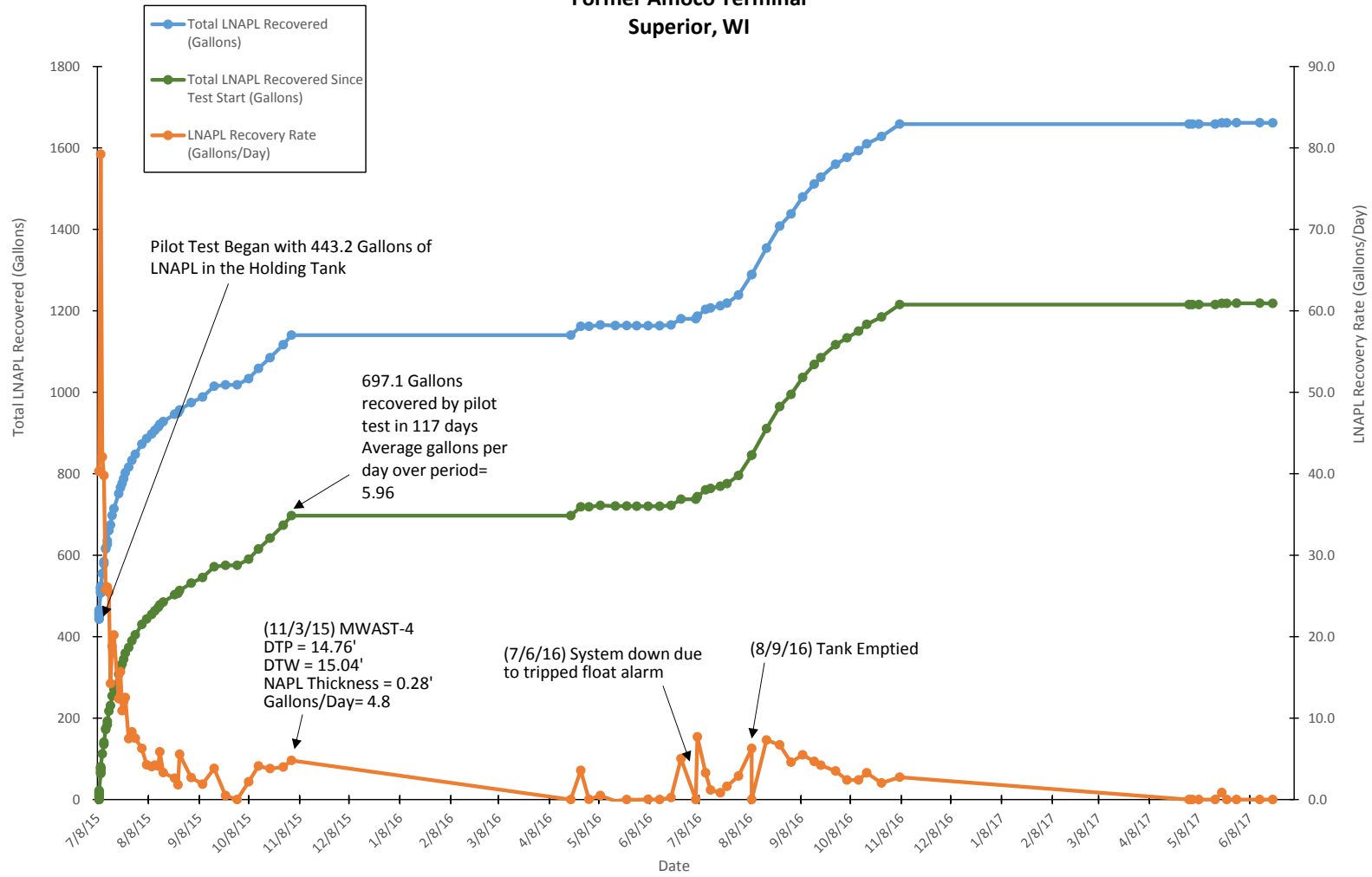


Figure 12
MW -32 Mobile Skimming Pilot Test 4
Former Amoco Terminal
Superior, WI

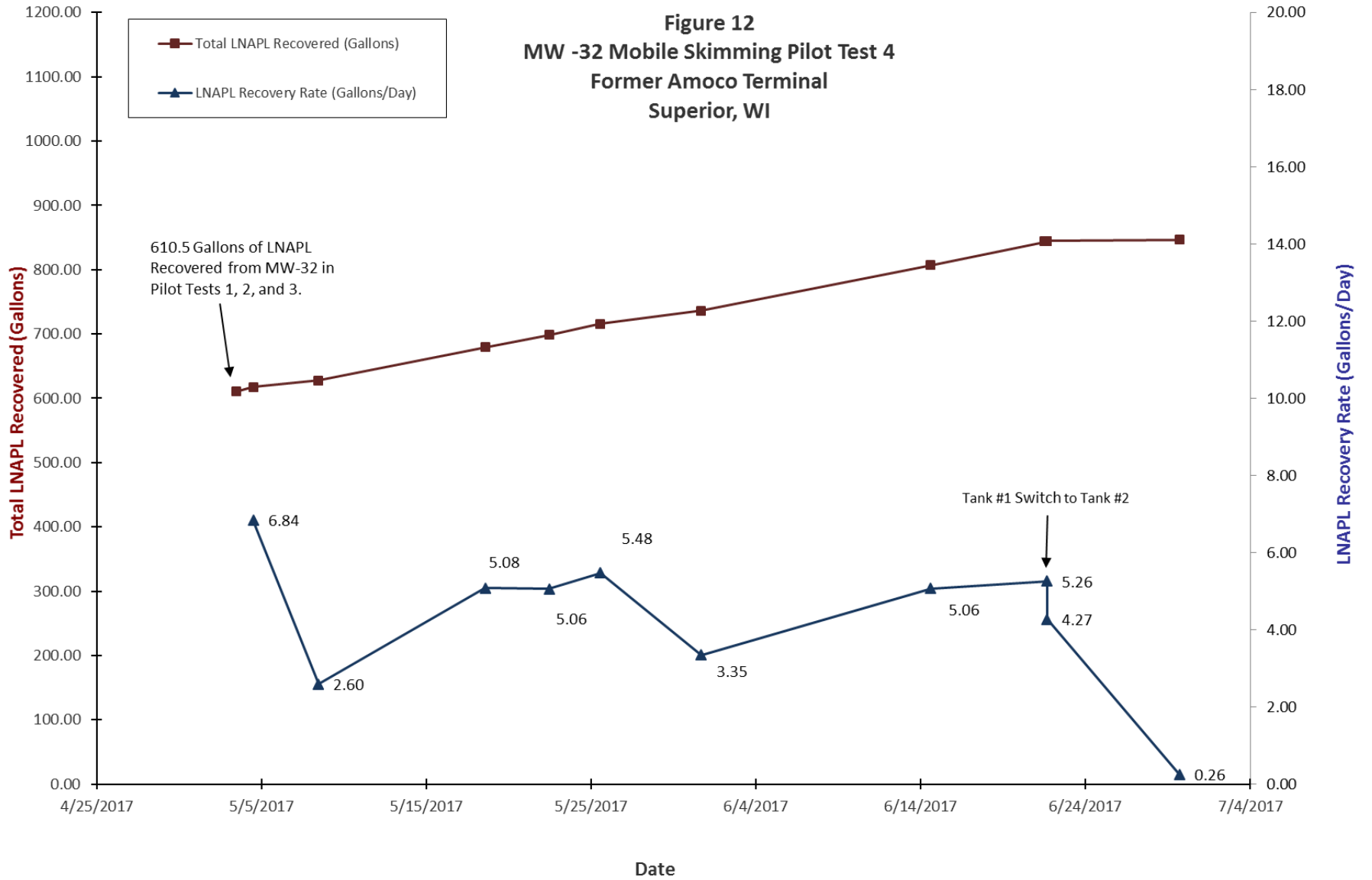


Figure 13a

Total LNAPL Recovered in Gallons from Northeast Terminal,
BRRTs #02-16-000331

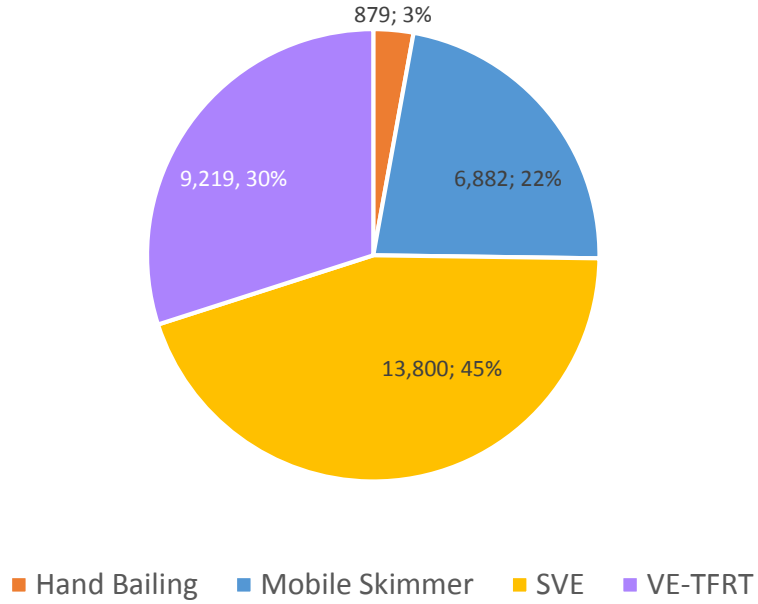


Figure 13b

Total LNAPL Recovery in Gallons at North Barge,
BRRTs #02-16-297979

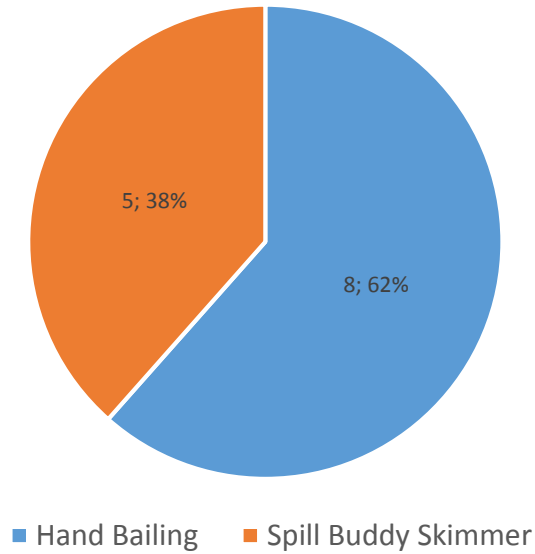
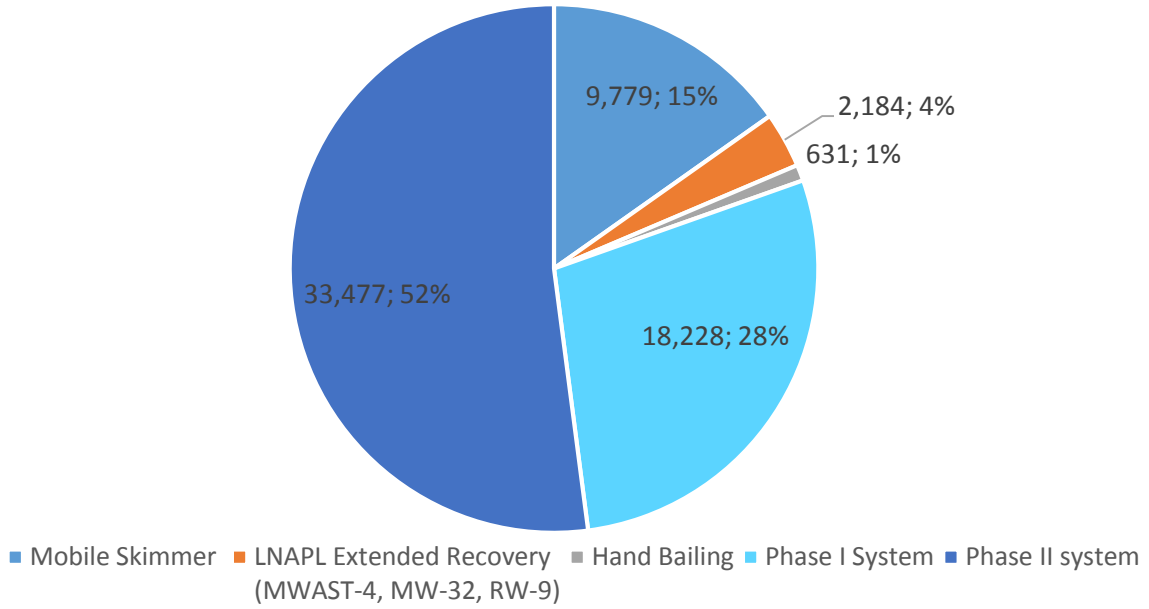


Figure 13c

Total LNAPL Collected in Gallons from Barge Dock Manifold & AST Area, BRRTs #02-16-117873



*2017 Jan-June Progress Report
Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin
Antea Group Project No. WISUP171*



Appendix A

Groundwater Analytical Laboratory Reports

June 20, 2017

Jonathan Zimdars
Antea Group - MN
5910 Rice Creek Parkway
Saint Paul, MN 55126

RE: Project: WISUP171 SUPERIOR TERMINAL
Pace Project No.: 40151714

Dear Jonathan Zimdars:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151714001	MWM-10D	Water	06/14/17 10:20	06/15/17 09:55
40151714002	MW-36D	Water	06/14/17 11:25	06/15/17 09:55
40151714003	MWM-7D	Water	06/14/17 10:32	06/15/17 09:55
40151714004	MWM-9RD	Water	06/14/17 13:15	06/15/17 09:55
40151714005	MW-37D	Water	06/14/17 11:15	06/15/17 09:55
40151714006	MW-37D DUP	Water	06/14/17 11:16	06/15/17 09:55
40151714007	TRIP BLANK	Water	06/14/17 00:00	06/15/17 09:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151714001	MWM-10D	WI MOD GRO	ALD	10	PASI-G
40151714002	MW-36D	WI MOD GRO	ALD	10	PASI-G
40151714003	MWM-7D	WI MOD GRO	ALD	10	PASI-G
40151714004	MWM-9RD	WI MOD GRO	ALD	10	PASI-G
40151714005	MW-37D	WI MOD GRO	ALD	10	PASI-G
40151714006	MW-37D DUP	WI MOD GRO	ALD	10	PASI-G
40151714007	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

Method: WI MOD GRO

Description: WIGRO GCV

Client: Antea Group

Date: June 20, 2017

General Information:

7 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL

Project No.: 40151714

Sample: MWM-10D **Lab ID: 40151714001** Collected: 06/14/17 10:20 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1080	ug/L	10.0	4.0	10		06/17/17 00:57	71-43-2	
Ethylbenzene	6.7J	ug/L	10.0	3.9	10		06/17/17 00:57	100-41-4	
Methyl-tert-butyl ether	<4.8	ug/L	10.0	4.8	10		06/17/17 00:57	1634-04-4	
Naphthalene	9.5J	ug/L	10.0	4.2	10		06/17/17 00:57	91-20-3	
Toluene	25.9	ug/L	10.0	3.9	10		06/17/17 00:57	108-88-3	
1,2,4-Trimethylbenzene	<4.2	ug/L	10.0	4.2	10		06/17/17 00:57	95-63-6	
1,3,5-Trimethylbenzene	<4.2	ug/L	10.0	4.2	10		06/17/17 00:57	108-67-8	
m&p-Xylene	20.3	ug/L	20.0	8.0	10		06/17/17 00:57	179601-23-1	
o-Xylene	<4.5	ug/L	10.0	4.5	10		06/17/17 00:57	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		10		06/17/17 00:57	98-08-8	

Sample: MW-36D **Lab ID: 40151714002** Collected: 06/14/17 11:25 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1920	ug/L	20.0	7.9	20		06/16/17 20:42	71-43-2	
Ethylbenzene	11.4J	ug/L	20.0	7.9	20		06/16/17 20:42	100-41-4	
Methyl-tert-butyl ether	<9.7	ug/L	20.0	9.7	20		06/16/17 20:42	1634-04-4	
Naphthalene	<8.5	ug/L	20.0	8.5	20		06/16/17 20:42	91-20-3	
Toluene	39.4	ug/L	20.0	7.8	20		06/16/17 20:42	108-88-3	
1,2,4-Trimethylbenzene	<8.4	ug/L	20.0	8.4	20		06/16/17 20:42	95-63-6	
1,3,5-Trimethylbenzene	<8.3	ug/L	20.0	8.3	20		06/16/17 20:42	108-67-8	
m&p-Xylene	<16.0	ug/L	40.0	16.0	20		06/16/17 20:42	179601-23-1	
o-Xylene	<9.0	ug/L	20.0	9.0	20		06/16/17 20:42	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		20		06/16/17 20:42	98-08-8	

Sample: MWM-7D **Lab ID: 40151714003** Collected: 06/14/17 10:32 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2010	ug/L	40.0	15.8	40		06/17/17 00:32	71-43-2	
Ethylbenzene	45.4	ug/L	40.0	15.7	40		06/17/17 00:32	100-41-4	
Methyl-tert-butyl ether	<19.4	ug/L	40.0	19.4	40		06/17/17 00:32	1634-04-4	
Naphthalene	<17.0	ug/L	40.0	17.0	40		06/17/17 00:32	91-20-3	
Toluene	43.7	ug/L	40.0	15.5	40		06/17/17 00:32	108-88-3	
1,2,4-Trimethylbenzene	<16.7	ug/L	40.0	16.7	40		06/17/17 00:32	95-63-6	
1,3,5-Trimethylbenzene	<16.6	ug/L	40.0	16.6	40		06/17/17 00:32	108-67-8	
m&p-Xylene	47.2J	ug/L	80.0	32.0	40		06/17/17 00:32	179601-23-1	
o-Xylene	<18.0	ug/L	40.0	18.0	40		06/17/17 00:32	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

Sample: MWM-7D **Lab ID: 40151714003** Collected: 06/14/17 10:32 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		40		06/17/17 00:32	98-08-8	

Sample: MWM-9RD **Lab ID: 40151714004** Collected: 06/14/17 13:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2690	ug/L	25.0	9.9	25		06/19/17 23:44	71-43-2	
Ethylbenzene	197	ug/L	25.0	9.8	25		06/19/17 23:44	100-41-4	
Methyl-tert-butyl ether	25.2	ug/L	25.0	12.1	25		06/19/17 23:44	1634-04-4	
Naphthalene	37.5	ug/L	25.0	10.6	25		06/19/17 23:44	91-20-3	
Toluene	117	ug/L	25.0	9.7	25		06/19/17 23:44	108-88-3	
1,2,4-Trimethylbenzene	88.1	ug/L	25.0	10.4	25		06/19/17 23:44	95-63-6	
1,3,5-Trimethylbenzene	37.3	ug/L	25.0	10.4	25		06/19/17 23:44	108-67-8	
m&p-Xylene	233	ug/L	50.0	20.0	25		06/19/17 23:44	179601-23-1	
o-Xylene	<11.2	ug/L	25.0	11.2	25		06/19/17 23:44	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		25		06/19/17 23:44	98-08-8	

Sample: MW-37D **Lab ID: 40151714005** Collected: 06/14/17 11:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3020	ug/L	50.0	19.8	50		06/16/17 23:15	71-43-2	
Ethylbenzene	35.4J	ug/L	50.0	19.6	50		06/16/17 23:15	100-41-4	
Methyl-tert-butyl ether	<24.2	ug/L	50.0	24.2	50		06/16/17 23:15	1634-04-4	
Naphthalene	<21.2	ug/L	50.0	21.2	50		06/16/17 23:15	91-20-3	
Toluene	110	ug/L	50.0	19.4	50		06/16/17 23:15	108-88-3	
1,2,4-Trimethylbenzene	<20.9	ug/L	50.0	20.9	50		06/16/17 23:15	95-63-6	
1,3,5-Trimethylbenzene	<20.8	ug/L	50.0	20.8	50		06/16/17 23:15	108-67-8	
m&p-Xylene	71.5J	ug/L	100	40.0	50		06/16/17 23:15	179601-23-1	
o-Xylene	<22.4	ug/L	50.0	22.4	50		06/16/17 23:15	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		50		06/16/17 23:15	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL
Pace Project No.: 40151714

Sample: MW-37D DUP **Lab ID: 40151714006** Collected: 06/14/17 11:16 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3050	ug/L	50.0	19.8	50		06/16/17 23:41	71-43-2	
Ethylbenzene	34.7J	ug/L	50.0	19.6	50		06/16/17 23:41	100-41-4	
Methyl-tert-butyl ether	<24.2	ug/L	50.0	24.2	50		06/16/17 23:41	1634-04-4	
Naphthalene	<21.2	ug/L	50.0	21.2	50		06/16/17 23:41	91-20-3	
Toluene	112	ug/L	50.0	19.4	50		06/16/17 23:41	108-88-3	
1,2,4-Trimethylbenzene	<20.9	ug/L	50.0	20.9	50		06/16/17 23:41	95-63-6	
1,3,5-Trimethylbenzene	<20.8	ug/L	50.0	20.8	50		06/16/17 23:41	108-67-8	
m&p-Xylene	71.5J	ug/L	100	40.0	50		06/16/17 23:41	179601-23-1	
o-Xylene	<22.4	ug/L	50.0	22.4	50		06/16/17 23:41	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		50		06/16/17 23:41	98-08-8	

Sample: TRIP BLANK **Lab ID: 40151714007** Collected: 06/14/17 00:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/16/17 19:25	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/16/17 19:25	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/16/17 19:25	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/16/17 19:25	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/16/17 19:25	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 19:25	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 19:25	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/16/17 19:25	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/16/17 19:25	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		06/16/17 19:25	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISUP171 SUPERIOR TERMINAL
Pace Project No.: 40151714

QC Batch: 258777 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40151714001, 40151714002, 40151714003, 40151714004, 40151714005, 40151714006, 40151714007

METHOD BLANK: 1524723 Matrix: Water
Associated Lab Samples: 40151714001, 40151714002, 40151714003, 40151714004, 40151714005, 40151714006, 40151714007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/16/17 11:28	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/16/17 11:28	
Benzene	ug/L	<0.40	1.0	06/16/17 11:28	
Ethylbenzene	ug/L	<0.39	1.0	06/16/17 11:28	
m&p-Xylene	ug/L	<0.80	2.0	06/16/17 11:28	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/16/17 11:28	
Naphthalene	ug/L	<0.42	1.0	06/16/17 11:28	
o-Xylene	ug/L	<0.45	1.0	06/16/17 11:28	
Toluene	ug/L	<0.39	1.0	06/16/17 11:28	
a,a,a-Trifluorotoluene (S)	%	103	80-120	06/16/17 11:28	

LABORATORY CONTROL SAMPLE & LCSD: 1524724 1524725

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.5	20.5	102	102	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.8	19.9	99	99	80-120	0	20	
Benzene	ug/L	20	20.4	20.2	102	101	80-120	1	20	
Ethylbenzene	ug/L	20	20.2	20.2	101	101	80-120	0	20	
m&p-Xylene	ug/L	40	39.9	40.0	100	100	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.5	19.8	97	99	80-120	2	20	
Naphthalene	ug/L	20	19.1	20.0	96	100	80-120	4	20	
o-Xylene	ug/L	20	20.1	20.1	100	100	80-120	0	20	
Toluene	ug/L	20	20.2	20.1	101	100	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				104	104	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524852 1524853

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40151714002 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<8.4	400	400	412	414	103	103	11-200	0	20
1,3,5-Trimethylbenzene	ug/L	<8.3	400	400	399	400	100	100	54-142	0	20
Benzene	ug/L	1920	400	400	2310	2280	96	90	66-140	1	20
Ethylbenzene	ug/L	11.4J	400	400	412	413	100	101	66-143	0	20
m&p-Xylene	ug/L	<16.0	800	800	800	802	100	100	60-141	0	20
Methyl-tert-butyl ether	ug/L	<9.7	400	400	405	407	101	102	70-129	1	20
Naphthalene	ug/L	<8.5	400	400	406	403	101	101	64-129	1	20
o-Xylene	ug/L	<9.0	400	400	401	400	100	100	68-132	0	20
Toluene	ug/L	39.4	400	400	439	439	100	100	76-130	0	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1524852		1524853									
Parameter	Units	40151714002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
a,a,a-Trifluorotoluene (S)	%						103	103	80-120				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151714

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151714001	MWM-10D	WI MOD GRO	258777		
40151714002	MW-36D	WI MOD GRO	258777		
40151714003	MWM-7D	WI MOD GRO	258777		
40151714004	MWM-9RD	WI MOD GRO	258777		
40151714005	MW-37D	WI MOD GRO	258777		
40151714006	MW-37D DUP	WI MOD GRO	258777		
40151714007	TRIP BLANK	WI MOD GRO	258777		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **Antea Group**
 Branch/Location: **5910 Rise Creek Pkwy**
 Project Contact: **Jonathan Zimbar's**
 Phone: **651-697-5219**
 Project Number: **WISUP 171**
 Project Name: **Superior Terminal**
 Project State: **WI**
 Sampled By (Print): **Todd Krenn**
 Sampled By (Sign): *Todd Krenn*
 PO #: **WISWP 171**
 Regulatory Program: **WISWP 171**

Data Package Options
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air
 B = Biota
 C = Charcoal
 O = Oil
 S = Soil
 SI = Sludge
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Wipe



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Y/N	Pick Letter	Analyses Requested	
001	MWM-10D	6/17/10	20	W	X		PVOC + Naphthalene	
002	MW-36D	6/17/11	25	W	X			
003	MWM-7D	6/17/10	32	W	X			
004	MWM-9RD	6/17/11	35	W	X			
005	MW-37D	6/17/11	15	W	X			
006	MW-37D	6/17/11	16	W	X			
007	TOP Blank	6/17/11	-	W	X			

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: *Todd Krenn* Date/Time: 6/17/11 1350
 Relinquished By: *Leanne Khmelue* Date/Time: 6/17/11 1430
 Relinquished By: *Feder* Date/Time: 6/15/11 0955

Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Quote #:

Mail To Contact: **Jonathan Zimbar's**
 Mail To Company: **Antea Group**
 Mail To Address: **5910 Rise Creek Pkwy Suite 100 Shoreview, MN 55126**
 Invoice To Contact: *** Jonathan Zimbar's**
 Invoice To Company: **Antea Group**
 Invoice To Address: **5910 Rise Creek Pkwy Suite 100 Shoreview, MN 55126**
 Invoice To Phone: **651-697-5219**

CLIENT COMMENTS
3 containers
3 40gal b's

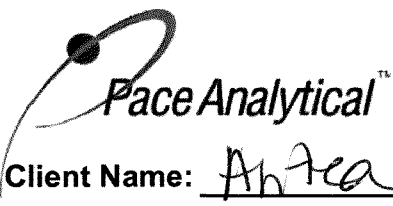
LAB COMMENTS (Lab Use Only)
2 containers
2 40gal b's
Chris Hyska
Pace GB

Received By: *Leanne Khmelue* Date/Time: 6/17/11 1350
 Received By: *Leanne Khmelue* Date/Time: 6/17/11 1430
 Received By: *Black, Tara Wiskin* Date/Time: 6/15/11 0955

Received By: Date/Time:
 Received By: Date/Time:

Receipt Temp = **0.0** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact

40151714



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project # WO#: 40151714

Client Name: AnTea



Courier: [X] Fed Ex [] UPS [] Client [] Pace Other: _____

Tracking #: 6779 88956843

Custody Seal on Cooler/Box Present: [] yes [X] no Seals intact: [] yes [] no

Custody Seal on Samples Present: [] yes [X] no Seals intact: [] yes [] no

Packing Material: [] Bubble Wrap [X] Bubble Bags [] None [] Other

Thermometer Used NA Type of Ice: (Wet) Blue Dry None [X] Samples on ice, cooling process has begun

Cooler Temperature Uncorr: I/Corr: 20 Biological Tissue is Frozen: [] yes [] no

Temp Blank Present: [] yes [X] no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 6/15/17
Initials: [Signature]

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like 'Chain of Custody Present', 'Short Hold Time Analysis', 'Rush Turn Around Time Requested', etc.

Client Notification/ Resolution: If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/15/17

June 20, 2017

Jonathan Zimdars
Antea Group - MN
5910 Rice Creek Parkway
Saint Paul, MN 55126

RE: Project: WISUP171 SUPERIOR TERMINAL
Pace Project No.: 40151715

Dear Jonathan Zimdars:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151715001	MW-48S	Water	06/13/17 15:58	06/15/17 09:55
40151715002	MWM-2D	Water	06/13/17 17:50	06/15/17 09:55
40151715003	MW-49D	Water	06/13/17 17:30	06/15/17 09:55
40151715004	MW-49S	Water	06/13/17 17:02	06/15/17 09:55
40151715005	MW-48D	Water	06/14/17 08:45	06/15/17 09:55
40151715006	MWBD-1D	Water	06/14/17 09:15	06/15/17 09:55
40151715007	MW-30D	Water	06/14/17 12:20	06/15/17 09:55
40151715008	MWT-2D	Water	06/14/17 13:12	06/15/17 09:55
40151715009	TRIP BLANK	Water	06/14/17 00:00	06/15/17 09:55

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SAMPLE ANALYTE COUNT

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151715001	MW-48S	WI MOD GRO	ALD	10	PASI-G
40151715002	MWM-2D	WI MOD GRO	ALD	10	PASI-G
40151715003	MW-49D	WI MOD GRO	ALD	10	PASI-G
40151715004	MW-49S	WI MOD GRO	ALD	10	PASI-G
40151715005	MW-48D	WI MOD GRO	ALD	10	PASI-G
40151715006	MWBD-1D	WI MOD GRO	ALD	10	PASI-G
40151715007	MW-30D	WI MOD GRO	ALD	10	PASI-G
40151715008	MWT-2D	WI MOD GRO	ALD	10	PASI-G
40151715009	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

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PROJECT NARRATIVE

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Method: WI MOD GRO

Description: WIGRO GCV

Client: Antea Group

Date: June 20, 2017

General Information:

9 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Sample: MW-48S **Lab ID: 40151715001** Collected: 06/13/17 15:58 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/16/17 14:57	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/16/17 14:57	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/16/17 14:57	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/16/17 14:57	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/16/17 14:57	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 14:57	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 14:57	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/16/17 14:57	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/16/17 14:57	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/16/17 14:57	98-08-8	

Sample: MWM-2D **Lab ID: 40151715002** Collected: 06/13/17 17:50 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/16/17 15:23	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/16/17 15:23	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/16/17 15:23	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/16/17 15:23	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/16/17 15:23	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 15:23	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 15:23	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/16/17 15:23	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/16/17 15:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/16/17 15:23	98-08-8	

Sample: MW-49D **Lab ID: 40151715003** Collected: 06/13/17 17:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1.0	ug/L	1.0	0.40	1		06/16/17 18:08	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/16/17 18:08	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/16/17 18:08	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:08	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/16/17 18:08	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:08	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:08	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/16/17 18:08	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/16/17 18:08	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Sample: MW-49D **Lab ID: 40151715003** Collected: 06/13/17 17:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/16/17 18:08	98-08-8	

Sample: MW-49S **Lab ID: 40151715004** Collected: 06/13/17 17:02 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/16/17 18:34	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/16/17 18:34	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/16/17 18:34	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:34	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/16/17 18:34	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:34	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:34	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/16/17 18:34	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/16/17 18:34	95-47-6	
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		06/16/17 18:34	98-08-8	

Sample: MW-48D **Lab ID: 40151715005** Collected: 06/14/17 08:45 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	12.3	ug/L	1.0	0.40	1		06/16/17 18:59	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/16/17 18:59	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/16/17 18:59	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:59	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/16/17 18:59	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:59	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/16/17 18:59	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/16/17 18:59	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/16/17 18:59	95-47-6	
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/16/17 18:59	98-08-8	

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Sample: MWBD-1D **Lab ID: 40151715006** Collected: 06/14/17 09:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	156	ug/L	2.0	0.79	2		06/19/17 23:19	71-43-2	
Ethylbenzene	<0.79	ug/L	2.0	0.79	2		06/19/17 23:19	100-41-4	
Methyl-tert-butyl ether	<0.97	ug/L	2.0	0.97	2		06/19/17 23:19	1634-04-4	
Naphthalene	<0.85	ug/L	2.0	0.85	2		06/19/17 23:19	91-20-3	
Toluene	<0.78	ug/L	2.0	0.78	2		06/19/17 23:19	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.0	0.84	2		06/19/17 23:19	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	2.0	0.83	2		06/19/17 23:19	108-67-8	
m&p-Xylene	<1.6	ug/L	4.0	1.6	2		06/19/17 23:19	179601-23-1	
o-Xylene	<0.90	ug/L	2.0	0.90	2		06/19/17 23:19	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		2		06/19/17 23:19	98-08-8	

Sample: MW-30D **Lab ID: 40151715007** Collected: 06/14/17 12:20 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2070	ug/L	25.0	9.9	25		06/20/17 00:10	71-43-2	
Ethylbenzene	58.1	ug/L	25.0	9.8	25		06/20/17 00:10	100-41-4	
Methyl-tert-butyl ether	25.3	ug/L	25.0	12.1	25		06/20/17 00:10	1634-04-4	
Naphthalene	196	ug/L	25.0	10.6	25		06/20/17 00:10	91-20-3	
Toluene	80.1	ug/L	25.0	9.7	25		06/20/17 00:10	108-88-3	
1,2,4-Trimethylbenzene	<10.4	ug/L	25.0	10.4	25		06/20/17 00:10	95-63-6	
1,3,5-Trimethylbenzene	<10.4	ug/L	25.0	10.4	25		06/20/17 00:10	108-67-8	
m&p-Xylene	70.4	ug/L	50.0	20.0	25		06/20/17 00:10	179601-23-1	
o-Xylene	<11.2	ug/L	25.0	11.2	25		06/20/17 00:10	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		25		06/20/17 00:10	98-08-8	

Sample: MWT-2D **Lab ID: 40151715008** Collected: 06/14/17 13:12 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3440	ug/L	40.0	15.8	40		06/20/17 00:35	71-43-2	
Ethylbenzene	331	ug/L	40.0	15.7	40		06/20/17 00:35	100-41-4	
Methyl-tert-butyl ether	115	ug/L	40.0	19.4	40		06/20/17 00:35	1634-04-4	
Naphthalene	167	ug/L	40.0	17.0	40		06/20/17 00:35	91-20-3	
Toluene	214	ug/L	40.0	15.5	40		06/20/17 00:35	108-88-3	
1,2,4-Trimethylbenzene	138	ug/L	40.0	16.7	40		06/20/17 00:35	95-63-6	
1,3,5-Trimethylbenzene	53.2	ug/L	40.0	16.6	40		06/20/17 00:35	108-67-8	
m&p-Xylene	329	ug/L	80.0	32.0	40		06/20/17 00:35	179601-23-1	
o-Xylene	44.8	ug/L	40.0	18.0	40		06/20/17 00:35	95-47-6	

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ANALYTICAL RESULTS

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Sample: MWT-2D **Lab ID: 40151715008** Collected: 06/14/17 13:12 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	103	%	80-120		40		06/20/17 00:35	98-08-8	

Sample: TRIP BLANK **Lab ID: 40151715009** Collected: 06/14/17 00:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/19/17 22:53	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/19/17 22:53	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/19/17 22:53	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/19/17 22:53	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/19/17 22:53	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/19/17 22:53	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/19/17 22:53	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/19/17 22:53	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/19/17 22:53	95-47-6	
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/19/17 22:53	98-08-8	

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QUALITY CONTROL DATA

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

QC Batch:	258777	Analysis Method:	WI MOD GRO
QC Batch Method:	WI MOD GRO	Analysis Description:	WIGRO GCV Water
Associated Lab Samples:	40151715001, 40151715002, 40151715003, 40151715004, 40151715005, 40151715006, 40151715007, 40151715008, 40151715009		

METHOD BLANK:	1524723	Matrix:	Water
Associated Lab Samples:	40151715001, 40151715002, 40151715003, 40151715004, 40151715005, 40151715006, 40151715007, 40151715008, 40151715009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/16/17 11:28	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/16/17 11:28	
Benzene	ug/L	<0.40	1.0	06/16/17 11:28	
Ethylbenzene	ug/L	<0.39	1.0	06/16/17 11:28	
m&p-Xylene	ug/L	<0.80	2.0	06/16/17 11:28	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/16/17 11:28	
Naphthalene	ug/L	<0.42	1.0	06/16/17 11:28	
o-Xylene	ug/L	<0.45	1.0	06/16/17 11:28	
Toluene	ug/L	<0.39	1.0	06/16/17 11:28	
a,a,a-Trifluorotoluene (S)	%	103	80-120	06/16/17 11:28	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 1524724 1524725								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
1,2,4-Trimethylbenzene	ug/L	20	20.5	20.5	102	102	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.8	19.9	99	99	80-120	0	20	
Benzene	ug/L	20	20.4	20.2	102	101	80-120	1	20	
Ethylbenzene	ug/L	20	20.2	20.2	101	101	80-120	0	20	
m&p-Xylene	ug/L	40	39.9	40.0	100	100	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.5	19.8	97	99	80-120	2	20	
Naphthalene	ug/L	20	19.1	20.0	96	100	80-120	4	20	
o-Xylene	ug/L	20	20.1	20.1	100	100	80-120	0	20	
Toluene	ug/L	20	20.2	20.1	101	100	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				104	104	80-120			

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524852 1524853										
		40151714002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<8.4	400	400	412	414	103	103	11-200	0	20	
1,3,5-Trimethylbenzene	ug/L	<8.3	400	400	399	400	100	100	54-142	0	20	
Benzene	ug/L	1920	400	400	2310	2280	96	90	66-140	1	20	
Ethylbenzene	ug/L	11.4J	400	400	412	413	100	101	66-143	0	20	
m&p-Xylene	ug/L	<16.0	800	800	800	802	100	100	60-141	0	20	
Methyl-tert-butyl ether	ug/L	<9.7	400	400	405	407	101	102	70-129	1	20	
Naphthalene	ug/L	<8.5	400	400	406	403	101	101	64-129	1	20	
o-Xylene	ug/L	<9.0	400	400	401	400	100	100	68-132	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

Parameter	Units	40151714002		1524852		1524853		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Toluene	ug/L	39.4	400	400	439	439	100	100	76-130	0	20			
a,a,a-Trifluorotoluene (S)	%						103	103	80-120					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WISUP171 SUPERIOR TERMINAL
Pace Project No.: 40151715

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WISUP171 SUPERIOR TERMINAL

Pace Project No.: 40151715

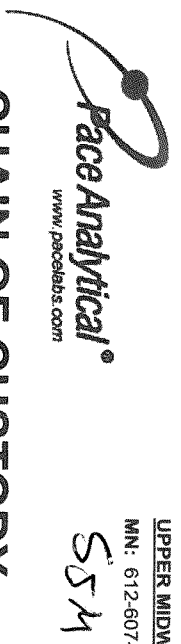
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151715001	MW-48S	WI MOD GRO	258777		
40151715002	MWM-2D	WI MOD GRO	258777		
40151715003	MW-49D	WI MOD GRO	258777		
40151715004	MW-49S	WI MOD GRO	258777		
40151715005	MW-48D	WI MOD GRO	258777		
40151715006	MWBD-1D	WI MOD GRO	258777		
40151715007	MW-30D	WI MOD GRO	258777		
40151715008	MWT-2D	WI MOD GRO	258777		
40151715009	TRIP BLANK	WI MOD GRO	258777		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

(Please Print Clearly)

Company Name: **Antea Group**
 Branch/Location: **5910 Rice Creek Pkwy**
 Project Contact: **Jonathan Zimdars**
 Phone: **651-697-5219**
 Project Number: **Wisup 171**
 Project Name: **Superior Terminal**
 Project State: **Wisconsin**
 Sampled By (Print): **Todd Kremmin**
 Sampled By (Sign): *Todd Kremmin*
 PO #: **Wisup 171**
 Regulatory Program: **Regular**



CHAIN OF CUSTODY

As=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H= Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

SKM

46151715

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Y/N	Pick Letter	Analyses Requested	Quote #:	Mail To Contact:	Mail To Company:	Mail To Address:	Invoice To Contact:	Invoice To Company:	Invoice To Address:	Invoice To Phone:	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #	PACE Project No.
001	MW-485	6/13/17	15:58	W	N	B	PVOC + Naph		Jonathan Zimdars	Antea Group	5910 Rice Creek Pkwy Shoreview, MN 55126	Jonathan Zimdars	Antea Group	5910 Rice Creek Pkwy Shoreview, MN 55126	651-697-5219	3 containers	3-40ml B		40151715
002	MW-485	6/13/17	17:30	W															
003	MW-49D	6/13/17	17:30	W															
004	MW-49S	6/13/17	17:02	W															
005	MW-48D	6/14/17	08:45	W															
006	MW3D-1D	6/14/17	9:15	W															
007	MW-30D	6/14/17	12:20	W															
008	MWT-2D	6/14/17	13:12	W															
009	Trip Blank	6/14/17	-	W															
	MW-2D	6/13/17	17:50	W															

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: *Todd Kremmin* Date/Time: 6/14/17 1350
 Relinquished By: *Leanne Salika* Date/Time: 6/14/17 1410

Received By: *Leanne Salika* Date/Time: 6/14/17 1352
 Received By: *Leanne Salika* Date/Time: 6/14/17 1410

Relinquished By: *Fedex* Date/Time: 6/15/17 0955
 Relinquished By: *Fedex* Date/Time: 6/15/17 0955

PACE Project No. **40151715**

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: *Fedex* Date/Time: 6/15/17 0955

Received By: *Fedex* Date/Time: 6/15/17 0955

Relinquished By: *Fedex* Date/Time: 6/15/17 0955

Receipt Temp = *80* °C

Special pricing and release of liability

Relinquished By: *Fedex* Date/Time: 6/15/17 0955

Received By: *Fedex* Date/Time: 6/15/17 0955

Relinquished By: *Fedex* Date/Time: 6/15/17 0955

Center Custody Seal Present/ Not Present Intact/ Not Intact

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Client Name: Antea Group

Project #: WO# : 40151715



Courier: Fed Ex UPS Client Pace Other: CS Logistics
Tracking #: KT 6/15/17

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: _____ /Corr: RO1 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 6/15/17
Initials: KT

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>MWM-2D written twice on COC</u> KT 6/15/17
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>001 2 vials no info on label placed by with labeled vial that was in the same bubble bag</u> KT 6/15/17
-Includes date/time/ID/Analysis Matrix: <u>W 6/15/17</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <input checked="" type="checkbox"/> VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>378</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

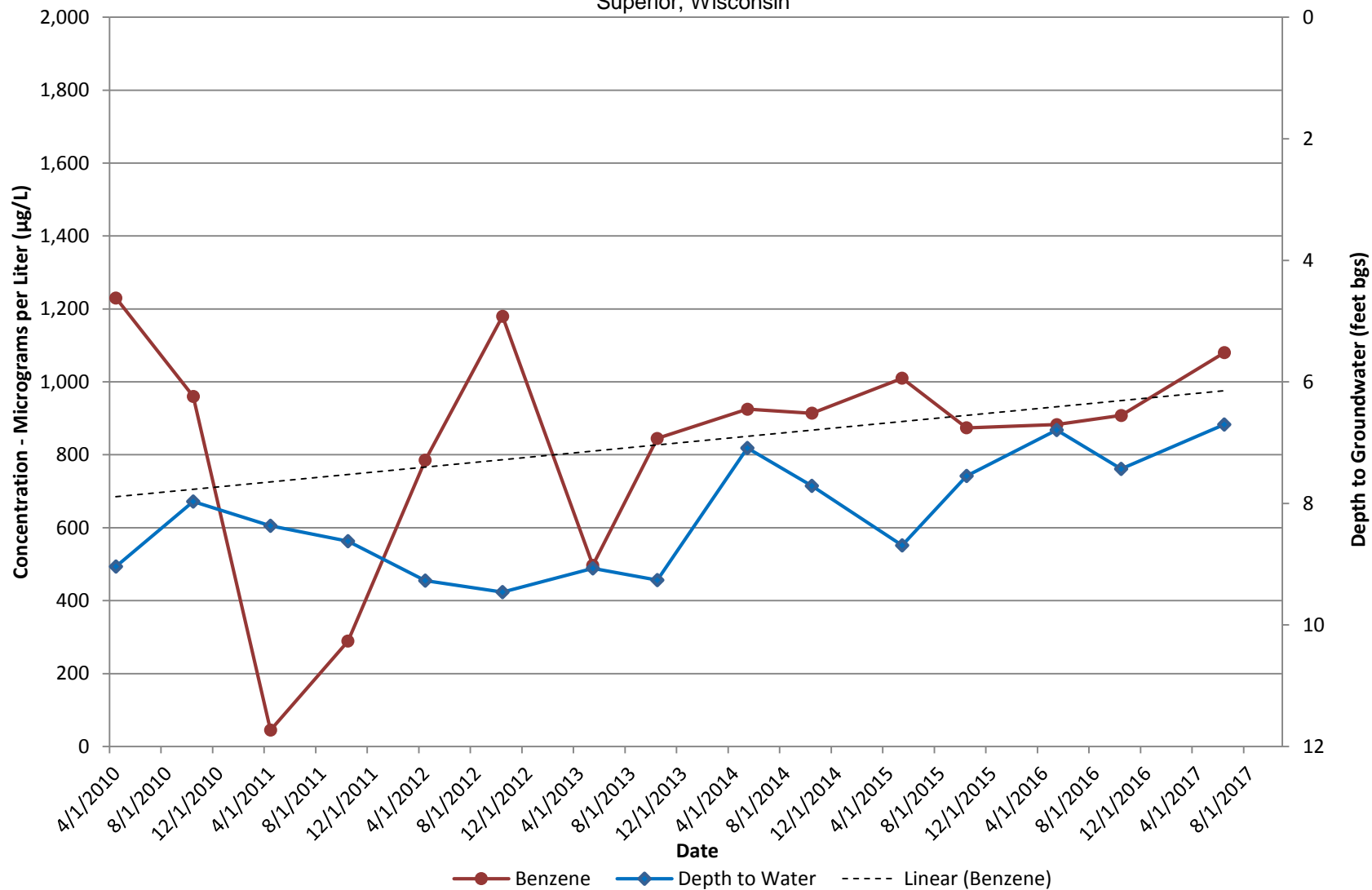
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: Tracking number ripped off of cooler 003 no ID/date, placed by time KT 6/15/17

Project Manager Review: CA Date: 6/15/17

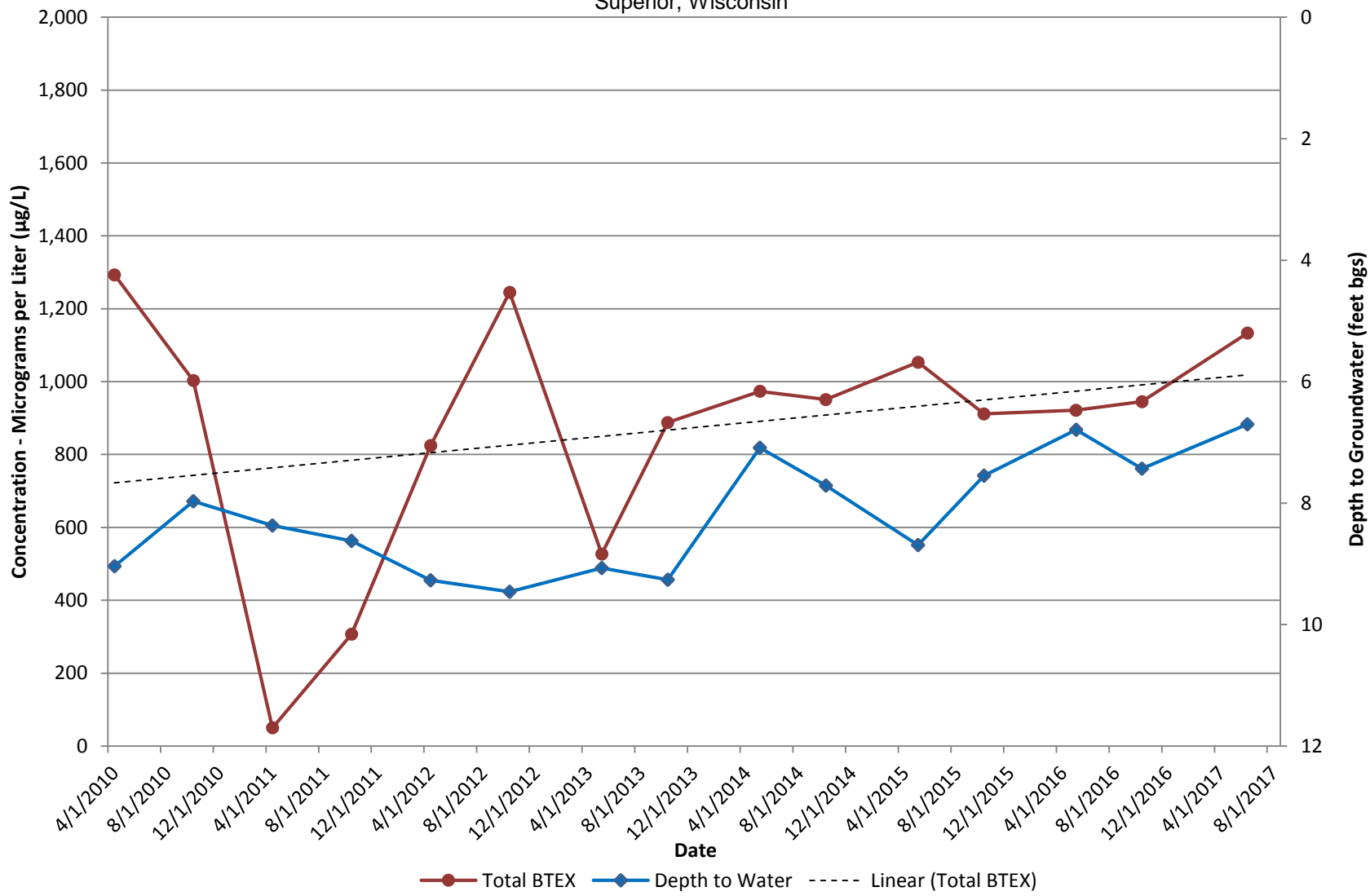
Appendix B

Dissolved Benzene/Total BTX and Groundwater Hydrographs

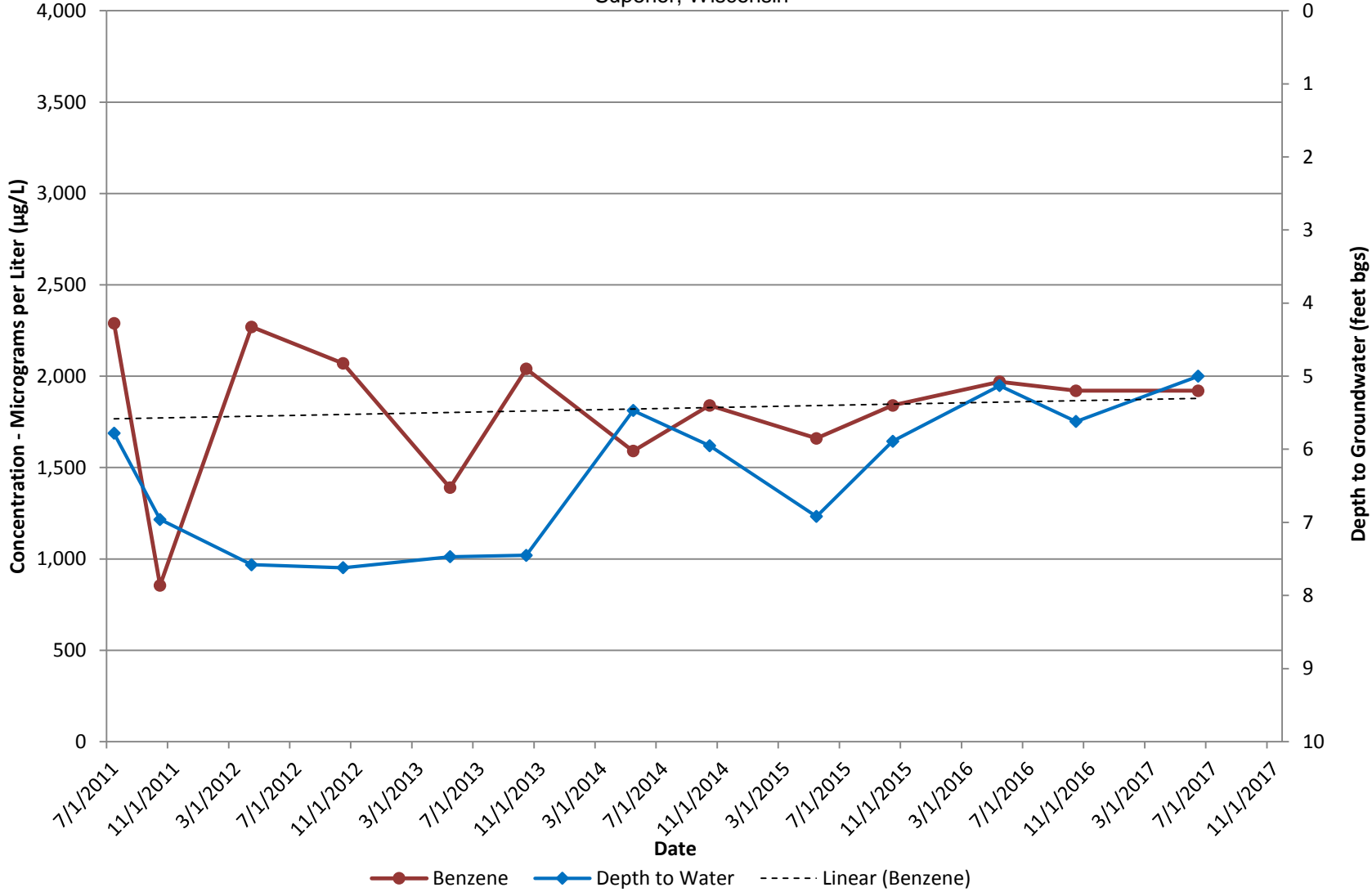
MWM-10D
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



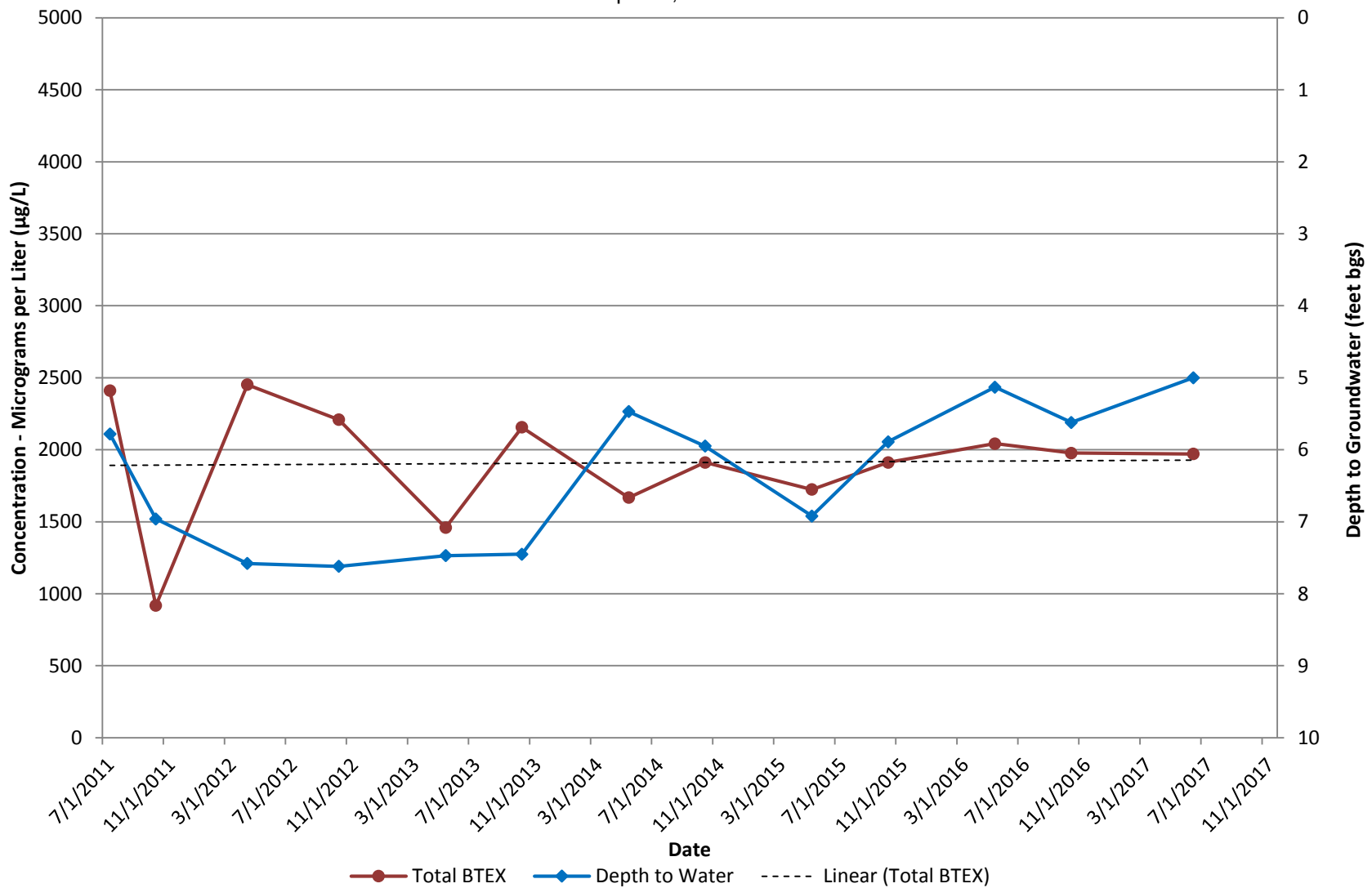
MWM-10D
Total BTEX/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



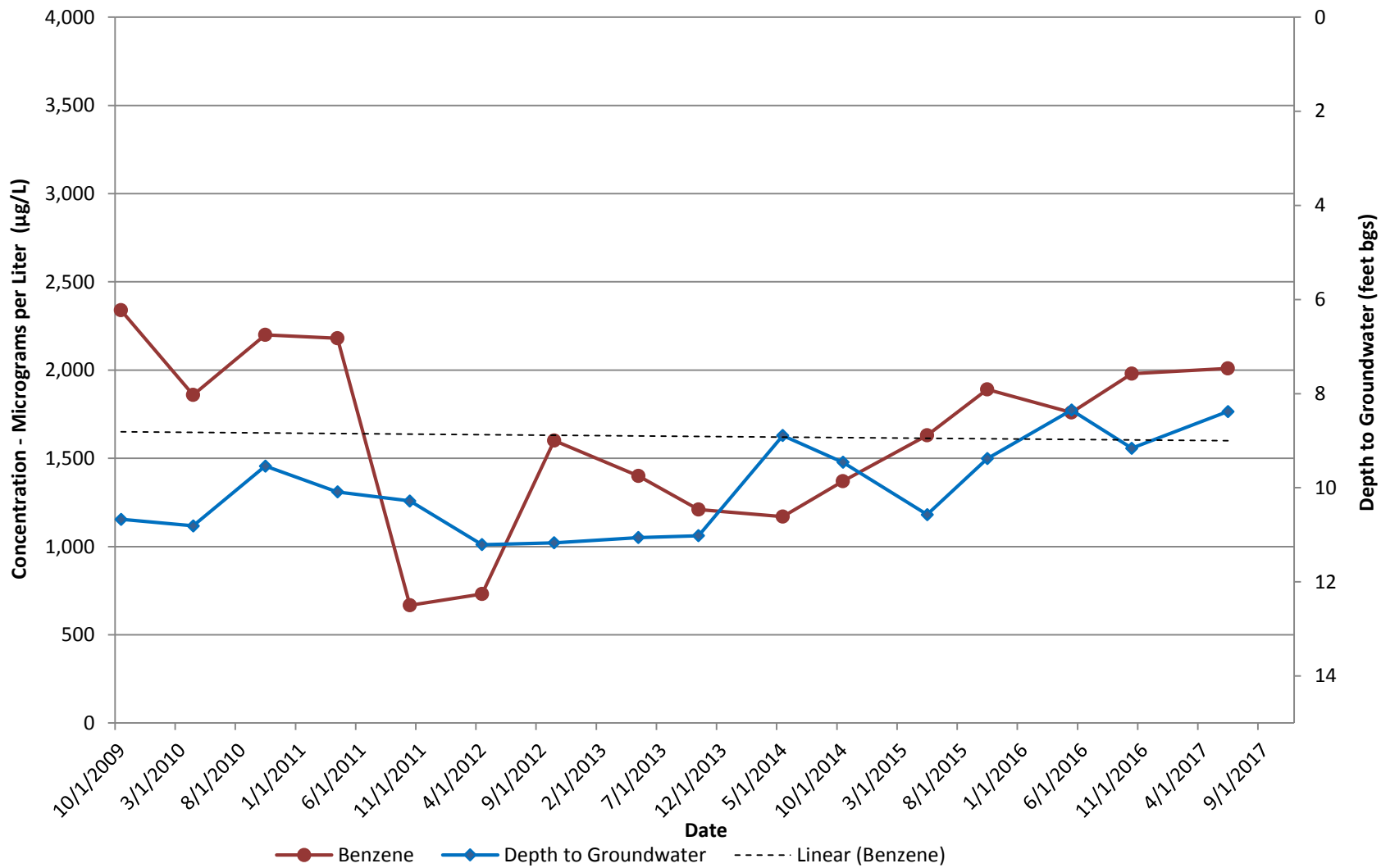
MW-36D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



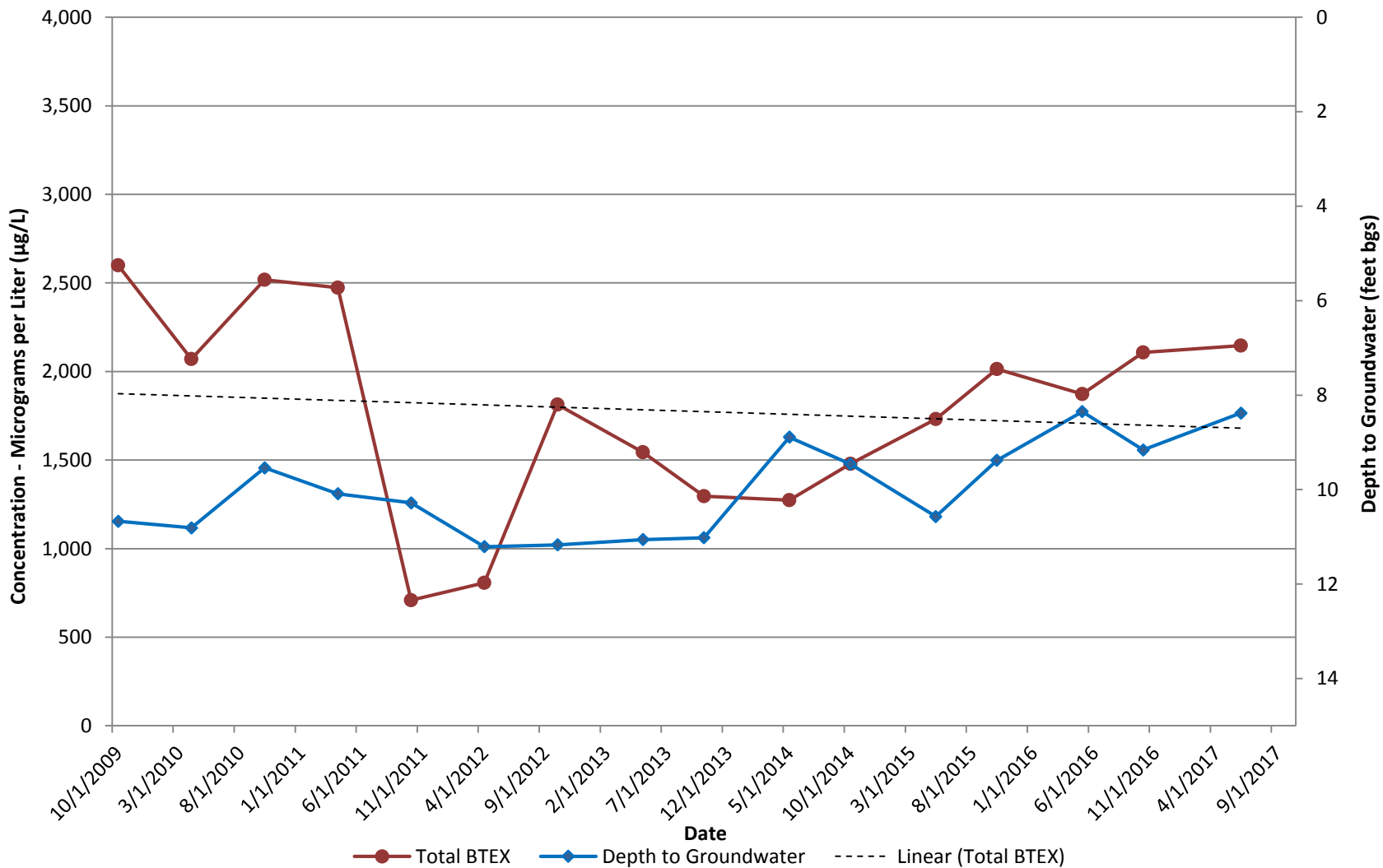
MW-36D
Total BTEX/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



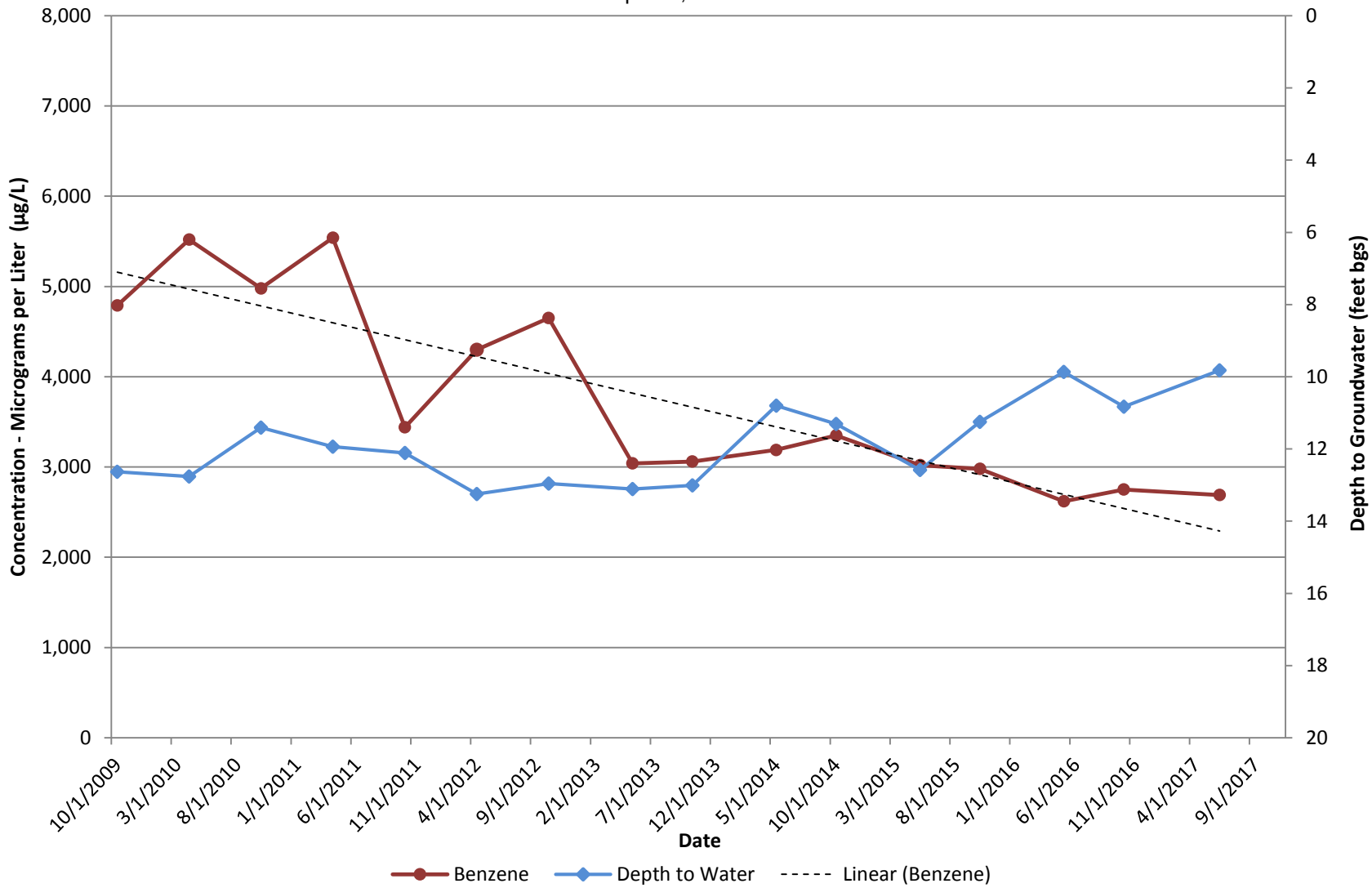
MWM-7D
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



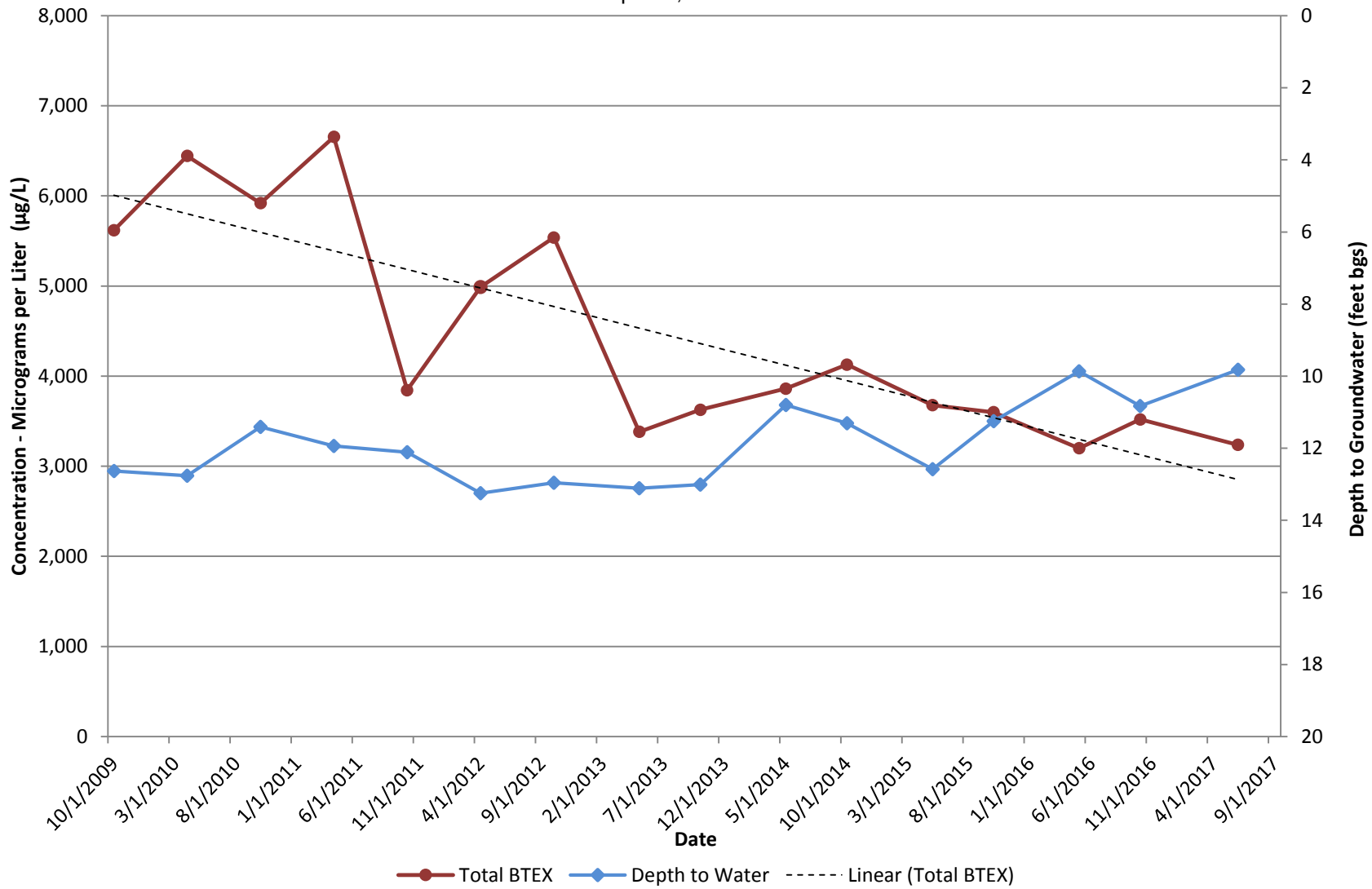
MWM-7D
Total BTEX/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



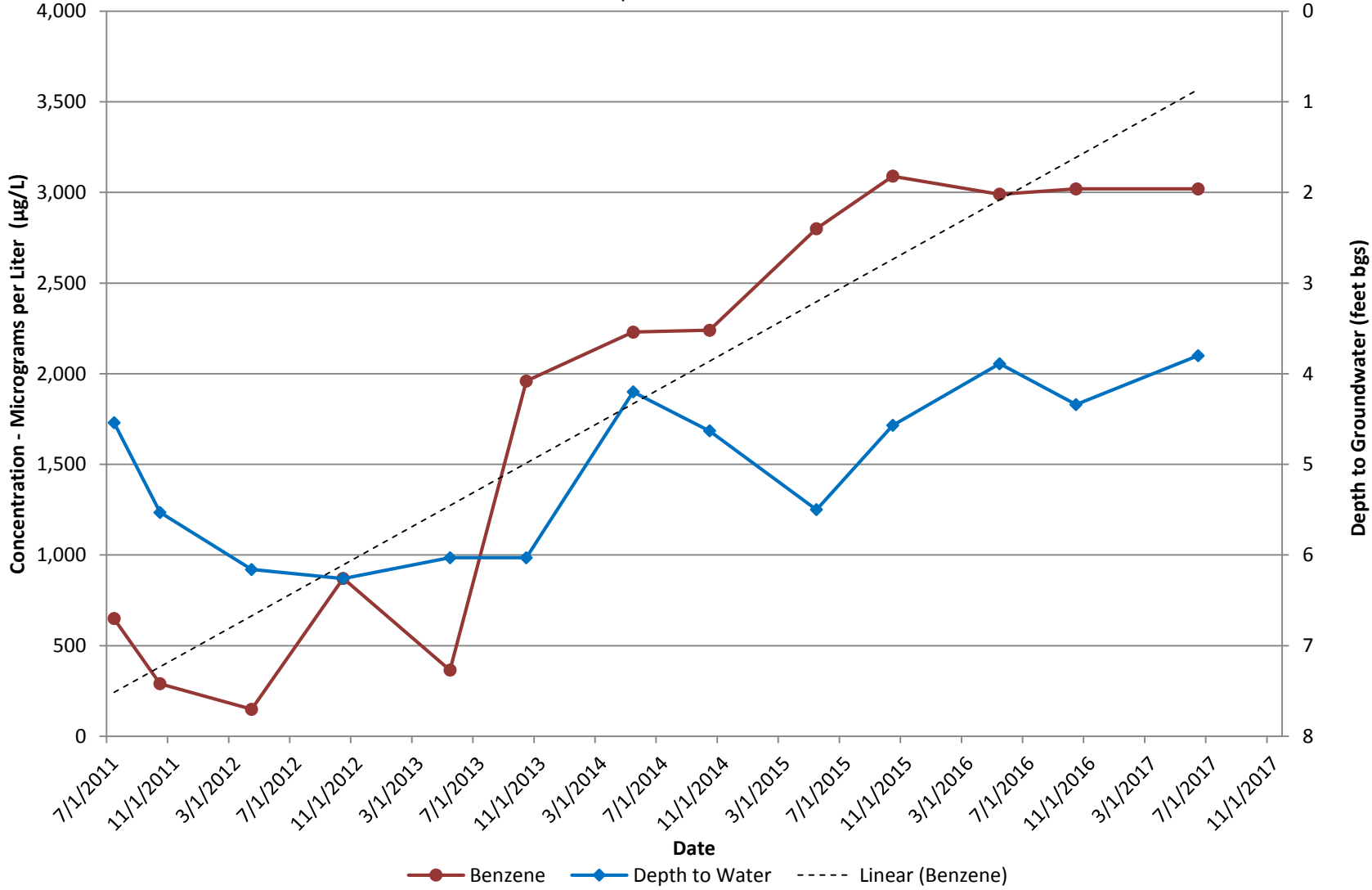
MWM-9RD
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



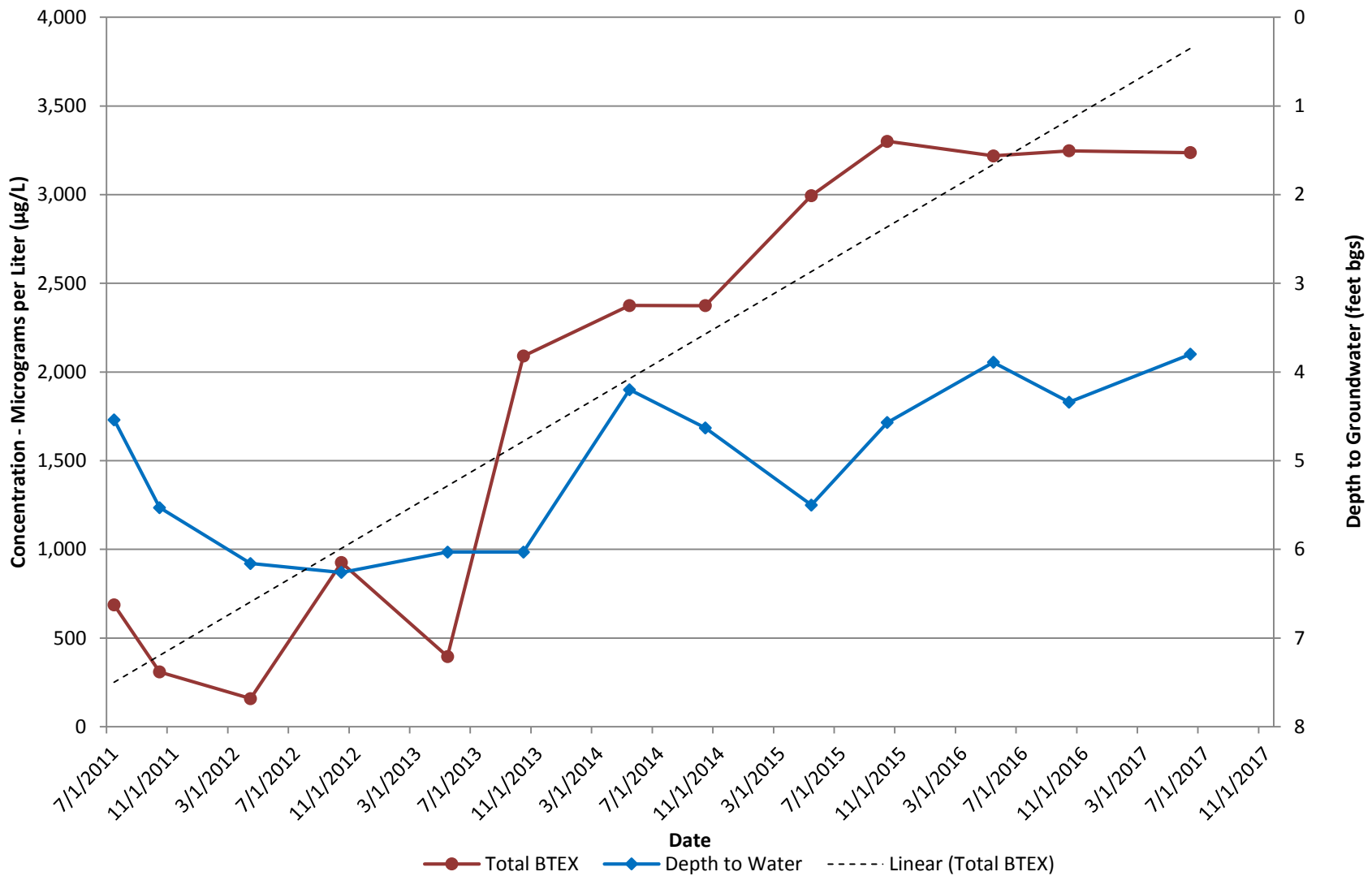
MWM-9RD
Total BTEX/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



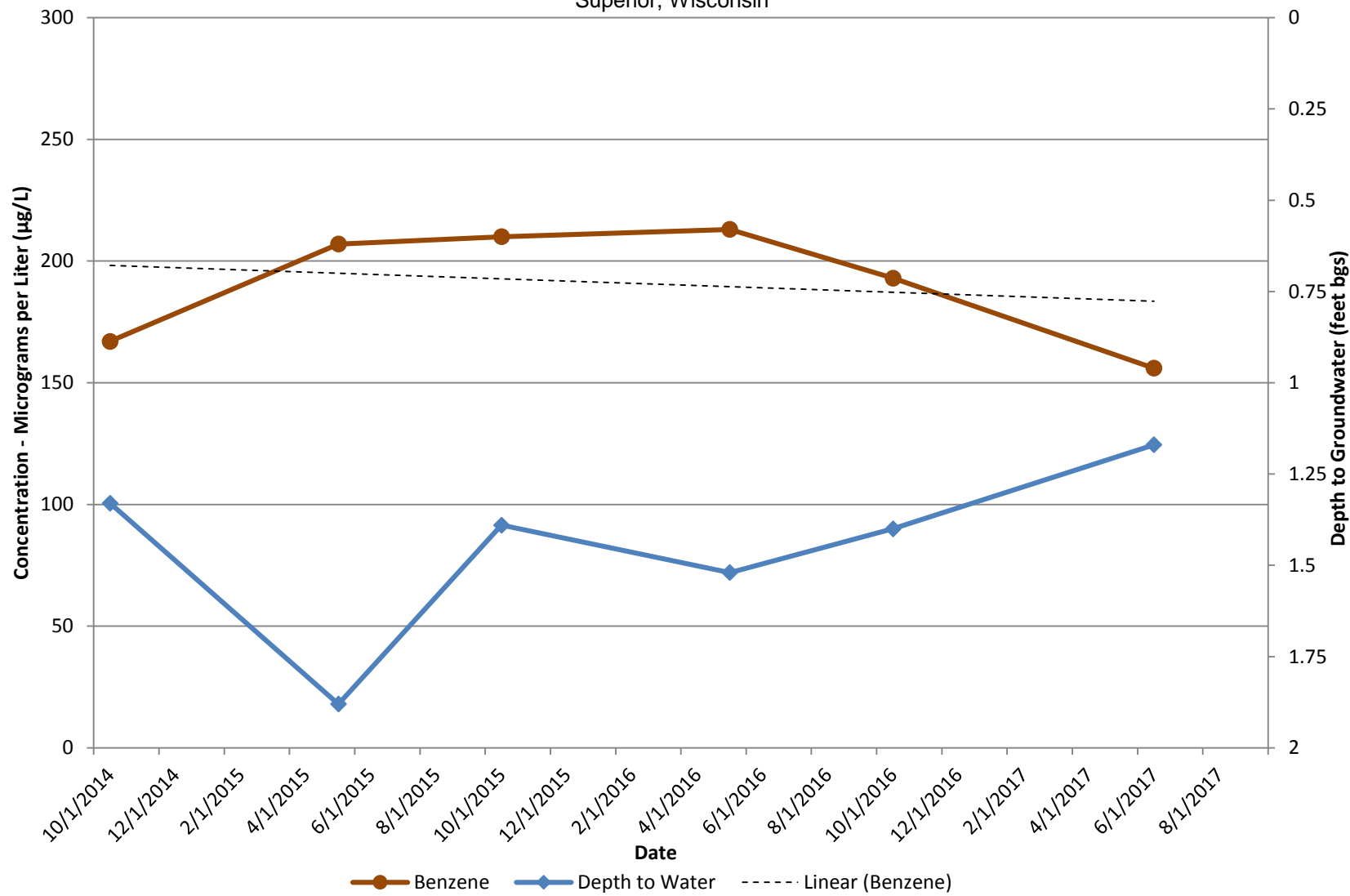
MW-37D
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



MW-37D
Total BTEX/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin

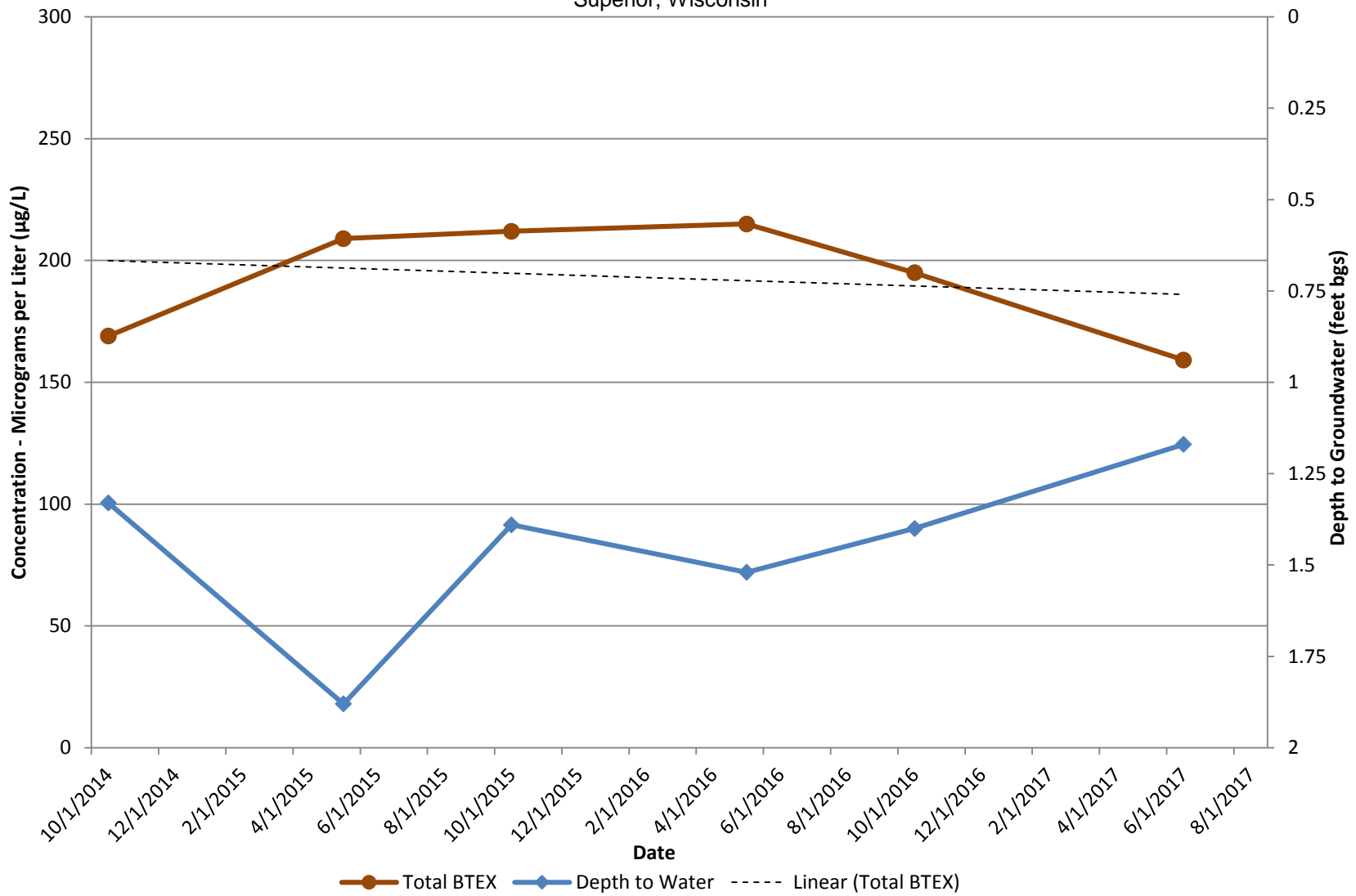


MWBD-1D
Benzene/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin

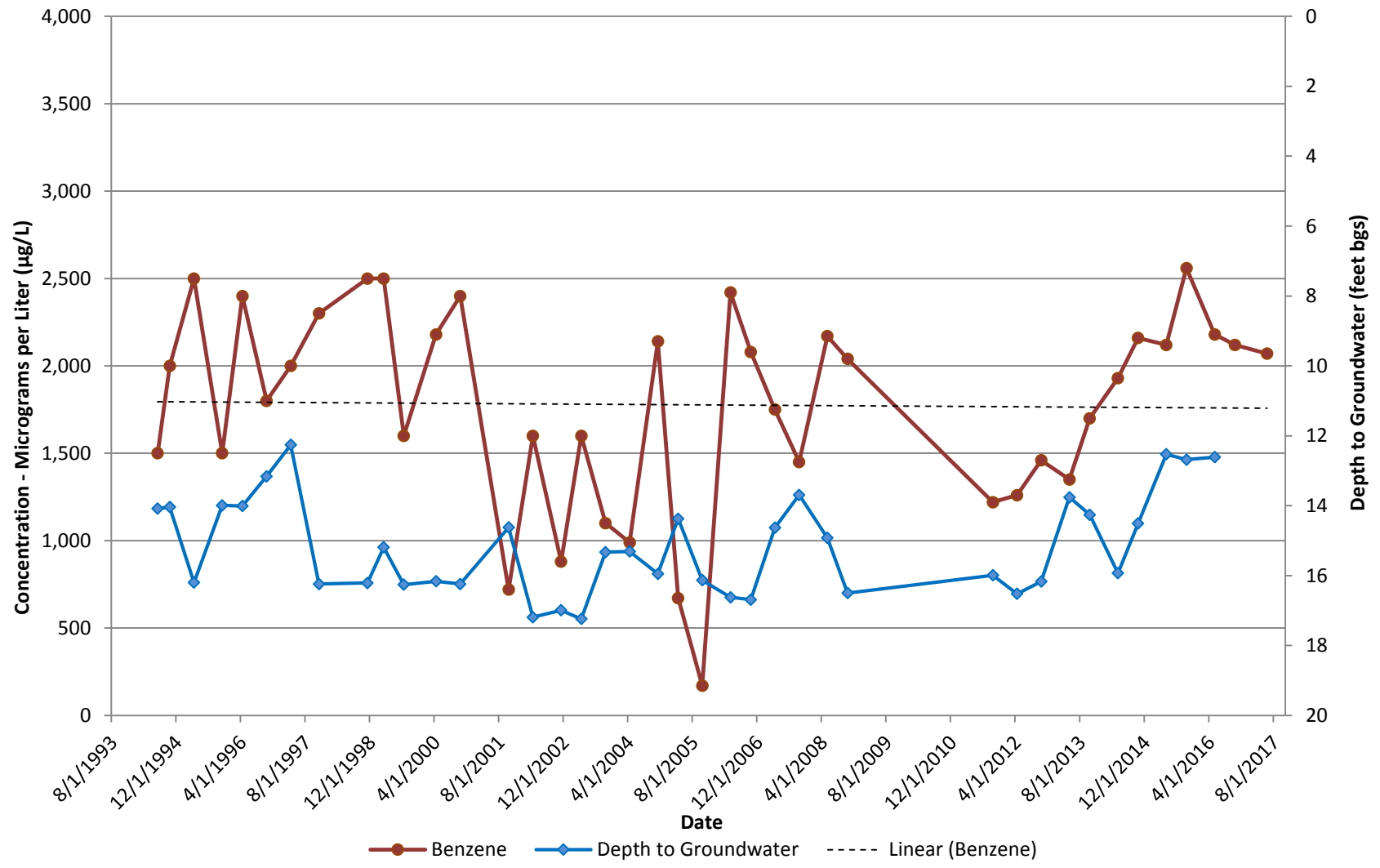


MWBD-1D BTEX/Groundwater Hydrograph

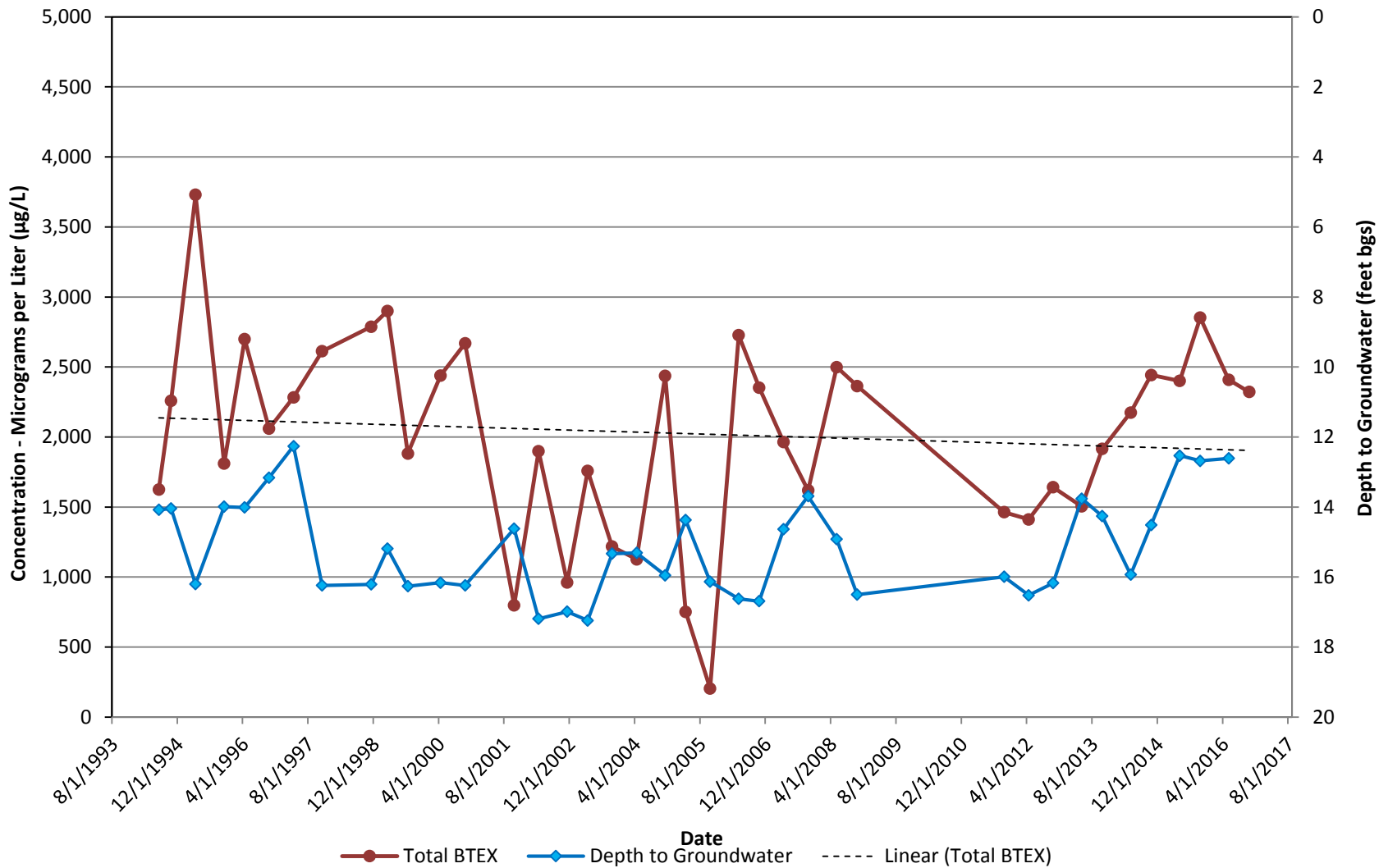
Former Amoco Terminal
Superior, Wisconsin



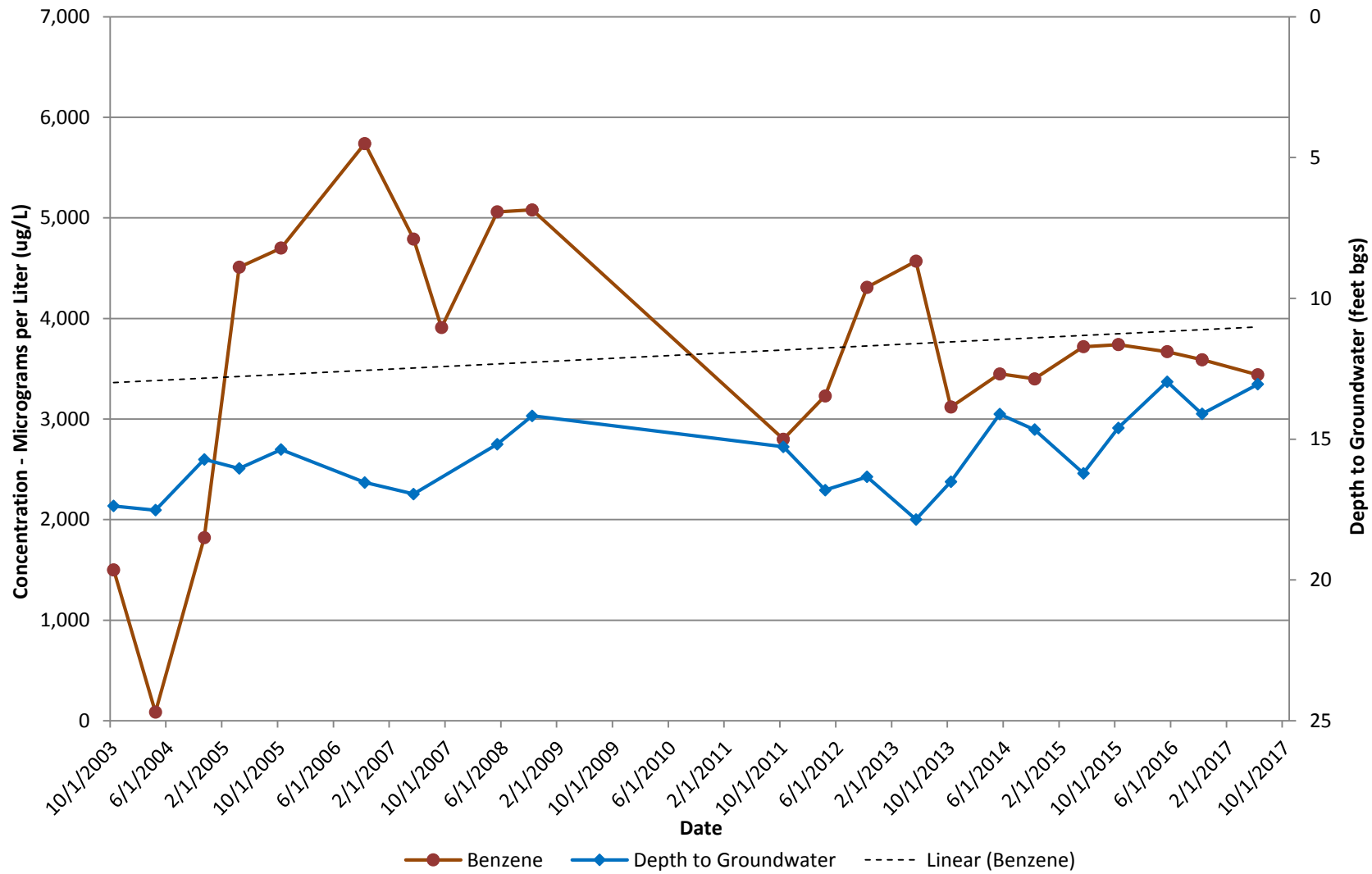
MW-30D
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



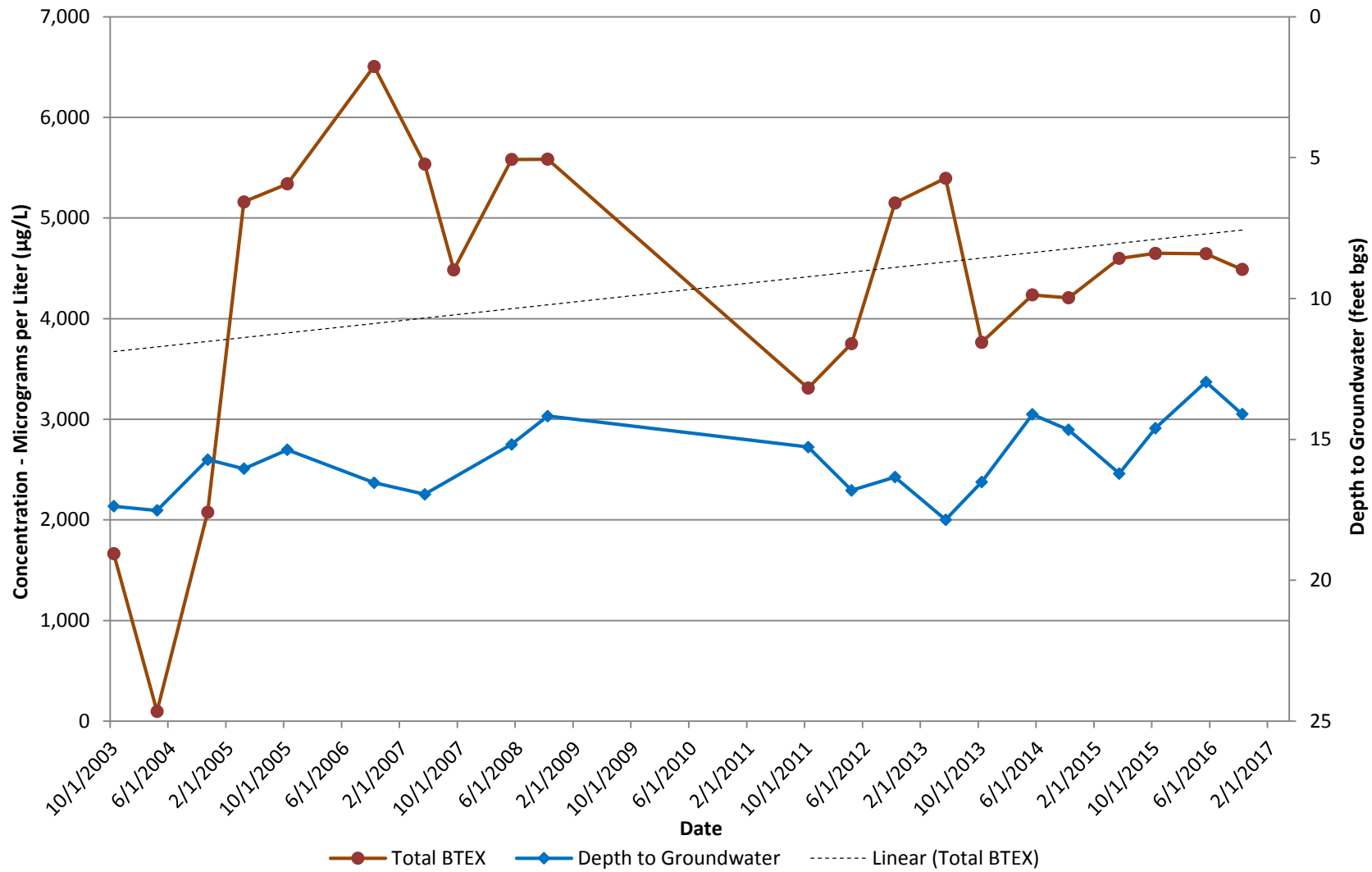
MW-30D
Total BTEX/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



MWT-2D
Benzene/Groundwater Hydrograph
 Former Amoco Terminal
 Superior, Wisconsin



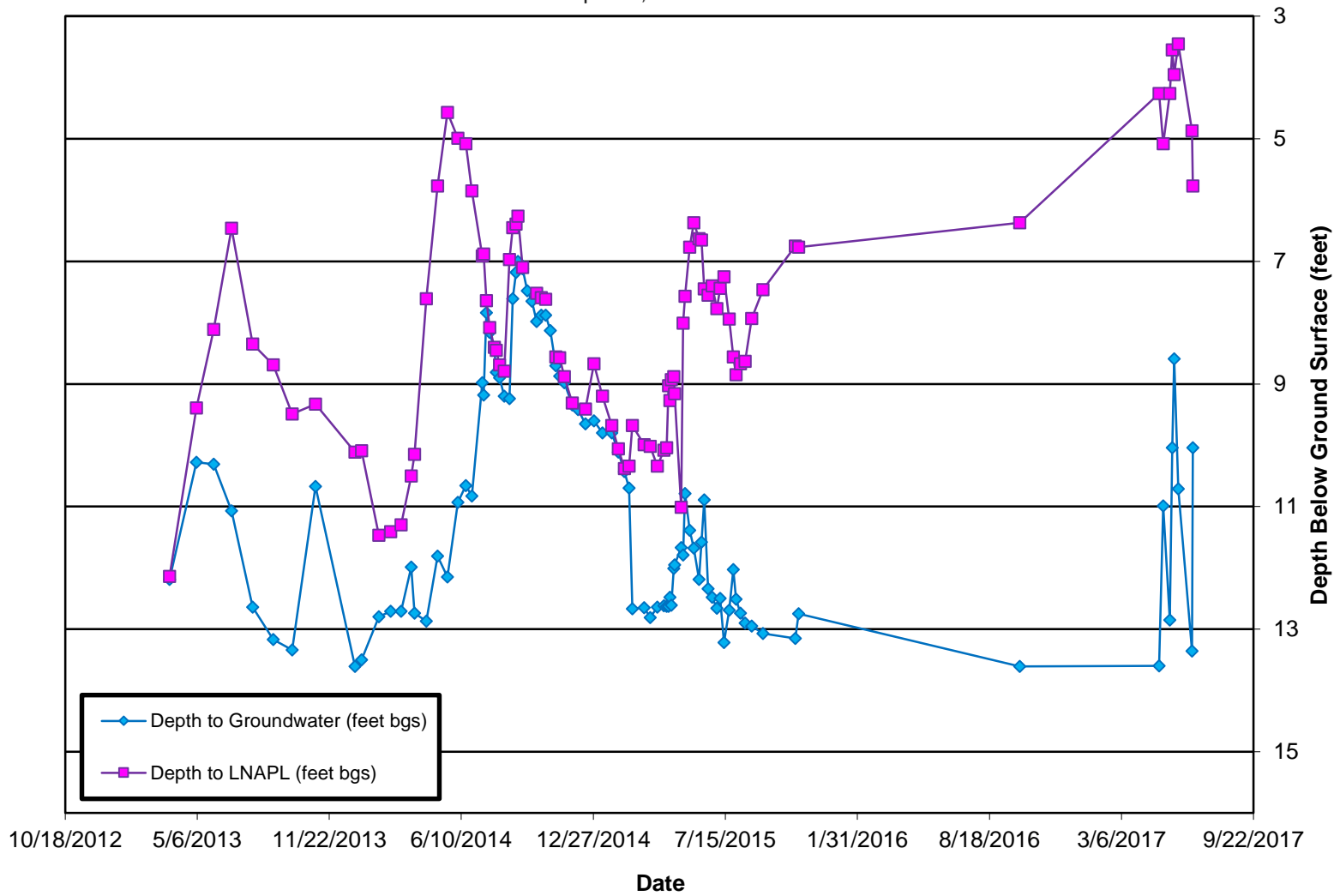
MWT-2D
Total BTEX/Groundwater Hydrograph
Former Amoco Terminal
Superior, Wisconsin



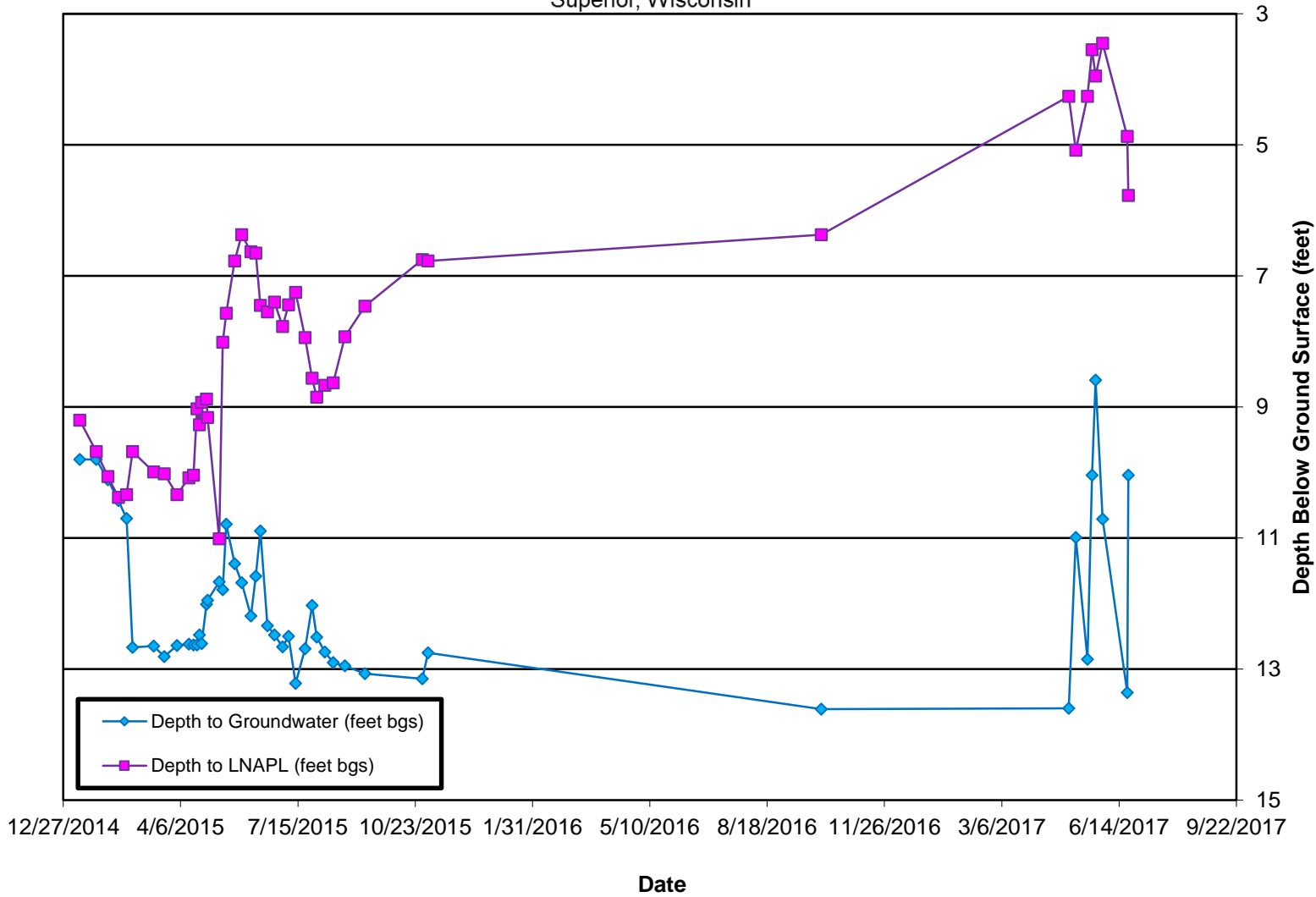
Appendix C

LNAPL and Groundwater Hydrographs

MRW-3 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

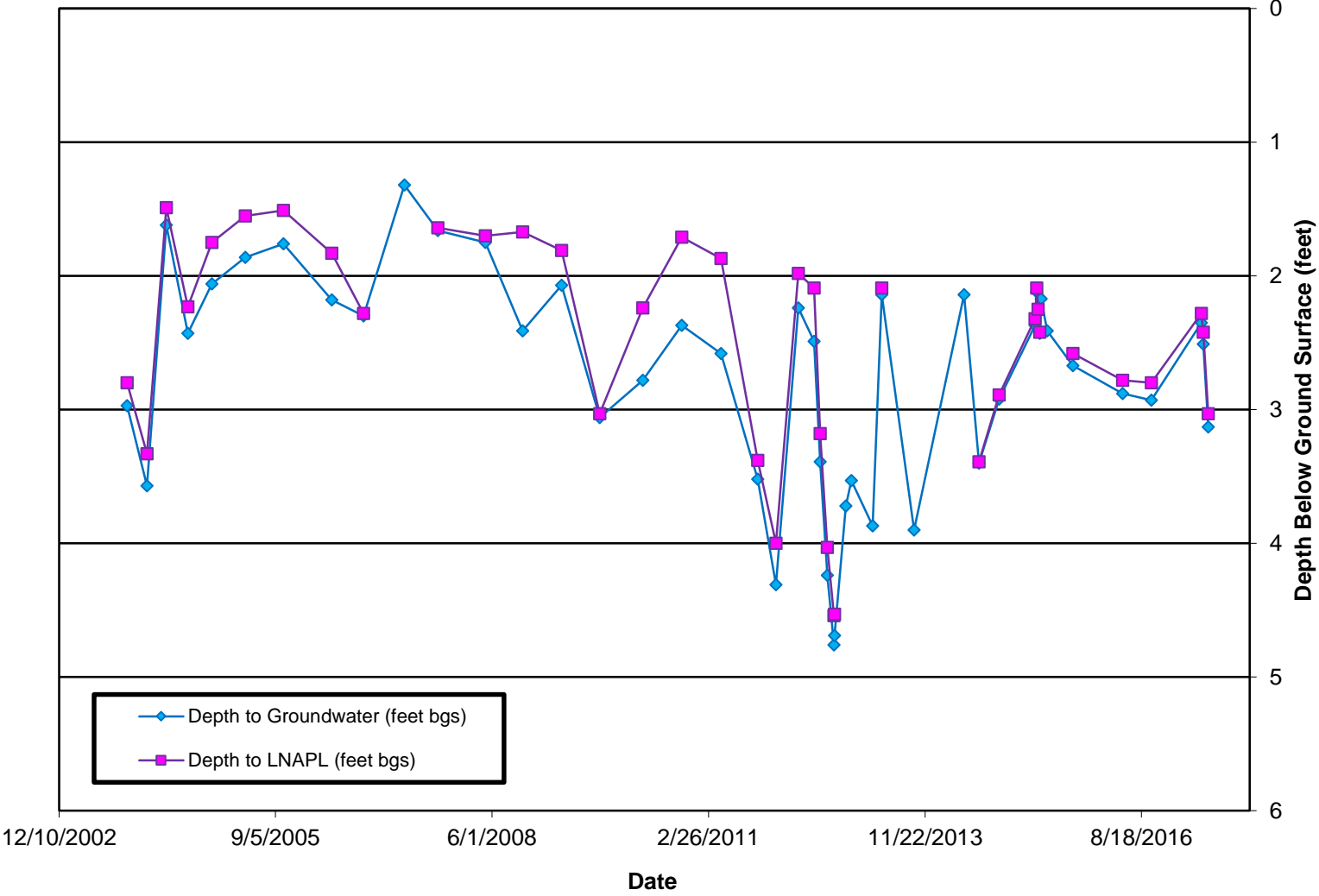


MRW-3 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



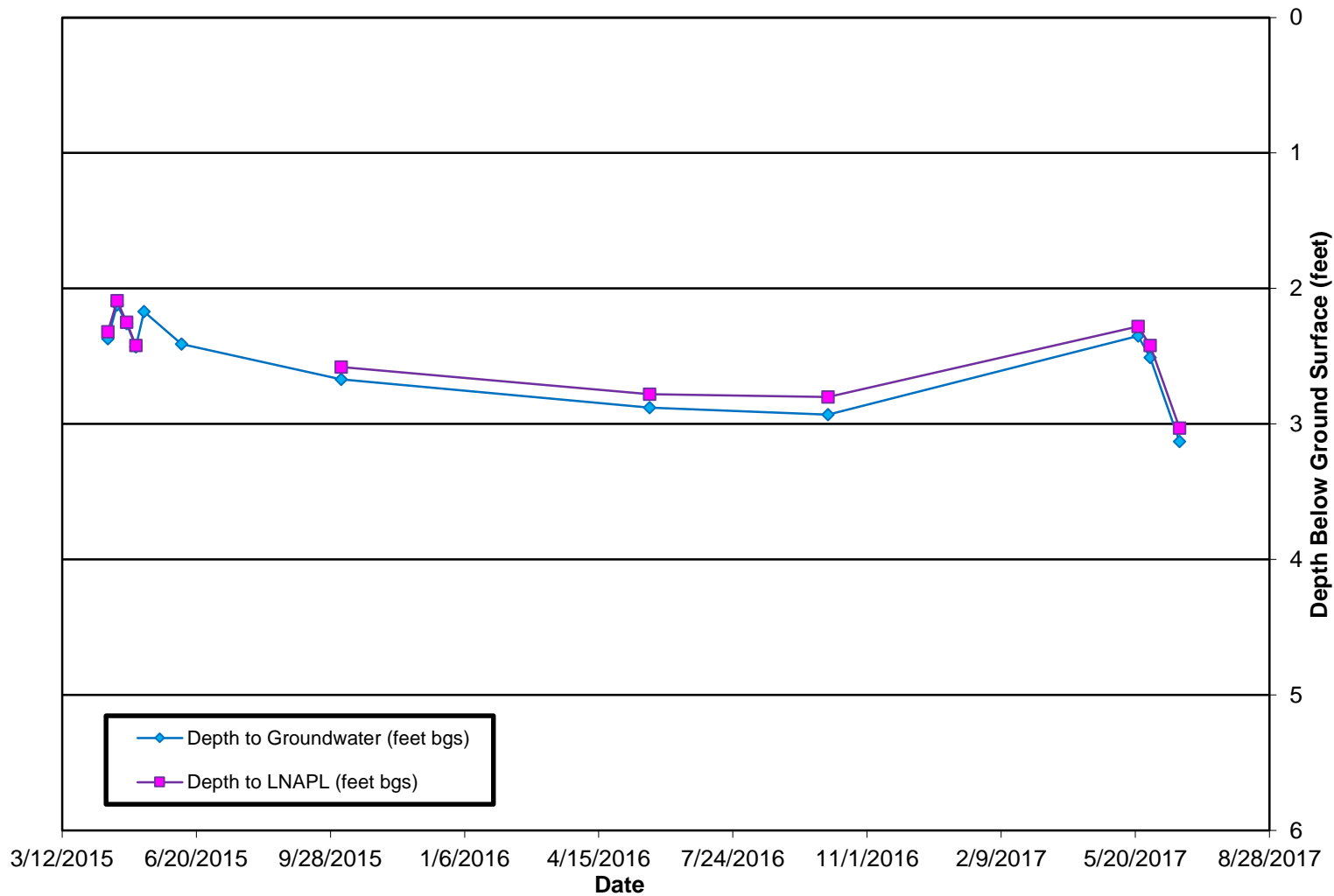
MWOW-1 (AOC 13)
Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin



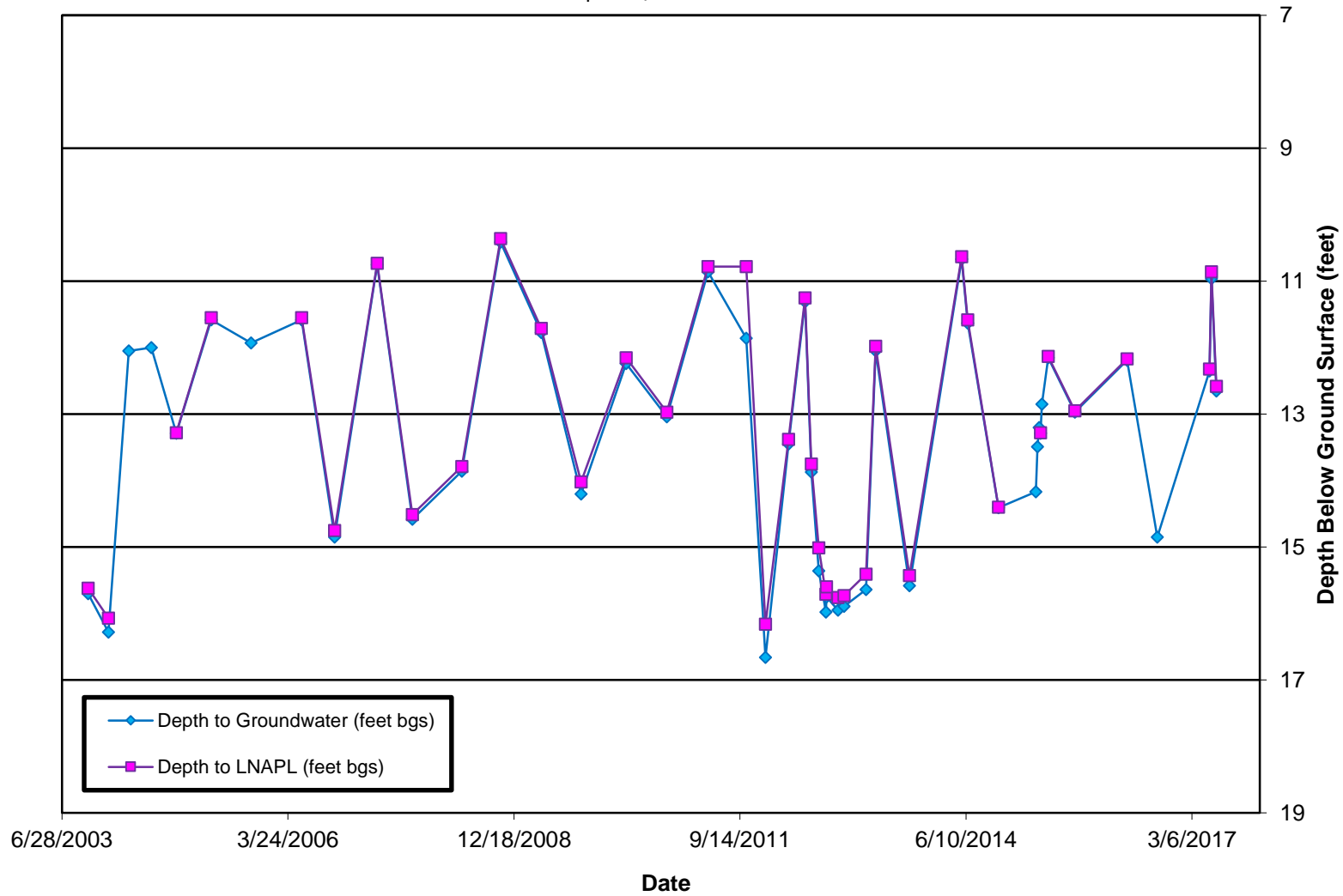
MWOW-1 (AOC 13) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

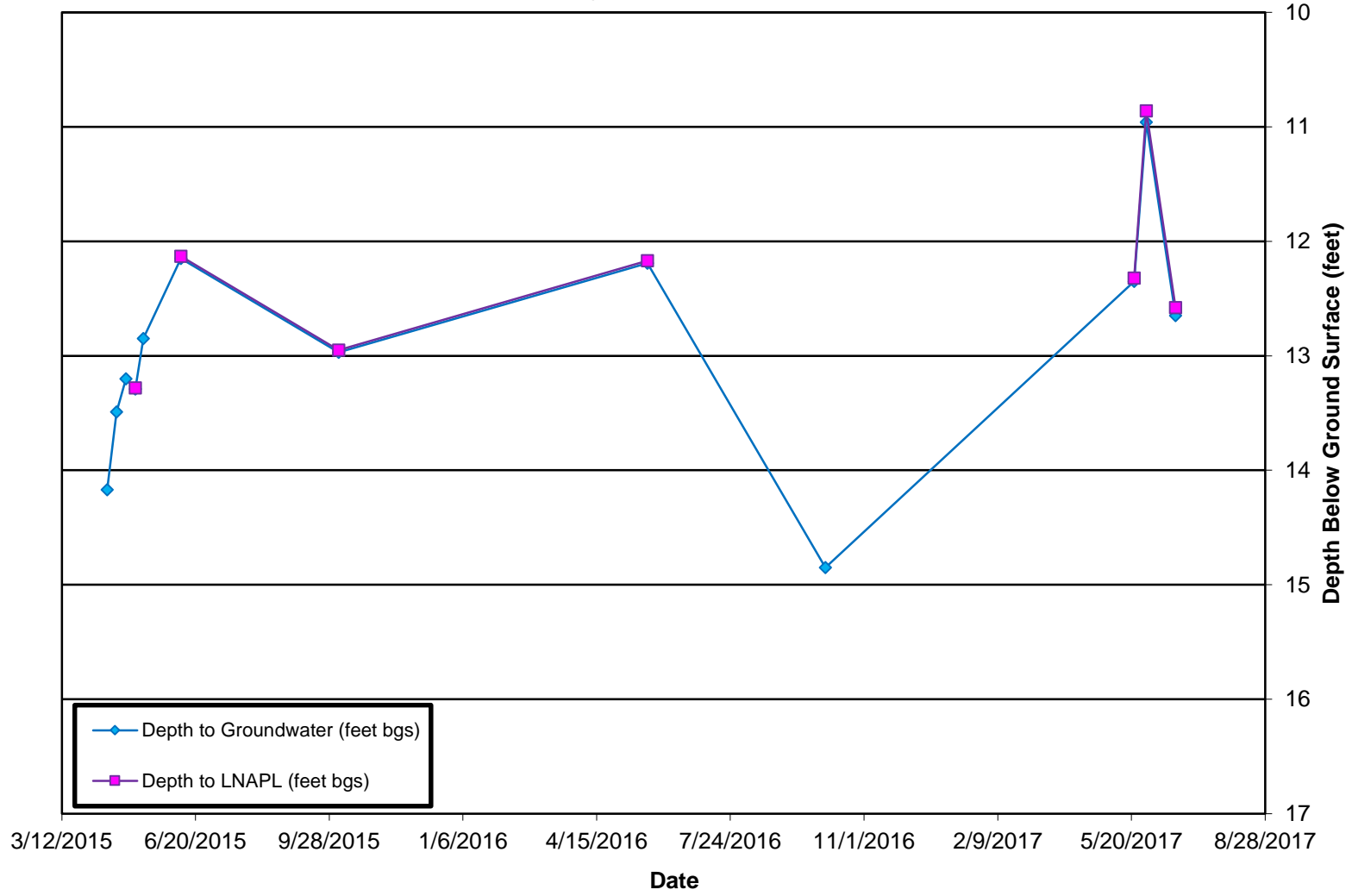


MWOW-5 (AOC 12)
Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

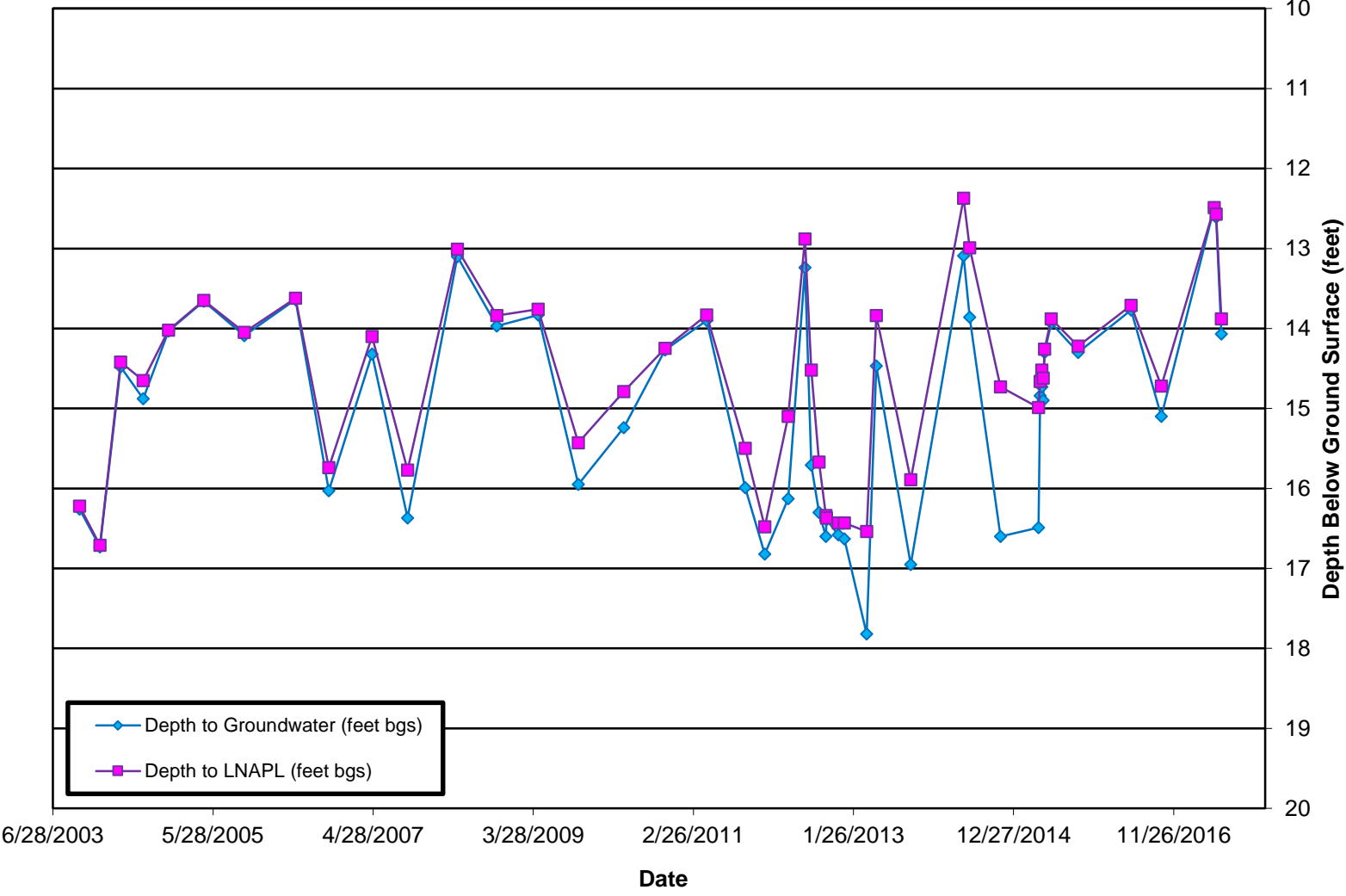


MWOW-5 (AOC 12)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

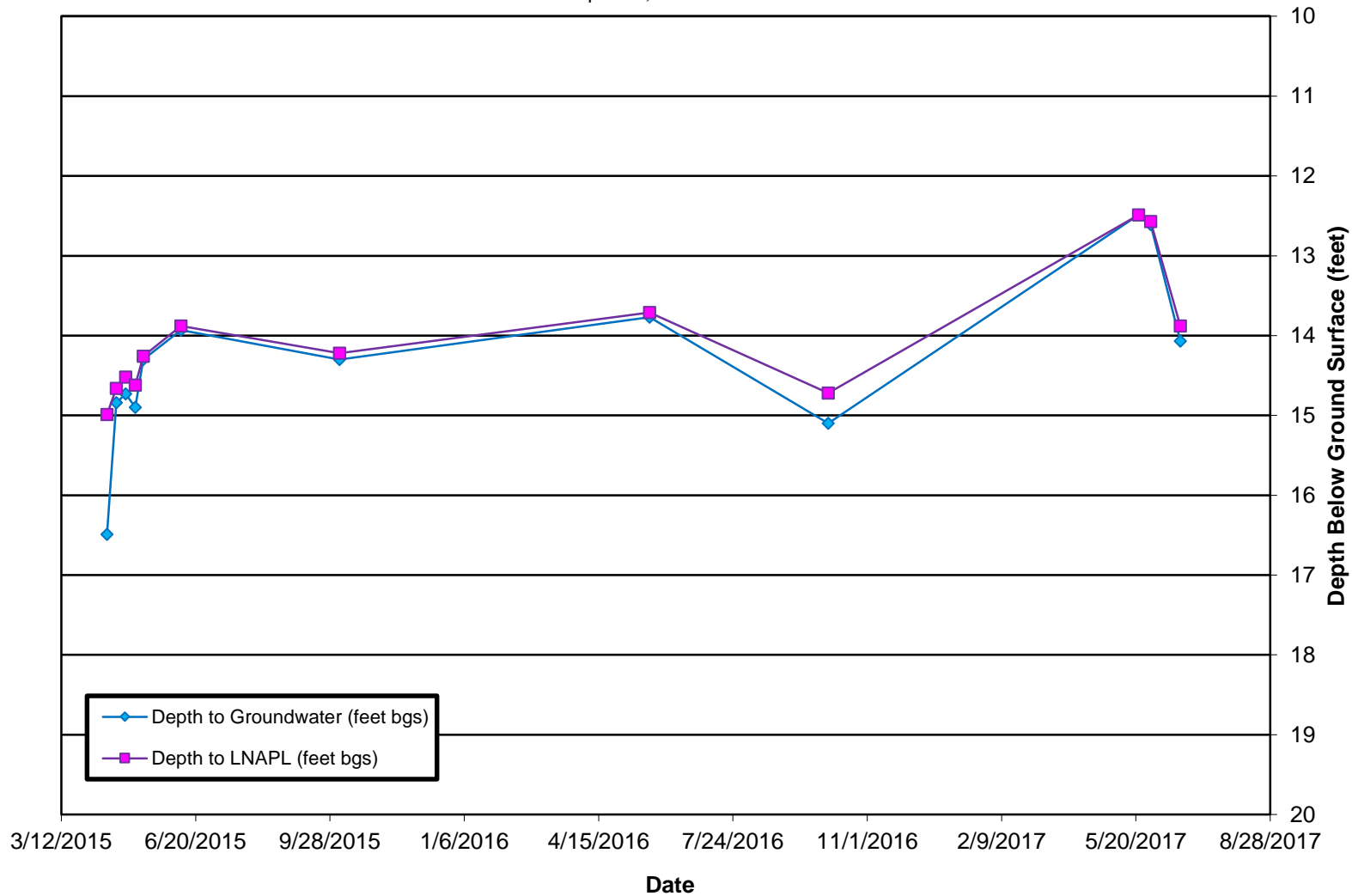


MWRR-8 (AOC 11) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

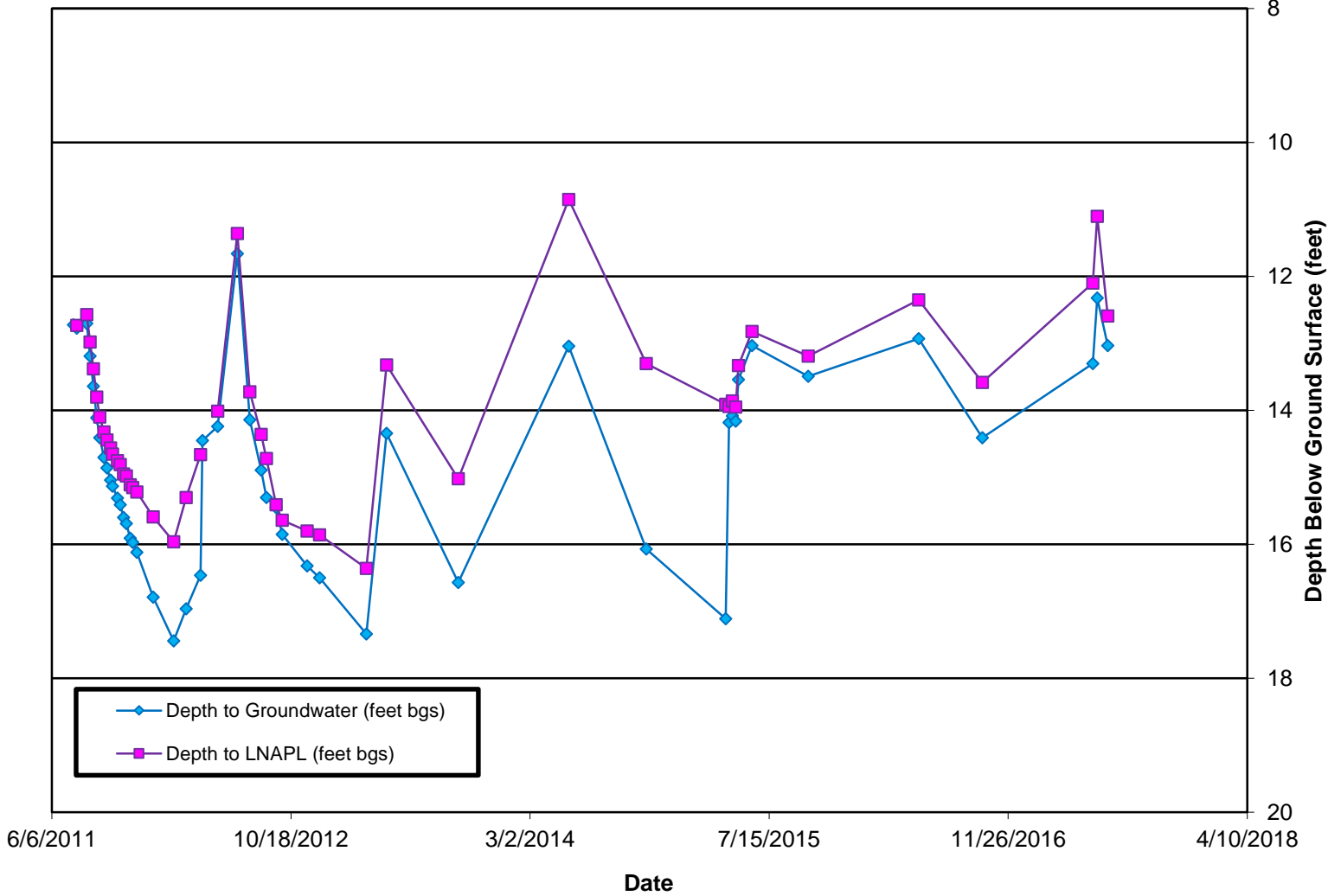


MWRR-8 (AOC 11)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

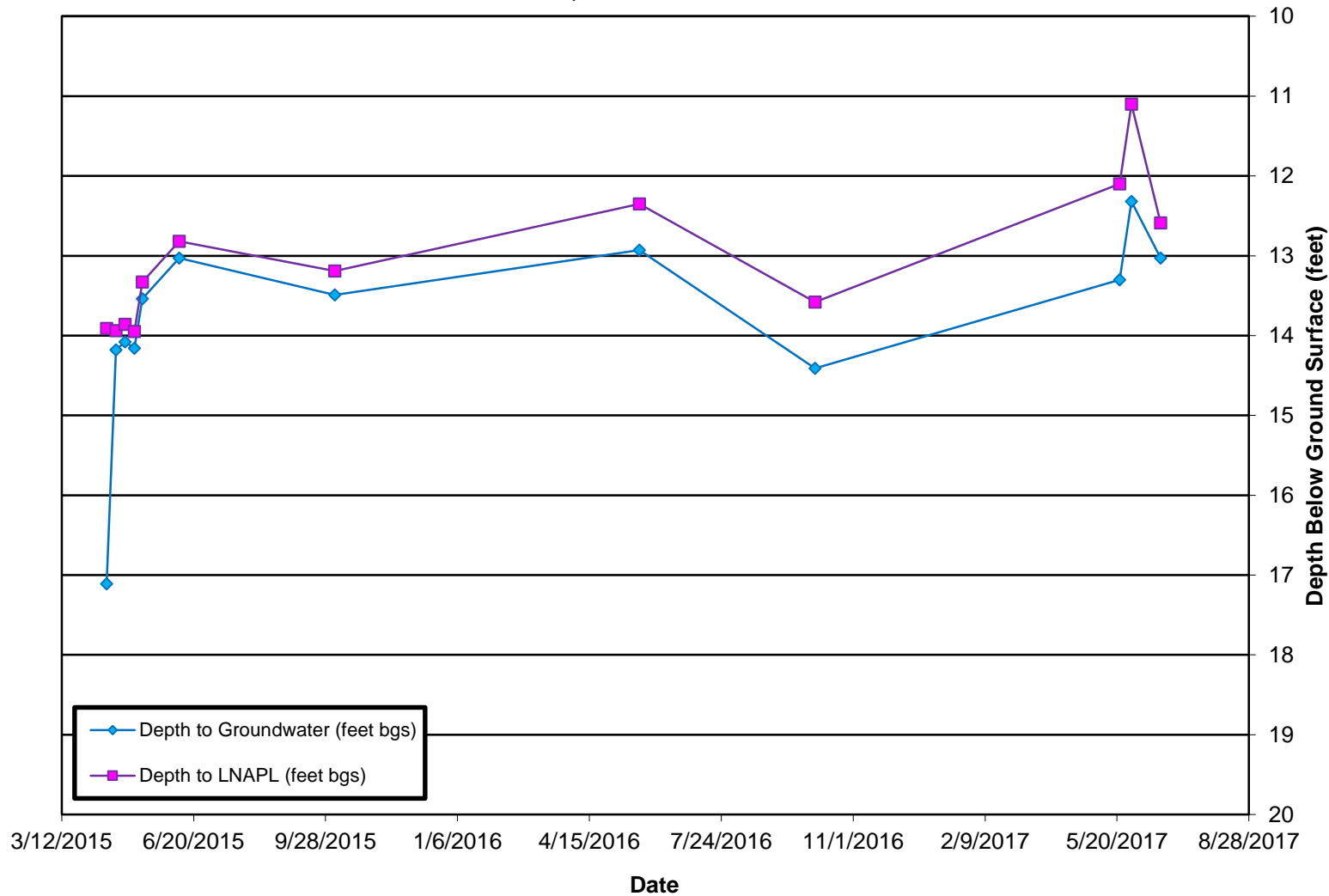


LRMW-11 (AOC 10)
Depth to LNAPL/Groundwater

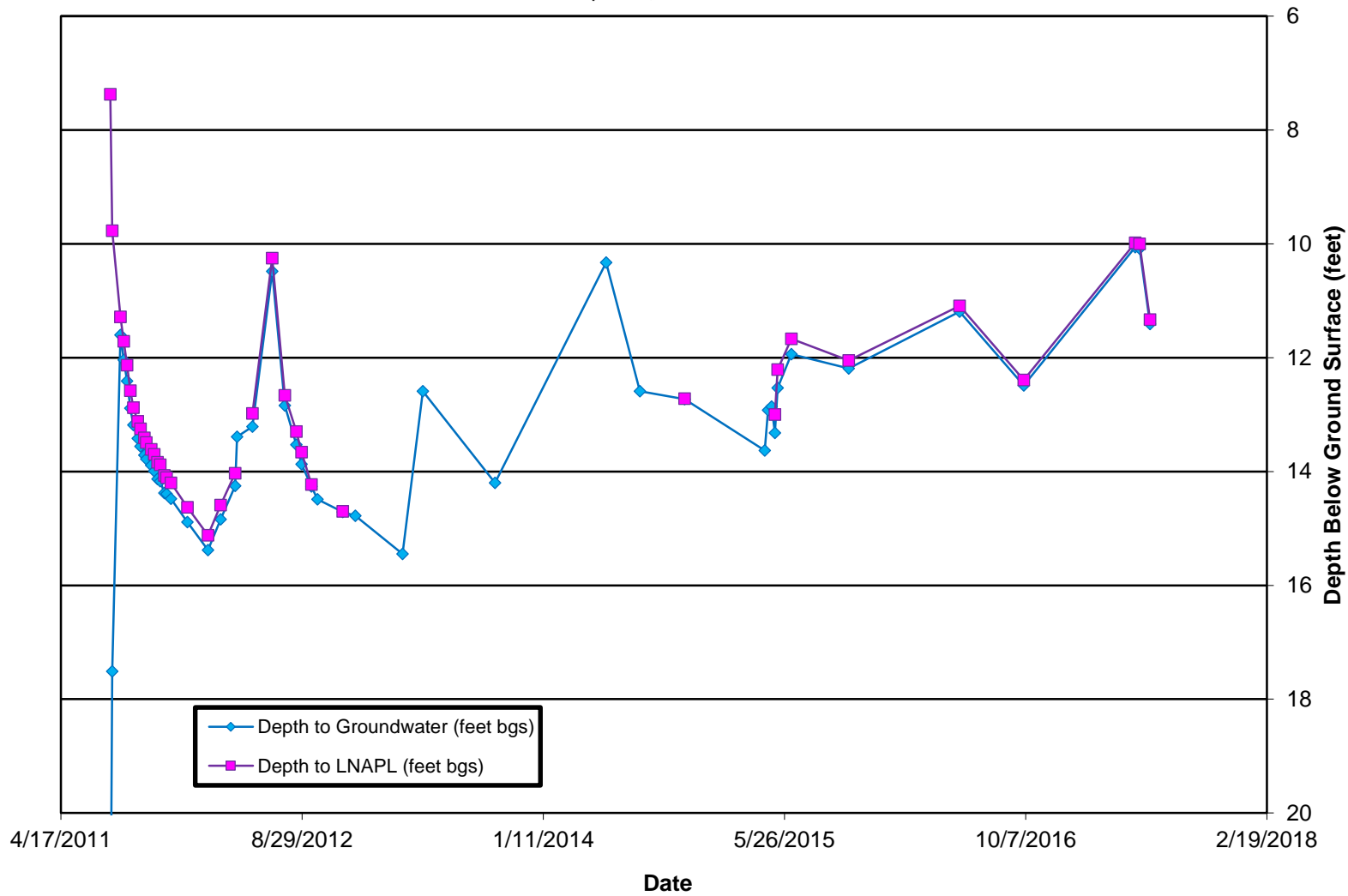
Former Amoco Terminal
Superior, Wisconsin



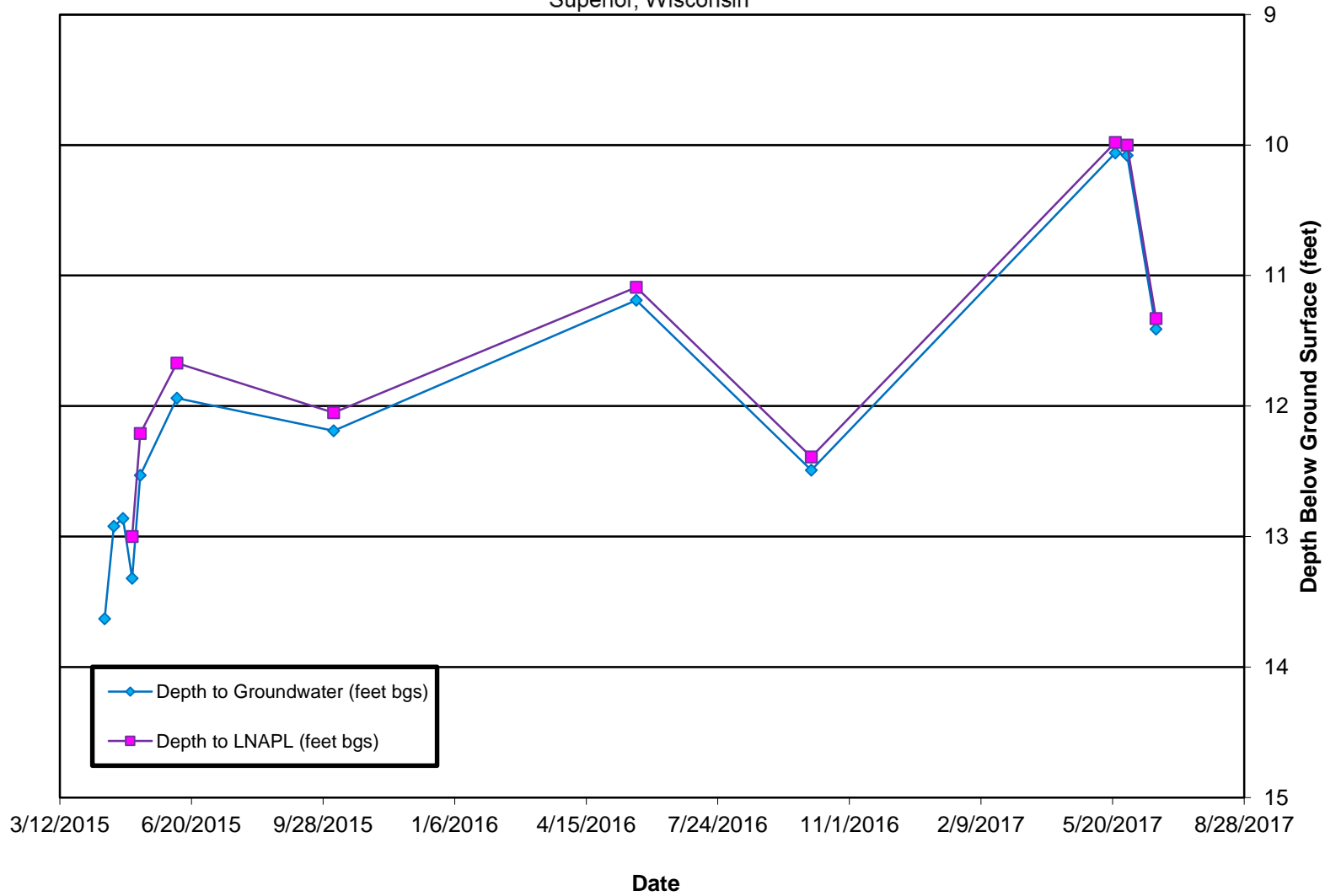
LRMW-11 (AOC 10)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



LRMW-10 (AOC 9)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

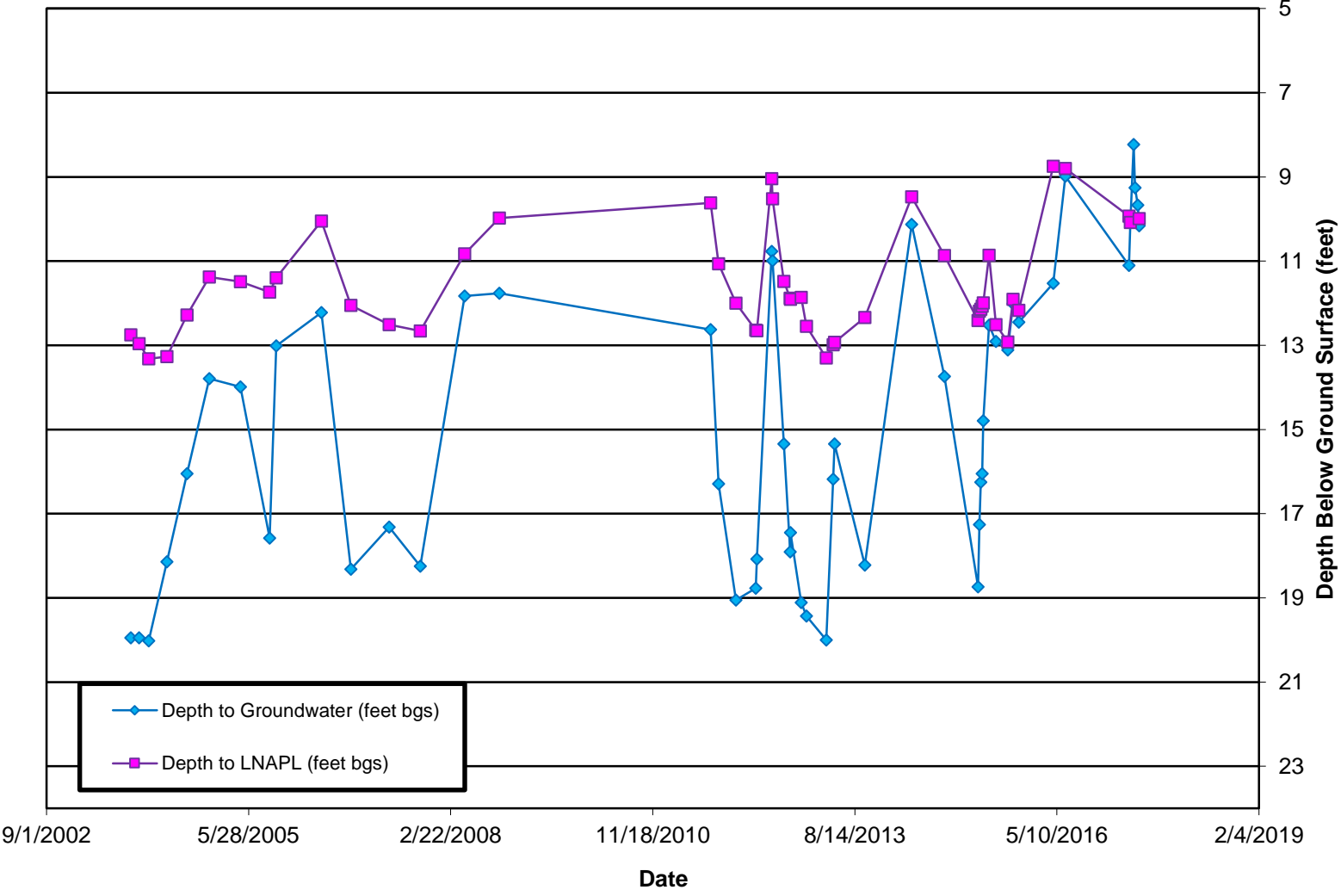


LRMW-10 (AOC 9)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

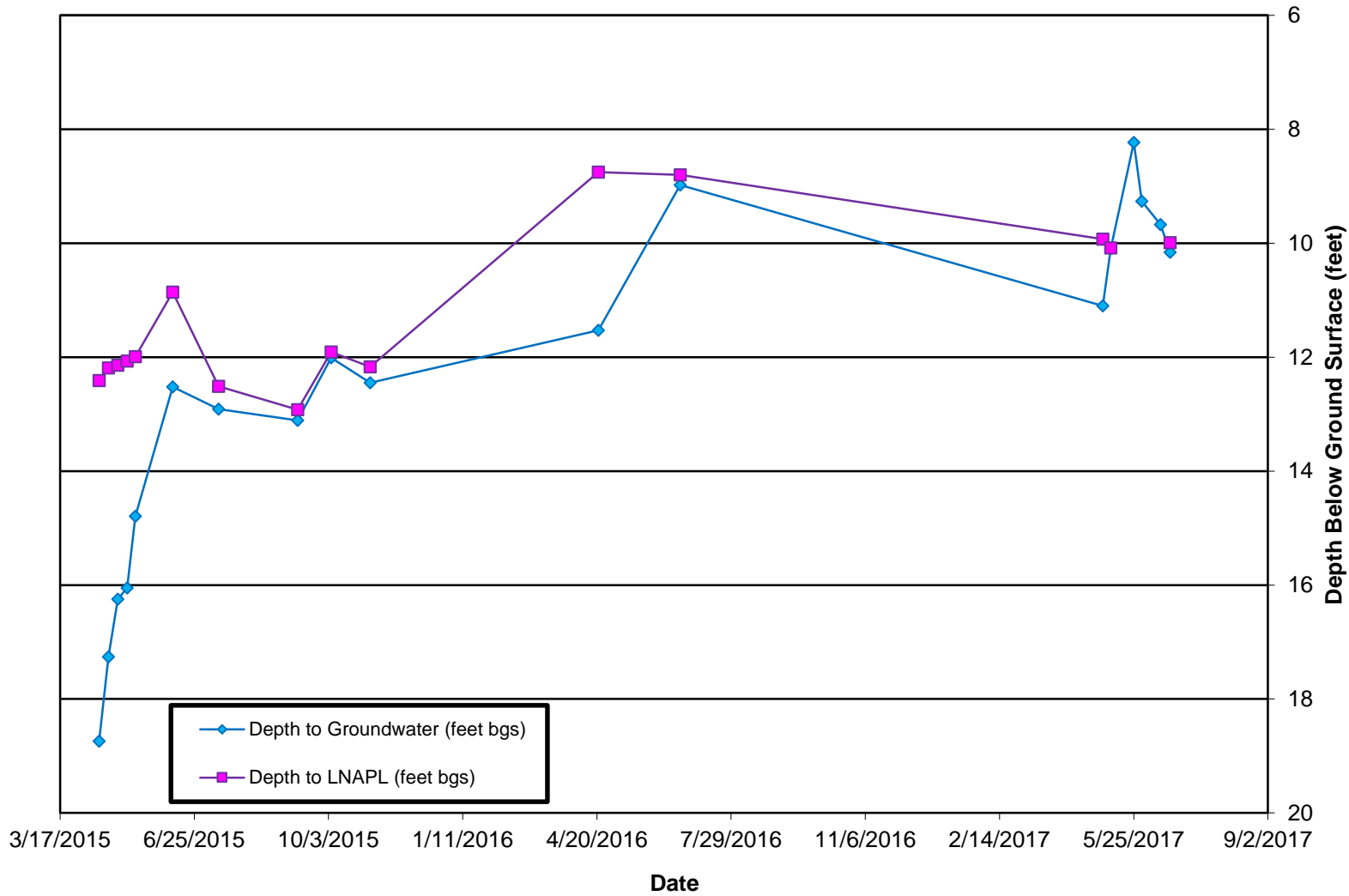


MWAST-4 (AOC 6)
Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

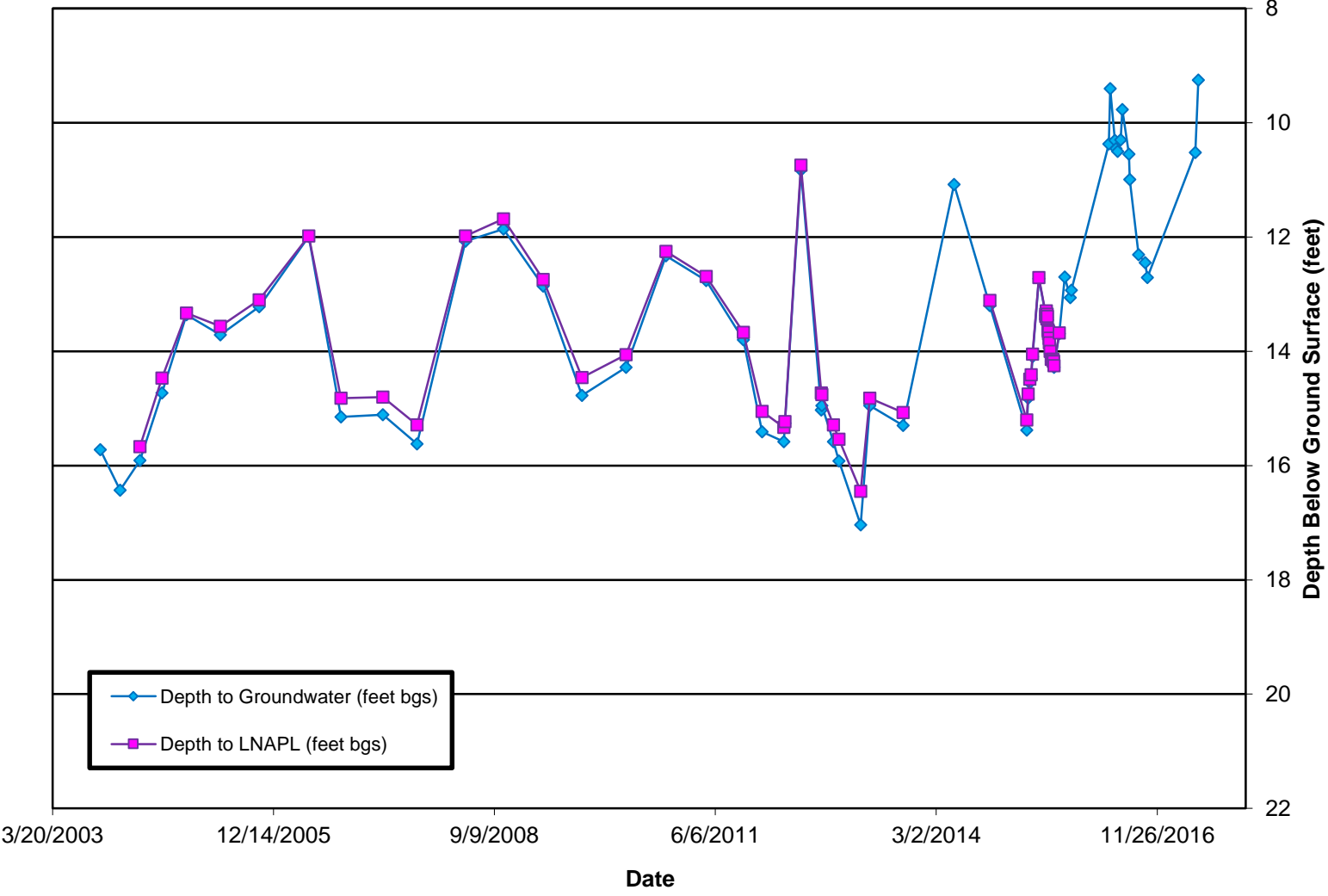


MWAST-4 (AOC 6)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

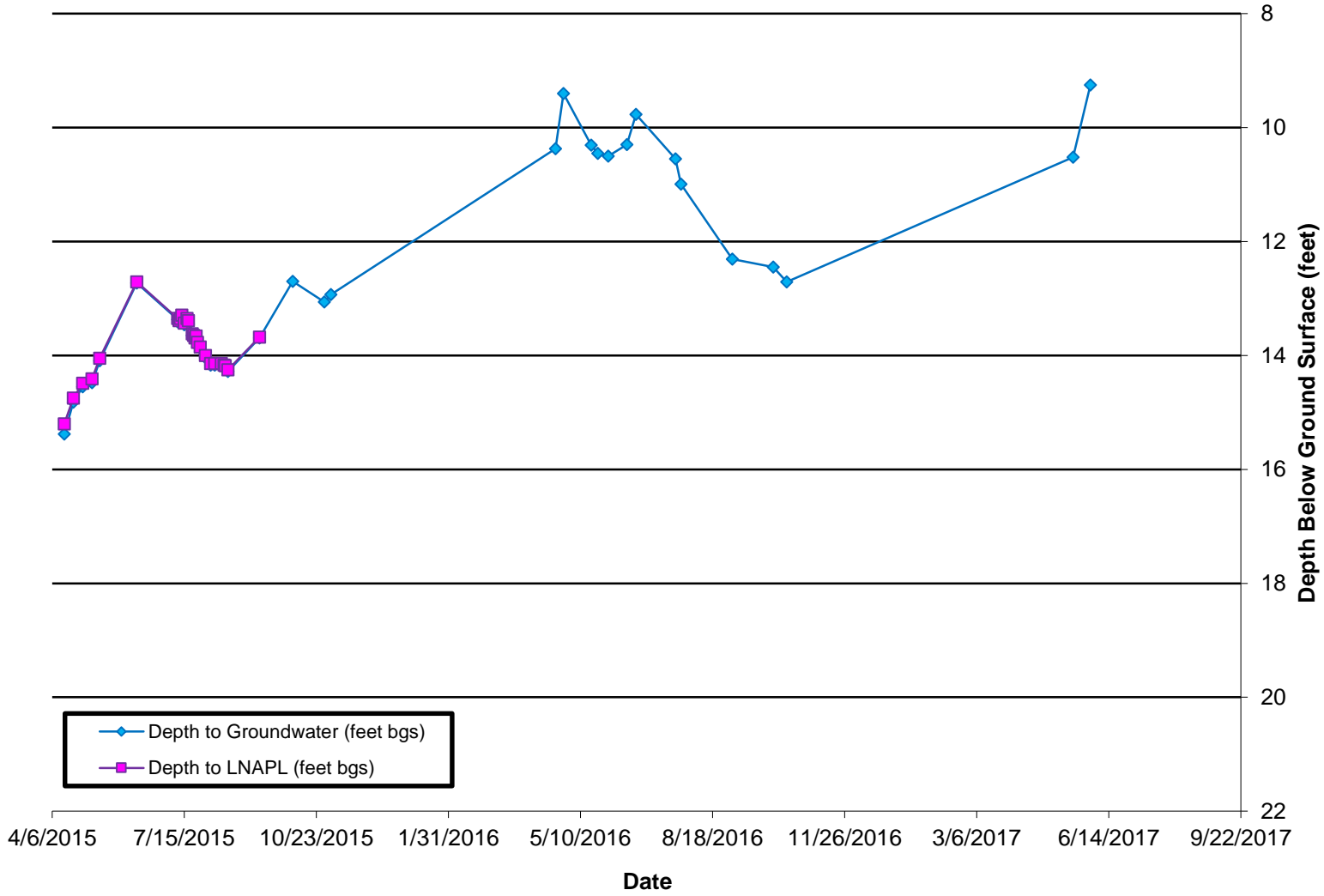


MWAST-8 (AOC 6) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

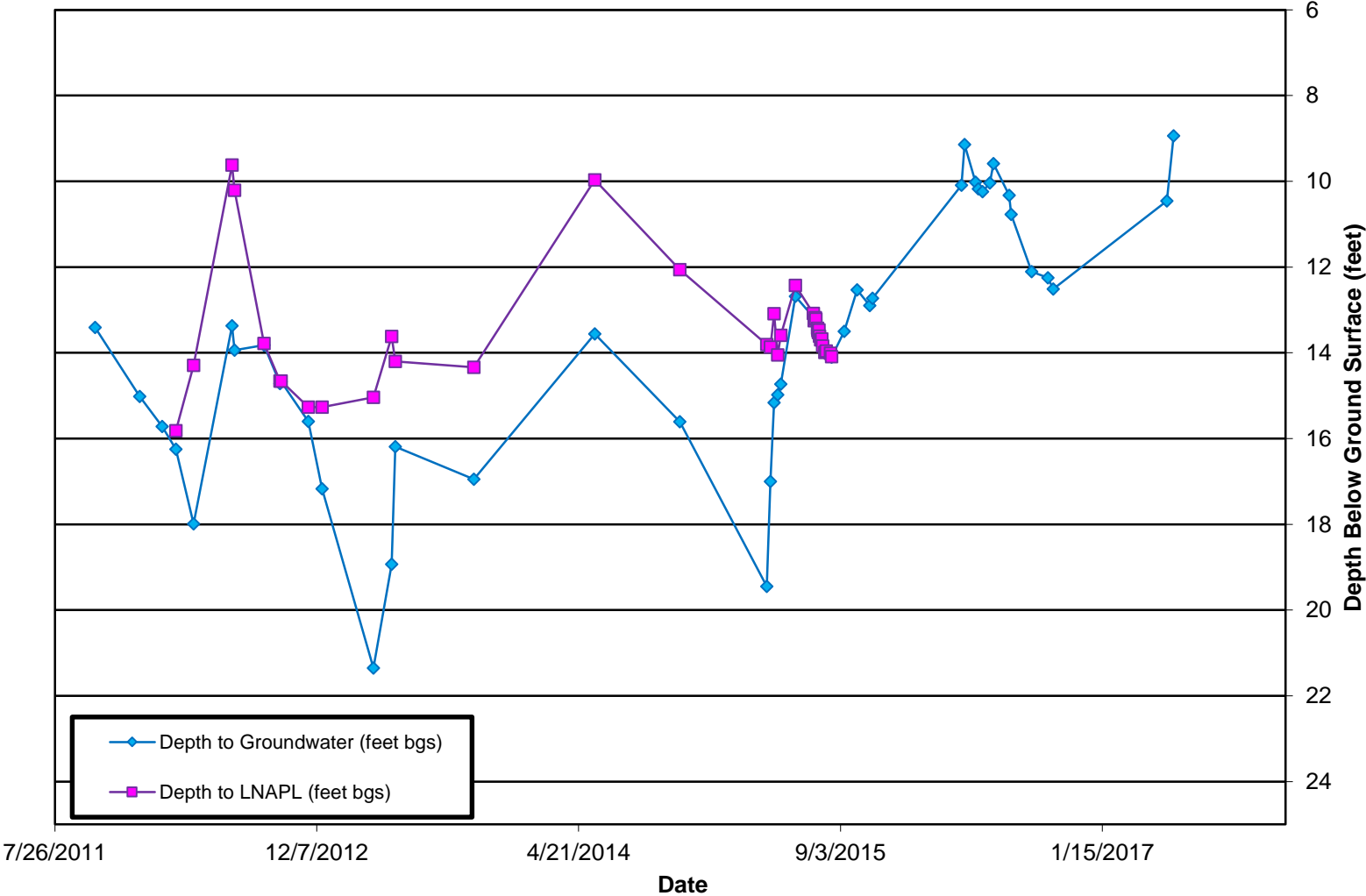


MWAST-8 (AOC 6)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



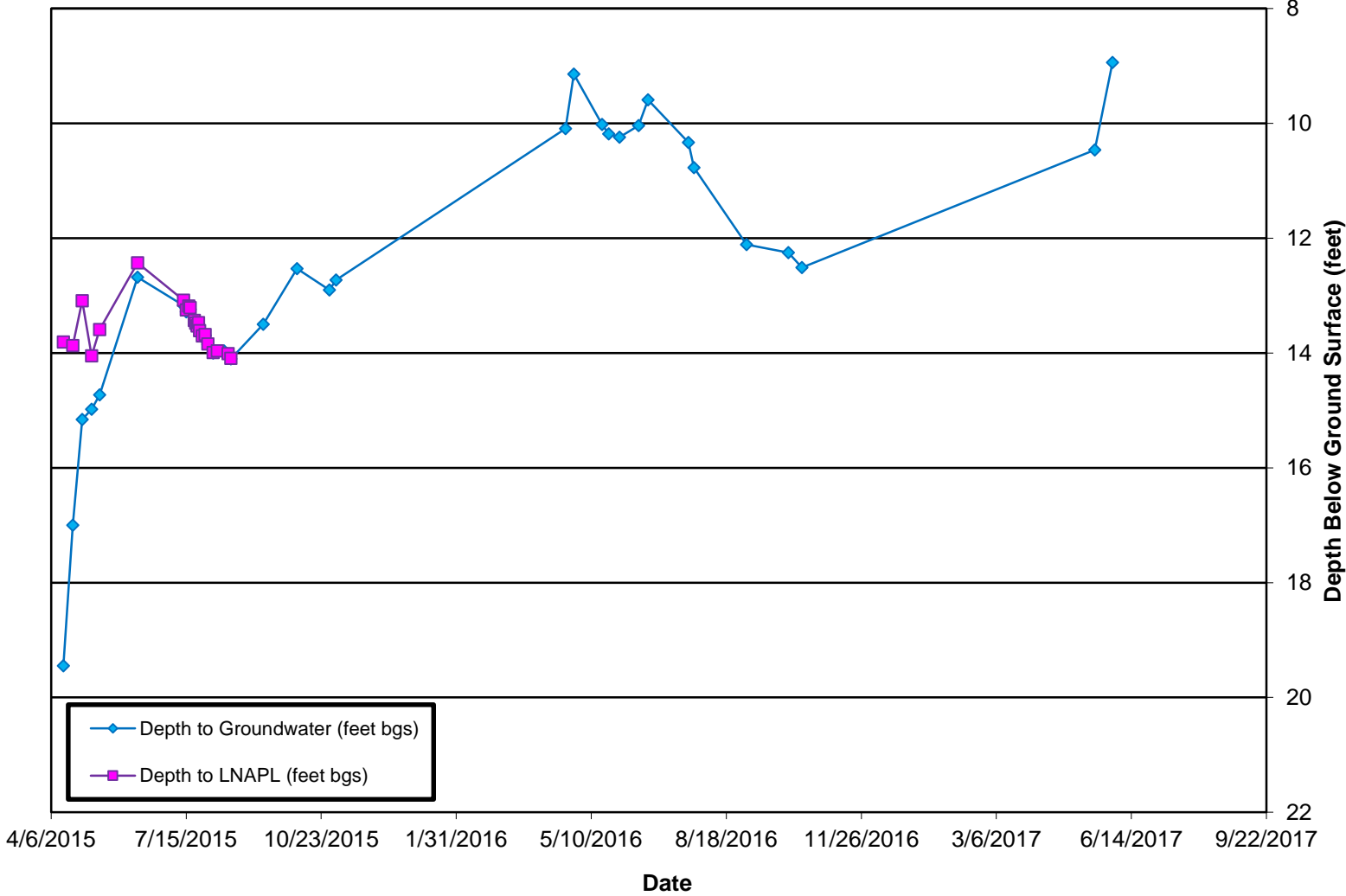
RWAST-2 (AOC 6)
Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

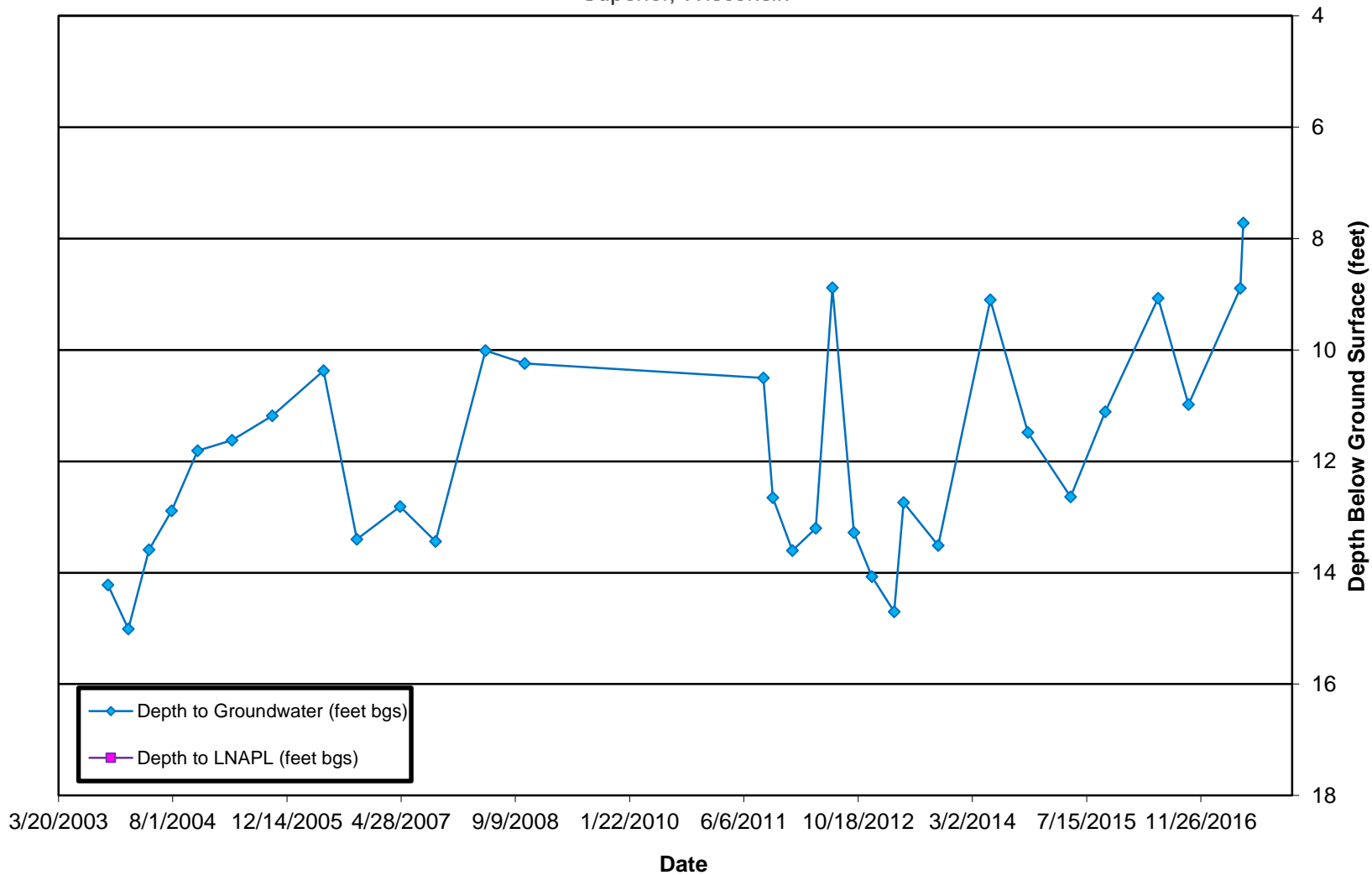


RWAST-2 (AOC 6) Depth to LNAPL/Groundwater

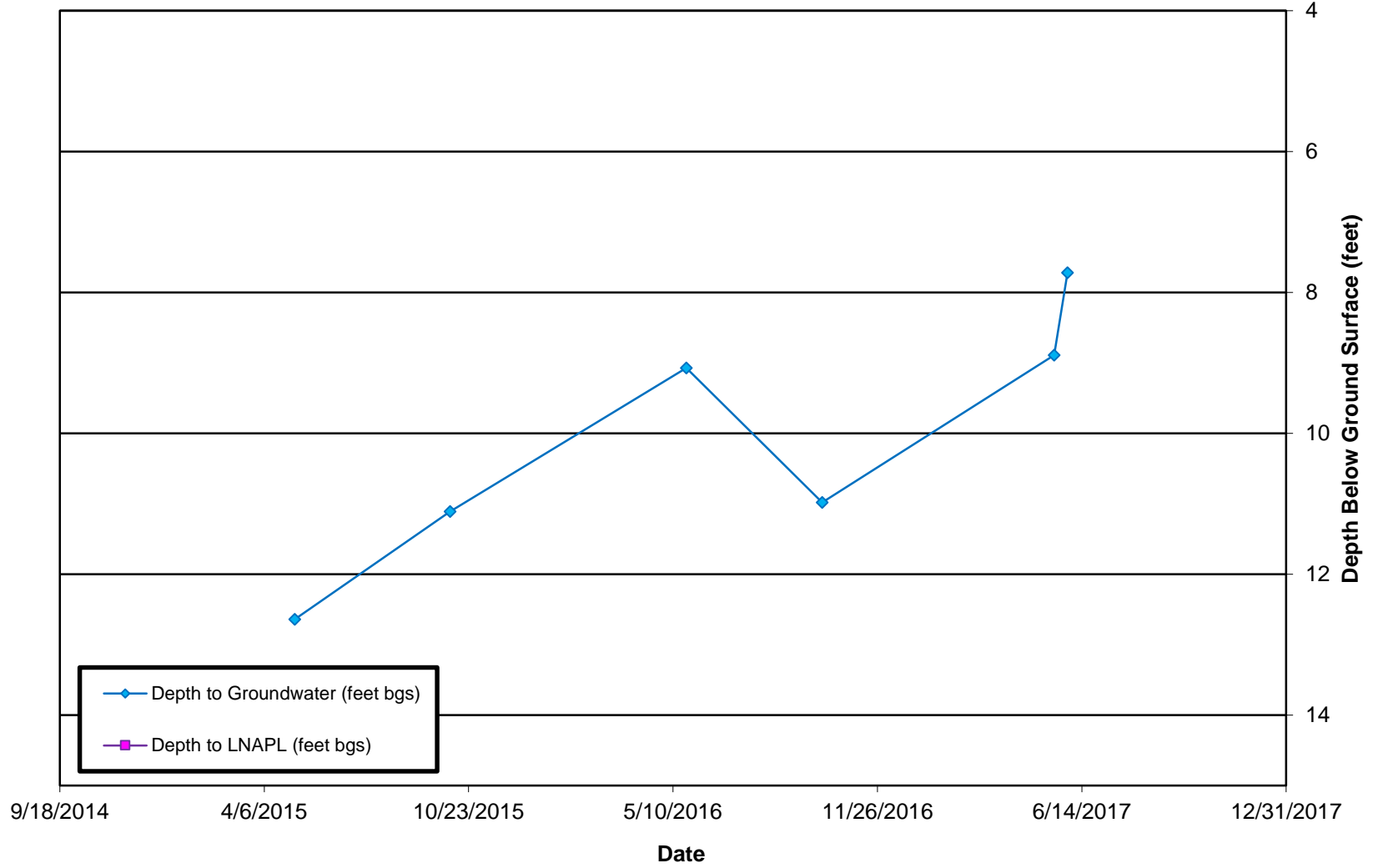
Former Amoco Terminal
Superior, Wisconsin



MWM-4 (near AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

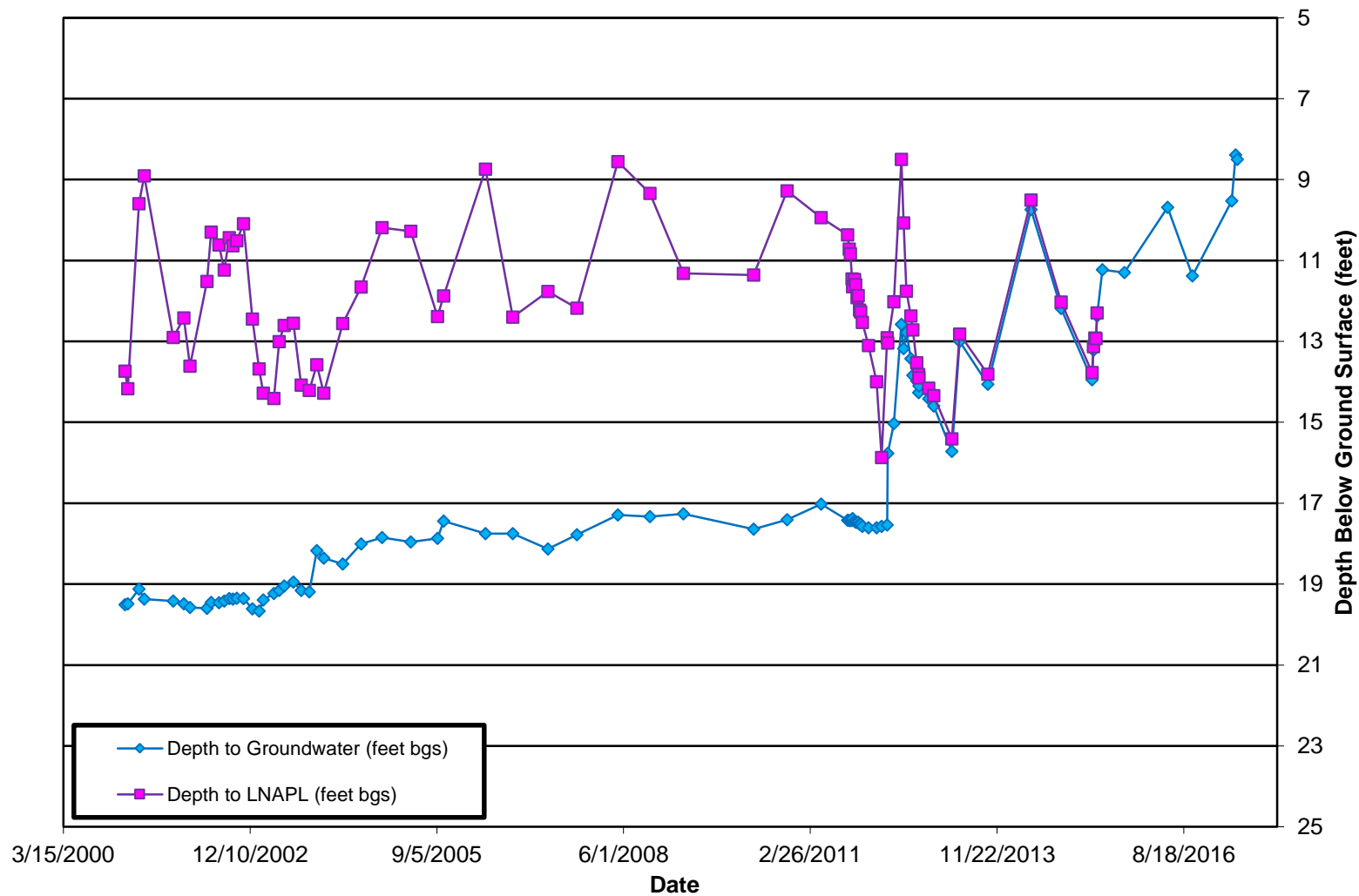


MWM-4 (near AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

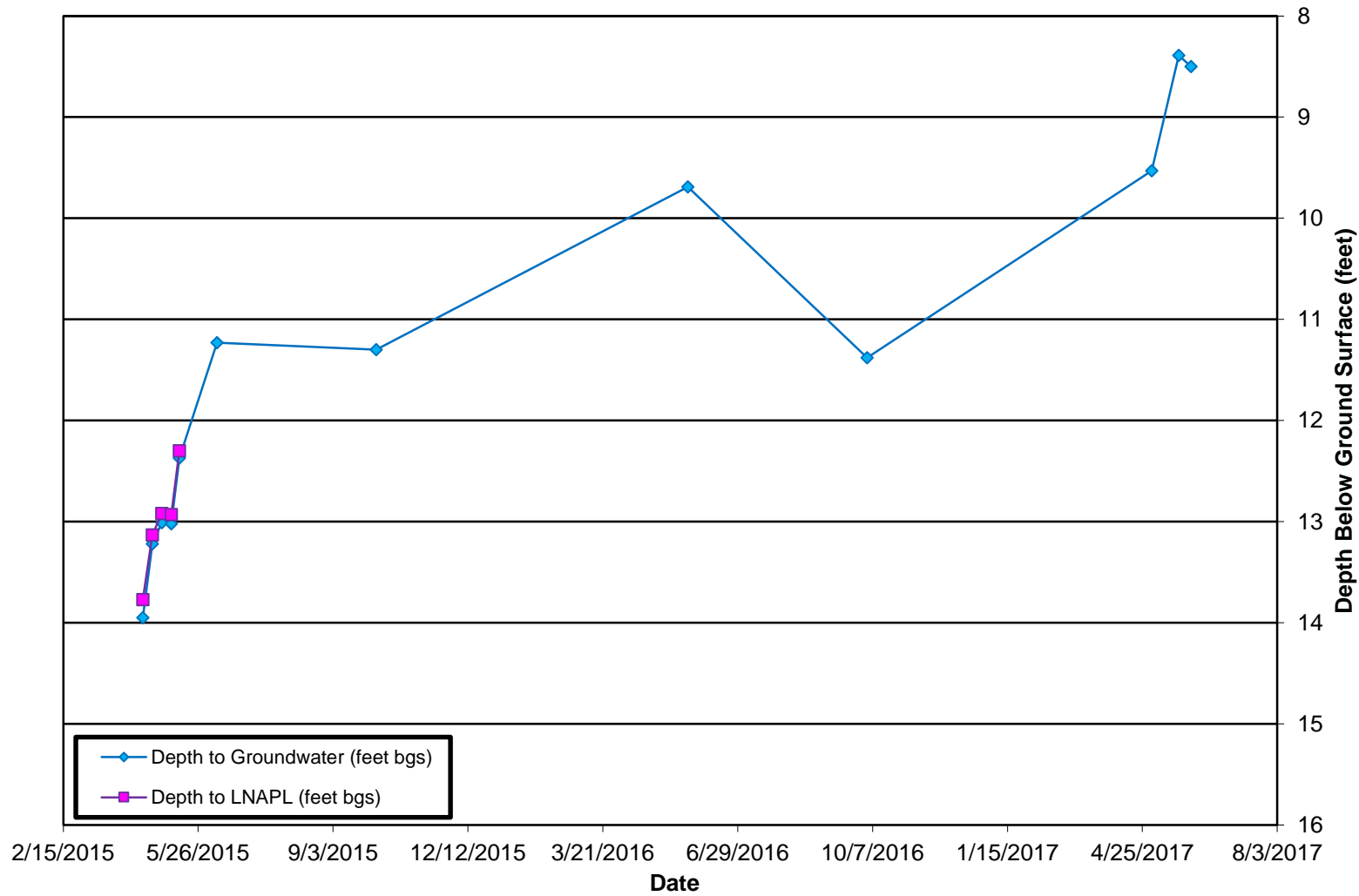


LRMW-1 (AOC 8) Depth to LNAPL/Groundwater

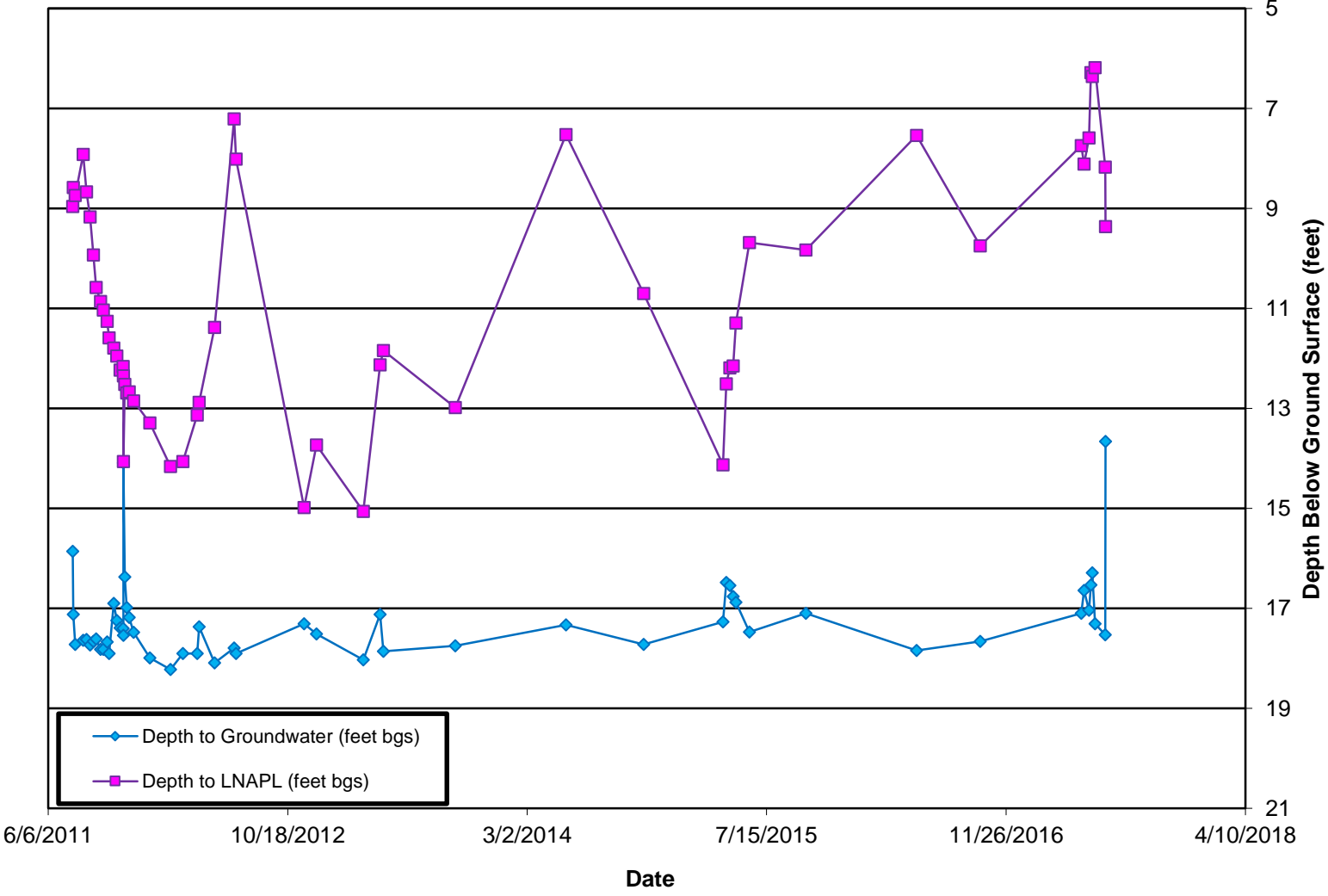
Former Amoco Terminal
Superior, Wisconsin



LRMW-1 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin

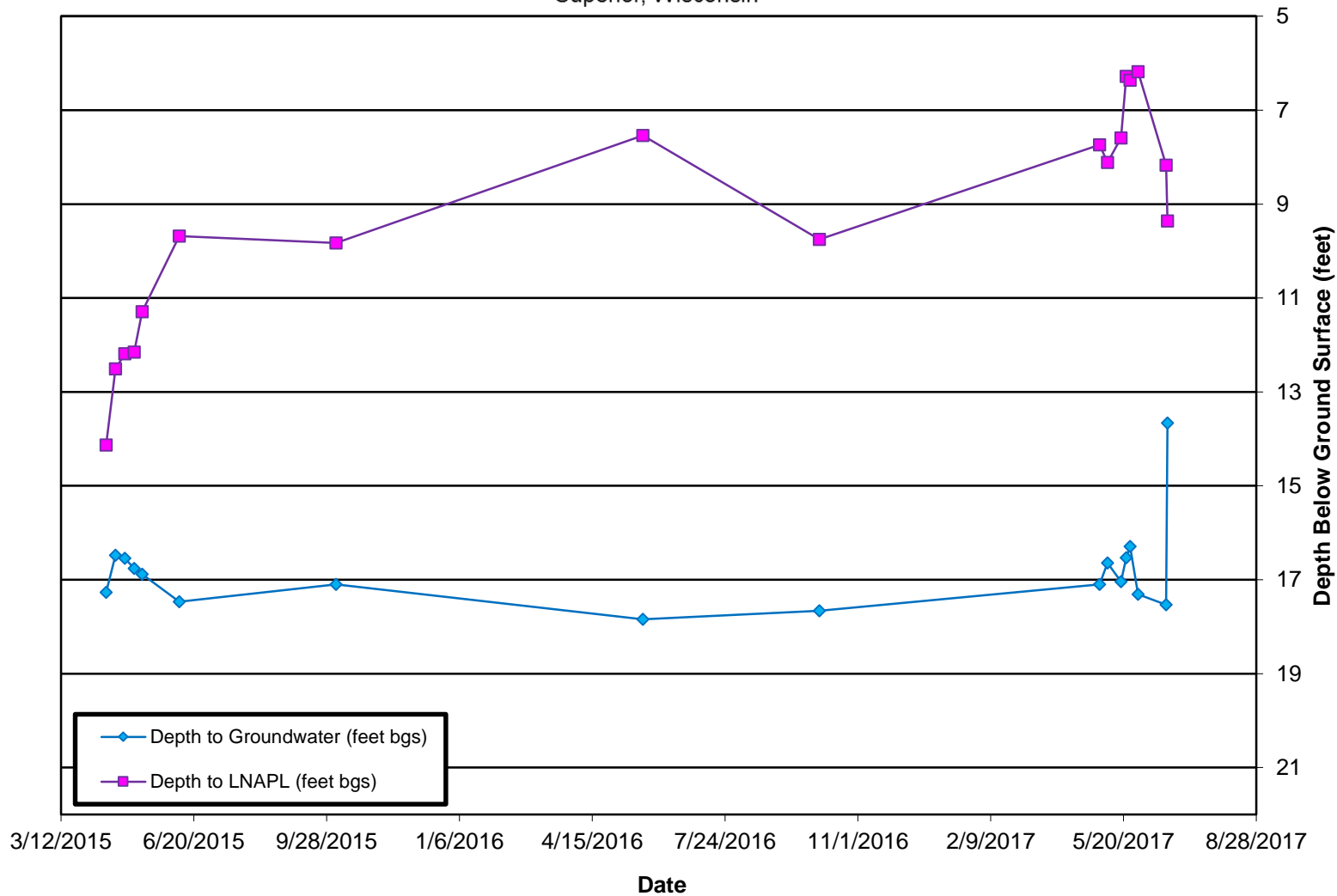


LRMW-7 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



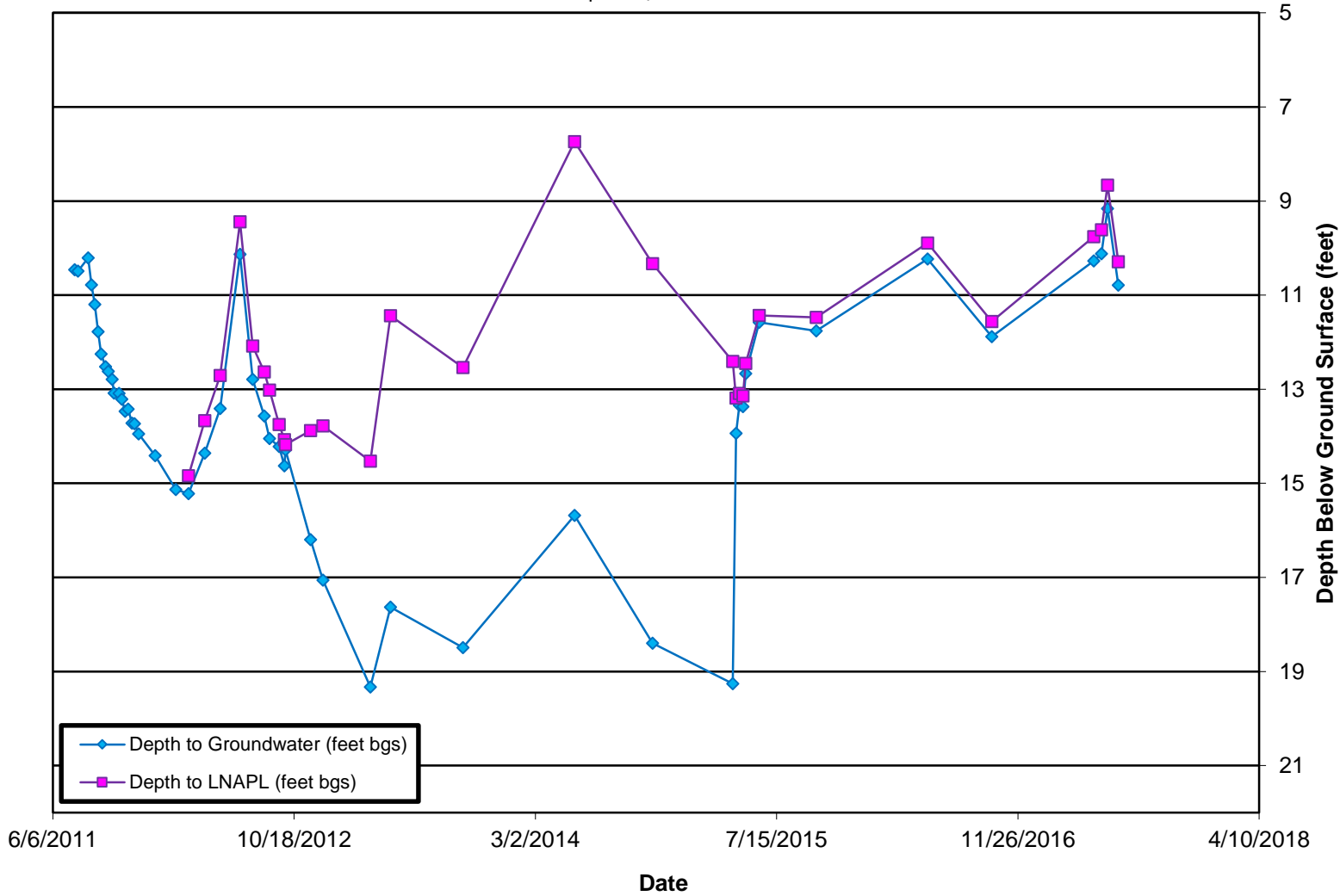
LRMW-7 (AOC 8) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

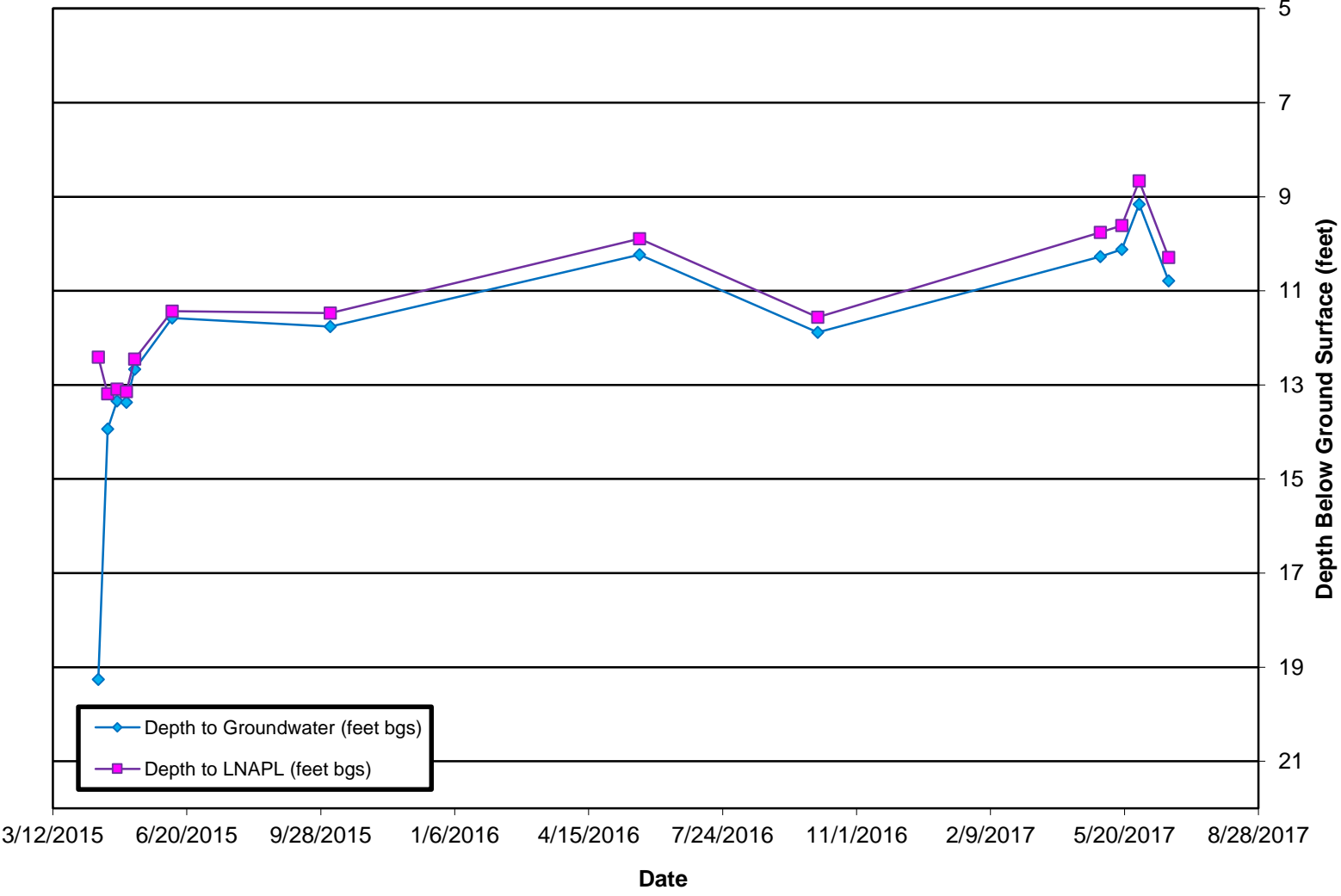


LRMW-8 (AOC 8) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

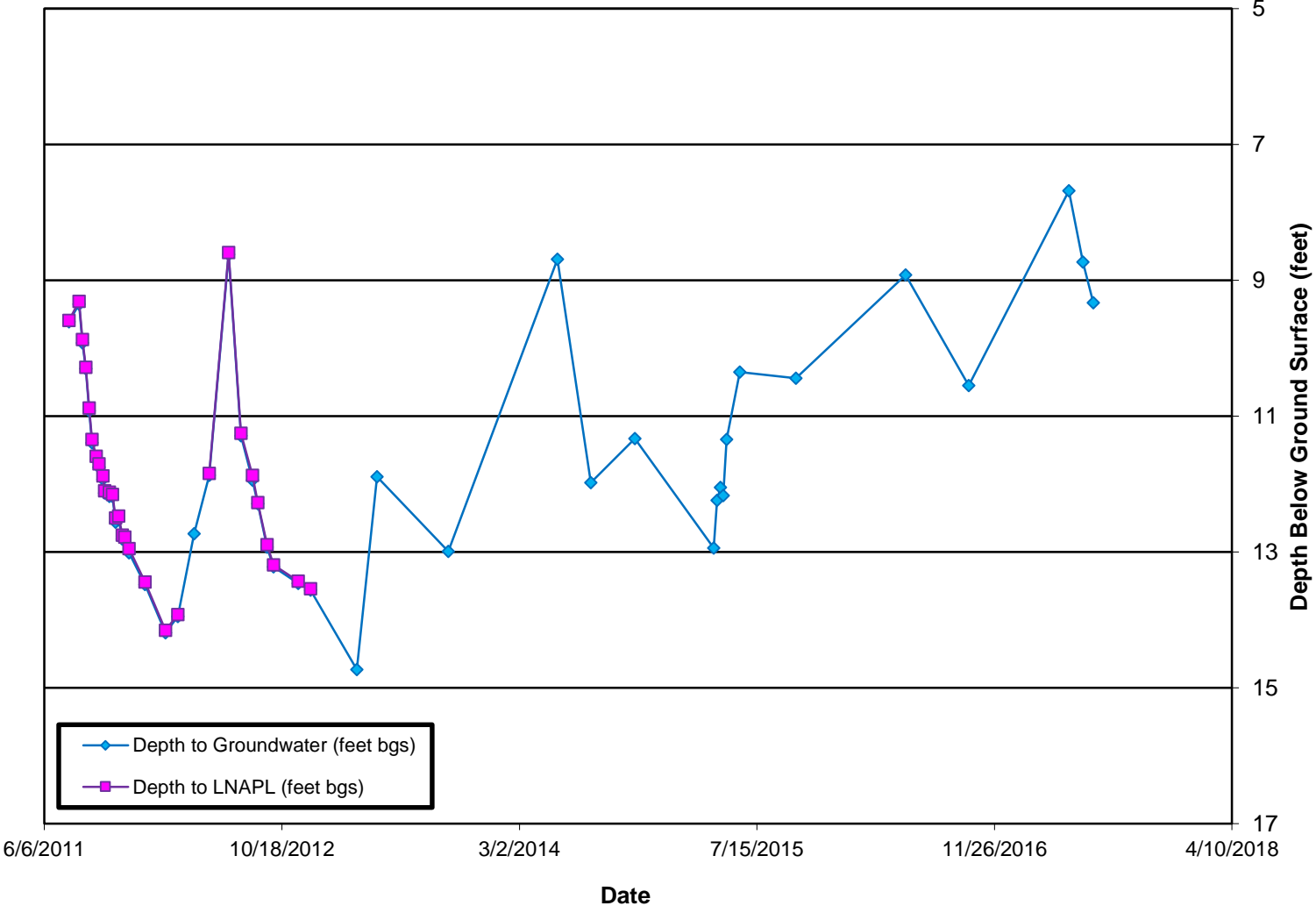


LRMW-8 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



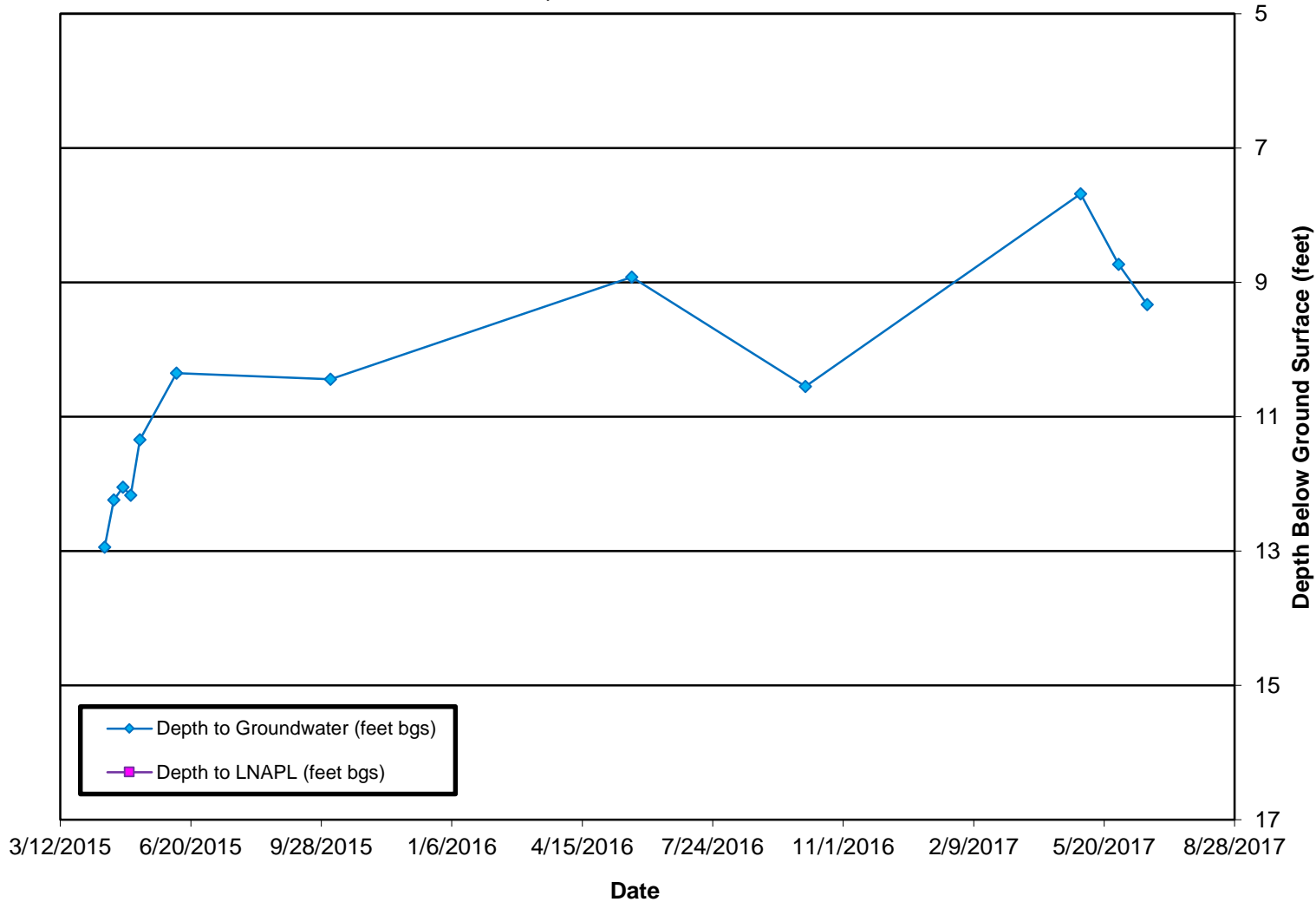
LRMW-9 (North of AOC 8) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin



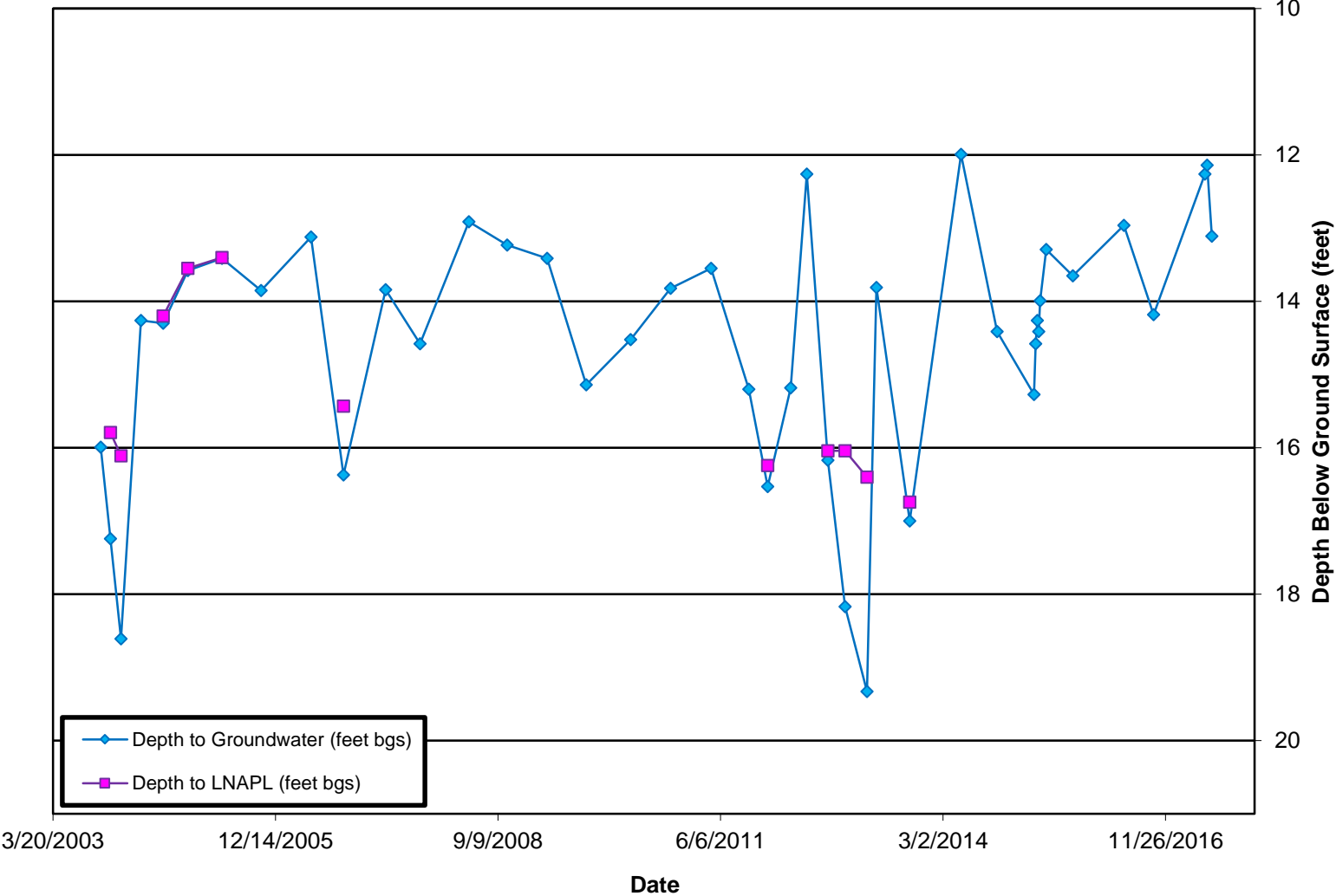
LRMW-9 (North of AOC 8) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin



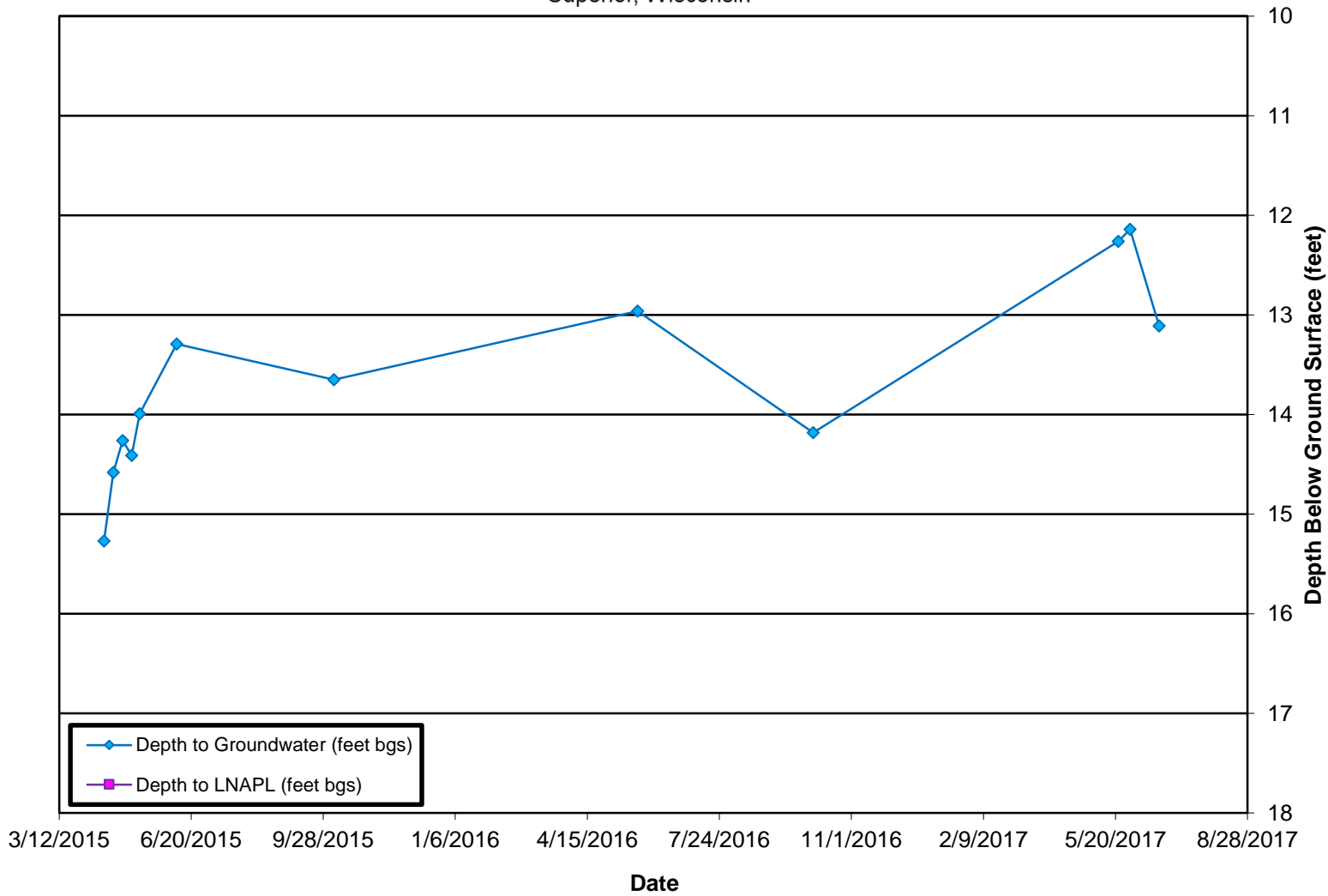
MWRR-4 (AOC 11) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin



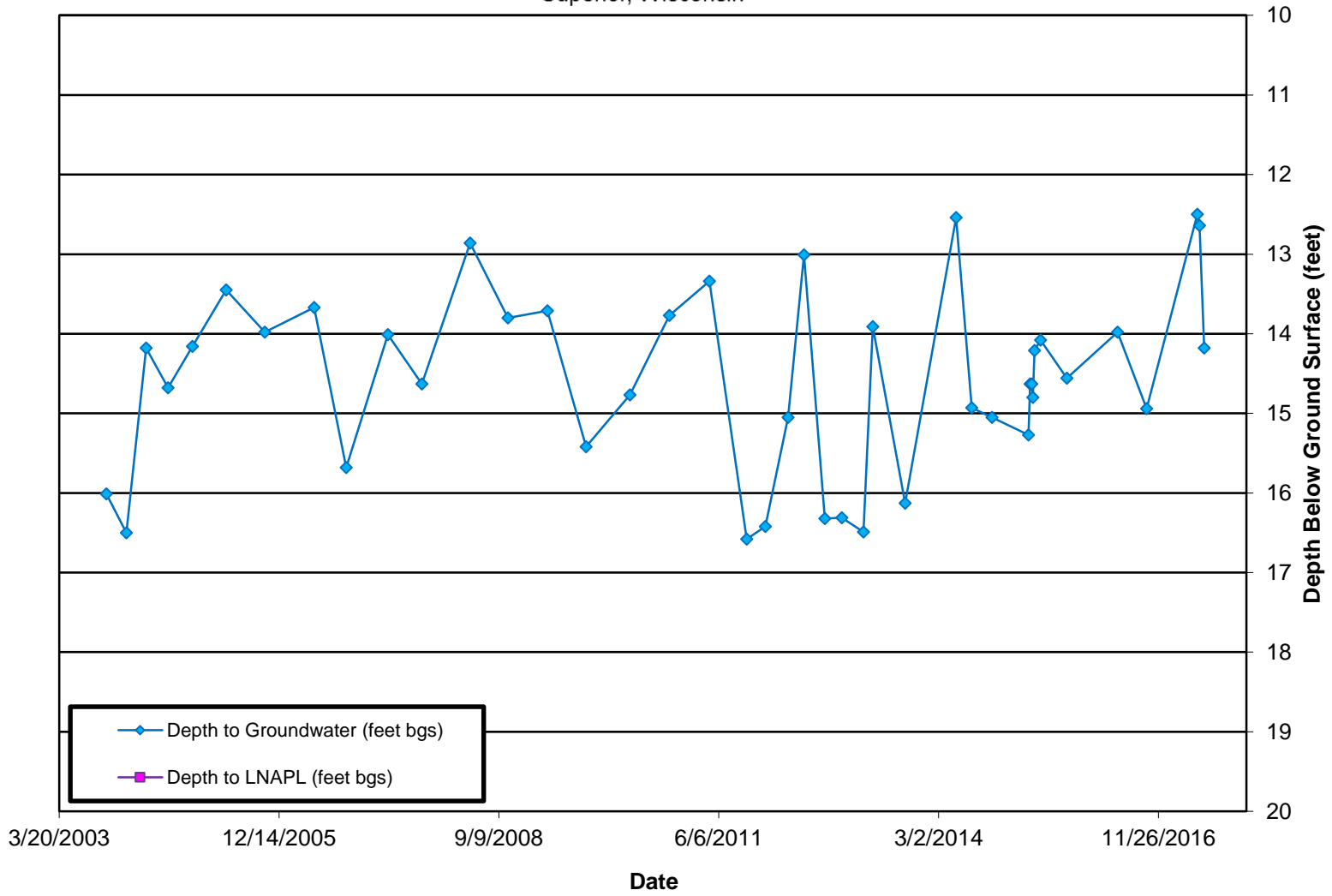
MWRR-4 (AOC 11) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin



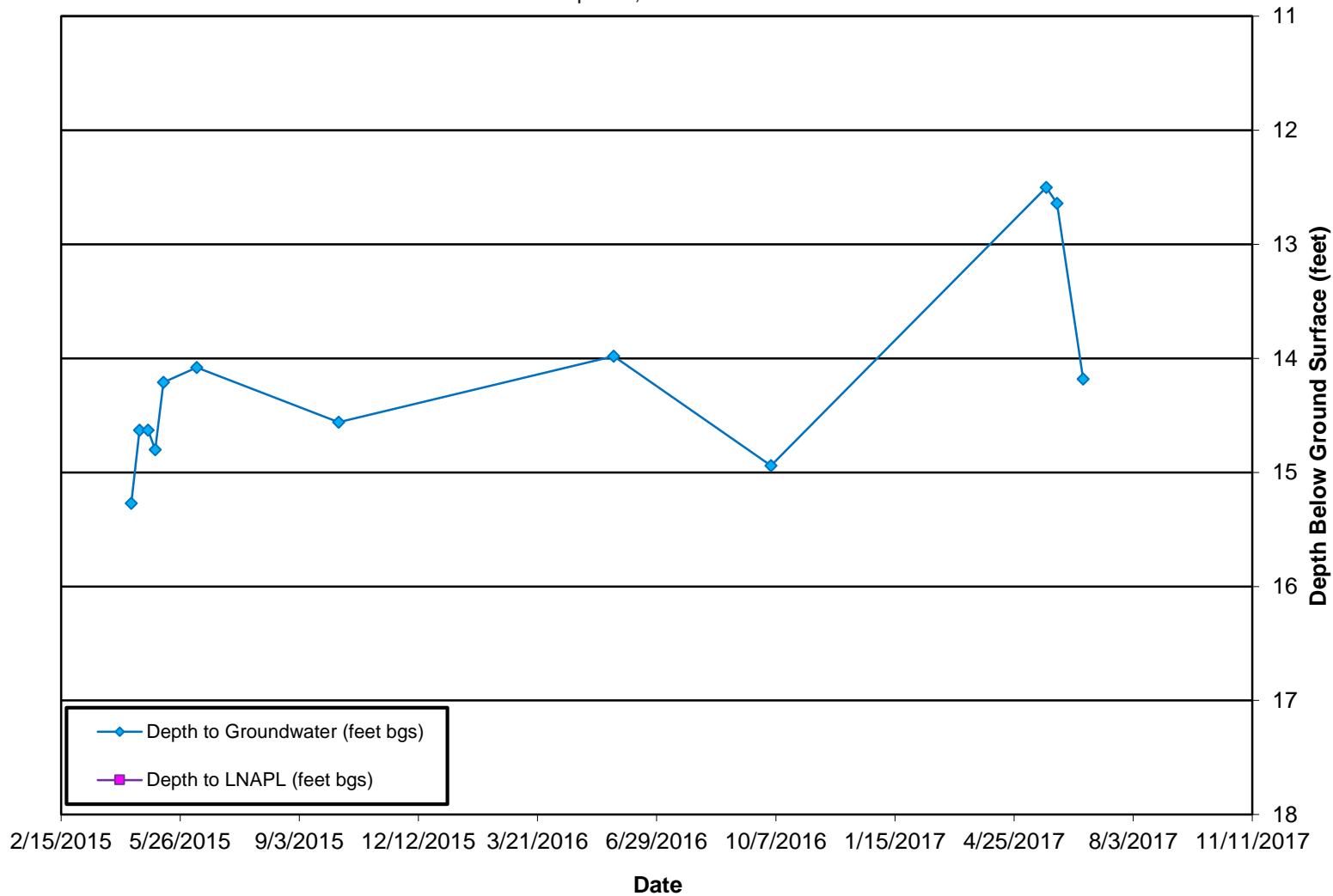
MWOW-3 (North of AOC 11) Depth to LNAPL/Groundwater

Former Amoco Terminal
Superior, Wisconsin

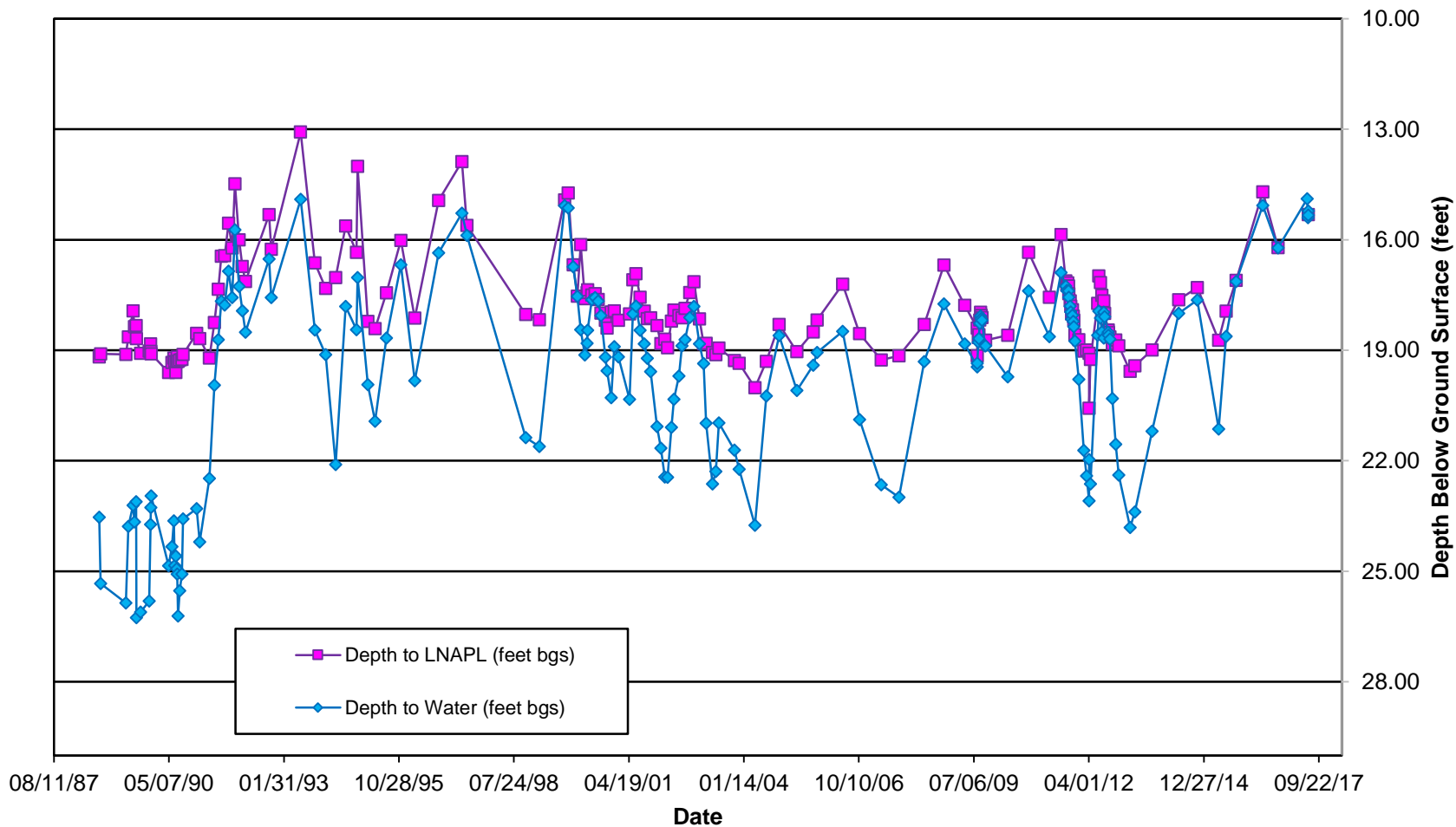


MWOW-3 (North of AOC 11) Depth to LNAPL/Groundwater

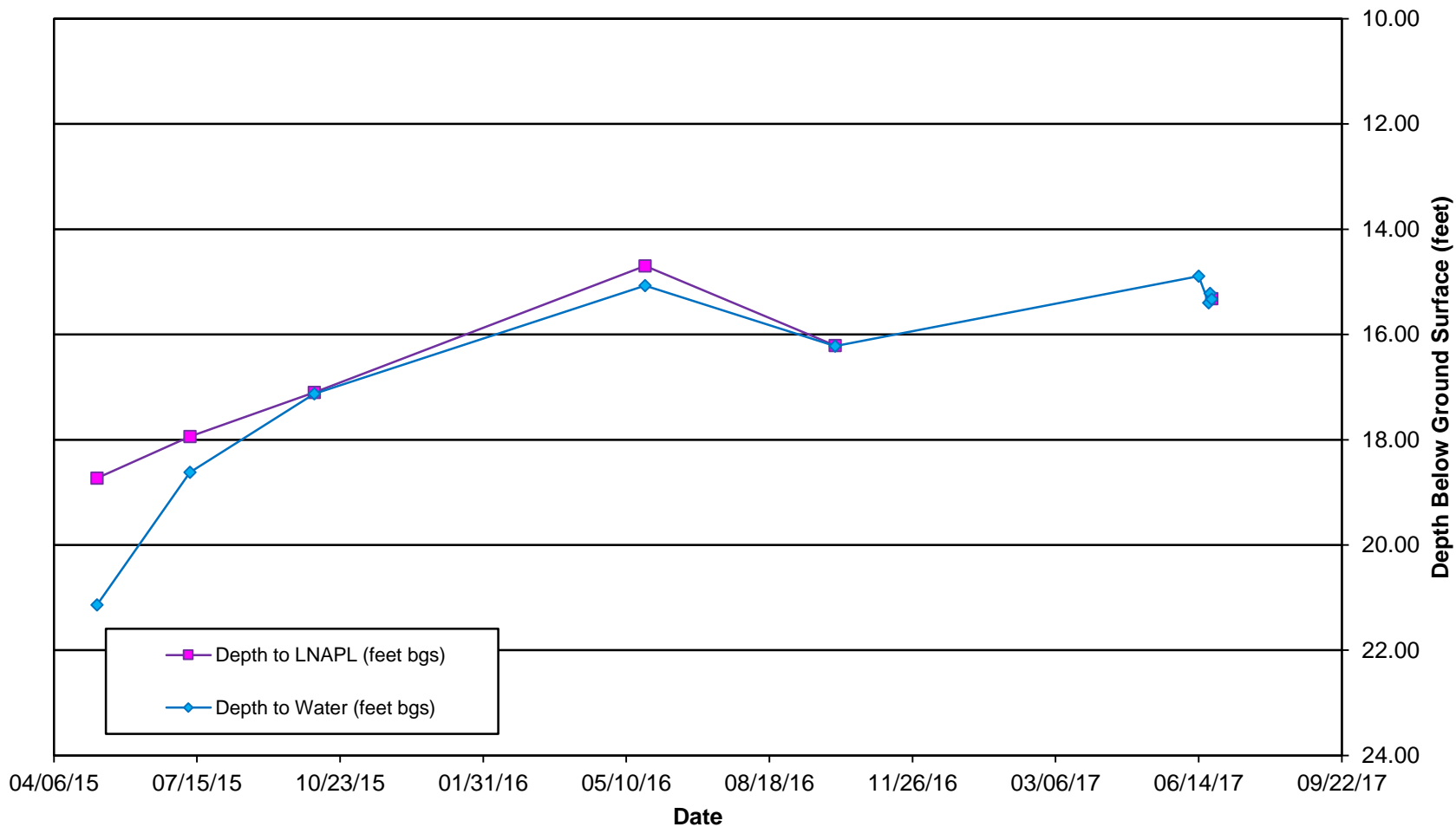
Former Amoco Terminal
Superior, Wisconsin



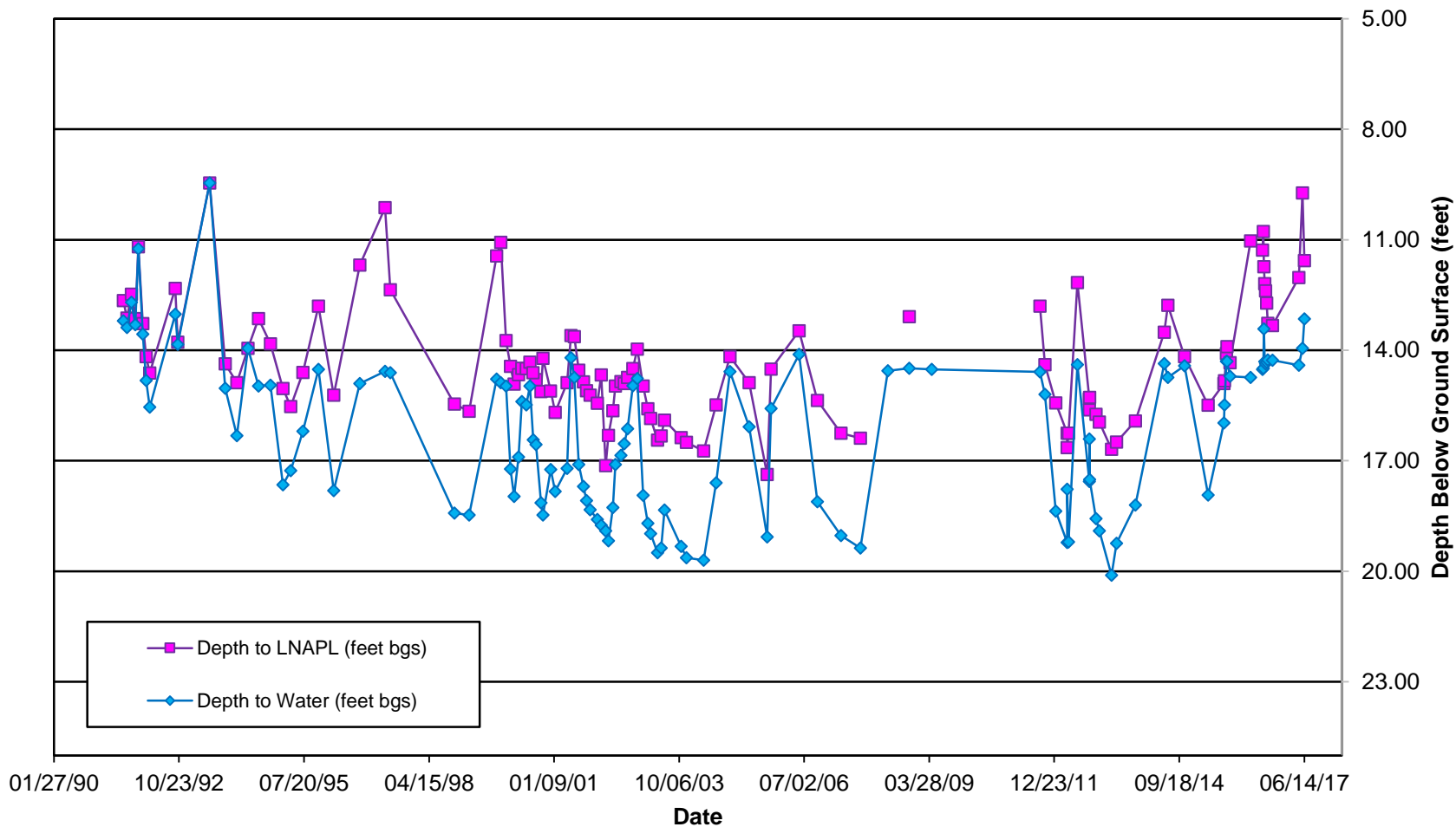
MW-14 (AOC 2)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



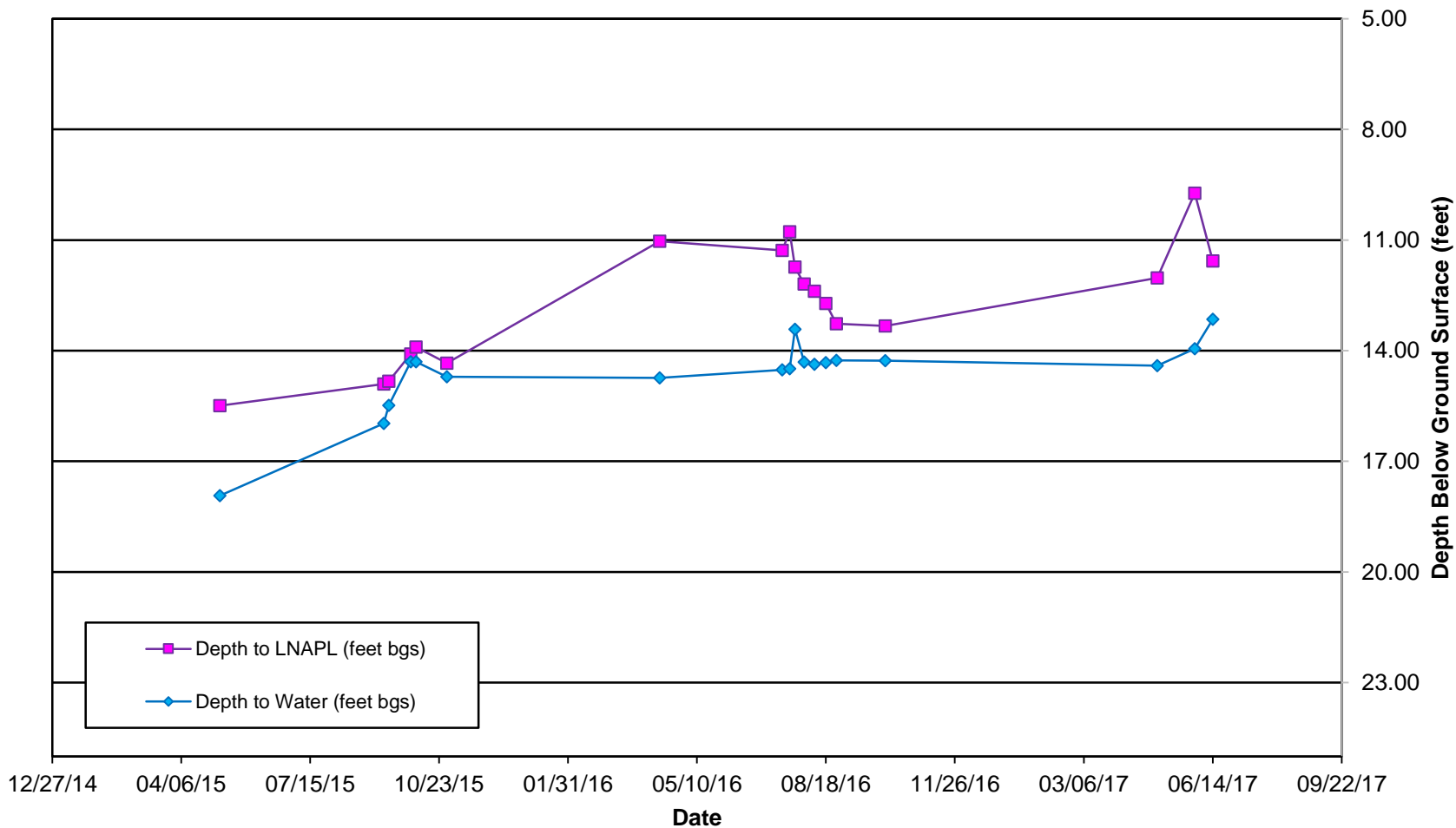
MW-14 (AOC 2)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



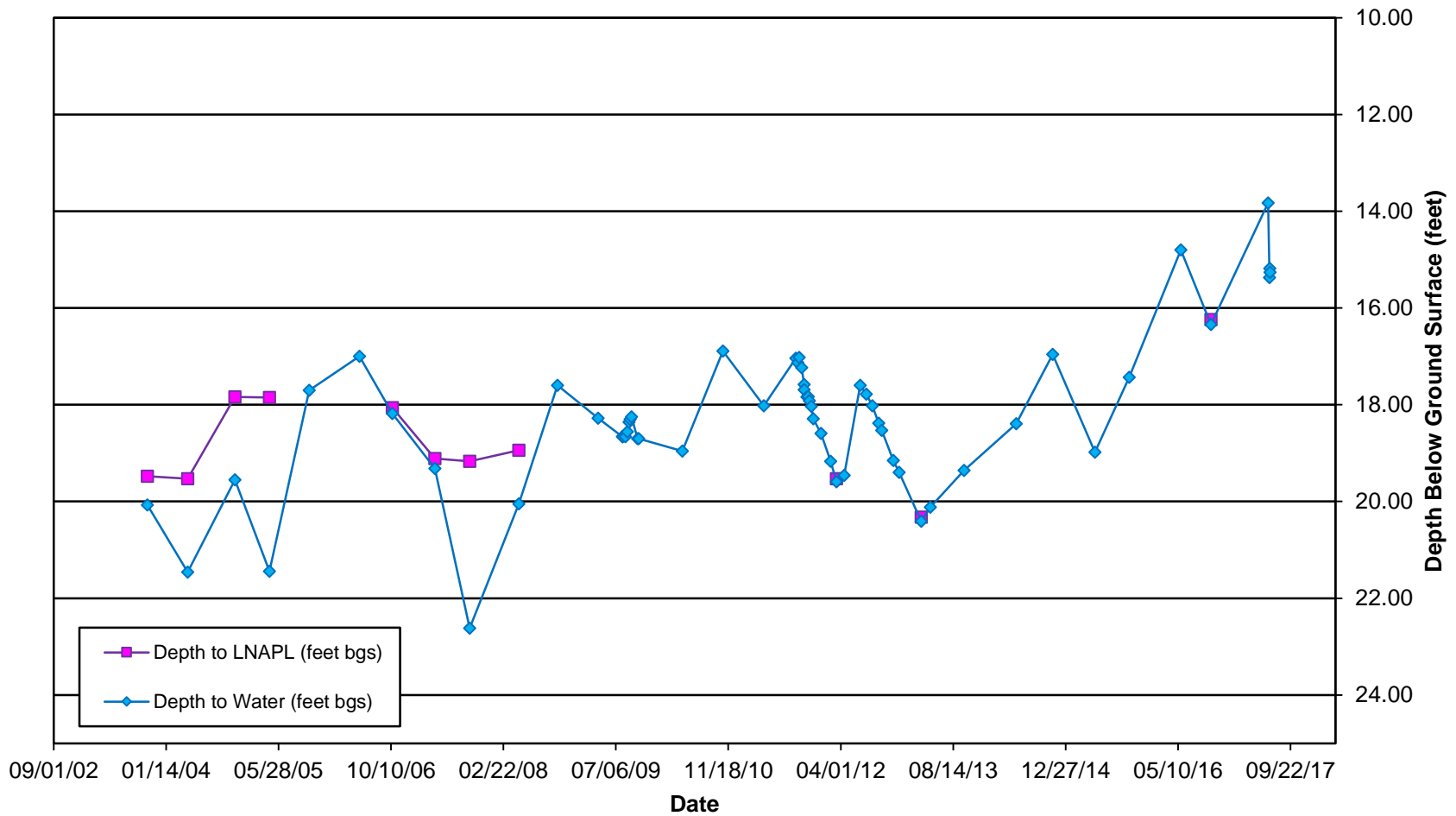
MW-32 (AOC 2)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



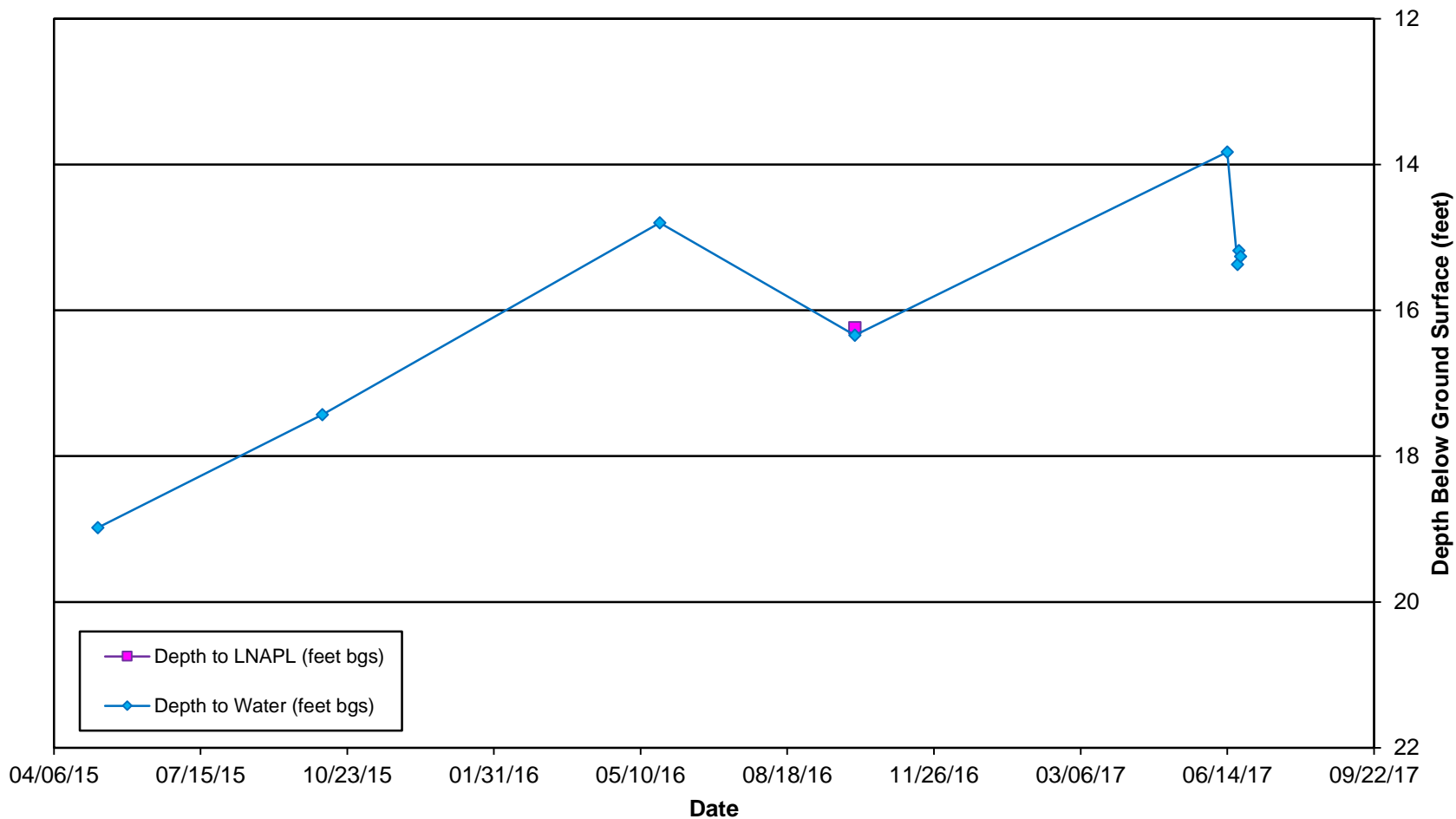
MW-32 (AOC 2)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



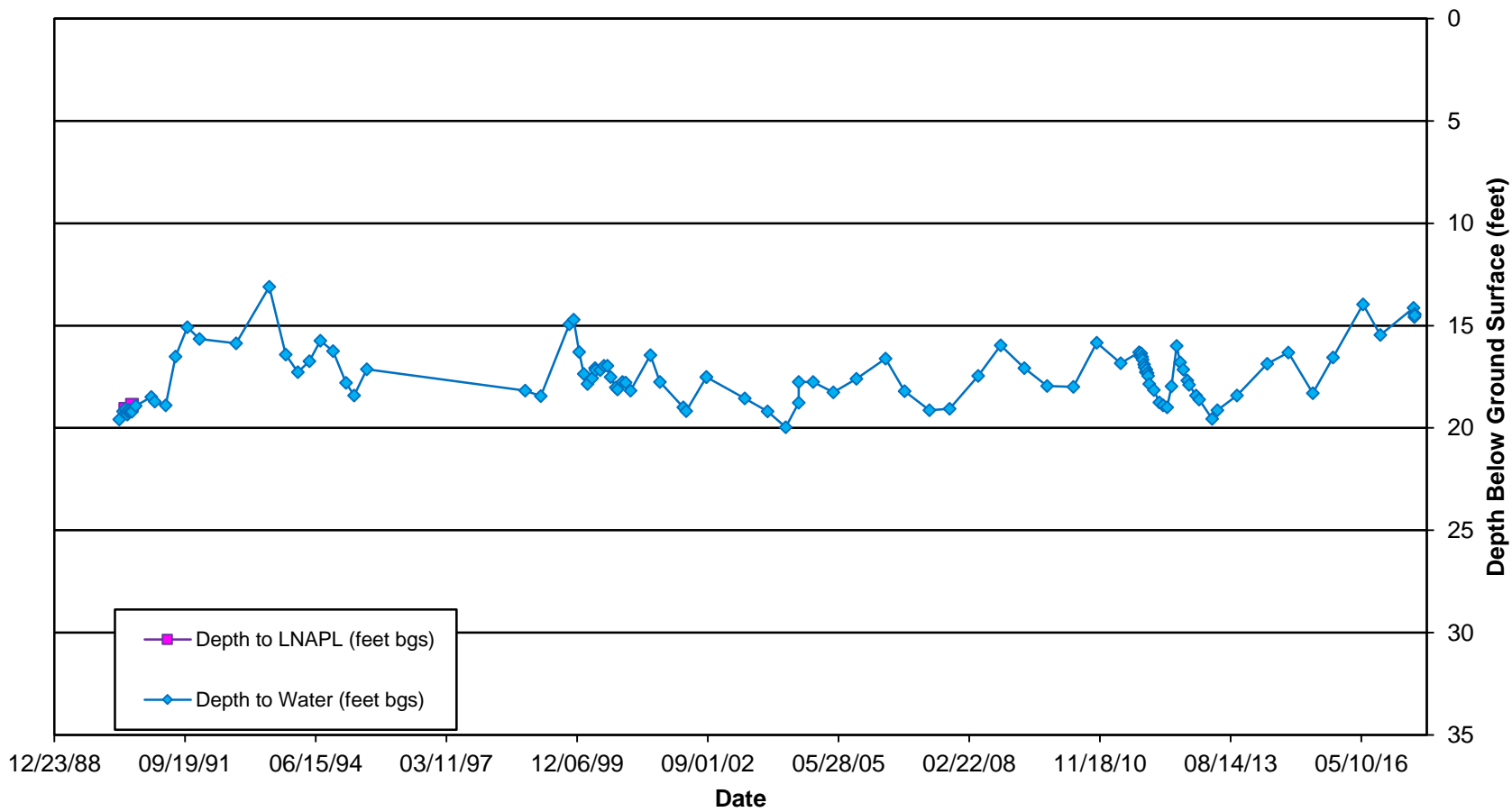
MWT-6 (AOC 1)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



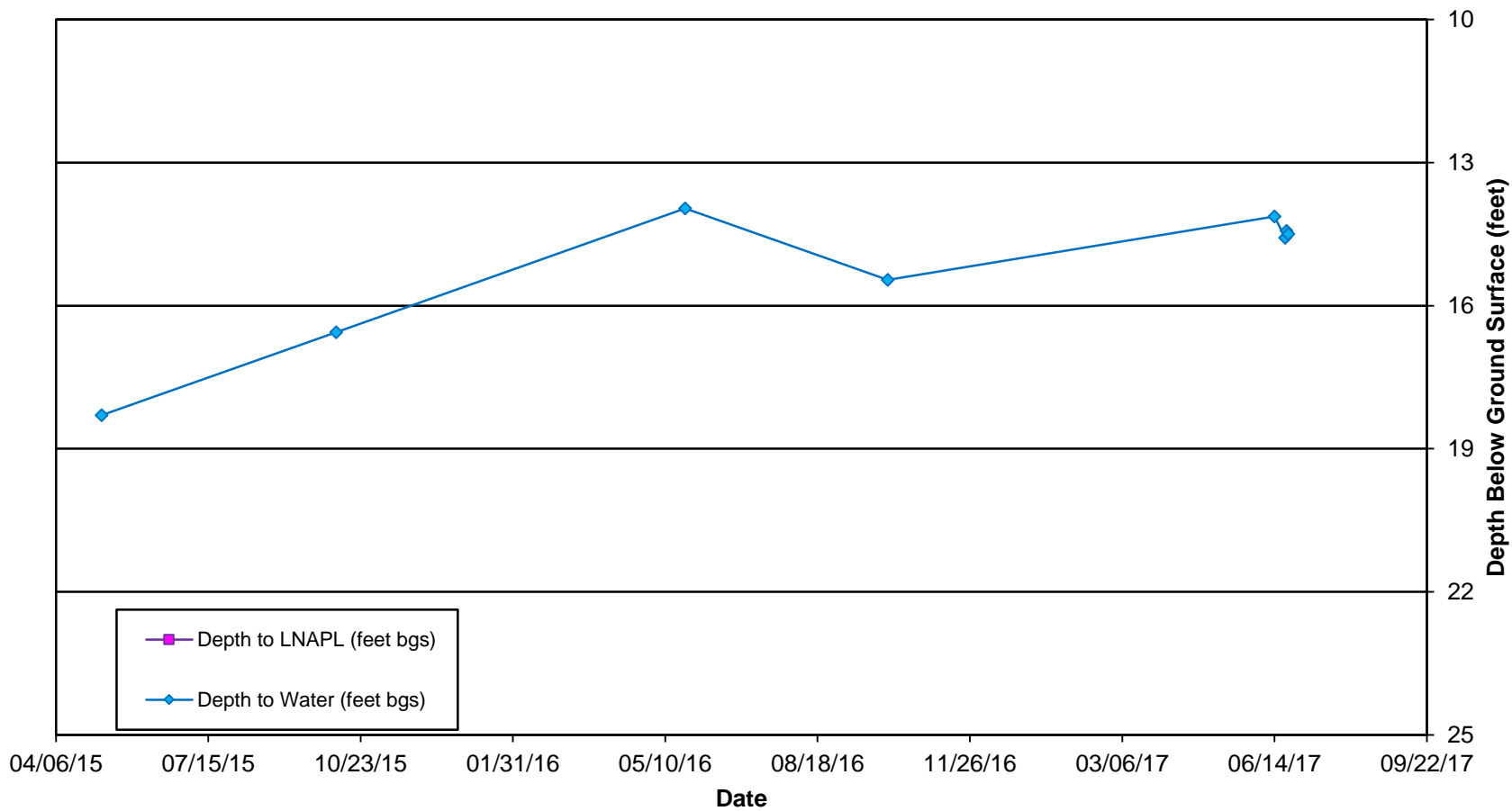
MWT-6 (AOC 1)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



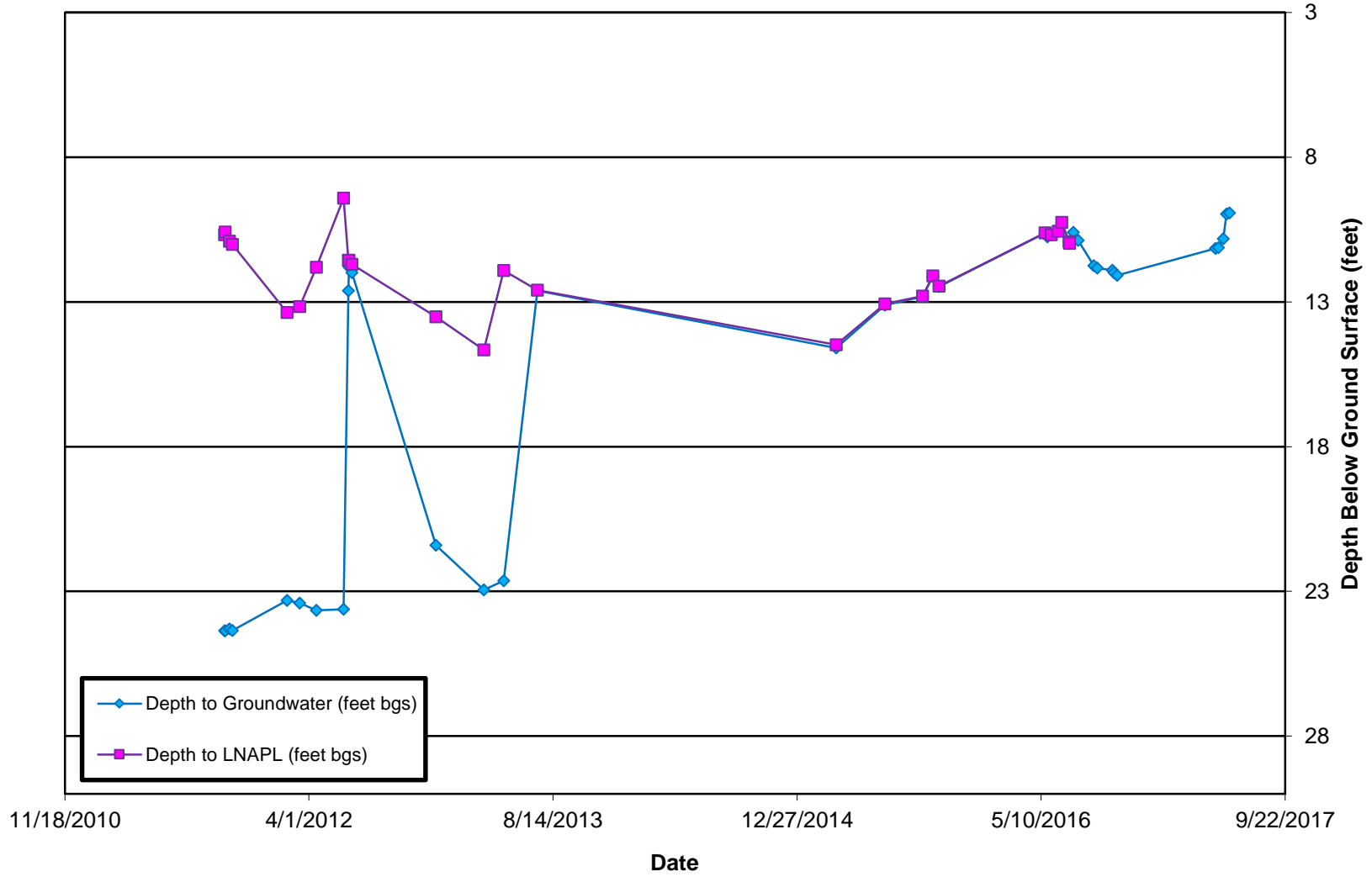
RW-3 (East of AOC 2)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



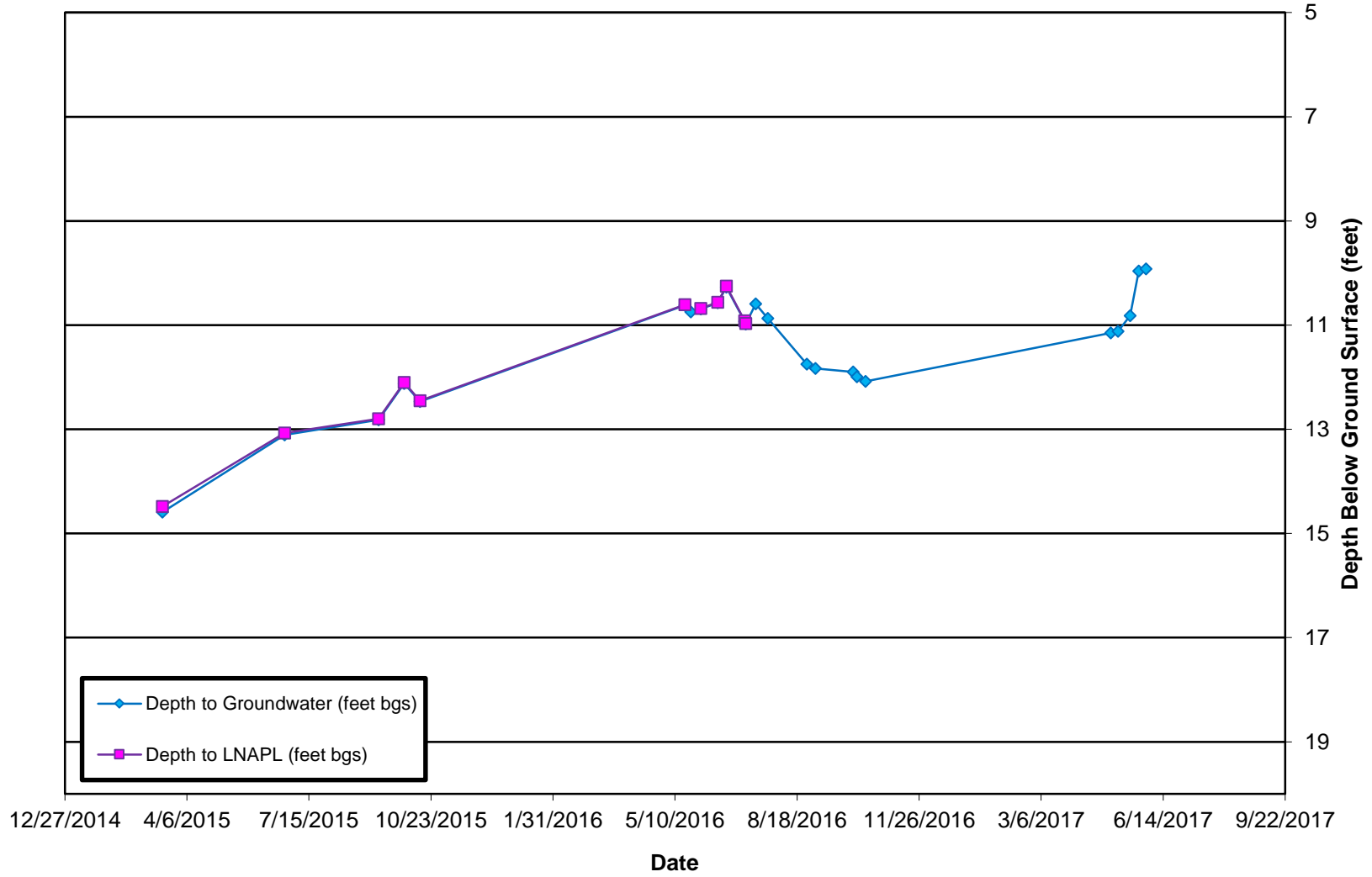
RW-3 (East of AOC 2)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



MRW-9 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



MRW-9 (AOC 8)
Depth to LNAPL/Groundwater
Former Amoco Terminal
Superior, Wisconsin



Appendix D

WDNR Operation, Maintenance, Monitoring, and Optimization Form
(Form 440-194)

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

<http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf>

Section GI - General Site Information

A. General Information

1. Site name
 Former Amoco Terminal

2. Reporting period from: 01/01/2017 To: 06/30/2017 Days in period: 181

3. Regulatory agency (enter DNR, DATCP and/or other) 4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
 WDNR 02-16-117873

5. Site location

Region	County	Address					
Northern Region	Douglas	2904 Winter Street, Superior, WI					
Municipality name	<input type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village	Township	Range	<input type="radio"/> E <input checked="" type="radio"/> W	Section	$\frac{1}{4}$	$\frac{1}{4}$
Superior		49 N	14		16	NE	SE

6. Responsible party Name	7. Consultant					
Antea Group, Project Manager Jonathan Zimdars	<input type="checkbox"/> Select if the following information has changed since the last submittal					
Mailing address	Company name			Phone number		
5910 Rice Creek Pkwy, Suite 100, Shoreview, MN 55126	Antea Group			same		
Phone number	Mailing address			Phone number		
(651) 639-9449	same			(651) 639-9449		

8. Contaminants
 Gasoline Compounds

9. Soil types (USCS or USDA)
 CL/ML/SC

10. Hydraulic conductivity(cm/sec): 2x10^-4 (cm/s)
 11. Average linear velocity of groundwater (ft/yr)
 0.44 to 4.67 ft/yr

12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region		County					
Wisconsin		Kenosha					
Municipality name	<input type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village	Township	Range	<input type="radio"/> E <input checked="" type="radio"/> W	Section	$\frac{1}{4}$	$\frac{1}{4}$
Emco-Waste Service Division		N					

Site name: Former Amoco Terminal

Reporting period from: 01/01/2017 To: 06/30/2017

Days in period: 181

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B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Groundwater extraction (submit a completed Section GW-1).
- Free product recovery (submit a completed Section GW-1).
- In situ air sparging (submit a completed Section GW-2).
- Groundwater natural attenuation (submit a completed Section GW-3).
- Other groundwater remediation method (submit a completed Section GW-4).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Soil natural attenuation (submit a completed Section IS-2).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Biopiles (submit a completed Section ES-1).
- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? Yes No

If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness Yes No

If yes, explain:

3. Is natural attenuation an effective low cost option at this time? Yes No

4. Is closure sampling warranted at this time? Yes No

5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No

If yes, explain:

D. Economic and Cost Data to Date

1. Total investigation cost: _____

2. Implementation costs (design, capital and installation costs, excluding investigation costs): _____

3. Total costs during the previous reporting period: _____

4. Total costs during this reporting period: _____

5. Total anticipated costs for the next reporting period: _____

6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No

If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout: _____

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E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

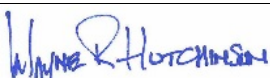
Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Wayne Hutchinson	Senior Hydrogeologist
Signature 	Date
	2017-07-03

Scientists:

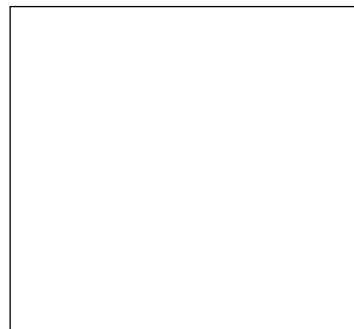
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Other Persons:

Print name	Title
Signature	Date

Professional Seal(s), if applicable:



Site name: Former Amoco Terminal

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Reporting period from: 01/01/2017 To: 06/30/2017

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Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: _____ and the number in use during period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain: _____)

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

4. Quantity of groundwater extracted during this time period: _____ gallons

5. Average groundwater extraction rate: _____ gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds:

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? Yes No

If yes, explain:

Five passive skimmer pumps in the Barge Dock Phase II Skimming system recovering LNAPL, one portable skimmer pump operating in MW-32, one passive skimmer pump operating in MWAST-4.

2. Quantity of free product extracted during this time period (enter none if none): 952 gallons

3. Average free product extraction rate: 0.01 gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? Yes No

If no, explain:

No, current remediation strategy is to recover free product.

2. If free product is present, is the free product fully contained in capture zone? Yes No

If no, explain:

Free product is immobile and Phase II and MWAST-4 system recovery trends show decreasing recovery rates.

3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:
Insufficient LNAPL thickness for select wells on site. Focus was to recover product at wells with an optimal LNAPL thickness for sufficient product recovery.

4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.

a. Contaminant: FREE PRODUCT

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L

d. Maximum contaminant concentration level in any extraction well of that contaminant: _____ µg/L

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To: 06/30/2017

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- e. If the maximum concentration in a monitoring well is more than one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Groundwater contour map with capture zone indicated.
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
 - Graph of contaminant concentrations versus time for each extraction well in use during the period.
 - Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

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Section GW-2, In Situ Air Sparging Systems

A. In Situ Air Sparging System Operation

1. Number of air injection wells at the site and the number actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

B. System Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.
 - a. Contaminant: _____
 - b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %
 - c. Maximum contaminant concentration level in any monitoring well: _____ $\mu\text{g/L}$
2. Is there any evidence that air is short circuiting through natural or man-made pathways? Yes No
If yes, explain: _____
3. Is the size of the plume: Increasing Stabalized Decreasing ?
If increasing, explain: _____

C. Additional Attachments

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

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Section GW-3, Natural Attenuation (Passive Bioremediation) in Groundwater

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a

a. Contaminant: _____

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L

2. Aquifer parameters:

a. Hydraulic conductivity: _____ cm/sec

b. Groundwater average linear velocity: _____ ft/yr

3. Is there a downgradient monitoring well that meets ch. NR 140 standards? Yes No

4. Based on water chemistry results, is the plume: Expanding Stabalized Contracting ?

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? Yes No

If yes, explain:

6. Biodegradation parameters:

a. Upgradient (or other site specific background) DO level: _____ µg/L

b. DO levels in the part of the plume that is most heavily contaminated _____ µg/L

7. Is site closure a viable option within 12 months from the date of this form? Yes No

8. Are there any modifications that can improve cost effectiveness? Yes No

If yes, explain:

9. Have groundwater table fluctuations changed the contaminant level trends over time? Yes No

If yes, explain:

10. Has the direction of groundwater flow changed during the reporting period? Yes No

If yes, approximate change in degrees: _____

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.

Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.

- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

Site name: Former Amoco Terminal

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Reporting period from: 01/01/2017 To: 06/30/2017

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Days in period: 181

Section GW-4, Other Groundwater Remediation Methods

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

a. Contaminant: _____

b. Percent reduction necessary: _____ %

c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is the size of the plume: Increasing Stabalized Decreasing ?

3. Describe the method used to remediate groundwater at the site:

4. List any additional information required by the DNR for this method for this site:

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

Site name: Former Amoco Terminal

Reporting period from: 01/01/2017 To: 06/30/2017

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Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____
4. Average depth to groundwater: _____ gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: _____ pounds per day
2. Average contaminant removal rate per well or venting point: _____ pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
 - a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
 - i. Oxygen levels in extracted air: _____ percent
 - ii. Methane levels in extracted air (ppmv) If over 10 ppmv, explain: _____
 - iii. If methane is not present above 10 ppmv and if oxygen is greater than 20 percent in extracted air, you should either:
 - o Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
 - o Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.
 - b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
 - c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.

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Section IS-2, Natural Attenuation (Passive Bioremediation) in Soil

A. Effectiveness Evaluation

1. Soil gas information in the soil that is most contaminated from a permanently installed gas probe(s) or water table monitoring well(s).

a. Hydrocarbon levels: _____ ppm, with an FID

b. Oxygen levels: _____ percent

c. Carbon dioxide levels(specify ppm or percent): _____

d. Methane levels: _____ ppm

2. Soil gas information in background (uncontaminated soil) from permanently installed gas probe(s) or water table monitoring well(s):

a. Hydrocarbon levels: _____ ppm, with an FID

b. Oxygen levels: _____ percent

c. Carbon dioxide levels(specify ppm or percent): _____

d. Methane levels: _____ ppm

3. List the results of the single boring that had the highest levels of soil contamination during the last round of soil sampling, and the date those samples were collected. Since soil borings are only drilled periodically, list the most recent data even if the data is prior to this reporting period. Since this data is used to assess progress based on the most recent soil sampling event, do not list data from prior sampling events.

a. Total hydrocarbons (Specify if GRO and/or DRO): _____ µg/kg

b. Specific compounds (µg/kg):

i. Benzene: _____ µg/kg

ii. 1,2 Dichloroethane: _____ µg/kg

iii. Ethylbenzene: _____ µg/kg

iv. Toluene: _____ µg/kg

v. Total xylenes: _____ µg/kg

4. Is there any evidence that contaminants are leaching into groundwater? Yes No

If the answer is yes and if groundwater quality is not being monitored, explain:

5. Is site closure a viable option within 12 months from the date of this form? Yes No

6. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No

If yes, explain:

B. Additional Attachments

Attach the following to this form:

- Well and soil sample location map.
- Cross sections showing the water table, soil sampling locations, screened intervals for gas probes or water table wells, geologic contacts, and any former excavation boundaries.
- Graphs of contaminant concentrations, oxygen, carbon dioxide and methane levels over time.
- Groundwater elevations table, if water table wells are present at the site.
- Table of soil contaminant chemistry.
- Table of soil gas readings.

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Section IS-3, Other In Situ Soil Remediation Methods

A. Effectiveness Evaluation

1. Describe the method used to remediate soil at the site:

2. List all information required by the DNR for this remediation method for this site:

B. Additional Attachments

Attach the following to this form:

- Any other attachments required by the DNR for this remediation method.

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Section ES-1, Ex Situ Soil Treatment Using Biopiles

A. Effectiveness Evaluation

1. Volume of soil in the biopile (if multiple biopiles, list number of piles and total volume):

2. Monitoring used to assess progress and verify optimal conditions for biodegradation.

a. Vapor phase measurements of gases (average of all readings from most recent sampling event):

i. VOCs by FID: _____ ppm

ii. Oxygen: _____ percent

iii. Carbon dioxide: _____ percent

iv. Methane: _____ ppm

b. Soil temperature: _____ °F

c. Soil moisture sensors, if used: _____ percent

3. Treatment amendments added to the soil during construction:

a. Artificial nutrients, excluding manure.

i. Types and total pounds added:

ii. Nitrogen and phosphorous content of the added amendment: _____ percent

b. Manure: _____ total pounds

c. Natural organic materials (straw, wood chips, etc.)(type and total pounds):

4. Forced air biopiles only answer the following:

a. Total air flow rate of the ventilation system: _____ scfm

b. Average contaminant removal rate: _____ pounds per day

c. Average biodegradation rate based on oxygen utilization: _____ pounds per day

5. If soil samples have been taken to monitor progress, list results. Only list the most recent results. If none collected enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

b. Specific compounds (µg/kg):

i. Benzene: _____ µg/kg

ii. 1,2 Dichloroethane: _____ µg/kg

iii. Ethylbenzene: _____ µg/kg

iv. Toluene: _____ µg/kg

v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Figure showing the construction details of the biopile and any sampling locations within the biopile.
- Table of soil contaminant chemistry data.
- Table of operational data.

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Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

A. Effectiveness Evaluation

1. Method used: landspreading thinspreading

Note: For purposes of this form, "landspreading" is the placement of contaminated soil on native topsoil, incorporation of that soil into the native soil and planting crops or other plants on it. The term "thinspreading" refers to placing contaminated soil on an impervious base for aeration.

2. Was any progress monitoring using field screening on soil conducted during this reporting period? Yes No

3. If the answer to A.2. (above) is yes:

i. List monitoring method:

ii. List monitoring results:

4. Is there any evidence of soil erosion at the landspreading/thinspreading location? Yes No

5. Spreading thickness: _____ inches

6. Type of crop planted (if thinspreading with no crop planted, so state):

7. Confirmation sampling date: _____ Anticipated confirmation sampling date: _____

8. Most recent soil sample results, if soil samples for laboratory analysis have been collected to monitor progress. Only list the highest result of the most recent sampling round. If no samples have been collected, enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ $\mu\text{g}/\text{kg}$

b. Specific compounds ($\mu\text{g}/\text{kg}$):

i. Benzene: _____ $\mu\text{g}/\text{kg}$

ii. 1,2 Dichloroethane: _____ $\mu\text{g}/\text{kg}$

iii. Ethylbenzene: _____ $\mu\text{g}/\text{kg}$

iv. Toluene: _____ $\mu\text{g}/\text{kg}$

v. Total xylenes: _____ $\mu\text{g}/\text{kg}$

B. Additional Attachments

Attach the following to this form:

- Map of the landspreading/thinspreading area. If soil samples have been collected, specify locations of samples and dates of sampling.
- Table of soil contaminant chemistry data.
- Table of any field screening results with dates of sample collection.

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Section ES-3, Landfills

Note: Reporting forms or reporting requirements in a Department approved Operation and Maintenance Plan for a landfill may take the place of this form.

Specific Inspection Items	Potential Problem Areas	Status	Notes
Perimeter Security Fencing	Broken or missing wood slats, torn chain link fabric, barbed wire, other - list		
Entrance Gate and Locking Mechanism	Lock broken/missing, mechanism inoperative.		
Monitoring Wells and Wellhead Covers	Signs of tampering, casing damaged, lock missing.		
Final Cover Vegetation	Bare spots, stressed vegetation, deep rooted vegetation.		
Final Cover Slope (explain below)	Gullies, lack of vegetation, subsidence, ponding.		
Evidence of Burrowing Animals	Damage to final cover, evidence of waste.		
Stormwater Drainage Channels	Gullies, erosion, debris, culvert blocked.		
Passive Landfill Gas Venting System	Damaged or blocked vent risers, stressed vegetation.		
Active Landfill Gas Extraction System	Damaged or blocked piping, cleanouts, other blower flare, knockouts, etc.		
Leachate Collection System	Pumps, connection piping, collection system piping, extraction wells, collection tanks, tanker truck loading system or sanitary sewer discharge piping.		
Access Road Cover Mowing; Tall Vegetation Removal	Ponding, rutting, erosion, cracked or damaged pavement. Mowing and tall vegetation removal done to specified vegetation.		

Summary of Deficiencies and/or Corrective Actions:

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B. Additional Attachments

Attach the following to this form:

- Any photographs documenting problems and maintenance activities.
- Maps, drawings showing site features requiring maintenance.
- Records for leachate pumping/discharge/hauling.
- Records for active gas extraction volumes.

Section INS- 1, Section by Section Instructions and Information

Specific Section by Section Instructions for This Form. The site name and reporting period is listed on every page. Then if the pages are inadvertently separated, that information can be used to determine which pages form the report.

General Site Information

- A.1. List the name as it appears on the DNR tracking system. If the person filling out the form does not know what the name on the tracking system is, use the name that the DNR used in the most recent correspondence.
- A.2. The reporting period should be either from January 1 to June 30 or July 1 to December 31 for active systems. For passive systems, use a calendar year basis. If however the report covers a newly installed system, list the actual startup date instead of January 1 or July 1. For new passive systems, use the first date that monitoring data is available as the date of startup.
- A.3. Enter all regulatory agencies that regulate the site.
- A.4. This form is a DNR form. For that reason, list the DNR site number. If there are other agencies regulating the site, listing identification numbers for other agencies is also recommended, but not mandatory, unless specified by those other agencies.
- A.5. If the information listed for the site location is not sufficient information for a person to use to drive to a site (example: no street address in a rural area), also include a map that is sufficient for a person to use to drive to the site. A U.S. G.S. topographic map that shows the site location may be used.
- A.8. List the contaminants that have at one time exceeded the PALs or Table Values in ch. NR 720. If GRO and/or DRO exceed the ch. NR 720 standards, also list GRO and/or DRO. Do not list other contaminants that have never exceeded state standards at the site. If more room is necessary, write "SEE ATTACHED SHEETS" and list all contaminants on a separate sheet.
- A.9. List the predominant soil types that are contaminated. If there is both contaminated soil and groundwater at the site, list soil types both above and below the water table. If only some soil is contaminated, do not list the soil types that are uncontaminated. If the site soils meet soil cleanup criteria, but groundwater is contaminated, so state that. Specify if the USCS or USDA system is used for soil descriptions. This line specifies soil because the vast majority of contaminated sites do not have contaminated bedrock. If bedrock is contaminated, also list that bedrock type.
- A.10. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, list the estimated hydraulic conductivity and the method used to estimate it (bail-down tests, calculations based on grain size, pumping test, etc.) If the hydraulic conductivity has not been determined, state when the tests are to be conducted. When a number of test results are available, list the range of results and the geometric mean. If however some results have a low level of accuracy and some results have a high level of accuracy, you should only list the most accurate results. See the Section on aquifer testing in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information.
- A.11. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, enter groundwater average linear velocity as a function of hydraulic conductivity, effective porosity and the groundwater gradient. You should use the geometric mean from A.11. (above) and the most representative value for the gradient at the site. Estimate the effective porosity based on soil types and geologic origin of the soil. If there are reasons to believe that the average linear velocity estimate is less than the actual rate at the site, so state that reason. Secondary porosity effects, flow through submerged utility trenches, widespread contaminant distribution in low permeability soils, etc., are reasons to assume that the actual migration rate is much greater than the predicted average linear velocity. In such cases, you should explain the reasoning for doubting the predicted average linear velocity.
- A.12. If the information listed for the soil treatment location is not sufficient information for a person to use to drive to a site, also include a map that is sufficient for a person to use to drive to the site. A U.S.G.S. topographic map or a plat map that shows the site location may be used.

- B. Check all methods used at a site. For example, if groundwater extraction, free product recovery and soil venting are used, check all three methods and submit the additional pages for those methods. If dual-phase or bioslurping are used, these methods extract both air and groundwater, check boxes for and attach additional pages for both soil venting and pump and treat.
- C. Remediation systems that use any form of enhancement are considered "active" and sites where there are no enhancements of any kind are considered "passive" forms of remediation. For purposes of these forms, natural attenuation (also called naturally occurring bioremediation) is "passive" and all other remediation methods are "active" methods.
- C.1. Design flow rates refers to flow rates such as gallons per minute extracted by a ground water extraction system, standard cubic feet per minute extracted by a soil venting system, standard cubic feet per minute injected by an in situ air sparging system, etc. If the actual flow rate is within 80 percent of the rate predicted in the design, consider that as meeting the design specification.
- D. The cost data in this section is used by DNR staff to evaluate whether or not the selected remedy is the most cost effective remedy and whether or not system modifications may be warranted to improve efficiency and/or cost effectiveness. Responsible parties and consultants are encouraged to submit cost information so that DNR staff may assist responsible parties and consultants accomplish environmental cleanups in the most cost effective manner.

Total costs for past costs are all costs to date. This information is for all costs that were incurred to investigate and/or remediate the site. These costs include but are not limited to: consulting labor and supplies, laboratory testing, transportation, equipment, etc. If the consultant does not pass all costs through the consulting firm, the consultant will need to contact their client for other non-consulting costs to determine total costs. Exceptions include costs for attorney fees, accounting, claim assistance in preparing claims to state reimbursement funds, or other indirect expenses that are not essential to remediating the site.

- D.2. The initial implementation costs are all costs that are incurred to start implementing a remedy at a site. Costs for the investigation however are excluded because those costs are incurred prior to remedy selection. Since costs for treatability and/or pilot testing are used to procure data for remedial design and are specific to different remediation methods, these costs should be included in implementation costs and not investigation costs. Startup or shakedown costs are also considered implementation costs and should not be considered operation and maintenance costs.
- D.3. Costs for implementation or investigation should not be repeated here or they will be double counted.
- D.4. Costs for implementation or investigation should not be repeated here or they will be double counted.
- D.5. Costs for implementation or investigation should not be repeated here or they will be double counted.
- D.6. Examples of one-time or unusual costs include the following:
 - o Replacing a burned out motor on a pump.
 - o Replacement of a well that was destroyed by a snowplow.
 - o Confirmation sampling to determine if the site meets closeout criteria. This type of cost is considered an unusual cost because this type of sampling is not conducted during most reporting periods.
- D.7. This estimate of costs is for all costs to close out a site minus the salvage value of any remediation equipment. Pertinent costs include items such as well abandonment, equipment removal from the site, consulting costs associated with these items, etc. Do not include any costs that will not be paid by a state reimbursement fund, such as repaving.

Section GW-1, Groundwater Extraction and Product Recovery

- A.1. List two numbers, the total number of extraction wells at the site and the number that were in actual use during the period. If all wells were in use, state that on the form.
- A.2. The number of days of operation are the number of days that the system was actually operated. If the system was shut down for reasons such as: repairs were necessary, piping froze, shut down to provide time for subsurface conditions to equilibrate before sampling, etc., do not list those days as being in operation.
- A.3. System utilization is a measure of the amount of time that the system operated relative to the amount of time that it could have operated.
- A.5. The average is for the entire site, not per well or trench. For purposes of determining the average ground water extraction rate, calculate the average based on the total volume of groundwater extracted divided by the time of the reporting period. For example, if the system operated at 10 gallons per minute for one month, the amount of water extracted would be approximately 432,000 gallons. If the reporting period was six months long, then the time period is approximately 260,000 minutes. Therefore, the average flow rate over six months is 432,000 divided by 260,000 minutes for an average flow rate of 1.67 gallons per minute (gpm).
- A.6. Calculate the total dissolved contaminants removed in pounds. If the estimate is a sum of BTEX and not based on a total hydrocarbon test (GRO and/or DRO), so state that on the form.
- B.3. The average should be based on the entire site over the entire reporting period. See instructions above for A.5. List the free product recovery rate as gallons per day (gpd), not gallons per minute (gpm).
- C.1. To answer this question, a thorough evaluation of water levels and chemical analyses in all monitoring points at the site is necessary.
- C.2. If the capture zone has not been determined mathematically, it will need to be determined to answer this question. See the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for and any recent update or errata sheets for more information on plume capture.
- C.4. When free product is present, line C.4.a. should state "FREE PRODUCT" and lines C.4.b. through C.4.d. are left blank. Otherwise, complete the following calculations.
There typically are several compounds at most contaminated sites that exceed the standards in ch. NR 140. The purpose of this question is to focus on the single contaminant that requires the most treatment to achieve groundwater quality standards on a percent reduction basis. For example, the most recent round of sampling at an example site demonstrated the highest levels of contaminants were 1,000 µg/L benzene and 1,000 µg/L toluene in the most heavily contaminated monitoring well. The ES and PAL for benzene is 5 µg/L and 0.5 µg/L (respectively) and for toluene the ES and PAL is 343 µg/L and 68.6 µg/L (ES and PAL data as of August 1995). Therefore the percent reduction to meet the ES and PAL for benzene is 99.5 and 99.95 percent and for toluene it is 65.7 and 93.14 percent. For that reason, the single contaminant that is most critical to reaching state groundwater standards is benzene. Therefore benzene is entered on line a. In this example, 99.5 and 99.95 percent is entered on line b. In this example, 1,000 µg/L is entered on line c. In this example, benzene is the driving factor, therefore enter the maximum benzene level in the single most heavily contaminated extraction well during the most recent sampling period on line d.
- D. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-2, In Situ Air Sparging

- B.1. See instructions for Section GW-1, Item C.4.
- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-3, Natural Attenuation in Groundwater

- A.1. See instructions for Section GW-1, Item C.4.
- A.2.a. List the estimated hydraulic conductivity that was listed on line A.11 in Section GI-1.
- A.2.b. List the groundwater average linear velocity that was listed on line A.12 in Section GI-1.
- A.3. Assess the monitoring well network to determine if there is a down gradient well that has not been impacted by the contaminants. Consider the possibility of a submerged (or diving) plume in that assessment. If all evidence indicates that the plume does not extend to the farthest "clean" downgradient well, indicate "YES" on the form. Otherwise indicate "NO" on the form. If there are not plans to install such a well, explain.
- A.4. Based on the contaminant distribution, evaluate whether or not the plume is expanding, stabilized, or contracting. When making this determination, consider the contaminant that requires the greatest percent reduction to achieve ch. NR 140 standards.
- A.5. If the plume is expanding and a justification is necessary, add additional sheets justifying why natural attenuation is still the appropriate remedy. If it is not, further describe in the explanation the plans to use a different remedy.
- A.6.a. Enter the upgradient dissolved oxygen (DO) level(s). If however there are contaminants measured in the upgradient well, it is not a true background measurement. In that case enter "UNKNOWN" on the form.
- A.6.b. Enter the range of DO values measured in wells within the plume.
- B. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-4, Other Groundwater Remediation Methods

- A.1. See instructions for Section GW-1, Item C.4.
- A.2. Self explanatory.
- A.3-4. Enter the information specified by the DNR for this method at this site.

Section IS-1, Soil Venting (Including both Soil Vapor Extraction and Bioventing)

- B.3. This subsection is used as a trigger for determining if the system requires an evaluation for future activities, such as improvements, converting the site to monitoring for natural attenuation, closure, etc. If an in situ respiration test must be performed, see Hinchee, R.E. and Ong, S.K. 1992. A Rapid In Situ Respiration Test for Measuring Aerobic Biodegradation Rates of Hydrocarbons in Soil. *Journal of the Air and Waste Management Association*. Volume 42, Number 10. Pages 1305 to 1312 for general procedures. For a discussion of methane monitoring, see the instructions for Section IS-2, item A.1.d., below. If the contaminant extraction rate in B.3. is greater than the trigger levels, leave lines B.3.a.i. and B.3.a.ii. blank.
- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section IS-2, Natural Attenuation in Soil

- A.1. This data is used to assess subsurface conditions based on soil gas data. Whenever possible, a permanently installed gas probe should be used. If at all possible, the gas probe should be located in the part of the site that is most heavily contaminated, since that is the part of the site that is likely to take the longest amount of time to meet ch. NR 720 standards. Water table wells that have screen exposed above the water table are also good measuring points. When installing permanent gas probes, you should install the screen deep enough that a true measure of the most heavily contaminated soil is possible, but install the screen shallow enough to assure that it is not submerged by groundwater table fluctuations. In some situations where the depth of contamination is variable, consideration should be given to using nested gas probes instead of only using probes at a single depth. Measuring points that should not be used include temporary gas probes because these points are less repeatable from one monitoring event to the next. Also, if there has been an active soil venting system in use at the site, the air extraction wells should not be used because these wells are in locations that have had much more aggressive treatment than the rest of the site.
- A.1.a. A flame ionization detector (FID) is specified instead of a photo ionization detector (PID) because PIDs often read inaccurately in moist oxygen deficient/carbon dioxide rich atmospheres. Also, PIDs do not detect some petroleum compounds.
- A.1.d. Methane readings are used to measure for anaerobic conditions. When the original product that is lost is a refined petroleum product (not crude oil), there should not be any methane within the product. Methane however may be produced under very anaerobic conditions. Any method may be used for measuring methane provided that the detection limit is less than a few ppmv. One convenient method is to use an FID that is equipped with a granular activated carbon filter to filter out non-methane components. Some instrument manufacturers make these filters available as options. In some cases an FID will flame out due to an oxygen deficiency. Some instrument manufacturers offer a dilution device as an accessory that is designed to prevent flameouts and also raises the upper limit of measurement to 10,000 ppmv or higher. If the meter "pegs" at 10,000 ppmv (or one percent), enter ">10,000 ppmv."
- A.2. The background monitoring point is predominantly used to measure natural oxygen and carbon dioxide levels in soil over time. For this reason, the background monitoring point should be reasonably close to the site, but not so close that the conditions are no longer representative. Considerable variations over time can occur, this background point should be measured during every sample event. Considerations for determining if a background point is representative include:
 - o If an on-site background point has minor levels of VOCs in it due to gas phase diffusion, that is acceptable, but if the levels are high, it may not be representative of true background conditions.
 - o Background oxygen and carbon dioxide levels vary with soil type and natural organic carbon content. For this reason, if at all possible, the soil types should be identical within the screened interval of all gas probes.
 - o The same depths should be used for all gas probes to allow comparison from one location to the next. If the depth to water varies greatly across the site, a certain amount of confusion in the data is likely. In this case, use professional judgement to provide the best data possible at a reasonable cost.
- A.3. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.
- B. Cross sections are self explanatory, see the generic discussion at the end of the instructions (below) for other attachments.

Section IS-3, Other In Situ Soil Treatment Methods

- A.2. Enter the information specified by the DNR for this method at this site.

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Section ES-1, Ex Situ Soil Treatment Using Biopiles

- A.3.a. The term "artificial nutrients" essentially means agricultural fertilizers or any other fertilizer products.
- A.3.a.i. The types of fertilizers that are added should be listed here by chemical names, not by vendor trade names.
- A.3.a.ii. List nitrogen content as N, list phosphorous content as phosphoric acid (P₂O₅). Note: Fertilizer ratings are based not on actual content of N, P and K, but on nitrogen (as N), phosphorous (as P₂O₅) and potassium (as K₂O).
- A.4.c. See example calculations at the end of this set of instructions.
- A.5. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.
- B. The figure is self explanatory. See the generic discussion at the end of the instructions (below) for instructions for the tables.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

- B. A map to scale of the landspreading location including and landmarks or benchmarks. When samples have been collected, the distances to any landmarks or benchmarks should be indicated.

Section ES-3, Other Ex Situ Soil Treatment Methods

- A.2. Enter the information specified by the DNR for this method at this site.

Section INS- 2, Figures, Graphs and Tables

When figures and graphs are specified, they should at a minimum contain the following information, or an explanation as to why the information is not necessary.

Maps. All maps should include the applicable information specified in s. NR 724.11(6), Wis. Adm. Code. In most cases, all information can be combined into a single map. There are times that a single map will have so much data that it is essentially unreadable. The consultant should use professional judgement when determining if a single map or multiple maps best portray the information necessary.

- Groundwater Contour Map Guidelines.

- List groundwater elevations for each measuring point on the map.
- Use the most recent data available.
- For water table maps, do not use data from deeper piezometers. If piezometer data is shown, use a different symbol for the piezometers than used for water table wells.
- If any wells are dry, indicate that on the map.
- If free product is present at site, shade the area where free product is estimated to be present.
- If groundwater is extracted with a pump and treat system, also denote plume capture zone.
- If in situ air sparging or soil venting is in use, specify on the map if the system was operating or shut down during the water level measurements. See the Subsection on water table maps in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information on this topic.

- Groundwater Contaminant Distribution Map Guidelines.

- Only contaminants that exceed the ch. NR 140 ES or PAL should be shown on the map. When contaminants are above the PAL or ES at some data points and below the PAL or ES at other data points, list the data for all locations to portray which areas of the site meet ch. NR 140 groundwater quality standards.
- If a well is not sampled due to the presence of free product indicate "FREE PRODUCT" at those data points.
- If more than five contaminants exceed ch. NR 140 ES, only the five contaminants that require the greatest percent reduction to achieve ch. NR 140 ES or PAL should be shown on the map.
- Drawing isoconcentration lines is optional, unless specified for the site on a site specific basis.
- If the contamination has crossed the property line, that property line should be clearly denoted on the map.
- If in situ air sparging is used, water samples from ch. NR 141 type monitoring wells may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.

- Dissolved Oxygen Map Guidelines.

- Dissolved oxygen data may be shown on the contaminant concentration graphs or on a separate graph.
- Dissolved oxygen maps are optional for ground water extraction and product recovery systems.
- When in situ air sparging is used, monitoring points may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples for DO. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.

- Well and Soil Sample Location Map Guidelines. Well and sample location maps for all methods should clearly indicate the location(s) of the release or the area where soil contamination historically has been highest. Also, if part of the contamination has been excavated, the pit boundaries.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour and contaminant distribution maps.
- In Situ Air Sparging - the map should indicate all air injection wells, soil venting extraction wells, and all groundwater monitoring points.

Maps (Continued).

- Natural Attenuation in Groundwater - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour maps.
- Soil Venting - indicate all air extraction wells. If any gas probes are used to assess subsurface conditions in either contaminated zones or background locations, also indicate those data points with a different symbol. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map.
- Natural Attenuation in Soil - show all monitoring points. Indicate which data points are background measuring points. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map. If the site was previously treated by soil venting, the locations of former air extraction wells should also be shown since these are areas where aggressive treatment has been applied. Also show area(s) of paved and unpaved ground surface. If pavement is significantly broken to allow significant water infiltration and air diffusion, map that area as broken pavement.

Graphs. All graphs that show time versus contaminant concentration or cumulative contaminant removal should be based on total time, not only operation time. All graphs that denote cumulative removal should use pounds of contaminant removed. Graphs should accurately show the time period(s) when the system was not operating. Plot time on the X axis, concentration or cumulative removal data on the Y axis.

- Time Versus Cumulative Removal. The recommended documentation for each remedial method is as follows:
 - Groundwater Extraction and Product Recovery - separate graphs should be used for free product recovery and dissolved phase recovery. A single graph for each phase is adequate, per well graphs are only necessary when specified by the Department on a site specific basis.
 - In Situ Air Sparging - no graph is necessary (removal data is shown on the graphs for the soil venting system).
 - Natural Attenuation in Groundwater - no graph is necessary.
 - Soil Venting - provide a graph of cumulative removal for total VOCs for the total system.
 - Natural Attenuation in Soil - no graph is necessary.
 - Ex Situ Soil Treatment Using Biopiles - Provide two graphs, one showing cumulative removal of total VOCs and a second graph showing total contaminant biodegradation over time.
 - Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.
- Time Versus Contamination Concentration Graphs. Create graphs with contamination level on the y axis (semilog scale) and time on the x axis (linear scale). If free product is present, time versus contamination concentration graphs are not necessary.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery - graph the contaminant level over time for the groundwater that is extracted by the extraction system. List all compounds that exceed ch. NR 140 ES or PAL. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
- In Situ Air Sparging - provide a graph for the single monitoring well that is most heavily contaminated. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
- Natural Attenuation in Groundwater - provide a graph for all monitoring wells that contain any compounds that exceed ch. NR 140 standards. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
- Soil Venting - provide a graph of contaminant concentration over time for the entire system for total VOCs. If any gas probes are used to assess subsurface conditions in either contaminated zones, also provide a graph with the data from the most heavily contaminated gas probe.
- Natural Attenuation in Soil - provide a graph of contaminant concentration over time for total vapor phase VOCs as measured with an FID, oxygen, carbon dioxide and methane in a gas probe.
- Ex Situ Soil Treatment Using Biopiles - no graph is necessary.
- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.

Graphs (Continued).

- Graph of Contaminant Concentrations Versus Distance. If free product is present, a graph of contaminant concentrations versus distance is not necessary.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery - no graph is necessary.
- In Situ Air Sparging and Natural Attenuation in Groundwater - plot a graph with distance (on the x axis, linear scale) and contaminant concentrations (y axis, log scale) from the upgradient measurement point to the farthest downgradient data point along the centerline of the plume. List the same contaminants as shown on the Time Versus Contaminant Concentration Graphs. Clearly show the source area on the graph. If free product has been present, label the data points that previously contained free product. For in situ air sparging, see comments above about samples collected from conventional monitoring wells with filter packs versus driven probes.

Tables. Whenever possible, data over the life of the project should be listed.

The recommended documentation for each type of table is as follows:

- Groundwater Contaminant Chemistry Data.

List:

- Contamination levels for all contaminants that exceed ch. NR 140 standards.
- Dissolved oxygen levels if applicable.
- Other biological parameters, if applicable (nitrogen, phosphorous, manganese, sulphate, iron, dissolved methane, redox potential, pH, microbial population size, etc.). See instructions for page GW-3 for more information on these parameters. Also, list the dates the samples were collected and the standard methods used to analyze the samples.

- Groundwater Biological Parameters.

For natural attenuation in groundwater only, these measurements should be listed (if known) to provide information on biodegradation. This table is not necessary for free product extraction, groundwater extraction or in situ air sparging.

Provide a table that includes any results of tests conducted for dissolved oxygen, nitrate, manganese, iron, sulphate, methane, redox potential, heterotrophic and/or hydrocarbon degrading microorganism populations. Identify on the table if the monitoring locations are upgradient, side gradient, downgradient, or within the plume, dates of sampling, and the analytical methods used for those parameters. Include all data for the life of the project. Since some of these tests are only conducted once, or periodically - enter "NS" in the table for not sampled for any parameters that were not sampled during a particular round of sampling.

When asked to list the standard methods, list the method if a standard method exists. There are however some tests (for example dissolved methane) where there are no official standard laboratory or field methods. In this case the laboratory will have to create their own standard procedures. In these cases list the name of the laboratory and that laboratory's name for that test.

Specific considerations for each parameter are as follows:

- Dissolved oxygen (mg/L). The most efficient mechanism for natural or enhanced biodegradation of petroleum compounds is aerobic biodegradation.
- Nitrate (mg/L as N). Nitrate (NO_3^{-1}) is a potential electron acceptor for denitrification and also serves as a nutrient for heterotrophic microbial populations to enhance aerobic biodegradation. Decreasing nitrate levels from background wells to wells within the plume are an indication of either aerobic or anaerobic biodegradation.
- Manganese as Mn^{+2} (mg/L). Manganese as Mn^{+4} is converted to soluble manganese as Mn^{+2} under anaerobic biodegradation. For this reason, total manganese analysis is not appropriate, only soluble manganese as Mn^{+2} . When the levels of soluble manganese are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.
- Iron as Fe^{+2} (mg/L). Iron as Fe^{+3} is converted to soluble iron as Fe^{+2} under anaerobic biodegradation. For this reason, total iron analysis is not appropriate, only soluble iron as Fe^{+2} . When the levels of soluble iron are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.

Tables (Continued).

- Dissolved sulphate (SO_4^{-2} , mg/L). Sulphate (SO_4^{-2}) is a potential electron acceptor. Decreasing sulphate levels from background wells to wells within the plume are an indication of anaerobic biodegradation.
- Dissolved methane (mg/L). Methane is produced under anaerobic conditions. Since background methane levels can usually be assumed to be zero, in most cases only measurements within the plume are used. Exceptions are when the natural soils have very high levels of TOC (for example peat), background methane levels are also warranted. When the contaminant is crude oil instead of a refined petroleum product, methane measurements may however cause erratic results. Significant amounts of methane may be created when other electron acceptors (NO_3^{-1} , Mn^{+4} , Fe^{+3} and SO_4^{-2}) are exhausted. For this reason, significant levels of methane are indicative of very very anaerobic conditions.
- Redox potential (millivolts, include + or - sign). Redox potential is another measure of the level of aerobic/anaerobic conditions, however it is a much more sensitive measurement than DO at very low levels of DO.
- Heterotrophic and hydrocarbon degrading microorganism populations (CFU/mL). Heterotrophic and specific hydrocarbon degrader population sizes should be listed for both background locations and locations within the plume, if there is information available. There is disagreement by many of the experts within the field as to the merits of sampling for this parameter. Refer to other DNR guidance documents on natural attenuation (or passive bioremediation) for more information on this topic.

- Soil Gas Data.

The recommended documentation for each remedial method is as follows:

- When natural attenuation in soil is used, provide a graph of all soil gas readings over time for every data point.
- When soil venting is used, if a gas probe is used to assess subsurface conditions over time in a location where air is not extracted, provide that data in a table.

- System Operational Data.

The recommended documentation for each remedial method is as follows:

- Groundwater Extraction and Product Recovery:
 - Well by well flow rates in gpm for each extraction well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
- In Situ Air Sparging:
 - Air pressure and injection flow rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
- Natural Attenuation in Groundwater - no table needed.
- Soil Venting:
 - Vacuum readings and extraction rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
 - Air concentrations in ppmv or in mg/L for total VOCs.
 - Total system contaminants removed in pounds and the pounds per day removal rate.
- Natural Attenuation in Soil - no table needed.

Site name: Former Amoco Terminal

Reporting period from: 01/01/2017 To: 06/30/2017

Days in period: 181

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Tables (Continued).

- Ex Situ Soil Treatment Using Biopiles:
 - o If forced air ventilation is used:
 - System extraction rates in scfm.
 - Air concentrations in ppmv for total VOCs.
 - Total system contaminants removed in pounds and the pounds per day removal rate.
 - Temperature.
 - o If passive ventilation is used, a table of temperatures.
- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no table is needed.

Acronyms and Abbreviations:

CFU/mL	colony forming units per milliliter
cm/sec	centimeters per second
DATCP	Department of Agriculture, Trade and Consumer Protection
DCOM	Department of Commerce
DNR	Department of Natural Resources
DO	Dissolved Oxygen
DRO	Diesel Range Organics
ES	Enforcement Standards in NR 140
FID	Flame Ionization Detector
ft/yr	feet per year
gpd	gallons per day
gpm	gallons per minute
GRO	Gasoline Range Organics
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NR	prefix for rules established by the DNR
P.E.	Registered Professional Engineer
P.G.	Registered Professional Geologist
PAL	Preventative Action Limit in NR 140
PECFA	the state sponsored cleanup fund for certain petroleum contaminated sites
ppmv	parts per million by volume (vapor phase only)
scfm	standard cubic feet per minute
TOC	Total Organic Carbon
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
µg/kg	micrograms per kilogram
µg/mL	micrograms per milliliter
VOC	Volatile Organic Compounds
Y/N	Yes or No

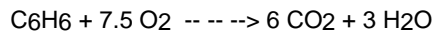
Section INS-3, Example Calculations for Determining the Biodegradation Rate on Forced Air Biopiles

Important Note: This page uses a nonproportional font and characters that are unique to WordPerfect. If the user received this document electronically, this page may need to be converted to a different font for the formulas to print correctly. The original font used for this page was prestige elite with 16.67 characters per inch.

Assumptions:

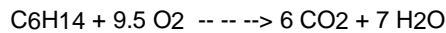
- The measurements at the stack are as follows:
 - Average flow rate is 20 scfm.
 - Average oxygen level extracted from biopile is 14.0 percent by volume.
 - Average carbon dioxide level extracted from biopile is 3.5 percent by volume or 35,000 ppmv.
- Atmospheric air contains 21 percent oxygen by volume and 400 ppmv (or 0.04 percent) carbon dioxide. (Note: On each site visit, the consultant should check atmospheric air to assure that the instrument is spanned correctly.)
- Atmospheric air weight 0.0763 pounds per cubic foot at standard temperature and pressure (Gibbs, 1971).
- Average molecular weight of air is 28.97 (Gibbs, 1971) which is rounded off to 29, molecular weight of O2 is 32, molecular weight of CO2 is 44.
- For every pound of contaminants biodegraded, 3.3 pounds of oxygen is utilized and up to 3.2 pounds of carbon dioxide is generated.

-- The stoichiometry of aerobic benzene biodegradation can be described as follows:



Based on this, benzene biodegradation requires that 3.07 pounds of oxygen are utilized to fully oxidize one pound of benzene, assuming no electron acceptors other than oxygen are used. Assuming no biomass is produced and no geochemical reactions consume carbon dioxide, 3.38 pounds of carbon dioxide is generated from one pound of benzene.

-- The stoichiometry of aerobic hexane biodegradation can be described as follows:



Based on the above assumptions, hexane biodegradation requires 3.52 pounds of oxygen and generates up to 3.06 pounds of carbon dioxide.

Other hydrocarbons also require a similar ratio of oxygen for aerobic biodegradation. For purposes of this guidance it is assumed that a pound of petroleum contamination requires 3.3 pounds of oxygen and generates up to 3.2 pounds of carbon dioxide and 1.1 pounds of water in the biodegradation reaction.

Calculations:

Oxygen utilization rate:

$$(0.21 - 0.14) * \frac{32 \text{ pounds}}{29 \text{ ft}^3} * 0.0763 \frac{\text{ft}^3}{\text{min}} * 20 \frac{\text{min}}{\text{hour}} * 60 \frac{\text{hour}}{\text{hour}} = 7.07$$

Carbon dioxide production rate:

$$(0.035 - 0.0004) * \frac{44 \text{ pounds}}{29 \text{ ft}^3} * 0.0763 \frac{\text{ft}^3}{\text{min}} * 20 \frac{\text{min}}{\text{hour}} * 60 \frac{\text{hour}}{\text{hour}} = 4.81$$

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Calculations (Continued):

Biodegradation rate based on oxygen:

$$7.07 / 3.3 = 2.1 \text{ pounds per hour}$$

Biodegradation rate based on carbon dioxide:

$$4.81 / 3.2 = 1.5 \text{ pounds per hour}$$

Since the biodegradation rate is based on oxygen utilization and/or carbon dioxide generation, it is a measure of the overall biodegradation rate of all carbon sources, including natural organic carbon and any organic materials that were added. For this reason, the biodegradation rate is not specific to hydrocarbons and it is likely that the measured biodegradation rate will overestimate the rate of contaminant reduction.

Commonly the measured biodegradation rate based on carbon dioxide generation is less than the rate estimated with oxygen. Because of geochemical interferences and biomass formation, estimates based on carbon dioxide measurements are often low. If however the biodegradation rate estimate based on carbon dioxide is significantly greater than the estimate based on oxygen, it is likely that there is a measurement or calculation error. In this way, the carbon dioxide measurements can be used to double check the oxygen measurements and calculations.

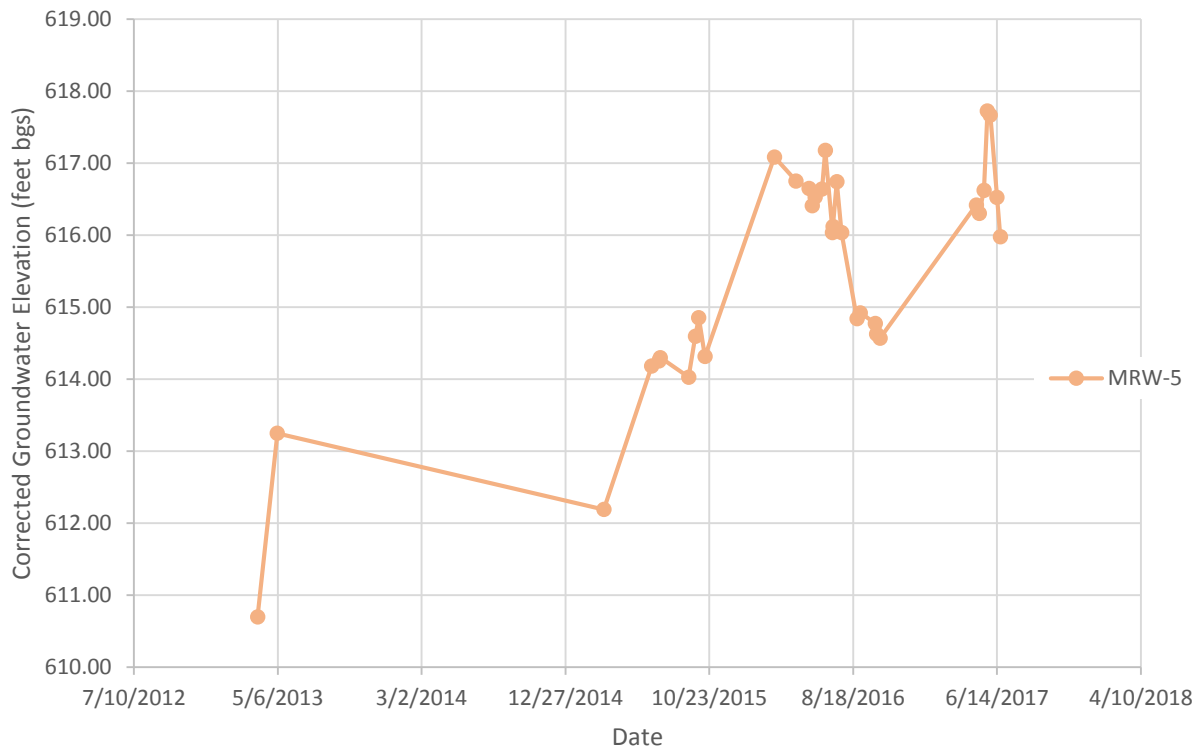
*2017 Jan-June Progress Report
Former Amoco Terminal
2904 Winter Street, Superior, Wisconsin
Antea Group Project No. WISUP171*



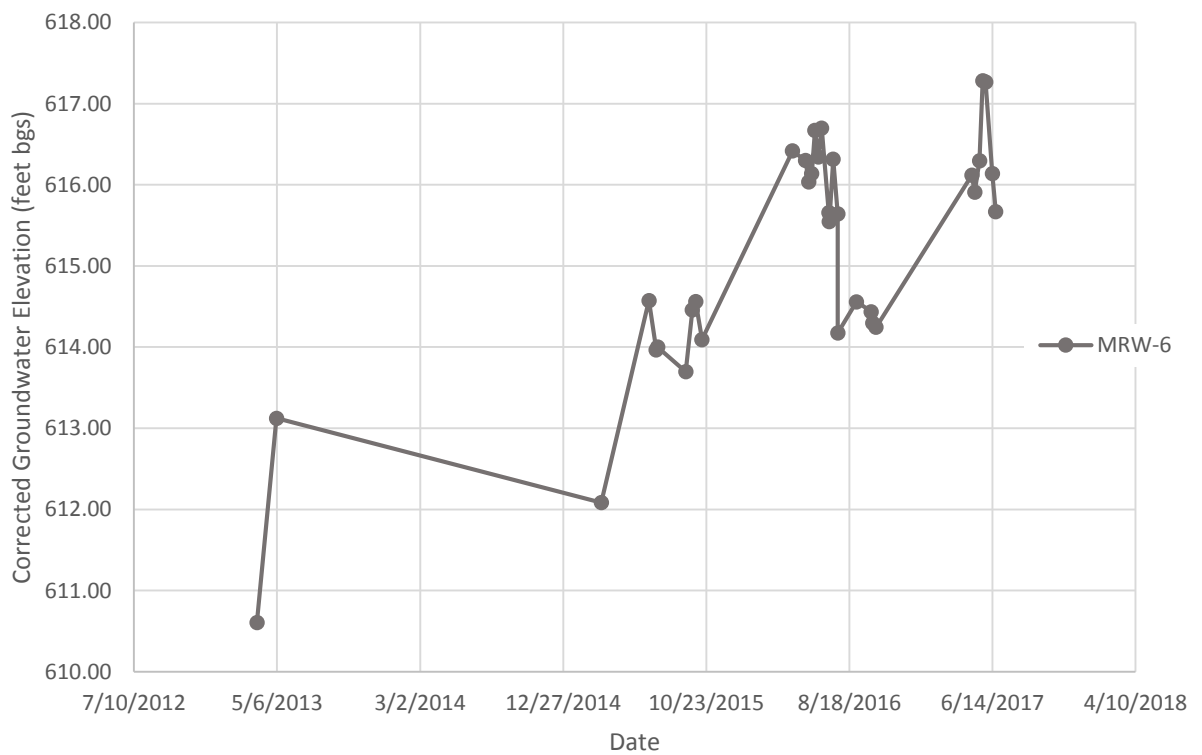
Appendix E

Groundwater Elevation Graphs

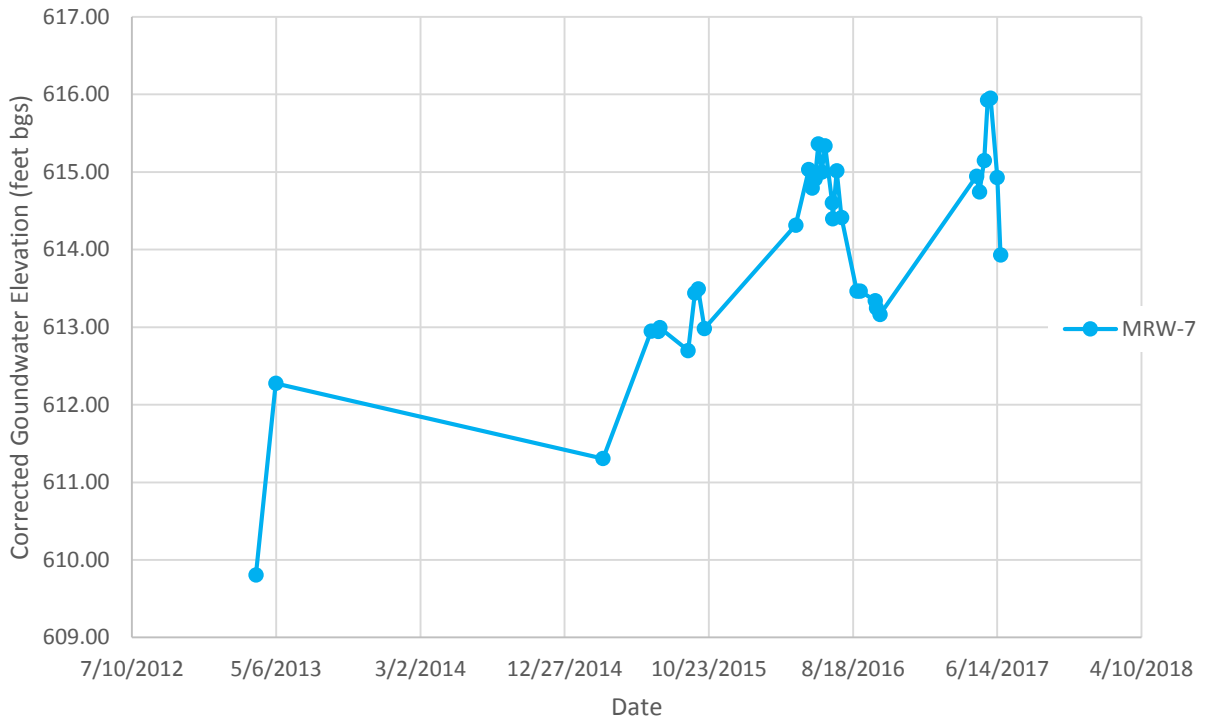
Groundwater Elevation MRW-5



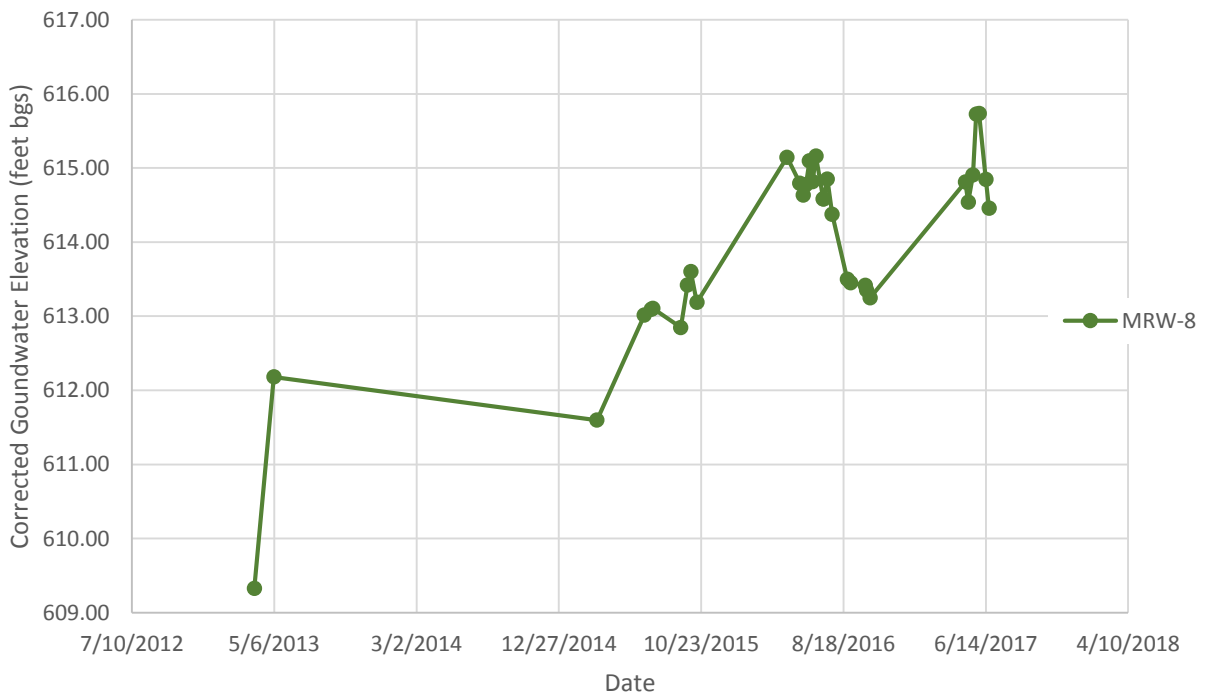
Groundwater Elevation MRW-6



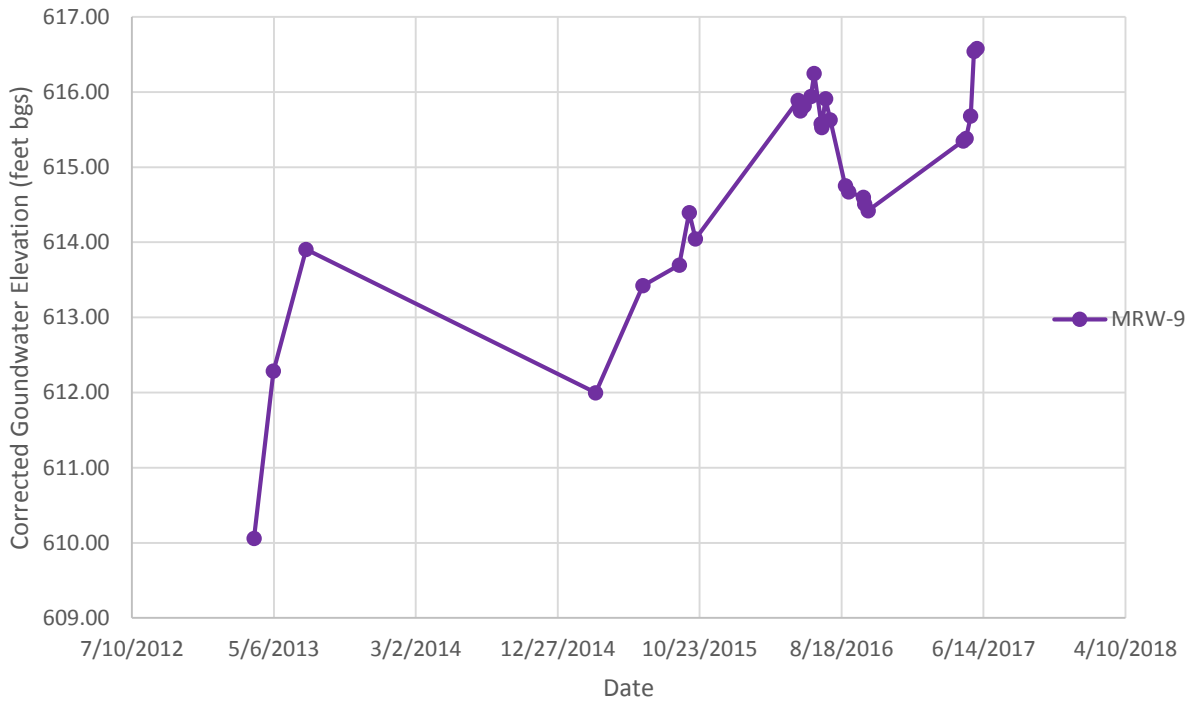
Groundwater Elevation MRW-7



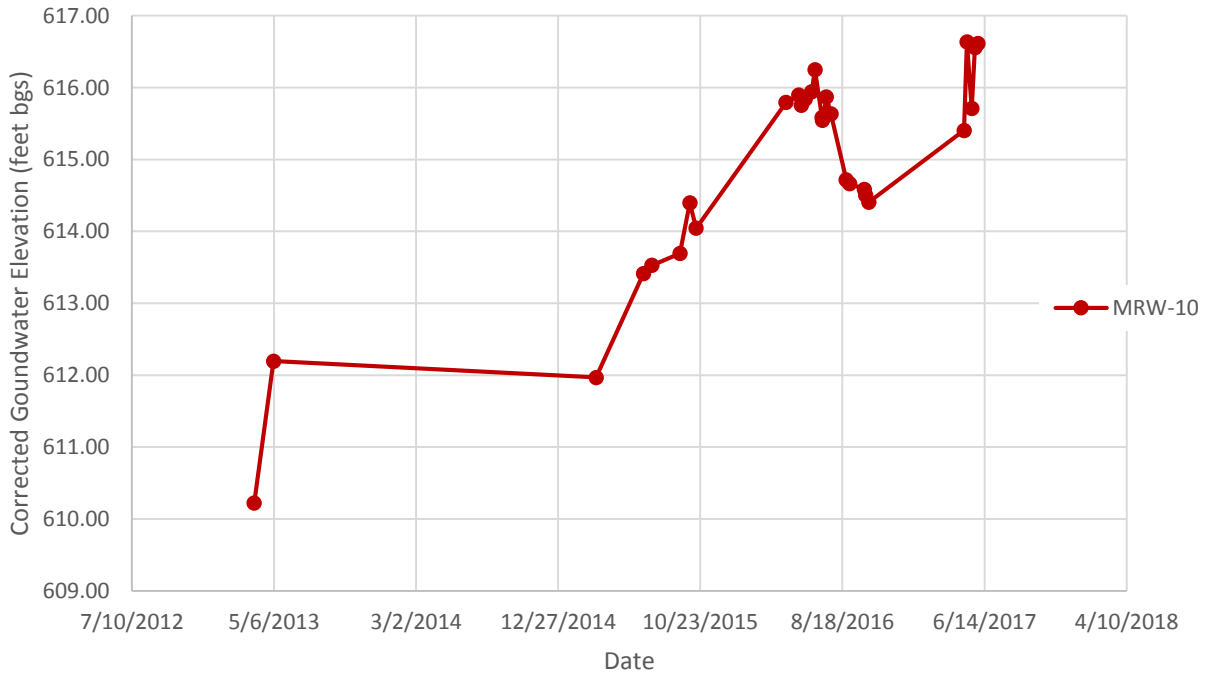
Groundwater Elevation MRW-8



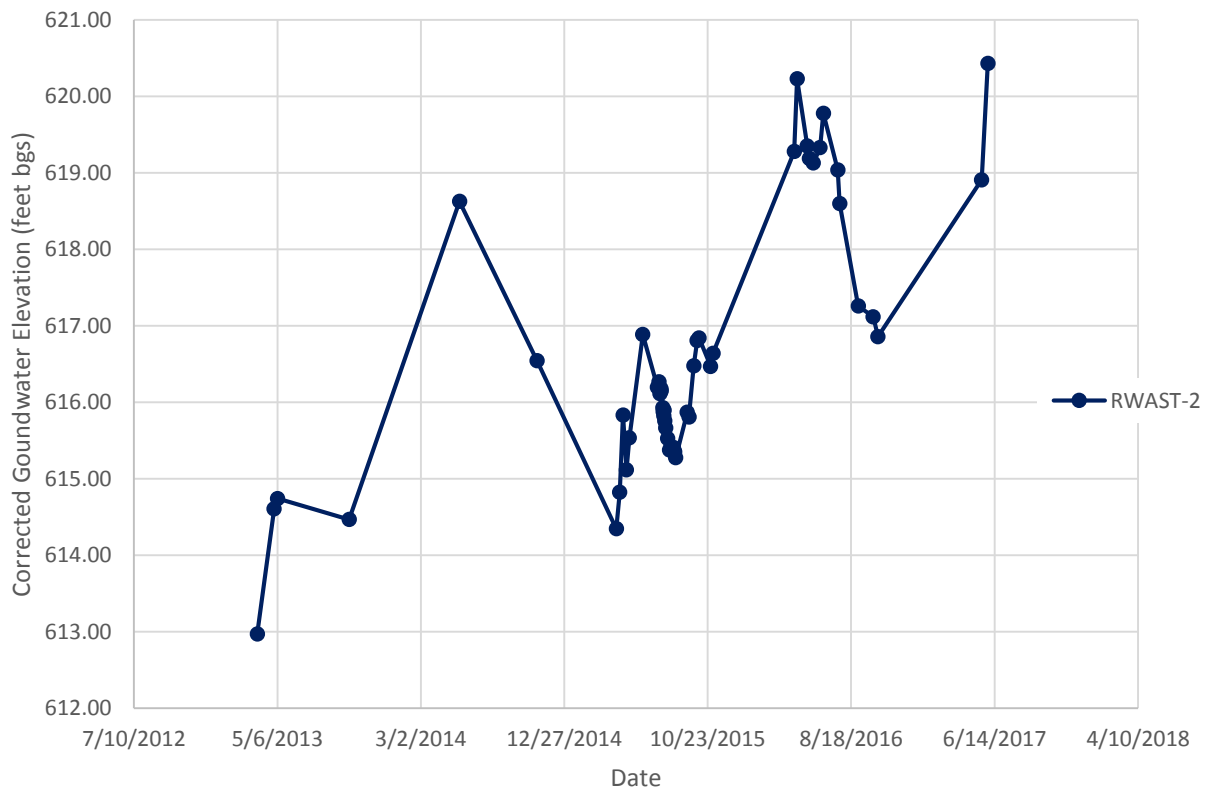
Groundwater Elevation MRW-9



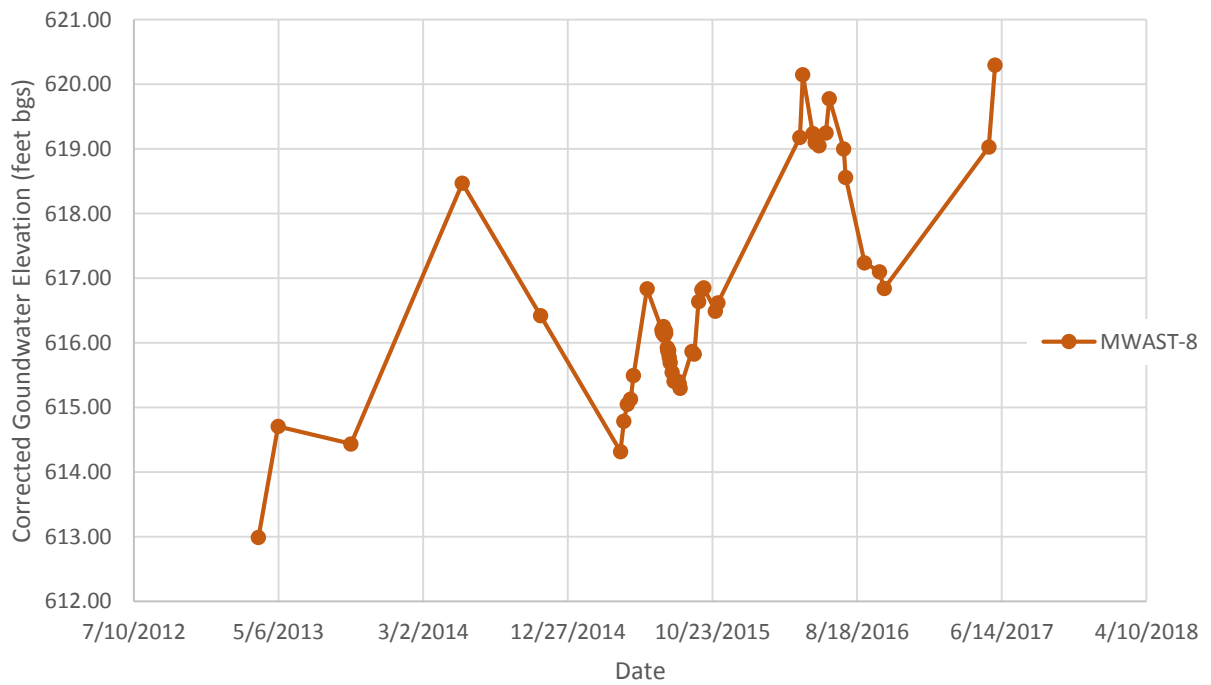
Groundwater Elevation MRW-10



Groundwater Elevation RWAST-2



Groundwater Elevation MWAST-8



Groundwater Elevation MW-32

