

April 15, 2024

John Hunt
Wisconsin DNR
101 N Ogden Rd Suite A
Peshtigo, WI 54157

**Subject: Site Investigation Report
Former Amoco Terminal
2904 Winter Street
Superior, WI
BRRTS # 02-16-000331
FID No. 816009920**

Dear Mr. Hunt,

Antea[®]Group is submitting this Site Investigation Report (SIR) to provide a summary of additional activities completed to further define the degree and extent of contamination for the Former Amoco Terminal in Superior, WI (BRRTS # 02-16-000331). This report aims to fulfill the requirements of an SIR as defined in Chapter NR 716.15 published under Section 35.93 by the Legislative Reference Bureau and to address the comments and request for additional information provided in the SIR Not Approved letter provided by the Wisconsin Department of Natural Resources (WDNR) on June 27, 2019, and in an email from the WDNR to Antea Group on December 5, 2023.

Antea Group requests review of the enclosed SIR and response documenting whether the report is approved within the standard report review period.

Sincerely,



Layne Kortbein, P.E.
Project Manager
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Antea Group

Wisconsin DNR – NR 700 Process

Remediation and Redevelopment Program

April 2022

Purpose

This guidance is offered as an optional tool to help develop and review site investigation reports and identifies the minimum information that should be included in the report under Wis. Admin. Code ch. NR 716. In some cases, Wis. Admin. Code chs. NR 725 and 726 requirements for case closure are provided to assist in preparation of a closure request. Consultants may choose to use this checklist as an outline for preparation of the site investigation report. Use of this checklist is not required. This checklist is meant for use with Wis. Admin. Code ch. NR 716 and site investigation-related guidance. For more comprehensive site investigation-related information, visit dnr.wi.gov and search "site investigation."

Receipt of Site Investigation Report NR 716.15(1)		Comments	Closure Form
<input type="checkbox"/> NR 716.15(1)(a)	Within 60 days after completion of the field investigations and receipt of lab data		
<input type="checkbox"/> NR 716.15(1)(b), NR 700.11(3g)	One paper copy (if requested by the project manager)		
<input type="checkbox"/> NR 716.15(1)(b), NR 700.11(3g)	One electronic copy (see RR-690)		
<input type="checkbox"/> NR 749, NR 700.11(3r)	Review fee, if DNR review is requested. Use DNR Form 4400-237 to submit report with fees for review.		
Cover Letter NR 716.15(2)(a)		Comments	Closure Form
<input checked="" type="checkbox"/> NR 716.15(2)(a)	BRRTS #	See Cover Letter	p.1
<input checked="" type="checkbox"/> NR 716.15(2)(a)	Purpose of submittal	See Cover Letter	
<input checked="" type="checkbox"/> NR 716.15(2)(a)	Desired action or response by DNR	See Cover Letter	
Executive Summary NR 716.15(2)(b)		Comments	Closure Form
<input checked="" type="checkbox"/> NR 716.15(2)(b)	Description of site investigation results		Sec. 3
<input checked="" type="checkbox"/> NR 716.15(2)(b)	Conclusions		Sec. 3
<input checked="" type="checkbox"/> NR 716.15(2)(b)	Recommendations for future actions		Sec. 3
<input checked="" type="checkbox"/> NR 716.15(2)(b)	NR 712.09 certifications		Sec. 3
General Information (Introduction) NR 716.15(2)(c)		Comments	Closure Form
<input checked="" type="checkbox"/> NR 716.15(2)(c)1.	Project title [e.g., Site Investigation Report for (site name, location)]	Section 1.0	
<input checked="" type="checkbox"/> NR 716.01, 716.11(3), 716.15(2)(c)1.	Purpose	Section 1.0	
<input checked="" type="checkbox"/> NR 716.15(2)(c)2.	RP's name, address, email address and telephone number (May be more than 1 RP – current property owner, lessee, operator, other RP.)	Section 1.1	p.1
<input checked="" type="checkbox"/> NR 716.15(2)(c)3.	Consultants' and/or contractors' name, address, email address and telephone number	Section 1.1	p.1
<input checked="" type="checkbox"/> NR 716.15(2)(c)4.	Site name and address	Section 1.1	p.1

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General Information (Introduction) <i>(continued)</i> NR 716.15(2)(c)		Comments	Closure Form
<input checked="" type="checkbox"/> NR 716.15(2)(c)4.	Site location -- ¼ ¼ section, Township, Range, County	Section 1.1	
<input checked="" type="checkbox"/> NR 716.15(2)(c)4.	WTM coordinates (and metadata) for the site	Section 1.1	p.1
<input checked="" type="checkbox"/> NR 716.15(2)(c)5.	Location map* (see *Visual Aids - Figures)	Figure 1	Att. B.1.a.
<input checked="" type="checkbox"/> NR 716.15(2)(c)6.	Site layout map(s)* with:	Figure 3	Att. B.1.a., b.
<input checked="" type="checkbox"/>	property boundaries	Figure 3	B.1.a.,b.
<input checked="" type="checkbox"/>	roads/access points	Figure 3	B.1.b.
<input type="checkbox"/>	surface water features	N/A	B.1.b.
<input checked="" type="checkbox"/>	underground utilities <i>(and overhead, as needed)</i>	Figure 4	B.1.b.
<input checked="" type="checkbox"/>	buildings	Figure 3	B.1.b.
<input type="checkbox"/>	public & private wells	N/A	B.1.a.
<input checked="" type="checkbox"/>	land uses on adjacent properties	Figure 1	
<input checked="" type="checkbox"/>	known & potential contamination sources	Figure 1	B.1.b.
<input checked="" type="checkbox"/> NR 716.15(2)(c)7.	Geographic position (WTM coordinates) of all properties within or partially within area of contamination, submitted in accordance with NR 716.15(5)(d)	Section 1.1	B.1.a,b. Att. G
Background Information NR 716.15(2)(d)		Comments	Closure Form
<input checked="" type="checkbox"/> NR 716.15(2)(d)1.	Potential cause and date(s) of discharge [time, duration, type, quantity of contaminant(s), etc.]	Section 1.2	1.D., E.
<input checked="" type="checkbox"/> NR 716.15(2)(d)2.	Previously reported discharges or response actions with dates	Appendix A	1.G.
<input checked="" type="checkbox"/> NR 716.15(2)(d)3.	Completed response actions with reference to previous reports	Appendix A	4. A., B.
<input checked="" type="checkbox"/> NR 716.15(2)(d)4.	Other info relevant to response actions	Appendix A	4.A, Att. C
Investigation Methods – Descriptions of techniques used to characterize the site or facility NR 716.15(2)(e)		Comments	Closure Form
<input type="checkbox"/> NR 716.15(2)(e)	Procedures used if different from methods described in the work plan or DNR guidance	N/A	3.A.i.
<input checked="" type="checkbox"/> NR 716.15(2)(e)	Soil – Boring and probe methods (e.g., borings, test pits, hand auger)	Section 3.1 to 3.2.1	3.A.i.
<input checked="" type="checkbox"/> NR 716.15(2)(e)	Groundwater – Well installation and construction, well development procedures, well & aquifer testing methods	Section 2.7 and Section 3.8 through 3.9	3.A.i. Att. A
<input checked="" type="checkbox"/> NR 716.15(2)(e)	Sample collection, handling, analytical techniques (all media) and leak detection methods (vapor intrusion)	Section 2.11, Section 3.3.1	3.A.i. Att. A
<input checked="" type="checkbox"/> NR 716.15(2)(e)	Modeling techniques	Section 3.7 (LDRM), Section 3.8 (Ricker)	3.A.i.

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Sampling and Analysis Requirements NR 716.13		Comments	Closure Form
<input type="checkbox"/> NR 716.15(2)(e)	Investigative procedures varied from that proposed in the work plan or DNR guidance:	N/A	
<input checked="" type="checkbox"/> NR 716.13(1), NR 716.15(2)(e)	Analytical methods used and suitability for matrix, type of analyte, regulatory limit and potential interferences in the samples tested	Included in historical reports	
<input checked="" type="checkbox"/> NR 716.13(3)	Description of any non-lab methods used	Included in historical reports	
<input type="checkbox"/> NR 716.13(4)	Use of any non-discrete (composite) samples and date of DNR approval	N/A	
<input checked="" type="checkbox"/> NR 716.13(5), NR 716.13(6)	Holding times, analytical methods, QA/QC procedures used & chain of custody documentation	Included in historical reports	
<input checked="" type="checkbox"/> NR 716.15(3)(c)	Laboratory name, location and date of each sample, analytical methods and tested parameters, method detection limits and analytical results.	Included in historical reports	Att. A
<input checked="" type="checkbox"/> NR 716.15(3)(d)	Evaluation of inconsistencies between lab results and non-laboratory methods and an assessment of whether resampling or additional quality control procedures are needed	Included in historical reports	Att. A.
<input type="checkbox"/> NR 716.13(7)	Upon DNR request, procedures for sampling and all other routine SI activities, log of all maintenance and calibrations made during field investigation, and field notes of sequence of activities	Upon request	
<input checked="" type="checkbox"/> NR 716.13(13)	If natural attenuation is a potential remedy, results of geochemical indicators and parameters (e.g., DO, nitrates, dissolved Mn, total and ferrous Fe, sulfate, methane, alkalinity, ORP, pH, temperature, conductivity)	Section 2.10	4.I.
<input checked="" type="checkbox"/> NR 716.13(14)	Status of monitoring well integrity		E.
<input checked="" type="checkbox"/> NR 716.13(15)	Water level elevations prior to sampling	Table 1	A.6.
<input type="checkbox"/> NR 716.13(16)	Public or private water supply well sampling, when appropriate	N/A	
<input type="checkbox"/> NR 716.17	For complex sites, the following additional investigation requirements may be communicated to the RP in writing by the DNR:		
<input type="checkbox"/>	Quality Assurance Project Plan		
<input type="checkbox"/>	One replicate sample for every 20 samples or less		
<input type="checkbox"/>	One equipment blank sampling method per event		
<input type="checkbox"/>	One temperature blank for every shipping container of samples that require cooling for preservation		

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Results NR 716.15(3)		Comments	Closure Form
<input checked="" type="checkbox"/> NR 716.15(3)(a)	Detailed narrative of results collected during investigation scoping pursuant to NR 716.07:	Included in historical reports	Sec. 1.
<input checked="" type="checkbox"/> NR 716.07(1)	History of the site, including uses that may have been associated with hazardous substance discharges	Section 1.2	1.B.
<input checked="" type="checkbox"/> NR 716.07(2)	Knowledge of the type and amount of contamination	Section 3.1 and 3.2 (Soil), Section 3.5 (LNAPL), Section 3.8 to 3.9 (Dissolved Phase)	1.E.
<input checked="" type="checkbox"/> NR 716.07(3)	History of previous discharges or environmental pollution	Section 1.2	1.G.
<input checked="" type="checkbox"/> NR 716.07(4)	Environmental media affected or potentially affected by contamination	Section 3.1 and 3.2 (Soil), Section 3.5 (LNAPL), Section 3.8 to 3.9 (Dissolved Phase)	3.A.i.
<input checked="" type="checkbox"/> NR 716.07(5)	Location of the site or facility and its proximity to other sources of contamination	Section 1.1, Section 2.2	1.G, H.
<input checked="" type="checkbox"/> NR 716.07(7), NR 716.11(5)(b), NR 716.15(3)(h)	Potential or known impacts of contamination to receptors, including buildings and other cultural features, and utilities and other subsurface improvements	Section 3.3	2.B.iv.
<input checked="" type="checkbox"/> NR 716.07(7), NR 716.11(5)(b), NR 716.15(3)(h)	Potential or known impacts to public and private water supply wells, including mapping all well locations within a 1,200-foot radius of the outermost edge of contamination	Section 2.1.1	2.B.iv.
<input type="checkbox"/> NR 716.07(11)	Any other items, including climatological conditions and background water or soil quality info that may affect the scope or conduct of the investigation		1.F.
<input checked="" type="checkbox"/> NR 716.07(12)	Hydraulic conductivity of materials where contaminated groundwater is found	Section 2.7.1	Sec. 2 B. iii
Recommended for sediment sites:			
<input type="checkbox"/>	Bulk sediment data, data quality summary, COCs for all receptors		
<input type="checkbox"/>	Porewater, biota, engineering evaluations		
Field Investigation NR 716.11(5)		Comments	Closure Form
<input type="checkbox"/> NR 716.11(5)	Evaluation of all the following (see NR 716.11(3) for purpose of field investigation):		
<input checked="" type="checkbox"/> NR 716.11(5)(a)	Potential pathways for migration of the contamination, including drainage improvements, utility corridors, sediments, bedrock and permeable material or soil along which vapors, free product or contaminated water may flow		
<input type="checkbox"/> NR 716.11(5)(b)	Impacts of contamination upon receptors		

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Field Investigation (continued)		Comments	Closure Form
NR 716.11(5)			
<input type="checkbox"/> NR 716.07(8), NR 716.11(5)(c)	The known or potential impacts of contamination on any resources in NR 716.07(8) identified during the scoping process as having the potential to be affected by the contamination. <i>Sensitive habitats or ecosystems, wetlands, resource waters, sites of historical or archeological significance</i>		Sec. 4
<input checked="" type="checkbox"/> NR 716.07(12), NR 716.11(3)(c), NR 716.15(3)(i)	Hydraulic conductivity of materials where contaminated groundwater is found	Section 2.7.1	2.B.iii.
<input checked="" type="checkbox"/> NR 716.11(3)(d)	Provide an estimate of contaminant mass in the source area(s), along with necessary supporting information. This includes sites involving free product or where natural attenuation is considered for a remedy.	Section 3.6, Section 3.9	4.I.
<input checked="" type="checkbox"/> NR 716.11(6), NR 716.11(7)	Management of investigative wastes	Included in previous reports	
<input checked="" type="checkbox"/> NR 716.15(3)(b)	A description of the sequence of investigative activities	Section 3.1 to Section 3.8	
<input checked="" type="checkbox"/> NR 716.14, NR 716.15(3)(c), NR 716.15(3)(g)	All field measurements, observations and sampling data with tabulated results and a map of sampling locations	Table 1-6, Figure 6	Att. A
<input checked="" type="checkbox"/> NR 716.15(3)(g)	Discussion of the contaminants and impacts on each environmental medium	Section 3.1 to 3.9	Sec. 3.
<input checked="" type="checkbox"/> NR 716.11(4)	Sampling data collected beyond property boundaries of the source area to fully define the extent of contamination; and if property owners have refused access, documentation of efforts taken to obtain access from property owner(s) for site investigation, <i>when requested by the DNR</i>	Section 1.4	
<input type="checkbox"/> NR 716.14(2)	Sample result notifications to the DNR and owner of the property from which the samples were collected	N/A	
<input type="checkbox"/> NR 716.07(9), NR 716.11(3)(b)	Provide information to permit evaluation of interim or remedial actions and need for pilot study or treatability study(ies)	N/A	4.A.
<input checked="" type="checkbox"/> NR 716.07(10)	Immediate or interim actions taken or in progress	Section 3.7	4 B.
Conclusions and Recommendations		Comments	Closure Form
NR 716.15(3), NR 716.15(6)			
<input checked="" type="checkbox"/> NR 716.15(6)	Summary of site investigation results		3.A.i.
	Data Interpretations:		Sec. 3
<input checked="" type="checkbox"/> NR 716.15(3)(h)	Characterize geologic and hydrogeologic characteristics:		
<input checked="" type="checkbox"/> NR 716.15(3)(f)	Stratigraphy [soil and rock types, moisture contents, high and low water table elevations, smear zone depth and location, contaminant source location(s)]	Section 4.0	Att. B.
<input checked="" type="checkbox"/> NR 716.15(3)(e)	For sites with 3 or more water table observation wells include depth to water table, groundwater flow directions, flow rates and variability	Section 4.0	Att. B.3.

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Conclusions and Recommendations <i>(continued)</i>		Comments	Closure Form
NR 716.15(3), NR 716.15(6)			
<input checked="" type="checkbox"/> NR 716.11(3)(a), NR 716.11(4), NR 716.11(5), NR 716.15(3)(g), NR 716.15(3)(h)	Areal and vertical degree and extent of contamination in all environmental media:		3.A.ii, 3.B., C.
<input checked="" type="checkbox"/> NR 716.11(5)(e)	soil		3.B.i, ii, iii.
<input checked="" type="checkbox"/> NR 716.11(5)(f)	groundwater		3.C.i, ii.
<input type="checkbox"/> NR 716.11(5)(d)	bedrock	N/A	
<input checked="" type="checkbox"/> NR 716.11(5)(g), (h)	vapor (from soil or groundwater) and in indoor air, to assess occupied buildings		3.D.i, ii.
<input type="checkbox"/> NR 716.07(2)(e)2.	surface water	N/A	3.E.i, ii.
<input type="checkbox"/> NR 716.11(5)(d)	sediment	N/A	3.E.i, ii.
<input checked="" type="checkbox"/> NR 716.15(6)	Recommendations for further response actions necessary to protect human health and the environment		4, 5
Applicable recommended best practices for sediment sites:			
<input type="checkbox"/>	Stratigraphy [sediment and rock types, moisture contents, high and low water table elevations, smear zone depth and location, contaminant source location(s)]		
<input type="checkbox"/>	If applicable, update conceptual site model as a narrative, text, pictorial, computer model or combination that should be updated throughout the SI process.		
<input type="checkbox"/>	Sediment core logs that include grain size, presence of debris, sediment transport, isotope chemistry, areas subject to erosion		
Visual Aids – Figures*		Comments	Closure Form
NR 716.15(4)			
* <i>Include these figures to clarify and support the results and data interpretations. Include figure number, title, scale, north arrow and legend; locations and data used to prepare figure (e.g., water elevation and datum or concentration and units); origination date and figure source (original preparer). Use a distinguishing symbol, such as a dashed line or question mark, to depict inferred or uncertain data. Use national geodetic survey data for all elevations.</i>			
NR 716.15(4)(a)			
<input checked="" type="checkbox"/> NR 716.15(4)(b)1.	Water table map(s) for sites with 3 or more wells depicting water table elevation, groundwater flow and variations	Figure 7A-7C	B.3.c.
<input checked="" type="checkbox"/> NR 716.15(4)(b)2.	Potentiometric surface map(s) with 3 or more piezometers depicting water table elevation, groundwater flow and variations	Figure 7A-7C	B.3.c.
<input checked="" type="checkbox"/> NR 716.15(4)(c)	Isoconcentration maps with contaminant concentrations in each environmental medium	Figure 8A-8C	B.2.a., b. B.3.b. B.4.a, b.
<input checked="" type="checkbox"/> NR 716.15(4)(d)1., NR 716.15(4)(d)2.	Cross-sections for sites with 2 or more soil borings indicating contaminant sources, stratigraphy, screened well intervals, screen lengths, water table, confining units, vertical and horizontal extent of contamination in soil and groundwater, highest and lowest water table and piezometric elevations	Figure 4, Figure 5	B.3.a.

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Visual Aids – Figures* (continued) NR 716.15(4)	Comments	Closure Form
Recommended for sediment sites:		
<input type="checkbox"/>	NOAA charts, navigational charts, bathymetry, bulkhead wall as-builts	
Visual Aids – Tables NR 716.15(4)(e)		
<i>Include data tables for all measured data or sampling-derived data. Include table number, title, explanation of footnotes, date of sampling, units of measurement. Distinguish any results that equal or exceed an environmental standard. All visual aids must be legible, referenced in text, and used as needed to support results and interpretations.</i>		
NR 716.15(4), (e)1. – 4.		
<input checked="" type="checkbox"/> NR 716.15(4)(e)5.	Soil – indicate depth (of sample interval) and soil type for soil sample summary tables	Table 4A-4C A.2.,3
<input checked="" type="checkbox"/> NR 716.15(4)(e)6.	Groundwater – indicate each well's top and bottom screen elevation on groundwater elevation tables	Table 1 A. 6.
Visual Aids – Photographs (Included only if needed to clarify or support results and conclusions.) NR 716.15(4)(f)		
<input type="checkbox"/> NR 716.15(4)(f)	Color photographs of a size to clearly represent the purpose of the photo and labeled with date, orientation and topic	B.5, D.3.
Recommended for sediment sites:		
<input type="checkbox"/>	Photograph of each core clearly showing material type, location, date and orientation	
Visual Aids – Well and Borehole Documentation NR 716.15(4)(g)		
<input checked="" type="checkbox"/> NR 716.15(4)(g)1.	4400-89 Groundwater Monitoring Well Info	Included in previous reports
<input checked="" type="checkbox"/> NR 716.15(4)(g)2.	4400-113A Monitoring Well Construction	Included in previous reports Att. E
<input checked="" type="checkbox"/> NR 716.15(4)(g)3.	4400-113B Monitoring Well Development	Included in previous reports Att. E
<input checked="" type="checkbox"/> NR 716.15(4)(g)4.	4400-122 Soil Boring Log Information	Included in previous reports
<input checked="" type="checkbox"/> NR 716.15(4)(g)5.	3300-5B Well/drillhole/borehole abandonment	Included in previous reports Att. E
<input type="checkbox"/> NR 716.15(4)(h)	WI DOT well construction permits for right-of-way	
<input type="checkbox"/> NR 726.05(7)(c)	Well construction variance requests	
Deed and Locational Information for Each Affected Property NR 716.15(5)		
<input type="checkbox"/> NR 716.15(5)(a)	Most recent deed with legal description* <i>* Under Wis. Admin. Code § NR 726.11(4)(a): If a buyer has purchased the property under a land contract and has not yet received a deed, a copy of the land contract which includes the legal description may be submitted instead.</i>	Att. G
<input type="checkbox"/> NR 716.15(5)(b)	Certified survey map or relevant portion of a recorded plat map for properties where the legal description refers to a certified survey map or a recorded plat map	Att. G
<input type="checkbox"/> NR 716.15(5)(c)	Parcel identification number(s) for each affected property	Att. G
<input type="checkbox"/> NR 716.15(5)(d)	Geographic position (and method for determining)	Att. G

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This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

The Wisconsin Department of Natural Resources (DNR) is committed to promoting diversity, fairness, equity and the principles of environmental justice. We ensure that we do not discriminate in employment, programs, decisions, actions or delivery of services. If you have questions or to request information in an alternative format (large print, Braille, audio tape, etc.), please contact us at 888-936-7463 or <https://dnr.wisconsin.gov/About/Nondiscrimination>



Site Investigation Report

Former Amoco Terminal
2904 Winter Street, Superior, WI

FID No. 816009920
BRRS # 02-16-000331

Antea® Group

Understanding today.
Improving tomorrow.

PREPARED FOR

Mr. John Hunt
Wisconsin DNR
101 N Ogden Road, Suite A
Peshtigo, WI 54157

PREPARED BY

Antea Group Shoreview, MN

April 11, 2024

Project # Superior 2024

us.anteagroup.com

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Figure 18D – SB-15 Delineation Map
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Appendices

Appendix A – Sampling Methodology
Appendix B – Annual Site History Summary
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EXECUTIVE SUMMARY

Antea® Group is submitting this Site Investigation Report (SIR) to provide a summary of additional activities completed and to further define the degree and extent of contamination for the Former Amoco Terminal (Terminal) in Superior, WI (BRRTS # 02-16-000331). This report aims to fulfill the requirements of an SIR as defined in Chapter NR 716.15 published under Section 35.93 by the Legislative Reference Bureau and to address the comments and request for additional information provided in the SIR Not Approved letter by the Wisconsin Department of Natural Resources (WDNR) on June 27, 2019, and in an email from the WDNR to Antea Group on December 5, 2023.

Section 1.0 outlines the site location and background:

- Investigation at the former Amoco Terminal has been ongoing since 1989 to define and characterize contamination resulting from historic site operations. Historic operations included petroleum storage by various entities since the late 1800s, and the use of the property by Amoco and predecessors as a bulk petroleum storage terminal from 1908 until 1999. Light Non-Aqueous Phase Liquids (LNAPL) identified at the site as well as dissolved-phase contamination in groundwater has been a result of multiple releases at the site from the historic petroleum storage and transport operations. Exact dates and volumes of these releases are unknown.
- Contamination release incidents have occurred on the adjacent properties to the Terminal and include the former Stott Briquette Company to the east, which is currently under additional investigation to define Tetrachloroethene (PCE) detections in soil and 1,2-Dichloroethane, Polycyclic Aromatic Hydrocarbons (PAH), and Resource Conservation and Recovery Act (RCRA) metals in groundwater (BRRTS #02-16-000472).

Section 2.0 outlines the site characterization:

- Historical site characterization activities include a sensitive receptor survey, water well survey, surface water and drainage assessments, and contaminant source inventory. The site receptor survey did not identify any potential water well receptors of groundwater contamination within a ½ mile of the site. Underground utilities are not likely to serve as a migration pathway due to the depth to groundwater and surface clay layer which retards the vertical migration of impacted soil vapors. Surface water drainage studies indicated that petroleum volatile organic compounds (PVOCs) and polynuclear aromatic hydrocarbons (PAHs) in drainage water from the Terminal across the western portion of the Barge Dock site discharging into St. Louis Bay were less than NR 140 Preventative Action Levels (PAL).
- The site geology plays an important role in defining the extents and immobility of contaminants in the Terminal site. A surficial clay layer ranges in thickness from approximately 10 to 20 feet below ground surface (bgs) and increases in thickness to the west of the Terminal. Unconfined conditions are generally present, with confined conditions existing north of Winter Street.
- Groundwater flow is to the north/northwest at a horizontal gradient calculated from the average of historical data that ranged between 0.00180 feet per foot (ft/ft) and 0.01049 ft/ft. Monitoring wells and piezometers have been installed at four different depths throughout the site (S, D, DD, and DDD levels) for dissolved-phase and vertical gradient monitoring. Groundwater vertical gradients show predominant downward vertical gradients on the Terminal. Closer to St. Louis Bay, all groundwater flow vertical gradients are upward.
- Calculations for hydraulic conductivity suggest the greatest potential for groundwater flow is at depths of approximately 54 to 54.5 feet below grade within a layer of sandy silt soils.

- Product samples collected from select wells on the Terminal have revealed three dominant product patterns resembling that of low-grade gasoline or naphtha, midgrade to premium gasoline and diesel fuel, and kerosene or slightly naphtha range product. These product compositions are relatively undegraded. Comparative LNAPL samples collected in 2022 from wells previously sampled in 2004 indicate that much of the benzene had been depleted from the LNAPL at the Terminal through the processes of water washing, evaporation, or biodegradation, so that in 2022 the remaining aromatic hydrocarbons, which are less soluble, less volatile, and often more resistant to biological degradation, are now experiencing a relative acceleration of mass depletion.
- Microbial analysis and geochemical parameter sampling was completed in June 2019 from select wells within and upgradient from the dissolved-phase benzene plume. Results indicated that a robust microbial community was present at the site with a genetic ability to aerobically degrade Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), regardless of the presence of a dissolved-phase benzene plume. Sulfate and manganese concentrations were compared with areas of dissolved-phase benzene impact. This comparison identified that wells with lower benzene concentrations (shallow wells), contained depleted manganese and elevated sulfate concentrations. The deeper wells with higher dissolved-phase benzene concentrations contained elevated manganese and depleted sulfate concentrations. This indicates ongoing reduction of sulfate and generation of manganese as a metabolic byproduct (active natural attenuation) through the dissolved-phase plume.

Section 3.0 outlines the contaminant distribution:

- Soil
 - Recent investigation activities completed since the submittal of the previous Site Investigation Report in 2017 have included the location, excavation, cleaning, removal, and abandonment of out-of-service pipelines from Frontage Road through the Terminal from September through October 2020. Approximately 585 tons of petroleum-impacted soil was removed and landfilled during the excavation which was delineated through the collection of 53 soil samples. Project accomplishments also included the removal of 2,818 linear feet of pipeline and recovery and disposal of 35,600 gallons of petroleum impacted water.
 - During the Fall 2020 pipeline removal work, a soil investigation was performed in Winter Street and north of the BNSF train tracks to address the concerns from the WDNR that there was residual contamination under the road and to determine the extent of petroleum-impacted soils. A total of 17 direct-push boring locations were advanced and sampled to investigate soil conditions. None of the 17 samples collected from the 0-4 feet direct contact interval exceeded the NR 720 PAH and PVOC Industrial Residual Contaminant Levels (RCLs) for direct contact. Although exceedances to NR 720 soil to groundwater RCLs were observed in the 4 to 8 foot soil sampling interval, the PVOC concentrations indicate that the residual petroleum impact is relatively weathered and degraded, as the soil analytical showed higher concentrations of Trimethylbenzene constituents and Xylene compared to the more easily biodegradable and water washed compounds of Benzene and Toluene.
 - Near surface soil contamination considered a potential direct contact risk according to NR 746 has been delineated through sampling in 2013 and 2014. A total of 5,400 tons of impacted soil was excavated in 2014.
- Vapor
 - Soil gas sampling and assessments completed for the site have included operation of a soil vapor extraction system, completion of soil gas surveys and soil gas sampling, installation of vapor extraction wells, and the installation and sampling of a vapor monitoring pin inside the Lake City

Towing (LCT) office building (VP-1). The surficial clay layer present throughout the site influenced the effectiveness of soil vapor extractor systems but has been shown to act as an effective barrier for vertical migration of vapors.

- LNAPL
 - Thicknesses of LNAPL in wells are influenced by groundwater elevation variations and precipitation. Numerous remedial efforts at the Terminal site have been completed to recover subsurface LNAPL and have included an interim product recovery system, soil vapor extraction system, vacuum enhanced fluids recovery and treatment system, skimmer pump operation, and manual recovery events. These efforts have recovered more than 29,000 gallons of LNAPL which indicates that more than 64% of the LNAPL in the subsurface at the Terminal has been recovered and the remaining residual LNAPL accounts for only 36% of total volume.
 - Results for LNAPL transmissivity, soil porosity, hydraulic conductivity, hydraulic gradients, LNAPL velocity calculations, and recovery modeling have also supported the conclusion that residual LNAPL is immobile and plume stability has been achieved.
- Dissolved-Phase
 - Additional piezometers have been installed since submittal of the previous Site Investigation Report in 2017 which has allowed for horizontal and vertical delineation of the deep depth (D-level) dissolved-phase benzene plume which originates at the Terminal. The dissolved-phase plume continues to be monitored on a semi-annual basis.
 - An analysis of the stability of the dissolved-phase benzene plume was completed through a Ricker Plume Stability Analysis which analyzed concentration trends for benzene on a plume-wide basis. The analysis indicated that since 2016, the benzene mass in the entire Benzene plume delineated by the “D level” monitoring wells has declined by approximately 11.0%.

Section 4.0 outlines the conclusions:

- Through vapor surveys, surface drainage studies, and analysis of aquifer hydrogeologic properties, it has been determined that the only potential receptor for dissolved-phase petroleum contamination is St. Louis Bay. Fortunately, dissolved-phase concentrations in monitoring wells adjacent to the Bay have been stable and near or below the NR 140 ES for Benzene.
- Soil gas assessments have determined that petroleum vapors and methane from anaerobic product degradation are located under the surficial clay layer in the northeastern frontage of the Terminal. Soil vapor extraction wells installed on the property were ineffective due to the absence of an unsaturated vadose zone or experienced decaying recovery potentials. Continuing obligations regarding vapor intrusion should be applied for the Terminal as allowed under Wisconsin Statute § 292.12 to manage residual contamination and vapor intrusion risk upon site closure.
- Vertical extents of LNAPL plumes have been delineated through numerous soil borings, well gauging, and Laser Induced Fluorescence/Ultraviolet Fluorescence (LIF/UVF) data to be between 17 and 21 feet below ground surface (bgs). Plumes are immobile as supported through LNAPL transmissivity, LNAPL velocity, pore fluid saturation, and hydraulic conductivity calculations. Clay layer thicknesses and elevations are shown to lock the LNAPL in place as the clay layer dips to the north, creating confined conditions for the groundwater but especially for the LNAPL.
- LNAPL recovery has been completed to the extent practicable as historic LNAPL recovery through the use of skimmer pumps, vacuum-enhanced total fluids recovery and vapor extraction systems, and manual recovery have removed approximately 64% of the LNAPL from the subsurface. Residual apparent LNAPL thicknesses in wells are not indicative of the thickness of the LNAPL interval in the

formation. LNAPL transmissivity evaluations and recoverability tests indicate the residual LNAPL is not recoverable.

- The lateral boundary of the dissolved-phase Benzene plume has been defined to extend slightly past the limits of defined LNAPL plumes; the vertical extent is supported by vertical delineation wells downgradient to the north of Winter Street. An analysis of the dissolved-phase Benzene plume on a plume-wide basis through a Ricker Plume Stability analysis indicated that since 2016, the Benzene mass in the entire Benzene plume delineated by the “D level” monitoring wells has declined by approximately 11.0%.

Section 5.0 outlines the recommendations:

- Continue groundwater monitoring events on a semi-annual basis to evaluate the trends of the dissolved-phase benzene plume from select wells.
- Following approval of this Site Investigation Report, Antea Group will prepare a Remedial Action Options Report for the Terminal to document the evaluation and selection of additional remedial actions completed historically for the Site as well as the proposed next steps.

NR 712.09 CERTIFICATIONS

I, Wayne Hutchinson, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the 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.



April 11, 2024

Wayne Hutchinson, P.G., P.H.
Senior Hydrogeologist



Site Investigation Report

Former Amoco Terminal, Superior WI

1.0 INTRODUCTION

Antea®Group is submitting this Site Investigation Report (SIR) to provide a summary of additional activities completed since the submission of the previous Site Investigation Report in 2017 to further define the degree and extent of contamination for the Former Amoco Terminal in Superior, WI (BRRTS # 02-16-000331). This report aims to fulfill the requirements of an SIR as defined in Chapter NR 716.15 published under Section 35.93 by the Legislative Reference Bureau and to address the comments and request for additional information provided in the SIR Not Approved letter by the Wisconsin Department of Natural Resources (WDNR) on June 27, 2019, and in an email from the WDNR to Antea Group on December 5, 2023.

1.1 SITE LOCATION AND DESCRIPTION

The Former Amoco Terminal (Site) is located at the southeast corner of Susquehanna Avenue and Winter Street in the city of Superior, Wisconsin (**Figure 1**). The Former Amoco Terminal is comprised of two investigation areas and three open BRRTS numbers, the Terminal (BRRTS #02-16-000331) and the Barge Dock (BRRTS #02-16-117873, #02-16-297979). The focus of this report will be the Former Amoco Terminal (referred to as the Terminal). 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, measuring 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. A figure showing the location of the property is shown in **Figure 1**. An area properties map illustrating the location of the Terminal and Barge Dock and identifying the associated BRRTS numbers for properties surrounding the site is included as **Figure 2**. 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 3**. A map illustrating the wells included in the Terminal Area is included as **Figure 4**. A summary of Site details is provided below:

Site Name	Amoco Oil Terminal
Site Address	2904 Winter Street, Superior Wisconsin
Site BRRTS Number	02-16-000331
Responsible Party	BP Products North America Inc.
Responsible Party Contact	Jim Smith 201 Helios Way Helios Plaza 6.370A Houston, TX 77079 Jim.Smith2@bp.com 832-619-3585
Consultant Contact	Antea Group ATTN: Layne Kortbein 5910 Rice Creek Pkwy, Suite 100 Shoreview, MN 55126 Layne.Kortbein@anteagroup.us 608-408-9954
Section, Township, Range	Section 16, Township 49 North, Range 14 West Douglas County, Wisconsin SE ¼ of the NE ¼ S16 T49N R14W
Wisconsin Transverse Mercator Coordinates	1174249.482739, 2286922.690647 feet

1.2 OPERATIONAL HISTORY

The Former Amoco Terminal has been used for petroleum storage by various entities since the late 1800s. According to historic real estate maps (Antea Group, 2017), the site initially operated under the Eastern Minnesota Railroad in 1889 and the Terminal property itself was listed as a distribution center under Standard Oil in 1890. Adjacent site operations consisted of a steel plant factory to the southwest of the former Terminal in the late 1800s to early 1900s and coal docks and coke ovens to the east established since the late 1800s. The former Amoco Terminal has reportedly 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 above ground petroleum bulk tanks, an office building, truck loading racks, and a railroad loading rack. All Amoco petroleum operations ceased at the property in 1999. Tanks, rail lines, and loading racks have been removed. Pipelines that connected the Barge Dock to the Terminal were removed within the boundaries of the Barge Dock property in 2003. The remaining extent of pipelines identified within the Terminal and between the Terminal and Barge Dock properties were removed or abandoned in place in 2020 as discussed in **Section 3.1.1**. Light Non-Aqueous Phase Liquids (LNAPL) identified at the Site as well as dissolved-phase contamination in groundwater have been a result of multiple releases from the historic petroleum storage and transport operations; exact dates and volumes of these releases are unknown.

1.3 PROPERTY OWNERSHIP

RRS, Inc. sold the Terminal to an entity currently known as Winter Business Park LLC in 2001. Building expansion in the Winter Business Park (**Figure 2**) has included the construction of the FedEx Ground Package System at 2929 Halvor Lane in October 2005, and construction of Guardian Pest Solutions at 3131 Halvor Lane in July of 2016. In April 2021, HCI Limited Partnership (owner of the FedEx property) purchased the land adjacent to the existing facility at 2929 Halvor Lane. Additional discussion on the FedEx redevelopment activities completed from September through November 2021 is included in **Section 3.1.2**. Parcels were resurveyed in June 2021, and the property owned by HCI Limited Partnership and operated by FedEx is shown in **Figure 2**. The remaining Terminal land parcels were purchased in April 2020 by Thompson Land Company and are planned for future sale and commercial/industrial redevelopment.

1.4 ADJACENT PROPERTIES

Properties adjacent to the Terminal area are described below and illustrated in **Figure 2**. Petroleum release incidents have occurred on several of these properties. The WDNR Bureau of Remediation and Redevelopment Tracking System (BRRTS) numbers for these incidents are listed where applicable.

Murphy Oil pipeline – The Murphy Oil pipeline is located adjacent to the east side of the Terminal, traversing north-south within the western right of way of Maryland Avenue. A release of low sulfur No. 1 diesel occurred from the pipeline in December 1994. The location of the release was east of the Terminal manifold (near abandoned remediation well EW-3) within the western right of way area of Maryland Avenue. Free standing liquid in the “ditch” was removed. During pipeline repair, 250 cubic yards of soil was removed. Soil probes were advanced at five locations to six feet below the ground surface (bgs) within the western right of way of Maryland Avenue. Soil samples collected from three of the probes contained one or more petroleum compounds above NR 720 soil standards. The release received a No Further Action (NFA) letter in May 1997. This release does not appear to have a BRRTS number.

Sue Vinje Properties Inc. and Sue Vinje Trucking – The property is 10 acres in size and is located to the east of the Terminal adjacent to Maryland Avenue. A commercial business, Sue Vinje Trucking, operates on this property. This property is the former location of Stott Briquette Company, a producer of charcoal briquettes. The southern

portion of the property is listed on BRRS as 02-16-554133 Stott Briquette Company – S Parcel, which was approved by the WDNR to be combined and further tracked under BRRS 02-16-000472 on November 4, 2020. It is an open release number. The site assessment submitted to the WDNR on October 27, 2008, by American Engineering Testing documented the presence of volatile organic compounds and polynuclear aromatic hydrocarbons in both soil and groundwater samples. A Site Investigation Work Plan for the site was approved on February 6, 2023, and included plans for soil boring advancement and monitoring well installation to further define the extent of PCE detections in soil and 1,2-Dichloroethane, PAH, and RCRA metals in groundwater. An email correspondence between the retained consultant (Braun Intertec) and the WDNR from May 4, 2023, noted that previously installed monitoring well MW-1 was unable to be located onsite. Since the date of the email, no additional documents have been uploaded.

Burlington Northern & Santa Fe (BNSF) – The railroad tracks operated by BNSF are located north of the Terminal and Winter Street and are currently active tracks. Train cars ship coal from the Powder River Basin in Montana and Wyoming to Midwest Energy’s coal dock operating approximately 1,200 feet to the northeast of the Terminal.

1101 Building Limited Partnership – The property is 52 acres in size and is located west of the Terminal bordering Susquehanna Avenue. The property is occupied by AMSOIL corporate headquarters. The property was previously occupied by Gateway Foods and undeveloped prior to the 1980s.

2.0 SITE CHARACTERIZATION

2.1 HISTORICAL POTENTIAL RECEPTOR SURVEY

Historical site characterization activities including a sensitive receptor survey, water well survey, surface water and drainage assessments, and contaminant source inventory are detailed in the June 6, 1999, *Site Investigation and Interim Response Actions Report* (Antea Group, 1999) and presented below.

2.1.1 WATER WELLS

A water well survey was conducted to identify potential water well receptors of groundwater contamination at or within 1/2 mile of the site. The site is in an industrial area of Superior and is bounded by active or abandoned industrial properties on all sides. The properties in the area obtain potable water from the Superior Water, Light and Power Company (SWL&P). According to a representative from SWL&P, the Superior city water supply is drawn both from Lake Superior directly, and from wells located in Lake Superior. The water supply wells were drilled to approximately 45 feet in depth in shallow water just north of Minnesota Point, approximately five miles east of the site. Officials from the Douglas County Health Department were contacted to discuss other potential water wells in the area and have confirmed that they are not aware of any active water wells near the site. The construction of new groundwater supply wells is restricted in the area due to the documented area-wide contamination and land use restrictions. A review of water supply well locations through the WDNR Well Construction Information System (Wisconsin Department of Natural Resources, 2024) did not locate any water supply wells within 1/2 mile of the site.

2.1.2 UNDERGROUND UTILITIES

Underground utilities near the Former Amoco Terminal were evaluated to determine their potential as conduits for contaminant migration. Underground utilities near the site include petroleum pipelines, water lines, natural gas lines, and local telephone service lines. The locations of these lines are presented in **Figure 5** and the

locations were confirmed to still be accurate during utility locating for pipeline removal activities in 2020 (**Section 3.1.1**). Underground utility vaults have not been identified in the area of the Terminal. The utility lines are not likely to serve as migration pathways given the depth to groundwater and shallow clay soils which retard the vertical migration of soil vapors.

Storm sewers are located along the south side of Winter Street, along the east side of Susquehanna Avenue, and surrounding the FedEx building. The storm sewers discharge to the detention pond at the intersection of Winter Street and Susquehanna Avenue. The detention pond discharges to the ditch which flows northwest toward St. Louis Bay. Several catch basins and manholes are present along Winter Street and several manholes are present on the north side of the FedEx property. The storm sewer manholes and catch basins are identified on **Figure 4**. The closest manhole and catch basins to the Terminal are within/adjacent to Winter Street and are 120 feet northwest of the LCT office building.

A sanitary sewer runs from the LCT (former Terminal operations) building to the west and connects with the sanitary sewer main line present along Susquehanna Avenue. This line was installed by Amoco and sewage from the former Terminal operations building and the Terminal pump and treat system discharge through this line.

These storm sewer manholes and catch basins were screened for the presence of petroleum vapors over the third and fourth quarters of 2014 as discussed in **Section 3.3.2** and were determined to not be a potential receptor or migration pathway for contamination at the Terminal.

2.1.3 ST. LOUIS BAY

St. Louis Bay (Lake Superior) is located approximately 1,800 feet northwest of the Terminal. Active monitoring and recovery wells delineate the groundwater conditions north of Winter Street and hydrogeologically down gradient to the northwest. Nested monitoring well MW-41 is located within 150 feet of St. Louis Bay and marks the most northwesterly and down-gradient monitoring point. As discussed further in **Section 3.9**, St. Louis Bay is a potential receptor to dissolved-phase petroleum groundwater contamination from the Terminal, however the dissolved-phase plume has been delineated as stable prior to reaching the Bay.

2.1.4 SURFACE WATER AND DRAINAGE

The historic surface-water discharge network at the Former Amoco Terminal featured an outfall near former monitoring well MW-19 in the northwest corner of the Terminal. The Terminal had a general permit for petroleum non-contact water. Surface water collected within the containment berms was routed through drainage culverts to an oil/water separator tank near former monitoring well MW-19 and discharged under WPDES Permit No. WI-004531-2. The surface water was discharged off-site and entered a drainage ditch that ran toward St. Louis Bay (**Figure 6**). The drainage ditch also carried surface-water runoff from the railroad properties north of Winter Street and from the AMSOIL warehouse west of the site. The Terminal discharge network and the oil/water separator were removed as part of the Terminal demolition in 2001.

A surface-water assessment was performed for the former drainage ditch located at the corner of Winter St and Susquehanna Ave on August 30, 1990. Two sample locations were chosen along the drainage pathway, with both a soil and water sample taken at each location. One location was selected immediately below the drainage ditch outfall (samples SWRO-1 and SROS-1), with the second near the end of the drainage ditch approximately 40 feet from St. Louis Bay (samples SWRO-2 and SROS-2). The soil and water samples were analyzed for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and purgeable halocarbons. Surface water analytical sample results and soil sample results are included in the 2017 *Site Investigation Report* (Antea Group,

2017). Drainage water at either location did not contain detectable concentrations of VOCs or PAHs, and Lead was below the Wisconsin Preventative Action Limit (PAL) of 0.005 milligrams/liter (mg/L). Soil results at location SROS-1 reported PAHs at concentrations ranging from 0.1 to 1.0 milligrams/kilogram (mg/kg). The soil sample near St. Louis Bay only contained a detectable Benzo(b)fluoranthene concentration of 0.044 mg/kg. VOCs were not detected at either location.

2.1.5 ROADWAYS AND RIGHT OF WAYS

Roadways are located adjacent to the Terminal. In 2003, a flash fire occurred during removal of the old asphalt road surface of Winter Street near the intersection of Winter Street and Maryland Avenue. The fire occurred when an excavator was scraping off the old asphalt road surface of Winter Street near the Terminal entrance and sparks from the excavator bucket ignited petroleum vapor trapped below the asphalt. The fire was soon extinguished with no damage to property and roadway work was continued. Some near surface petroleum in impacted soil along Winter Street was removed during the road construction. Soils under Winter Street were investigated during pipeline removal activities in 2020; petroleum VOC exceedances in soil were not identified within the first four feet under the road when compared to NR 720 Industrial Direct Contact limits (**Section 3.1.1**).

2.2 CONTAMINANT SOURCE INVENTORY

A contaminant source inventory was performed at the start of the investigation in 1989 to identify possible off-site sources of contamination which may have contributed to the groundwater contamination observed at the site. Potential off-site sources which have been evaluated include the Murphy Oil Petroleum pipeline along the east edge of the Terminal and the former Stott Briquet manufacturing facility immediately east of the Terminal.

The property located east of the site, in the southeast corner of Winter Street and Maryland Avenue, was formerly occupied by the Stott Briquet manufacturing facility (**Figure 2**). Stott Briquet utilized petroleum products as part of the process in the manufacture of anthracite and charcoal briquettes. The Wisconsin Historical Society's record on the Stott Briquet facility lists that the factory was built in 1909. The dates of factory operation are not known, although the property was abandoned when the investigation began in 1988. In 1988, there were at least three above ground storage tanks and one open drum containing an unknown waste sludge present at the Stott Briquet property. It is not known if there were any underground storage tanks at the site, or what material may have been present in any of the buildings on the site. The Wisconsin Storage Tank Database does not list any available records for this time period. One monitoring well installed on the property in June 1989 (MW-28) was sampled 43 times until it was abandoned in October 2013. Parameters analyzed included petroleum volatile organic compounds (PVOCs), gasoline range organics (GRO), and diesel range organics (DRO), which were below the NR 140 Enforcement Standards (ES) for all sampling events. Additional investigation to further define the extent of historical PCE detections in soil and 1,2-Dichloroethane, PAH, and RCRA metals in groundwater is ongoing at the site.

2.3 TOPOGRAPHY

The Terminal is located approximately 1,800 feet southeast of St. Louis Bay near the western terminus of Lake Superior. The ground elevation is typically about 630 feet relative to National Geodetic Vertical Datum (NGVD) and is approximately 30 feet above the mean elevation of Lake Superior (602 feet NGVD). The topography in the area of this site is relatively flat with several small, low-lying areas. These low-lying areas, which seasonally accumulate surface-water ponding, are found on the southern half of the Redevelopment Authority of the City of Superior (RACS) property, the Hallett Dock property, and the C. Reiss Coal property west of the Barge Dock. Surface-water drainage is to the northwest toward St. Louis Bay through intermittently flowing drainage ditches.

2.4 REGIONAL GEOLOGY

The regional geology of Douglas County is dominated by Pleistocene and Post-Pleistocene Age deposits. The area may be divided into two distinct topographic regions, the Superior lowlands to the north, and the rolling, hilly topography south of the lowlands. The Amoco Terminal is located in the Superior lowland area. The lowland area is characterized by flat to undulating topography underlain by thick red glacial clays (Clayton, 1984).

The Pleistocene Miller Creek Formation makes up the clayey till and offshore clay and silt that primarily compose the Superior lowlands. These deposits were laid down approximately 11,500 to 9,500 years before present. The Douglas Member of the Miller Creek Formation is most commonly found in the study area. When found to overlie clayey material, the Douglas till typically contains between 45 and 85 percent clay, 10 and 40 percent silt, 3 and 20 percent sand, and fewer percent of coarser material. However, when found overlying sand, the Douglas till has been observed to contain as much as 60 percent sand (Clayton, 1984).

Overlying the Miller Creek Formation are various post-glacial deposits. In the study area these deposits consist primarily of organic sediments, stream channel deposits, and shoreline deposits. These post-glacial deposits may be distinguished from the Miller Creek Formation by the absence of reddish clay sediments. All of these deposits are considered to be Holocene in age.

2.5 SITE SOILS AND GEOLOGY

The surficial geology across the Terminal area consists of dense, reddish-brown clay which overlies a sequence of silts and silty sands. This is consistent with the regional geology of the area where shoreline or lacustrine deposits are found to overlie till sequences. The clay layer has been observed through monitoring well boring logs, soil boring logs, and Cone Penetration Testing (CPT) to range in thickness from approximately 10 feet to at least 28 feet (**Figure 7**). On the Terminal, the clay thickness increases to the north and west of the Terminal with the base elevation of clay ranging from 612 to 624 feet above mean sea level (amsl) and dipping to the northwest in the Terminal area.

A water-bearing reddish-brown silty-fine sand unit underlies the reddish-brown clay at an approximate average depth of 15 feet below grade. In the upper portion of the silty sand unit, CPT logs have indicated the presence of discontinuous silt lenses at multiple locations. Grain size distribution in the sand unit is 80 to 90 percent fine sand, 10 percent silt, and three to five percent clay. The grain size distribution in the upper clay is approximately 83 percent clay and 12 percent silt and five percent sands.

The contact between the overlying clay and sandy silt dips west-northwest at an approximate average of 2.5 feet per 100 feet. The water table on the Terminal property is generally unconfined with approximately two to three feet of unsaturated sand between the top of the water table and bottom of the clay. During periods of a higher groundwater elevation, the water table becomes confined as it rises above the clay/sand interface. A hydrogeologic cross section located to the south of and parallel to Winter Street depicts the clay thickness and variation in the saturated zone underneath the clay layer (**Figure 8**). The water table becomes confined north of Winter Street as the average water table elevation exceeds the elevation of the sloping clay/sand contact. The silty-sand/sandy-silt unit extends to at least 99 feet below grade (based on the soil log for monitor well MW-30DDD) which is the maximum soil boring depth.

A hydrogeologic cross section, oriented north-northwest across the Terminal, C. Reiss Coal and Hallett Dock properties, begins at monitor well nest MW-4S/MW-4D and terminates at monitor well nest MW-41S/MW-41D

near St. Louis Bay (**Figure 9**). The dissolved-phase Benzene plume as described in **Section 3.9** is influenced by the surficial clay layer, discontinuities in the fine-grained sediment lenses, and vertical hydraulic gradients.

2.6 SITE HYDROGEOLOGY

2.6.1 MONITORING WELL NETWORK

To monitor site and areawide groundwater and light non-aqueous phase liquid (LNAPL) conditions, monitoring wells have been screened across the water table and piezometers have been installed to monitor deeper intervals beneath the water table. The “S” level shallow zone water table wells are screened approximately between 15 and 25 feet below ground surface (bgs) with 10 to 15-foot well screens. Additional groundwater monitoring levels include the “D” level (terminated around 560 feet bgs with depth of 55-60 feet bgs), “DD” level (terminated around 540 feet bgs with depth of 80 feet bgs), and “DDD” level (terminated around 530 feet bgs with depths of 88-99 feet bgs) which are used to gauge the vertical groundwater gradients and dissolved-phase contamination.

The first monitoring wells for the Terminal were installed as OW-1 through OW-13 (now MW-1 through MW-13) from February 19-21, 1988, and were installed to approximate depths of 25 feet bgs with 10-foot screens. Recovery wells (RW-1 through RW-7) were installed in 1989 to depths ranging from 40 and 48 feet bgs and screened from 19 to 47 feet bgs with 25 to 28-foot screens. Monitoring well installations began in 1988 with Amoco’s terminal assessment initiative and have continued as part of an expansive investigation program based on LNAPL and dissolved-phase delineation objectives and monitoring well abandonment or replacement based on evolving property use and redevelopment projects.

Groundwater levels and LNAPL occurrence at the Terminal have been gathered from fluid gauging of the monitoring well network from 1988 to the present. Groundwater depths and LNAPL thicknesses from all site wells were gauged in April 2023. Additional well gauging was conducted throughout the year on wells which have historically exhibited LNAPL. Groundwater elevations and LNAPL thicknesses measured in the wells at or associated with the Terminal are presented in **Table 1**. LNAPL extent is shown in **Figure 10**.

2.6.2 GROUNDWATER FLOW GRADIENT

The depth to groundwater ranges from approximately 14 to 21 feet bgs on the Terminal property. Historical horizontal groundwater flow gradients have been calculated across the Terminal to the north between wells MW-4S and MW-33, across the Terminal to the northwest between wells MW-4S and MW-34, and across the Terminal and Barge Dock to the north between wells MW-4S and MWOW-1. The inferred groundwater flow is to the northwest at a gradient of 0.00180 feet per foot (ft/ft) from MW-4S to MW-33, 0.00194 ft/ft from MW-4S to MW-34, 0.00393 ft/ft from MW-4S to MWOW-1, and 0.01049 from MW-33 to MW-41S, calculated from an average of historical data. The horizontal gradients are presented in **Table 2A**. A groundwater elevation contour map based on gauging data from the wells across the Terminal and Barge Dock was constructed using the gauging data collected on April 24, 2023, and is presented as **Figure 11A** for “S” level wells, **Figure 11B** for “D” level wells, and **Figure 11C** for “DD” level wells. The groundwater elevation contour maps illustrate the prevailing north/northwest groundwater gradient and inferred direction, which is consistent with previous analyses of groundwater elevation data.

Well nests with well screens at the “S” level (water table or clay/sand interface with total depth between 20-30 feet bgs), “D” level (terminated around 560 ft bgs with depth of 55-60 feet bgs), “DD” level (terminated around 540 ft bgs with depth of 80 feet bgs), and “DDD” level (terminated around 530 ft bgs with depths of 88-99 feet

bgs) are used to gauge the vertical groundwater gradients. These vertical hydraulic gradients have been calculated for the nested monitoring wells and are presented in **Table 2B**. For the Terminal, historical groundwater vertical gradients have been calculated for well clusters MW-4S/D, MW-15S/D, MW-30S/D, and MW-30D/DD. Although abandoned in October 2013, wells MW-4S/D and MW-15S/D were gauged with downward vertical gradients on 20 of the 21 synoptic gauging events for MW-4S/D, and on 20 of the 23 synoptic gauging events for MW-15S/D. Predominantly downward vertical gradients were also observed for MW-30S/D (37 of the 38 gauging events) and MW-30D/DD (31 of the 35 gauging events). Average gradient values between well nests MW-4S/D, MW-15S/D, MW-30S/D, and MW-30D/DD are 0.0252 ft/ft, 0.0014 ft/ft, 0.0467 ft, and 0.0082 ft/ft, respectively. Closer to St. Louis Bay, the “DD” to “D” level well vertical gradients transition from downward to upward. In the “D” level wells closest to St. Louis Bay, the groundwater vertical gradient transitions to upward, as is expected with St. Louis Bay being a gaining surface-water body (**Figure 9**).

2.7 HYDROGEOLOGIC PARAMETER EVALUATION

2.7.1 HYDRAULIC CONDUCTIVITY

Hydraulic conductivity values were quantified through soil sampling and testing completed during initial site investigations in 1990 and 1994. Soil sample results for the geotechnical laboratory determination of vertical hydraulic conductivity were presented in detail in Delta’s *Supplemental Site Investigation Report* dated November 1, 1990, and Delta’s *Site Investigation and Interim Response Actions Report* dated June 6, 1999. Results are summarized below.

“Slug test” data analyzed from in-situ hydraulic conductivity tests conducted in 1990 from monitoring wells MW-14 and MW-27 resulted in estimated hydraulic conductivities of 0.6 ft/day (2.1×10^{-4} centimeters/second [cm/sec]) and 0.3 ft/day (1.1×10^{-4} cm/sec), respectively. PTS Laboratories (Santa Fe Springs, CA) soil-testing data from 2011 collected at the Terminal reported hydraulic conductivities between 7.9×10^{-3} cm/sec and 4.0×10^{-6} cm/s.

Samples were collected in June 1995 during borehole advancement for MW-30DD at 18 to 18.5 feet (fine sand with silt), 54 to 54.5 feet (silt with fine sand), and 84.5 to 85 feet bgs (firm silt) and represent the screening intervals for the MW-30S, MW-30D, and MW-30DD wells. The geotechnical laboratory results reported calculated hydraulic conductivities of 2.1×10^{-5} cm/sec, 3.0×10^{-4} cm/sec, and 5.6×10^{-6} cm/sec, respectively. Additional “Slug tests” were conducted at MW-4D, MW-15D, and MW-30D in 1994 and indicated hydraulic conductivities of 0.0245 ft/day (8.6×10^{-6} cm/sec), 2.15 ft/day (7.6×10^{-4} cm/sec), and 6.8 ft/day (2.4×10^{-3} cm/sec), respectively. A summary of the hydraulic conductivity data is presented below.

Test Type	Date	Wells Tested	Sampling Interval (ft)	Soil Lithology	Water Bearing Zone Level	Hydraulic Conductivity (cm/sec)
Slug Test	July 1989	MW-14	17-27	Fine sand	S level	2.1 E-4
		MW-27	14-29	Fine sand and sandy silt	S level	1.1 E-4
Geotechnical Lab Analysis	June 1995	MW-30DD	18-18.5	Fine sand with silt	S level	2.1 E-5
			54-54.5	Silt with fine sand	D level	3.0 E-4

Test Type	Date	Wells Tested	Sampling Interval (ft)	Soil Lithology	Water Bearing Zone Level	Hydraulic Conductivity (cm/sec)
			84.5-85	Firm silt	DD level	5.6 E-6
Slug Test	1994	MW-4D	52-55	Fine sand with silt	D level	8.6 E-6
		MW-15D	52-55	Fine sand	D level	7.6 E-4
		MW-30D	50-55	Fine sand with silt	D level	2.4 E-3

The results indicate that the hydraulic conductivities calculated for the sediments underlying the site vary vertically across the site. The highest hydraulic conductivity (2.4×10^{-3} cm/sec) calculated was associated with the sediments at depths of approximately 54 to 54.5 feet below grade, which suggests there is a greater potential for groundwater flow through these deeper zone sandy soils. This interval is monitored through “D” level monitoring wells and is the interval in which the dissolved-phase benzene plume is found northwest of the Terminal on the Hallett Dock property (**Section 3.9**). The other hydraulic conductivities calculated for the soils above (S level) and below (DD level) this interval are an order of magnitude less than the “D” level soils.

2.7.2 AQUIFER HYDROGEOLOGIC PROPERTIES

The hydrogeologic conditions on the Terminal are strongly influenced by the thickness of the overlying clay. The overlying clay dips and thickens to the northwest, resulting in a progression from unconfined to confined groundwater conditions. The water table, or piezometric surface in this case, projects into the overlying clay in the southern portion of the Terminal and then rises and falls across the sand/clay interface in the northern part of the Terminal as the water table responds to seasonal changes. North of Winter Street, near the MW-30 well nest, the water table, or rather the piezometric surface, projects above the sand/clay interface and exhibits confined conditions (**Figure 9**). An observation drawn from the investigations conducted over the years is that wells with screens that straddle the sand/clay interface will have greater apparent LNAPL thicknesses during times of high groundwater elevation, such as at MW-32.

2.8 SOIL CONTAMINANT CHEMISTRY

Soil contamination chemistry has been evaluated through samples collected from direct-push soil borings, well installation events, and hand auger sampling. All soil samples are screened for total organic vapors (TOV) using a photoionization detector (PID). Based on push probe soil boring and monitoring and recovery well installation logs (Antea Group, 2019), the highest PID detections in soil are observed at the water table ranging from 14 to 21 feet bgs, and seasonal groundwater level fluctuations result in a smear zone thickness between five to 12 feet. This smear zone is located in the silty sand layer that underlies the surficial clay throughout the Terminal and is further defined by the limited PID detections present in the overlying stiff clay layer. Similar smear zone depths and thicknesses have been observed through Ultraviolet Florescence (UVF)/Laser Induced Fluorescence (LIF) logs advanced throughout the site (Antea Group, 2019).

Early site investigation hand auger events and well installations from 1988-1994 only screened for TOVs. Soil samples from the 1990 surface drainage study analyzed two soil samples for petroleum volatile organic compounds (PVOCs) and polycyclic aromatic hydrocarbons (PAHs). These samples and analytical results were presented in Antea Group’s *Supplemental Site Investigation Report* (Antea Group, 1990) and noted that the majority of elevated TOV values are distributed in a narrow band just above the water table and were present in areas of historical loading activities and former pipelines. In general, elevated TOV values were measured from

the ground surface in these historical operations areas with TOV readings decreasing in depth through the clay and increasing in readings at the clay-sand interface and water table. A focus on soil contamination delineation within the direct contact interval (zero to four feet bgs) was completed during delineation and excavation events in 2014, and soil samples were submitted for analysis of PVOCs and PAHs. Soil containing detectable concentrations of PAHs above regulatory standards was removed during 2013-2014 excavation events at the Terminal as well as during pipeline removal activities in 2020 (see **Sections 3.1.1** and **3.2**).

2.9 PRODUCT CHEMISTRY

Product has been identified and delineated at the Terminal in five LNAPL areas of concern (AOCs; not including single LNAPL wells) as shown in **Figure 10** based on the LNAPL origin and characteristics. Forty-three product samples have been collected from 19 wells at the Terminal over the investigation history of the site, between 1988 and 2022, with the first LNAPL samples collected on September 21, 1988, and an additional round of samples collected on July 11, 1989. Product fingerprinting has identified multiple product types that indicate this LNAPL is the result of multiple releases over the history of Terminal operations. The *Delta Site Investigation and Interim Response Actions Report* dated June 6, 1999, presents the initial LNAPL fingerprinting results and interpretations. As interpreted by Lyle Bruce and T.J. Nagengast of Amoco Corporation (Bruce and Nagengast; Liquid Hydrocarbon Characterization; May 26, 1995), three dominant product patterns were evident at the Terminal, designated as A, B, and C:

- A. Naphtha or low-grade gasoline, relatively undegraded, with a high (>1.0 grams/gallon [g/gal]) lead content – Identified in wells MW-2, MW-24, and RW-6, which corresponds with the location for AOC 5.
- B. A bimodal mixture dominated by midgrade to possibly premium gasoline with a subordinate amount of diesel fuel or No. 2 fuel oil – Identified in wells MW-1, MW-23, MW-25, RW-2, and RW-5, which corresponds with AOC 3 and appears to constitute the commingled LNAPL in AOC 4.
- C. A nearly bimodal mixture, slightly dominated by kerosene range product and a somewhat subordinate naphtha range product. The naphtha is likely not gasoline and appears relatively undegraded – Identified in wells MW-14, MW-16, MW-22, MW-26, MW-27, MW-32, RW-1, and RW-4, which corresponds with AOC 1 and AOC 2 (which is characterized as having a lack of distillates), but also is represented in AOC 4.

AOC 1 and AOC 2 (**Figure 10**) can be characterized as a mixture of kerosene and relatively undegraded naphtha. AOC 2 is distinguished from AOC 1 by a relative lack of distillates. The petroleum associated with AOC 3 is a mixture of mid-grade to premium gasoline and a lesser amount of diesel fuel or No. 2 fuel oil. Finally, AOC 4 is characterized by being a mix of products “A” and “B”, while in AOC 5 the product in a number of the wells has been characterized as relatively undegraded naphtha or low-grade leaded gasoline.

The concentration of lead in the LNAPL ranged from 0.25 grams/gallon (g/gal) to 1.915 g/gal. The specific gravity of a product sample from well MW-14 was measured to be 0.78. This value has been used as a correction factor when calculating the true ground water elevation in monitoring wells that contain LNAPL (**Table 1**).

LNAPL samples were collected starting in 1988 and as recently as 2022. Results from the 2022 LNAPL sampling were included in the technical memorandum from Antea Group titled *Results and Analysis of Updated LNAPL Investigation* (Antea Group, 2022). LNAPL samples were collected in 2022 to compare to previous LNAPL sampling results and to quantify changes in hydrocarbon characterization, density, and viscosity. LNAPL samples

from MW-27, RW-4, and MW-32 associated with the Terminal releases were collected, and the technical memorandum included a detailed analysis of weight percent (wt%) of aromatic hydrocarbons (Benzene, Toluene, Ethylbenzene, and Xylene [BTEX] and Trimethylbenzenes [TMB]) and Naphthalene in monitoring wells. Results from the weight percentage analysis indicated that MW-32 and RW-4 had overall decreasing weight percentages for aromatic hydrocarbons between 2004 and 2022 samples. This indicates that much of the Benzene had been depleted from the LNAPL at the Terminal through the processes of water washing, evaporation, or biodegradation, so that in 2022 the remaining aromatic hydrocarbons, which are less soluble, less volatile, and often more resistant to biological degradation, are now experiencing a relative acceleration of depletion reflected in lower wt% values between 2004 and 2022.

2.10 GROUNDWATER CHEMISTRY

Groundwater samples have been collected from monitoring wells at the Terminal between March 1988 to October 2023. Wells selected for sampling have varied over the years depending on LNAPL thicknesses and historical analytical results, but samples have been consistently analyzed for BTEX and Naphthalene. A summary of results for all historical ground water chemistry analyses is presented in **Table 3B**. Bioparameters including dissolved oxygen (DO), oxidation-reduction potential (ORP), temperature, conductivity, pH, and soluble iron have been measured between 1997 and 2019 and results are also included in **Table 3B**.

Additional microbial analysis and geochemical parameter sampling was completed in June 2019. On June 6, 2019, bio-trap samplers (bio-traps) were installed in select monitoring wells within and around the dissolved phase benzene plume (MW-36S, MWT-2S, MW-52D, MW-34, MWM-9R-S, MW-30S, MW-36D, MW-30D, MWM-9R-D, and MWT-2D) to evaluate each well for total microbial populations, sulfate degrader populations, and various aerobic and anaerobic gene functions that code for BTEX, Methyl tert-Butyl Ether (MTBE) and Polycyclic Aromatic Hydrocarbons (PAHs) degradation. A detailed summary of the sampling was provided in the *2019 Progress Report* (Antea Group, 2019). An overall summary of the comments and conclusions obtained from the microbial and inorganic analytical results indicated that a robust microbial community was present at the site with a genetic ability to aerobically degrade BTEX, regardless of the presence of a dissolved-phase Benzene plume. D-level screened monitoring wells with Benzene dissolved-phase impacts had significantly lower concentrations of sulfate (SO_4^{2-}) and significantly higher concentrations of manganese (Mn^{2+}) than shallower and/or less impacted wells which indicates that the deeper and more impacted wells have already passed through manganese reducing conditions and have moved into sulfate reducing conditions. These D-level impacted wells also had higher relative abundance and greater variety of aerobic BTEX degrading functional gene concentrations indicating that there is a microbial response and a shift in the community due to the presence of Benzene.

Manganese, sulfate, iron, and nitrogen samples were also collected from 30 wells from June 3 to June 7, 2019, to evaluate the availability of electron acceptors throughout the Site (Antea Group, 2019). Concentrations of iron (Fe^{2+}) and nitrogen (NO_2 plus NO_3) were relatively low for all wells, suggesting that these electron acceptors are either depleted or do not play a significant role in shaping the microbial community. Hydrogeologic cross sections were constructed displaying the sulfate concentrations (**Figure 12**) and manganese concentrations (**Figure 13**) at the S, D, and DD groundwater zones. When comparing the sulfate and manganese cross sections to Benzene concentrations, these figures correlate with lower shallow well concentrations of Benzene and manganese correlating with higher sulfate concentrations, and higher Benzene concentrations, as detected in the vertical well network (Levels D and DD), correlating with depleted sulfate and elevated manganese (ongoing anaerobic sulfate reduction of Benzene).

2.11 SAMPLING METHODOLOGY

Collection of soil samples during advancement of hand auger borings, installation of monitoring wells, or advancement of direct push soil borings followed Standard Operating Procedures included in **Appendix A**. Groundwater sampling from monitoring or recovery wells as well as from temporary wells followed Standard Operating Procedures included in **Appendix A**.

3.0 CONTAMINANT DISTRIBUTION

The Terminal was used for petroleum bulk storage and distribution from prior to 1900 through 1999. As such, multiple releases from various sources have occurred on the properties. These releases were discovered during site investigations that were conducted beginning in February 1988. A map identifying the site investigation area is included as **Figure 2**.

Site investigations conducted to date have included soil borings, direct-push soil borings, cone penetration test/ultraviolet fluorescence (CPT-UVF) borings, cone penetration test/laser induced fluorescence (CPT-LIF) borings, monitoring well installations, temporary well installations, soil sampling, soil gas sampling, and groundwater sampling. Site investigations have identified the presence of petroleum products in the liquid phase, dissolved phase, adsorbed phase, and vapor phase. A detailed map of the Terminal (**Figure 14**) illustrates the locations of all historical soil borings, sample locations, and recovery and monitoring wells completed from the investigation start at the Terminal in 1988 to the present. Remediation on the Terminal began with the installation of 13 groundwater monitoring wells in February 1988 as part of a routine subsurface assessment. A detailed description of the annual remediation methods, systems, sampling events, investigation methods, product recovery totals, and correspondence from February 1988 to July 2023 is summarized in **Appendix B**.

3.1 RECENT SOIL INVESTIGATION ACTIVITIES (2017-2024)

Soil investigation activities completed since the submittal of the previous Site Investigation Report (Antea Group, 2017) to address the comments included in the SIR Not Approved letter by the Wisconsin Department of Natural Resources (WDNR) on June 27, 2019, are included in the below sections.

3.1.1 PIPELINE INVESTIGATION ACTIVITIES AND EXCAVATION

3.1.1.1 PIPELINE REMOVAL

During September through October 2020, the location, excavation, cleaning, removal, and abandonment of 2,818 linear feet of out-of-service pipeline was completed at the Site. Soil surrounding the pipeline was screened with a PID and a total of 53 soil samples were collected every 20 feet along the sidewall of the pipeline excavation. The locations of these samples are shown in **Figure 15**. All of the samples were collected from native sandy clay to clay soils encountered in the pipeline trench unless impacted soils were screened or observed above native material. Soil samples were submitted for analysis of PAHs via EPA method 8270 SIM and for PVOCs via EPA method 8260 and compared to NR 720 Industrial Residual Contaminant Levels (RCL) standards to evaluate zero to four feet bgs direct contact soil conditions. Four samples (Sidewall 5, Sidewall 6, Sidewall 17, and Sidewall 44) were found to exceed NR 720 Industrial Direct Contact limits and all exceedance areas were excavated until low-impact soils were encountered, and exceedance soils were removed for disposal. After the areas were excavated, the sidewalls of the excavation were re-sampled. Soil analytical results are compiled into **Table 4A**.

Soil samples were also collected from low-impact soils that were re-used on-site as backfill into the pipeline trench areas. Samples were collected for approximately every 100 cubic yards of backfill that was generated, with a total of 10 samples collected. Samples were compared to NR 720 Industrial Direct Contact limits and the area of the impacted soil was excavated if the samples had exceedances. Sample Backfill 4 was found to exceed NR 720 Industrial Direct Contact limits for Benzo(a)pyrene. This sample was collected from the backfill placed near Sidewall Samples 13 and 14 (**Figure 15**), and a volume of 12 x 15 x 4 cubic feet was excavated for disposal. The excavation area was filled with imported sand and gravel, so a new soil sample was not collected. No additional backfill sampling results were found to exceed NR 720 Industrial Direct Contact limits (**Table 4A**).

Approximately 585 tons of petroleum-impacted soil was removed and landfilled during the excavation. Project totals also included the removal of 2,818 linear feet of pipelines and recovery and disposal of 35,600 gallons of petroleum impacted water (including precipitation runoff into trenches and residual water and fuels in the pipelines). The soil handling and sampling plan was discussed in detail in the *Superior Terminal Pipeline Abandonment Report* submitted by Antea Group on December 8, 2020, along with the details of the project activities and recovery volumes.

3.1.1.2 WINTER STREET DIRECT-PUSH BORINGS

During the Fall 2020 pipeline removal work, a soil investigation was performed in Winter Street and north of the BNSF train tracks. This work was completed to address the concerns from the WDNR that there was residual contamination under the road and to determine the extent of petroleum-impacted soils. A total of 17 direct-push boring locations were advanced to investigate soil conditions. Out of the 17 locations, 15 were advanced through Winter Street, while the two remaining borings were advanced within the RACS parcel north of the train tracks. These locations are shown in **Figures 16** and **17**. Soil samples were screened with a PID and collected from the direct contact interval of zero to four feet bgs at each boring and were submitted for analysis of PVOCs and PAHs. As shown in **Table 4B**, none of the 17 samples exceeded the NR 720 PAH and PVOC Industrial RCLs for direct contact (**Figure 16**). Additionally, 13 soil samples were collected from the four to eight-foot bgs interval of the direct-push borings where elevated PID readings were observed, and out of these, 10 samples showed exceedances to NR 720 soil to groundwater RCLs (**Figure 17, Table 4C**). Although exceedances to these standards were observed in the four to eight-foot bgs soil samples, the PVOC concentrations indicate that the residual petroleum impact is relatively weathered and degraded, as the soil analytical shows higher concentrations of Trimethylbenzene constituents and Xylene compared to the more easily biodegradable and water washed compounds of Benzene and Toluene (**Tables 4B** and **4C**).

3.1.2 FEDEX REDEVELOPMENT

Expansion of the existing FedEx facility located at 2929 Halvor Lane was completed from September through November 2021 and included parking lot expansion, dry pond excavation, and berm construction. The redevelopment activities were logged under BRRS #07-16-583046. Prior to excavation activities, a Phase II Investigation on the property was completed which included the advancement of 12 borings to a maximum depth of five feet bgs as well as three borings to a maximum depth of 20 feet bgs. Soil samples were collected from all borings at intervals with the highest PID readings, visual signs of impact, or other visual or olfactory indications of impact. Results of the investigation and sampling were presented in BBJ Group's *Phase II Environmental Site Assessment Report* (BBJ Group, 2021). Only one soil sample (GP-15) contained an exceedance of the Industrial Direct Contact Residual Contamination Limit (DC RCL) for Benzene and Bromodichloromethane.

Impacted soils identified at the FedEx expansion property through the Phase II Report were managed during development activities through a Materials Management Plan which was approved by the WDNR on August 31,

2021. A Construction Completion Report was submitted to the WDNR on September 13, 2022, documenting the volume of contaminated soil bermed or capped on-site. This contaminated soil will be managed by BBJ Group through an annual berm and parking lot maintenance and inspection plan (BBJ Group, 2022).

3.2 EXTENT OF SOIL CONTAMINATION

3.2.1 SURFACE SOIL CONTAMINATION AND EXCAVATION

Previous soil remedial activities as detailed in the *Terminal Site Investigation Report* (Antea Group, 2017) have included extensive investigation of the direct-contact exposure pathway, which is the primary pathway of concern to human health for soil contamination. Investigation included the advancement of 286 soil borings from October 2013 through August 2014 across the Terminal and Barge Dock to the north. Excavation of any identified impacted areas was completed from November to December 2014. The analytical results from the soil borings are included in **Table 5** and show the step-out excavation delineation sampling results which identified the areas to be excavated around soil borings SB-1, SB-2, SB-15, SB-18, SB-24, SB-23, SB-39, and SB-40. A total of 4,500.62 cubic yards (yd³) (5,400.74 tons) were removed from these areas and disposed of through Waste Management (Antea Group, 2017).

All soil borings advanced for direct-contact investigation through the Terminal are shown in **Figure 18A** and details on individual excavation areas are shown in **Figure 18A** and **Figures 18B-18G**. Soil borings which were observed to have exceedances to the direct contact standards were excavated to the limits shown on **Figure 18A**. Based on the results of the historical investigations and the current soil management plans in place, direct contact exceedances have been identified and remediated and do not present a risk to human health at the site.

3.3 VAPOR INTRUSION EVALUATION

3.3.1 SOIL GAS SAMPLING AND INVESTIGATION

As discussed in the *2017 Terminal Site Investigation Report*, soil gas sampling and assessments completed for the site have included operation of a soil vapor extraction system, completion of soil gas surveys and soil gas sampling, installation of vapor extraction wells, and the installation and sampling of a vapor monitoring pin inside the Lake City Towing office building.

Soil gas sampling completed from September 2006 through October 2007 included the advancement of 31 direct-push probes along Winter Street and the northern part of Susquehanna Ave, with soil gas samples collected within the overlying silty-clay layer at approximately five feet bgs and from beneath the clay layer and in the silty sand at approximate depths of 17 feet bgs. Results from the soil gas samples indicated that petroleum vapors from the residual LNAPL were located in the northeast frontage of the Terminal, and methane gas was detected in the underlying silty-sand layer at 17 feet. Remediation of the soil vapor concentrations was addressed through the operation of the soil vapor extraction system from 1994 to 2004 and again from 2009 to 2013. The effectiveness of the vapor extraction system was proven to be limited by the variability of the thickness of the vadose zone, which fluctuates based on groundwater elevations and the depth of the surficial clay layer. During periods of high groundwater elevation, the vadose zone disappears as the piezometric head is pushed into the upper clay layer, which produces conditions unsuitable for air flow. Reduced vapor recovery effectiveness was observed due to high groundwater elevations during operation of vapor extraction wells VE-1 through VE-4. Vapor sampling from these points was discontinued after 2012.

A vapor sampling pin was installed in the floor of the Lake City Towing office building in 2016 (VP-1), and four rounds of vapor samples were completed from 2016 to 2017. Vapor pin installation followed WDNR RR-986 guidance (July 2014) and a leak test (water dam method) was conducted prior to initial sampling. All vapor samples were submitted to Pace Analytical Services, Inc. (Pace) of Green Bay, Wisconsin for laboratory analysis for PVOCs by method TO-15. The results of the vapor sampling are discussed in the 2017 Terminal Site Investigation Report and indicated that concentrations of PVOCs and methane were below Wisconsin sub-slab Vapor Risk Screening Level (VRSL) standards. The results demonstrated that the thick clay layer that overlies the saturated sand is acting as an effective barrier for vertical migration of soil vapors.

As discussed during the Technical Assistance Meeting with the WDNR on September 16, 2019, and summarized in a WDNR letter dated October 14, 2019, continuing obligations regarding vapor intrusion should be applied for the Terminal as allowed under Wisconsin Statute § 292.12 to manage residual contamination and vapor intrusion risk upon site closure.

3.3.2 STORM SEWER VAPOR SURVEYS

Vapor surveys of the storm sewer catch basins and manholes were conducted at the Terminal site on September 4 and November 11, 2014, as discussed in the *2014 Progress Report* (Antea Group; January 12, 2014). Monitoring for petroleum vapor intrusion into subsurface utility enclosures was conducted utilizing a PID. Organic vapors from potential vapor migration pathways points, such as catch basins, are drawn through the analyzer, which registers a reading in parts per million equivalent (ppme). Vapor survey results concluded no organic vapors were detected with a PID at measurements greater than 0.6 ppme during either the third or fourth quarter monitoring events in 2014. Antea Group discontinued this screening process going forward due to the consistent low or non-detection meter readings for petroleum vapors.

3.4 RECENT LNAPL INVESTIGATION (2017-2023)

LNAPL investigation activities completed since the submittal of the previous *Site Investigation Report* (Antea Group, 2017) to address the comments included in the SIR Not Approved letter by the Wisconsin Department of Natural Resources (WDNR) on June 27, 2019, are included in the below sections.

3.4.1 LASER-INDUCED FLUORESCENCE INVESTIGATION

In September 2022, a laser-induced fluorescence (LIF) investigation was conducted at the Site. The goal of the 2022 LIF investigation was to investigate the LNAPL extent and boundaries of the defined LNAPL AOCs to determine if there have been changes since previous UVF and LIF work was completed from 2002-2009. Previous UVF and LIF work included the advancement of 28 CPT/UVF borings in 2002, 26 CPT/ROST¹ (Rapid Optical Screening Tool) points in 2004, 29 CPT/LIF borings and 25 CPT borings in 2006, and 28 CPT/LIF borings in 2009. A point-by-point analysis of the 2022 LIF locations and their comparison to previous results can be found in the Antea Group technical memo titled *Former Amoco Terminal (Superior, WI) – Results and Analysis of Updated LNAPL Investigation* dated January 10, 2023.

The LIF investigation in 2022 included the advancement of four LIF points (LIF-55, LIF-56, LIF-57, and LIF-58) at the Terminal with locations chosen to further define AOCs (**Figure 10**). The results indicated that there are two occurrences of LNAPL at different depths at LIF-54 which was advanced at the boundary of AOCs 4 and 3 (**Figure 10**). This response confirmed that LNAPL from AOC 3 to AOC 4 is present but does not comingle. The response

¹ ROST, or Rapid Optical Screening Tool, is a rapid-assessment tool similar to LIF developed at the University of North Dakota on behalf of the U. S. Department of Defense (EPA/540/R-95/519; August 1995)

observed at LIF-55 indicated two response intervals that indicate the LNAPL in AOCs 2 and 3 may be comingled. The response interval observed at LIF-56 and LIF-57 was consistent with the interval observed at T-4 in 2002, which noted elevated UVF readings at depths between 15.8 to 17.5, corresponding to observed saturated soils (Antea Group, 2019) and indicating predominantly gasoline-range hydrocarbons.

3.5 EXTENT OF LIGHT NON-AQUEOUS PHASE LIQUID

The extents of defined AOCs 1-5 at the Terminal have been refined based on monitoring and recovery well gauging data, LIF (including ROST) and UVF borings, soil logs for wells, and laboratory analysis of soil samples for petroleum constituents. The interval of observed impacts at the Terminal are generally present between the depths of 15 to 21 feet bgs, which is consistent with the general range of seasonal water table fluctuations. Details on the boundaries of the AOCs and explanation of their determination from historical data is discussed in detail in the *2017 Terminal Site Investigation Report*. Adjustments to the LNAPL Extent since the *2017 Terminal Site Investigation Report* are as follows:

Monitoring well MW-12 was abandoned in October 2013, and prior to abandonment was gauged with 0.74 feet of LNAPL (**Table 1**). The extent of LNAPL in this area was delineated by RW-7 to the northwest which was gauged with no LNAPL during 30 events from May 2001 until the date of abandonment in June 2007. LNAPL is delineated in all other directions by LIF-22, LIF-23, LIF-24, LIF-25, and LIF-26. CPT/LIF probes LIF-22, LIF-24, and LIF-26 indicated minimal fluorescence responses (<12%), and responses at CPT/LIF probes LIF-23 (50%) and LIF-25 (35%) are considered lower range fluorescence responses. Copies of the CPT/LIF logs for the Terminal were provided to the WDNR as *Technical Memo #2 – Terminal Ground Penetration Point Appendix* submitted on October 25, 2019.

Monitoring well MW-19R was installed on the southeast corner of the detention pond to the northwest of the Terminal as a replacement to MW-19 which was abandoned for city road construction. Well MW-19R was installed in an area with a thinner surficial clay layer (logged clay from zero to 10.5 feet bgs) compared to MW-19 (logged clay from zero to 27 feet bgs) which resulted in a vadose zone and increased in-well LNAPL thicknesses. Prior to abandonment of MW-19R on October 3, 2013, the well was gauged at 2.08 feet of LNAPL (**Table 1**). The extent of LNAPL in this area was delineated by MW-19 to the northwest, which was gauged with no LNAPL on all 51 events from installation in June 1989 to abandonment in April 2005. LNAPL extent is delineated in all other directions by CPT/LIF points T-33, T-34, T-35, T-37, T-38, and T-42. All of the CPT/LIF borings surrounding MW-19R except T-37 (which includes T-33, T-34, T-35, T-38, T-39, T-42, and T-43) showed minimal fluorescence responses (<5%). LIF boring T-37 had the highest fluorescence response of 46.31% at 18.89 feet bgs, although responses below 50% are considered lower range fluorescence responses, as compared to other areas of the Terminal with known LNAPL which yielded responses greater than 100%.

Monitoring wells RW-06R and EW-10R were installed at the FedEx property following the request received from the WDNR via letter dated November 9, 2022. Details on the workplan for the well installations was submitted to the WDNR on December 7, 2022, (Antea Group, 2022). Well installations were completed by Bergerson-Caswell under oversight of Antea Group on April 24-25, 2023. RW-06R was installed within the parking lot of the FedEx facility and was screened from 15-25 feet bgs with 4-inch diameter 0.01-inch slot screen. The well was completed at grade with a metal well box and concrete pad. The well was developed following installation, and LNAPL was not identified in the well. The well was again gauged during semi-annual groundwater sampling events on May 23, 2023, and LNAPL was not detected in the well. This indicates that the extent of AOC 5 may not be continuous between former monitoring well MW-23 and RW-06.

In the *Site Investigation Report Not Approved* letter from the WDNR dated June 27, 2019, it was noted that there was “a lack of data points to estimate LNAPL volume at the area identified in the SIR as AOC 1.” Definition of this area has been completed through gauging of wells MWT-6, EW-7, MW-16, RW-04, and MW-26, and by responses at LIF-40 (Antea Group, 2017). MWT-6 was included in AOC-1 as LNAPL has been occasionally gauged in the well based on the corrected groundwater elevation. Definition of the southern and western extent of the area is provided by gauging of EW-8, and through the minimal responses at LIF-39, LIF-39A, and LIF-41. Delineation directly north is prevented by the utility corridors as shown in **Figure 5**. The LNAPL has been delineated to the north of BNSF properties and the City of Superior access road by LIF-56 which had a lower range LIF response of 41.9%, and by MW-17 which has been gauged 95 times with no LNAPL from September 1988 to April 2023 (**Table 1**). Analytical results for MW-17 have also consistently been below laboratory reporting limits for benzene, the primary groundwater contaminant of concern (**Table 3A**), which indicates that the LNAPL and dissolved-phase Benzene do not follow the same pathway of the LNAPL in AOC 2 and is confined to the Terminal. AOC 1 has therefore been delineated to the extent practicable and the dissolved phase from the Terminal LNAPL is monitored and delineated through downgradient monitoring wells as described in **Section 3.9**.

The extent of AOC 5 was adjusted to include MW-2, which was gauged with 4.14 feet of LNAPL prior to abandonment in September 2007. **Figure 10** displays the extent of LNAPL at the Terminal which includes LNAPL identified at abandoned monitoring and recovery wells.

3.6 LNAPL VOLUME

The estimated volume of LNAPL remaining in the subsurface (not an estimate of the recoverable volume) has been previously calculated using in-well LNAPL thicknesses, oil-specific volumes calculated from total petroleum hydrocarbon analyses, and from CPT/LIF borings. Details on the methods used to convert Total Petroleum Hydrocarbons (TPH) data to oil-specific volumes (OSVs) are presented in the *2017 Terminal Site Investigation Report*. The AOC estimated areas, totaling about 3.5 acres, were calculated as described in **Section 3.5** and were multiplied by the geometric mean of the OSV of each AOC (Antea Group, 2017) to obtain the estimated LNAPL volumes presented below:

	AOC-1	AOC-2	AOC-3	AOC-4	AOC-5
Geomean OSV (feet)	0.0599	0.0067	0.0003	0.0089	0.0122
Plume Area (ft²)	19,649	62,163	12,051	46,614	10,564
LNAPL Volume (gallons)	8,803	3,134	26	3,009	965
Total LNAPL Volume (gallons)	16,026				

Note that the area of overlap between AOC-1 and AOC-2 was included in the plume area estimate for AOC-2 and was not included in AOC-1. These estimated LNAPL volumes do not include the residual LNAPL volumes in singular wells such as MW-12 and MW-25. The additional contribution from individual wells would be a fraction of the overall AOC LNAPL totals, and in the case of abandoned wells would be representative of historical LNAPL volumes and would not account for mass depletion (water washing, evaporation and biodegradation) since well abandonment.

As shown in **Appendix A**, numerous remedial efforts at the Terminal site have been completed to recover subsurface LNAPL and have included an interim product recovery system, soil vapor extraction system, vacuum enhanced fluids recovery and treatment system, skimmer pump operation, and manual recovery events. These efforts have recovered more than 29,000 gallons of LNAPL (Antea Group, 2017), which indicates that more than 64% of the LNAPL in the subsurface at the Terminal has been recovered and the remaining estimated residual LNAPL accounts for only 36% of total (recovered and estimated residual LNAPL).

3.7 LNAPL THICKNESSES AND RECOVERABILITY

Annual gauging events for all on-site wells were completed prior to spring groundwater sampling events starting in 2020 to monitor groundwater flow gradients and LNAPL thicknesses. Gauging data are presented in **Table 1**. Details on the installation dates, well construction, and gauging history for individual wells with LNAPL used to define the AOCs are included in the *2017 Terminal Site Investigation Report*. The water table (or piezometric surface) at the Terminal intersects the clay layer near the southern portion of the Terminal and vacillates along the sand/clay interface as the water table is projected to the north. North of Winter Street near the MW-30 well nest, the water table (piezometric surface) projects into the overlying clay layer and produces confined conditions. Wells with screens that straddle the sand/clay interface will have greater apparent LNAPL thicknesses during times of high groundwater elevation and higher hydraulic pressures leading to a potential for a brief period of LNAPL recoverability. This is apparent at well MW-32 which, during well installation, was logged with a base of clay elevation at 620.81 feet amsl. As shown in **Appendix C**, the corrected groundwater elevation for MW-32 ranged from 617.54 to 621.62 feet amsl from April 2016 to October 2017. This corrected elevation near the base of clay increased the LNAPL thicknesses and recoverability, and a two-inch pneumatic skimming pump that operated from August 2015 to October 2017 recovered approximately 1,330 gallons of LNAPL (Antea Group, 2018). Corrected groundwater elevations dropped 4.44 feet on May 15, 2018, to a corrected groundwater elevation of 616.64 feet amsl, and LNAPL was not gauged in the well. The LNAPL recovery pump has not been reinstalled in the well since May 2018, as LNAPL thicknesses and recoverability have not been sufficient for continued pneumatic recovery pump operation.

Numerous LNAPL transmissivity tests have been completed at the Terminal to evaluate LNAPL recoverability from AOCs 1 through 5. Results of historical LNAPL bail down tests and manual skimmer tests are presented in the *2017 Terminal Site Investigation Report*. Prior to abandonment of wells MW-3, MW-23, RW-6, EW-9, and EW-10, LNAPL gauging and recovery events were completed at wells MW-23 and RW-6 to complete an evaluation of LNAPL recoverability. The results of the recovery events were submitted in the *Addendum to: Well Abandonment Work Plan* dated June 14, 2021, and indicated that once in-well and filter pack LNAPL was removed during the first bail event, reduced LNAPL recovery of 0.1 to 0.2 gallons was able to be completed on a weekly basis. This recovery test indicated that although LNAPL thicknesses greater than two feet have been gauged in the wells, LNAPL thicknesses are apparent thicknesses with no relation to expected LNAPL recovery. As noted by the Interstate Technology Regulatory Council (ITRC) “changes in measurable thicknesses in a monitoring well are a result of changes in the vertical re-distribution of LNAPL saturation and do not typically indicate a change in the lateral extent of the LNAPL body” (ITRC, 2023).

An evaluation on the recoverability of the LNAPL at the Terminal was completed through recovery modeling using the LNAPL Distribution and Recovery Model (LDRM) published by the American Petroleum Institute Charbeneau, 2007, API Publication 4760. Results and evaluation of the model were presented in the Remedial Action Option Report prepared by Antea Group and dated January 30, 2018. The model evaluated the use of passive skimmer pumps and recovery enhancements through the use of applied vacuum and groundwater pumping and predicted that groundwater extraction coupled with product recovery would recover the most

LNAPL, followed by passive skimmer recovery, while vacuum enhanced LNAPL recovery was predicted to produce the least amount of LNAPL. Operation of the Vapor Extraction Total Fluids Recovery and Treatment (VE-TFRT) system occurred starting January 2005 and was discontinued October 2013 following asymptotic recovery conditions. Total recovery by the VE-TFRT system over about 7.5 years (January 2005 to July 2012) was estimated as an equivalent 9,082 gallons of LNAPL. Over the same period, the trend in LNAPL recovery rate declined from about four gallons per day (gpd) to nearly zero gpd.

LNAPL recovery at the Terminal has been evaluated, tested, and implemented through skimmer pumps, vacuum-enhanced total fluids recovery and vapor extraction systems, and an estimated 29,000 gallons of LNAPL have been recovered from the Terminal property. Considering that the evaluation of LNAPL contained in AOC 1 through AOC 5 calculated a volume of 16,026 gallons in the subsurface (**Section 3.6**), this suggests that approximately 64% of the LNAPL originally in the subsurface has been recovered. Recovery of 64% of the LNAPL from the subsurface coupled with limited recoverability and transmissivity within remaining Terminal wells is indicative of very successful removal action that has reached the limits of recoverability.

3.8 RECENT DISSOLVED-PHASE INVESTIGATION (2017-2023)

Dissolved-phase investigation activities completed since the submittal of the previous *Site Investigation Report* (Antea Group, 2017) to address the comments included in the SIR Not Approved letter by the Wisconsin Department of Natural Resources (WDNR) on June 27, 2019, are included below.

Benzene is the primary contaminant-of-concern (CoC) in the dissolved-phase plume, which is most extensive in the “D” Level (defined as wells completed at a target elevation of 555 to 575 feet AMSL, or typically 50 to 55 feet bgs). An updated hydrogeologic section (**Figure 9**) depicts a dissolved-phase petroleum hydrocarbon plume, dominated by Benzene, which originates at the Terminal and migrates northwest in the shallow water-bearing zone (“S” Level). The “S” Level water-bearing zone, which is defined by monitor wells terminated from 10 to 30 feet bgs, is overlain by an extensive surficial clay unit. As discussed in *the Technical Memorandum – Analysis of Benzene Plumes and Assessment of Co-Mingling* submitted by Antea Group on October 11, 2019, the source of the dissolved-phase Benzene is solely related to LNAPL at the Terminal and is unrelated to the confined LNAPL identified at the Manifold and Aboveground Storage Tank (AST) Area (BRRTS #02-16-117873).

The installation of 11 additional piezometers (MW-30DDD, MW-52D, MW-52DD, MW-50D, MW-51D, MW-37DDD, MW-41DD, MW-38DD, MWRR-1D, MWOW-2D, MWBD-1DD) in June 2018 completed the horizontal and vertical delineation of the dissolved-phase benzene plume. Details of the well installations were included in Antea Group’s *2018 Progress Report January-June* dated August 14, 2018. Semi-annual groundwater sampling of the wells was completed in 2018 and 2019, and results from the sampling delineated the dissolved-phase Benzene plume horizontally on the west through the non-detect benzene results at MW-50D, MW-51D, and MW-52D (**Figure 19B**) and vertically through the results below NR 140 Groundwater Enforcement Standards for benzene at MW-37DDD, MW-41DD, and MW-30DDD (**Table 3A**).

An analysis of the stability of the dissolved-phase Benzene plume was completed through a Ricker Plume Stability Analysis (Ricker, 2008, GWM&R Vol. 28, No. 4), the details of which were included in Antea Group’s *Results and Analysis of Updated LNAPL Investigation* (Antea Group, 2022). As discussed in the report, the concentration trends for Benzene were analyzed on a plume-wide basis, and showed that since 2016, the Benzene mass in the entire Benzene plume delineated by the “D level” monitoring wells has declined by approximately 11.0%.

3.9 EXTENT AND TRANSFORMATION OF DISSOLVED-PHASE CONTAMINATION

Antea Group recognizes that all identified dissolved-phase constituents are subject to Wisconsin Administrative Code NR 716 and NR 140 requirements, however Benzene concentrations are the contaminant of focus as it is the primary contaminant of concern associated with the dissolved-phase contamination at the Site as shown in **Table 3A**. The extent of dissolved-phase hydrocarbons in groundwater at the Terminal is monitored with a network of monitoring wells with shallow well screens bisecting the unconfined water table and deeper monitoring wells (piezometers) with wells screens submerged below the water table. The lateral extent of the dissolved-phase benzene plume in the shallow ground water zone is illustrated in the most recent groundwater analytical results (**Figure 19A**). The inferred boundaries of the dissolved-phase plume at the water table extend slightly beyond the limits of the LNAPL plumes at the Terminal, which was further defined by the 2011 installation of extraction wells EW-6 through EW-11 along the western boundary of the northeast Terminal plume. Groundwater analytical results since 1988 are included in **Table 3A**.

Dissolved-phase Benzene results at the “S,” “D,” and “DD” levels are shown in **Figures 19A, 19B, and 19C** using the most recent analytical data for each well (**Table 3A**). The thickness of the overlying clay at the Terminal plays an important role in contaminant distribution and where the water table or piezometric surface projects above the sand/clay interface transitioning to confined conditions. As shown in **Figure 9**, dissolved-phase Benzene concentrations migrate vertically through the gap in the fine-grained sediment layer at the MW-30 well cluster, and are defined within the D-level well downgradient. Vertical delineation of the dissolved-phase benzene is provided by analytical results below NR 140 ES at MW-30DD, MW-30DDD, MW-37DDD, and MW-41DD. Horizontal delineation of the dissolved-phase benzene plume is delineated as shown in **Figure 19B** through analytical results below NR 140 ES at MW-46D, MW-50D, MW-51D, MW-52D, and MW-38D.

Groundwater vertical gradients as shown in **Figure 9** are also important in defining the vertical extent of dissolved-phase Benzene. On the Terminal, vertical hydraulic gradients are predominantly downward in direction, and remain downward between the “S,” “D,” and “DD” levels at the MW-30 well cluster. Closer to St. Louis Bay, the “D” level well vertical hydraulic gradients transition from downward to upward at MW-41D. Dissolved-phase benzene concentrations within the D-level plume have historically been highest at MWT-2D as shown in **Table 3A** at a concentration of 5,740 micrograms/liter (ug/L) in October 2006. Recently, concentrations at wells MWM-7D and MWM-10D appear to be increasing in concentration, however recent concentrations (2,140 at MWM-7D and 3,130 ug/L at MWM-10D in May 2023) are still lower than the historical high benzene concentrations within the plume (5,740 ug/L at MWT-2D in 2006). In addition, dissolved phase trends for perimeter D-level wells have remained non-detect since installation, and downgradient D-level wells MW-36D and MW-37D are decreasing. The overall mass of the dissolved phase plume is decreasing as shown through a plume-wide basis using the Ricker Plume Stability Analysis (Antea Group, 2022).

4.0 SUMMARY AND CONCLUSIONS

This Site Investigation Report provides a summary of additional activities completed to further define the degree and extent of contamination for the Former Amoco Terminal in Superior, WI (BRRTS # 02-16-000331). The new information included in this report, as well as historical assessments completed at the Terminal over the past 35 years, fulfills the requirements of a Site Investigation Report as defined in Chapter NR 716.15 published under s. 35.93 by the Legislative Reference Bureau and addresses comments and requests for additional information provided in the June 27, 2019, WDNR SIR Not Approved letter. Antea Group notes the following regarding this report:

- The Former Amoco Terminal occupied 42 acres and operated as a bulk storage and distribution facility by Amoco and its predecessors from 1908 to 1999; since 1999, the Terminal has been subdivided for commercial redevelopment.
- The surficial geology across the Terminal area consists of dense, reddish-brown clay which overlies a sequence of silts and silty sands; this is consistent with the regional geology of the area where shoreline or lacustrine deposits are found to overlie till sequences.
- The depth to groundwater ranges from approximately 14 to 21 feet bgs on the Terminal property, and groundwater gradient and inferred flow is consistently to the northwest.
- The Terminal has been investigated through the advancement of 38 monitoring wells, 19 recovery wells, 35 downgradient dissolved-phase monitoring wells, 139 soil borings, 21 CPT-UVF borings, four TPH borings, 41 LIF borings, 31 soil gas borings, four vapor extraction wells, and 162 direct contact soil delineation borings.
- Microbial and geochemical analysis on the dissolved-phase benzene plume and upgradient wells indicates that the sulfate and manganese concentrations correlate with impacted and unimpacted dissolved-phase benzene wells, with higher benzene concentrations correlating with depleted sulfate and elevated manganese concentrations. The impacted dissolved-phase benzene D-level wells also had a higher relative abundance and variety of aerobic BTEX degrading functional gene concentrations, indicating that there is a microbial response and a shift in the community due to the presence of benzene.
- Through the direct contact investigations and excavations completed in October 2013 through August 2014 (advancement of 162 soil borings and excavation of 5,401 tons of soil) and October 2020 (53 soil borings and excavation of 585 tons of soil) as well as the soil management plans in place at the adjacent FedEx property, direct contact (zero to four ft) soil exceedances have been identified and remediated or managed so as to not present a risk to human health at the site.
- Soil gas concentrations and vapor intrusion risk has been investigated through the advancement of 31 probes for soil gas sampling, operation of a soil vapor extraction system from 1994 to 2004 and again from 2009 to 2013, and advancement and four rounds of sampling for a vapor pin within the floor of the Lake City Towing office. Results from the vapor pin sampling were below VRSL standards and continuing obligations regarding vapor intrusion should be applied for the Terminal as allowed under Wisconsin Statute § 292.12 to manage residual contamination and vapor intrusion risk upon site closure.
- Seventeen direct-push probes were advanced, 15 in Winter Street and two in the RACS parcel north of the railroad tracks, to delineate shallow soil impact in areas overlying the out-of-service pipeline; no exceedances of the Industrial RCLs within the upper four feet of soil were detected in any of the seventeen soil samples submitted for laboratory analyses.
- LNAPL impact has been delineated across the Terminal identifying five unique LNAPL AOCs totaling an area of about 3.5 acres. The extent of LNAPL within these AOCs has been refined over the past 34 years through the completion of supplemental assessment soil borings, LIF probes and monitoring well installation. LNAPL sampling and analysis has shown that residual aromatic hydrocarbon mass in the Terminal LNAPL is limited and has been depleted through various processes including water washing, evaporation, and biodegradation.
- Recoverability of the residual LNAPL at the Terminal has been evaluated through recovery modeling and implemented through skimmer pumps, vacuum-enhanced total fluids recovery and vapor extraction systems. Recovery systems reached asymptotic recovery before being discontinued, and recent recovery tests have indicated that recovery is limited once in-well and filter pack LNAPL is removed. Recovery of 64% of the LNAPL from the subsurface coupled with limited recoverability and

transmissivity within remaining Terminal wells is indicative of very successful removal action that has reached the limits of recoverability.

- Dissolved-phase Benzene, the primary dissolved-phase contaminant of concern (COC), has been delineated across the Terminal and horizontally and vertically downgradient to the northwest through an extensive network of horizontal and vertical delineation wells on the barge dock and adjacent parcels. The transition of groundwater gradients in the D and DD level zones from down to up closer to St. Louis Bay, as well as the increase in the thickness of the surficial clay layer near the MW-30 series wells play an important role in the distribution and delineation of the dissolved-phase Benzene plume. The overall mass of the dissolved phase plume has been modeled using the Ricker Plume Stability Analysis and shows that the mass is decreasing on a plume-wide basis.

5.0 RECOMMENDATIONS

Based on the above presented data, Antea Group recommends the following:

- Continuation of groundwater monitoring events on a semi-annual basis to evaluate the trends of the dissolved-phase Benzene plume from select wells.
- Following approval of this Site Investigation Report, Antea Group will prepare additional Site Investigation Reports for the Former Amoco Manifold & AST Area (BRRTS # 02-16-117873) and the OW Separator & Loading Rack (BRRTS # 02-16-297979).

6.0 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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Tables

Table 1 – Groundwater and LNAPL Gauging Data - Terminal

Table 2A – Horizontal Groundwater Gradient

Table 2B – Vertical Groundwater Gradient

Table 3A – Groundwater Analytical Data - Terminal

Table 3B - Groundwater Bioparameter Data - Terminal

Table 4A – Direct Contact Soil Sampling Results

Table 4B – Direct-Push Boring 0-4 Feet Soil Sampling Results

Table 4C – Direct-Push Boring 4-8 Feet Soil Sampling Results

Table 5 – Shallow Soil Analytical Results

Table 1
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	

Table 1
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	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	
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

Table 1
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	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	
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	

Table 1
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	04/28/10	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	
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	

Table 1
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	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	
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

Table 1
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	05/31/00	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	
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	

Table 1
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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-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	
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	

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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	
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	

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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-03	05/26/20	634.51	636.63	618.60	609.60	NP	0.00	7.34	5.22	629.29	Yes	
MW-03	04/29/21	634.51	636.63	618.60	609.60	NP	0.00	5.31	3.19	631.32	Yes	
MW-03	05/24/21	634.51	636.63	618.60	609.60	NP	0.00	5.30	3.18	631.33	Yes	
MW-03	08/31/21	abandoned										
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	

Table 1
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	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	
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	

Table 1
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	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	
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	

Table 1
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	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	
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	

Table 1
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	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	
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	

Table 1
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	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	
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	

Table 1
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-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	
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	

Table 1
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-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	
MW-06R	12/17/12	637.12	639.04	623.12	613.12	NP	0.00	21.58	19.66	617.46	No	

Table 1
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-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	

Table 1
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	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	
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	

Table 1
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	07/27/89	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	
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	

Table 1
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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-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	
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	

Table 1
Groundwater and LNAPL Gauging Data - Terminal
Former Amoco Terminal
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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-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	
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	

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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-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	
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	

Table 1
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-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	
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	

Table 1
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-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-10	06/29/17	634.75	635.95	615.90	606.90	NP	0.00	15.75	14.55	620.20	Yes	
MW-10	05/26/20	634.75	635.95	615.90	606.90	NP	0.00	15.05	13.85	620.90	Yes	
MW-10	05/24/21	634.75	635.95	615.90	606.90	NP	0.00	16.59	15.39	619.36	Yes	
MW-10	05/23/23	634.75	635.95	615.90	606.90	NP	0.00	16.65	15.45	619.30	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	

Table 1
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-11	11/28/89	630.10	632.57	614.90	605.90	NP	0.00	17.25	14.78	615.32	Yes	
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

Table 1
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-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	
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	

Table 1
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	10/25/94	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
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	

Table 1
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	05/15/02	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	
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

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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-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	
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	

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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	
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	

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Superior, Wisconsin

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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	
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	

Table 1
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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-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	
MW-14	09/30/02	634.90	636.47	617.90	607.90	19.00	0.68	19.68	17.58	617.32	No	

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Former Amoco Terminal
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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-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	

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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-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	
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	Spill Buddy Before Reading
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 After 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	
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	

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Former Amoco Terminal
Superior, Wisconsin

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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-14	05/23/18	635.05	636.38	617.90	607.90	NP	0.00	19.44	18.11	616.94	No	
MW-14	05/02/19	635.05	636.38	617.90	607.90	NP	0.00	17.66	16.33	618.72	Yes	
MW-14	05/26/20	635.05	636.38	617.90	607.90	NP	0.00	16.35	15.02	620.03	Yes	
MW-14	05/24/21	635.05	636.38	617.90	607.90	18.01	1.06	19.07	16.92	618.13	Yes	
MW-14	06/03/21	635.05	636.38	617.90	607.90	17.69	0.28	17.97	16.42	618.63	Yes	
MW-14	05/23/23	635.05	636.38	617.90	607.90	17.75	1.35	19.10	16.72	618.33	Yes	
MW-15S	09/08/88	630.10	632.73	615.10	605.10	NP	0.00	19.92	17.29	612.81	No	
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	

Table 1
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	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	
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	

Table 1
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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-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	
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	

Table 1
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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-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	
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	

Table 1
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	11/16/89	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	product beads on probe
MW-16	08/14/90	634.30	636.37	619.30	604.30	NP	0.00	22.99	20.92	613.38	No	
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	
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	

Table 1
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	04/04/95	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	

Table 1
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	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	
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	

Table 1
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	11/09/11	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	
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-16	10/26/17	633.67	637.46	619.30	604.30	14.68	14.77	29.45	14.23	619.44	Yes	

Table 1
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	05/15/18	633.67	637.46	619.30	604.30	20.23	5.53	25.76	17.69	615.98	No	
MW-16	05/23/18	633.67	637.46	619.30	604.30	20.13	5.65	25.78	17.62	616.05	No	
MW-16	05/02/19	633.67	637.46	619.30	604.30	19.76	5.54	25.30	17.22	616.45	No	
MW-16	07/25/19	633.67	637.46	619.30	604.30	18.53	7.74	26.27	16.49	617.18	No	
MW-16	05/26/20	633.67	637.46	619.30	604.30	16.52	12.99	29.51	15.66	618.01	No	
MW-16	05/24/21	633.67	637.46	619.30	604.30	19.22	6.34	25.56	16.86	616.81	No	
MW-16	05/24/23	633.67	637.46	619.30	604.30	19.03	4.67	23.70	16.29	617.38	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	
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	

Table 1
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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-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	
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	

Table 1
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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	
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	

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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	
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	

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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	

Table 1
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-20	05/15/03	633.80	636.47	619.00	609.00	NM	NM	NM	NM	NM	NM	
MW-20	08/18/03	Abandoned										
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	

Table 1
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	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	
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	Well bent
MW-21	06/26/07	Abandoned										
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	

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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	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	
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

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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	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	
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	

Table 1
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	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	
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	

Table 1
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	06/21/17	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-22	05/26/20	636.32	639.10	618.60	608.60	19.42	0.26	19.68	16.70	619.62	Yes	
MW-22	05/24/21	636.32	639.10	618.60	608.60	19.75	0.31	20.06	17.04	619.28	Yes	
MW-22	06/03/22	636.32	639.10	618.60	608.60	20.48	0.02	20.50	17.70	618.62	Yes	
MW-22	05/23/23	636.32	639.10	618.60	608.60	19.66	0.07	19.73	16.90	619.42	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	
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	

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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-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
MW-23	01/18/01	633.90	636.81	624.70	609.70	15.51	4.92	20.43	13.71	620.19	No	bailed 2.75 gal. FP

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Superior, Wisconsin

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MW-23	04/24/01	633.90	636.81	624.70	609.70	16.16	3.46	19.62	14.03	619.87	No	product abated using vactruck no product bailed
MW-23	05/23/01	633.90	636.81	624.70	609.70	13.73	5.82	19.55	12.13	621.77	No	
MW-23	06/19/01	633.90	636.81	624.70	609.70	14.77	4.47	19.24	12.87	621.03	No	
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	

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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
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	
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-23	10/26/17	635.07	636.91	624.70	609.70	9.42	8.29	17.71	9.45	625.62	Yes	
MW-23	05/26/20	635.07	636.91	624.70	609.70	11.41	8.18	19.59	11.42	623.65	No	
MW-23	04/29/21	635.07	636.91	624.70	609.70	12.86	2.40	15.26	11.56	623.51	No	Bailed 1.5 gallons
MW-23	05/06/21	635.07	636.91	624.70	609.70	13.53	0.99	14.52	11.91	623.16	No	Bailed 0.5 gallons

Table 1
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	05/13/21	635.07	636.91	624.70	609.70	14.00	0.55	14.55	12.28	622.79	No	Bailed 0.1 gallons
MW-23	05/19/21	635.07	636.91	624.70	609.70	14.25	0.67	14.92	12.56	622.51	No	Bailed 0.2 gallons
MW-23	05/24/21	635.07	636.91	624.70	609.70	14.11	0.50	14.61	12.38	622.69	No	
MW-23	05/28/21	635.07	636.91	624.70	609.70	13.97	0.64	14.61	12.27	622.80	No	Bailed 0.1 gallons
MW-23	06/08/21	635.07	636.91	624.70	609.70	14.20	0.63	14.83	12.50	622.57	No	Bailed 0.1 gallons
MW-23	08/31/21	635.07	636.91	624.70	609.70	17.05	0.19	17.24	15.25	619.82	No	
MW-23	08/31/21	well abandoned 8/31										
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	
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	

Table 1
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	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
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	

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Former Amoco Terminal
Superior, Wisconsin

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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	
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	

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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
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-24	07/25/19	636.19	638.55	625.37	610.37	17.50	5.37	22.87	16.35	619.84	No	
MW-24	05/26/20	636.19	638.55	625.37	610.37	14.56	9.34	23.90	14.31	621.88	No	
MW-24	05/24/21	636.19	638.55	625.37	610.37	17.59	5.50	23.09	16.47	619.72	No	
MW-24	05/23/23	636.19	638.55	625.37	610.37	16.65	7.10	23.75	15.89	620.30	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	

Table 1
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	11/16/89	634.90	637.59	617.50	602.50	20.72	4.04	24.76	18.94	615.96	No	
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	

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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-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
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	No product bailed
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	

Table 1
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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	
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

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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
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-25	05/26/20	635.42	637.70	617.50	602.50	17.14	1.46	18.60	15.19	620.23	Yes	
MW-25	05/24/21	635.42	637.70	617.50	602.50	18.32	0.72	19.04	16.20	619.22	Yes	
MW-25	06/03/22	635.42	637.70	617.50	602.50	18.14	0.19	18.33	15.90	619.52	Yes	
MW-25	05/23/23	635.42	637.70	617.50	602.50	17.94	0.07	18.01	15.68	619.74	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	
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	

Table 1
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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	
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

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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
MW-26	05/23/01	632.70	635.98	619.20	604.20	17.94	1.88	19.82	15.08	617.62	No	no product bailed
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	
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	

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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	
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	

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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
MW-26	07/25/19	633.45	636.11	619.20	604.20	16.86	2.45	19.31	14.75	618.70	No	
MW-26	05/26/20	633.45	636.11	619.20	604.20	14.78	5.16	19.94	13.29	620.16	Yes	
MW-26	05/24/21	633.45	636.11	619.20	604.20	17.22	1.79	19.01	14.96	618.49	No	
MW-26	06/03/22	633.45	636.11	619.20	604.20	17.38	1.82	19.20	15.13	618.32	No	
MW-26	05/23/23	633.45	636.11	619.20	604.20	16.82	2.16	18.98	14.65	618.80	No	
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	

Table 1
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	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	
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

Table 1
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	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	
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	

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Former Amoco Terminal
Superior, Wisconsin

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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	
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	

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Superior, Wisconsin

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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	
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-27	10/26/17	635.10	637.67	620.89	605.89	14.56	5.34	19.90	13.20	621.90	Yes	
MW-27	05/15/18	635.10	637.67	620.89	605.89	20.45	0.81	21.26	18.06	617.04	No	
MW-27	05/23/18	635.10	637.67	620.89	605.89	20.35	0.80	21.15	17.96	617.14	No	
MW-27	05/02/19	635.10	637.67	620.89	605.89	19.85	0.67	20.52	17.43	617.67	No	
MW-27	07/16/19	635.10	637.67	620.89	605.89	18.14	1.62	19.76	15.94	619.16	No	
MW-27	05/26/20	635.10	637.67	620.89	605.89	16.95	2.94	19.89	15.04	620.06	No	
MW-27	05/24/21	635.10	637.67	620.89	605.89	19.28	0.78	20.06	16.89	618.21	No	
MW-27	06/03/22	635.10	637.67	620.89	605.89	19.87	0.25	20.12	17.36	617.74	No	
MW-27	08/15/22	635.10	637.67	620.89	605.89	20.44	0.47	20.91	17.98	617.12	No	LNAPL sampled

Table 1
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	05/23/23	635.10	637.67	620.89	605.89	19.11	0.88	19.99	16.74	618.36	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	

Table 1
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	03/02/99	635.70	638.14	624.08	609.08	NP	0.00	21.60	19.16	616.54	No	
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	

Table 1
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	04/16/12	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	
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	

Table 1
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	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	
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

Table 1
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	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	
MW-30S	05/05/15	630.10	633.05	615.20	605.20	NP	0.00	17.49	14.54	615.56	Yes	
MW-30S	10/07/15	630.10	633.05	615.20	605.20	NP	0.00	15.78	12.83	617.27	Yes	OWLD/ 15.72 NWLD
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-30S	05/14/18	630.10	633.05	615.20	605.20	NP	0.00	16.00	13.05	617.05	Yes	
MW-30S	06/18/18	630.10	633.05	615.20	605.20	NP	0.00	14.20	11.25	618.85	Yes	
MW-30S	06/27/18	630.10	633.05	615.20	605.20	NP	0.00	14.20	11.25	618.85	Yes	
MW-30S	10/08/18	630.10	633.05	615.20	605.20	NP	0.00	15.67	12.72	617.38	Yes	
MW-30S	06/03/19	630.10	633.05	615.20	605.20	NP	0.00	13.45	10.50	619.60	Yes	
MW-30S	10/03/19	630.10	633.05	615.20	605.20	NP	0.00	15.15	12.20	617.90	Yes	
MW-30S	05/26/20	630.10	633.05	615.20	605.20	NP	0.00	13.44	10.49	619.61	Yes	
MW-30S	10/05/20	630.10	633.05	615.20	605.20	NP	0.00	17.55	14.60	615.50	Yes	
MW-30S	05/24/21	630.10	633.05	615.20	605.20	NP	0.00	14.95	12.00	618.10	Yes	
MW-30S	10/04/21	630.10	633.05	615.20	605.20	NP	0.00	17.10	14.15	615.95	Yes	
MW-30S	06/03/22	630.10	633.05	615.20	605.20	NP	0.00	14.20	11.25	618.85	Yes	
MW-30S	09/19/22	630.10	633.05	615.20	605.20	NP	0.00	16.94	13.99	616.11	Yes	
MW-30S	11/02/22	630.10	633.05	615.20	605.20	NP	0.00	17.47	14.52	615.58	Yes	
MW-30S	05/23/23	630.10	633.05	615.20	605.20	NP	0.00	15.04	12.09	618.01	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	

Table 1
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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	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	
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	

Table 1
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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	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-30D	10/03/17	630.15	633.15	578.29	575.29	NP	0.00	14.55	11.55	618.60	Yes	
MW-30D	05/14/18	630.15	633.15	578.29	575.29	NP	0.00	17.74	14.74	615.41	Yes	
MW-30D	06/18/18	630.15	633.15	578.29	575.29	NP	0.00	16.45	13.45	616.70	Yes	
MW-30D	06/27/18	630.15	633.15	578.29	575.29	NP	0.00	16.30	13.30	616.85	Yes	
MW-30D	10/08/18	630.15	633.15	578.29	575.29	NP	0.00	17.28	14.28	615.87	Yes	
MW-30D	06/03/19	630.15	633.15	578.29	575.29	NP	0.00	15.77	12.77	617.38	Yes	
MW-30D	10/03/19	630.15	633.15	578.29	575.29	NP	0.00	16.77	13.77	616.38	Yes	
MW-30D	05/26/20	630.15	633.15	578.29	575.29	NP	0.00	15.53	12.53	617.62	Yes	
MW-30D	10/05/20	630.15	633.15	578.29	575.29	NP	0.00	17.40	14.40	615.75	Yes	
MW-30D	05/24/21	630.15	633.15	578.29	575.29	NP	0.00	16.92	13.92	616.23	Yes	
MW-30D	06/02/22	630.15	633.15	578.29	575.29	NP	0.00	16.28	13.28	616.87	Yes	
MW-30D	10/05/22	630.15	633.15	578.29	575.29	NP	0.00	18.24	15.24	614.91	Yes	
MW-30D	11/02/22	630.15	633.15	578.29	575.29	NP	0.00	18.74	15.74	614.41	Yes	
MW-30D	05/23/23	630.15	633.15	578.29	575.29	NP	0.00	16.53	13.53	616.62	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	

Table 1
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	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	
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-30DD	06/18/18	630.17	633.05	548.63	545.63	NP	0.00	16.70	13.82	616.35	Yes	
MW-30DD	10/08/18	630.17	633.05	548.63	545.63	NP	0.00	17.43	14.55	615.62	Yes	
MW-30DD	06/03/19	630.17	633.05	548.63	545.63	NP	0.00	15.99	13.11	617.06	Yes	
MW-30DD	07/15/19	630.17	633.05	548.63	545.63	NP	0.00	16.40	13.52	616.65	Yes	
MW-30DD	10/02/19	630.17	633.05	548.63	545.63	NP	0.00	16.95	14.07	616.10	Yes	
MW-30DD	05/26/20	630.17	633.05	548.63	545.63	NP	0.00	15.72	12.84	617.33	Yes	
MW-30DD	05/24/21	630.17	633.05	548.63	545.63	NP	0.00	17.15	14.27	615.90	Yes	
MW-30DD	06/03/22	630.17	633.05	548.63	545.63	NP	0.00	16.52	13.64	616.53	Yes	

Table 1
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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-30DD	10/05/22	630.17	633.05	548.63	545.63	NP	0.00	18.36	15.48	614.69	Yes	
MW-30DD	05/23/23	630.17	633.05	548.63	545.63	NP	0.00	16.69	13.81	616.36	Yes	
MW-30DDD	06/18/18	630.10	632.74	534.10	531.10	NP	0.00	16.38	13.74	616.36	Yes	
MW-30DDD	06/27/18	630.10	632.74	534.10	531.10	NP	0.00	16.27	13.63	616.47	Yes	
MW-30DDD	10/08/18	630.10	632.74	534.10	531.10	NP	0.00	17.38	14.74	615.36	Yes	
MW-30DDD	06/03/19	630.10	632.74	534.10	531.10	NP	0.00	15.58	12.94	617.16	Yes	
MW-30DDD	10/01/19	630.10	632.74	534.10	531.10	NP	0.00	16.72	14.08	616.02	Yes	
MW-30DDD	05/26/20	630.10	632.74	534.10	531.10	NP	0.00	15.37	12.73	617.37	Yes	
MW-30DDD	05/24/21	630.10	632.74	534.10	531.10	NP	0.00	17.00	14.36	615.74	Yes	
MW-30DDD	06/03/22	630.10	632.74	534.10	531.10	NP	0.00	16.29	13.65	616.45	Yes	
MW-30DDD	10/05/22	630.10	632.74	534.10	531.10	NP	0.00	18.09	15.45	614.65	Yes	
MW-30DDD	05/23/23	630.10	632.74	534.10	531.10	NP	0.00	16.90	14.26	615.84	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	

Table 1
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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-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	
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	

Table 1
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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-33	05/26/20	630.61	632.85	616.84	606.84	NP	0.00	12.92	10.68	619.93	Yes	
MW-33	05/24/21	630.61	632.85	616.84	606.84	NP	0.00	14.83	12.59	618.02	Yes	
MW-33	06/03/22	630.61	632.85	616.84	606.84	NP	0.00	13.51	11.27	619.34	Yes	
MW-33	08/03/22	630.61	632.85	616.84	606.84	NP	0.00	16.01	13.77	616.84	No	
MW-33	04/24/23	630.61	632.85	616.84	606.84	NP	0.00	14.96	12.72	617.89	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	
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	

Table 1
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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-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	
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-34	06/03/19	627.72	629.45	608.97	598.97	NP	0.00	12.12	10.39	617.33	Yes	
MW-34	05/26/20	627.72	629.45	608.97	598.97	NP	0.00	13.89	12.16	615.56	Yes	
MW-34	05/25/21	627.72	629.45	608.97	598.97	NP	0.00	12.57	10.84	616.88	Yes	
MW-34	05/23/23	627.72	629.45	608.97	598.97	NP	0.00	13.01	11.28	616.44	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	

Table 1
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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-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	
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	

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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-35	05/26/20	637.55	639.74	619.08	609.08	NP	0.00	17.58	15.39	622.16	Yes	
MW-35	05/24/21	637.55	639.74	619.08	609.08	NP	0.00	19.47	17.28	620.27	Yes	
MW-35	06/03/22	637.55	639.74	619.08	609.08	NP	0.00	19.52	17.33	620.22	Yes	
MW-35	05/23/23	637.55	639.74	619.08	609.08	NP	0.00	19.12	16.93	620.62	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	
MW-47	05/26/20	630.30	632.46	618.30	608.30	NP	0.00	15.39	13.23	617.07	No	
MW-47	05/24/21	630.30	632.46	618.30	608.30	NP	0.00	16.50	14.34	615.96	No	
MW-47	06/03/22	630.30	632.46	618.30	608.30	NP	0.00	15.98	13.82	616.48	No	
MW-47	05/23/23	630.30	632.46	618.30	608.30	NP	0.00	16.24	14.08	616.22	No	

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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	
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-2S	10/08/18	630.07	632.52	620.70	605.70	NP	0.00	16.08	13.63	616.44	No	
MWT-2S	06/03/19	630.07	632.52	620.70	605.70	NP	0.00	13.11	10.66	619.41	No	
MWT-2S	10/02/19	630.07	632.52	620.70	605.70	NP	0.00	15.52	13.07	617.00	No	
MWT-2S	05/26/20	630.07	632.52	620.70	605.70	NP	0.00	13.49	11.04	619.03	No	
MWT-2S	05/24/21	630.07	632.52	620.70	605.70	NP	0.00	13.73	11.28	618.79	No	
MWT-2S	06/02/22	630.07	632.52	620.70	605.70	NP	0.00	5.34	2.89	627.18	Yes	
MWT-2S	08/03/22	630.07	632.52	620.70	605.70	NP	0.00	16.35	13.90	616.17	No	

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MWT-2S	05/23/23	630.07	632.52	620.70	605.70	NP	0.00	14.25	11.80	618.27	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	
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	630.05	577.85	572.85	NP	0.00	17.02	17.02	613.03	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-2D	10/03/17	630.05	632.47	577.85	572.85	NP	0.00	14.43	12.01	618.04	Yes	
MWT-2D	06/18/18	630.05	632.47	577.85	572.85	NP	0.00	16.22	13.80	616.25	Yes	
MWT-2D	06/27/18	630.05	632.47	577.85	572.85	NP	0.00	16.12	13.70	616.35	Yes	
MWT-2D	10/08/18	630.05	632.47	577.85	572.85	NP	0.00	17.06	14.64	615.41	Yes	
MWT-2D	06/03/19	630.05	632.47	577.85	572.85	NP	0.00	15.54	13.12	616.93	Yes	
MWT-2D	10/03/19	630.05	632.47	577.85	572.85	NP	0.00	16.57	14.15	615.90	Yes	
MWT-2D	05/26/20	630.05	632.47	577.85	572.85	NP	0.00	15.41	12.99	617.06	Yes	

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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	10/05/20	630.05	632.47	577.85	572.85	NP	0.00	17.19	14.77	615.28	Yes	
MWT-2D	05/24/21	630.05	632.47	577.85	572.85	NP	0.00	13.21	10.79	619.26	Yes	
MWT-2D	06/03/22	630.05	632.47	577.85	572.85	NP	0.00	16.06	13.64	616.41	Yes	
MWT-2D	11/02/22	630.05	632.47	577.85	572.85	NP	0.00	18.59	16.17	613.88	Yes	
MWT-2D	05/23/23	630.05	632.47	577.85	572.85	NP	0.00	16.34	13.92	616.13	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	
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	

Table 1
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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	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	
MWT-6	05/23/18	635.01	637.40	623.01	613.01	20.30	0.13	20.43	17.94	617.07	No	
MWT-6	05/02/19	635.01	637.40	623.01	613.01	20.10	0.14	20.24	17.74	617.27	No	
MWT-6	05/26/20	635.01	637.40	623.01	613.01	NP	0.00	17.23	14.84	620.17	No	
MWT-6	05/24/21	635.01	637.40	623.01	613.01	19.12	0.12	19.24	16.76	618.25	No	
MWT-6	06/02/22	635.01	637.40	623.01	613.01	19.29	0.15	19.44	16.93	618.08	No	
MWT-6	05/23/23	635.01	637.40	623.01	613.01	19.02	0.04	19.06	16.64	618.37	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	

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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-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	
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	

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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	
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	Frerret 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	

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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	
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	

Table 1
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	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	
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	

Table 1
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Former Amoco Terminal
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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-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	
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	18.05	2.88	20.93	15.97	618.80	No	
RW-01	10/26/17	634.77	637.50	618.80	593.80	14.70	7.65	22.35	13.70	621.07	Yes	
RW-01	05/15/18	634.77	637.50	618.80	593.80	20.26	3.47	23.73	18.31	616.46	No	
RW-01	05/23/18	634.77	637.50	618.80	593.80	20.50	2.10	22.60	18.24	616.53	No	
RW-01	05/02/19	634.77	637.50	618.80	593.80	19.67	3.74	23.41	17.78	616.99	No	
RW-01	07/25/19	634.77	637.50	618.80	593.80	18.61	4.76	23.37	16.96	617.81	No	
RW-01	05/26/20	634.77	637.50	618.80	593.80	16.97	6.57	23.54	15.72	619.05	Yes	

Table 1
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Former Amoco Terminal
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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-01	05/24/21	634.77	637.50	618.80	593.80	19.25	3.92	23.17	17.41	617.36	No	
RW-01	06/03/22	634.77	637.50	618.80	593.80	19.06	0.38	19.44	16.42	618.35	No	
RW-01	05/23/23	634.77	637.50	618.80	593.80	19.35	0.74	20.09	16.79	617.98	No	
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	

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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	
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	

Table 1
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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	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	
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	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
RW-02	11/09/11	635.60	635.38	613.68	588.68	NP	0.00	16.20	16.42	619.18	Yes	

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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	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	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	
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	

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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-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	
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	

Table 1
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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-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	
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	

Table 1
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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-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-03	05/26/20	634.20	636.75	612.50	587.50	NP	0.00	16.65	14.10	620.10	Yes	
RW-03	05/24/21	634.20	636.75	612.50	587.50	NP	0.00	18.56	16.01	618.19	Yes	
RW-03	06/03/22	634.20	636.75	612.50	587.50	NP	0.00	18.45	15.90	618.30	Yes	
RW-03	05/23/23	634.20	636.75	612.50	587.50	NP	0.00	18.23	15.68	618.52	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	
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

Table 1
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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-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	

Table 1
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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-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	
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	

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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
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	

Table 1
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	06/14/17	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-04	10/26/17	634.82	636.24	612.80	587.80	14.69	2.53	17.22	13.84	620.97	Yes	
RW-04	05/23/18	634.82	636.24	612.80	587.80	19.40	2.10	21.50	18.45	616.36	Yes	
RW-04	05/02/19	634.82	636.24	612.80	587.80	18.55	2.22	20.77	17.63	617.18	Yes	
RW-04	07/16/19	634.82	636.24	612.80	587.80	17.17	2.39	19.56	16.29	618.53	Yes	
RW-04	05/26/20	634.82	636.24	612.80	587.80	16.51	1.13	17.64	15.35	619.47	Yes	
RW-04	05/24/21	634.82	636.24	612.80	587.80	17.59	1.18	18.77	16.44	618.38	Yes	
RW-04	06/03/22	634.82	636.24	612.80	587.80	18.22	1.69	19.91	17.18	617.63	Yes	
RW-04	08/15/22	634.82	636.24	612.80	587.80	19.13	1.82	20.95	18.12	616.70	Yes	LNAPL sampled
RW-04	05/23/23	634.82	636.24	612.80	587.80	17.56	1.44	19.00	16.47	618.35	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	
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	

Table 1
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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
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	
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	

Table 1
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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-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	
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	

Table 1
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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-05	06/29/17	636.67	638.61	613.30	588.30	18.40	2.65	21.05	17.06	619.61	Yes	
RW-05	07/16/19	636.67	638.61	613.30	588.30	18.70	2.71	21.41	17.37	619.30	Yes	
RW-05	05/26/20	636.67	638.61	613.30	588.30	18.00	0.71	18.71	16.22	620.45	Yes	
RW-05	05/24/21	636.67	638.61	613.30	588.30	19.85	0.69	20.54	18.07	618.60	Yes	
RW-05	06/03/22	636.67	638.61	613.30	588.30	19.97	0.72	20.69	18.19	618.48	Yes	
RW-05	05/23/23	636.67	638.61	613.30	588.30	19.48	0.73	20.21	17.70	618.97	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	

Table 1
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Former Amoco Terminal
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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	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	
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	

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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	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
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	

Table 1
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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	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	
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	

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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
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-06	10/26/17	636.09	638.10	615.00	590.00	14.85	0.64	15.49	12.98	623.10	Yes	
RW-06	07/16/19	636.09	638.10	615.00	590.00	17.25	1.39	18.64	15.55	620.52	Yes	
RW-06	05/26/20	636.09	638.10	615.00	590.00	16.27	0.52	16.79	14.38	621.71	Yes	
RW-06	04/29/21	636.09	638.10	615.00	590.00	17.86	0.97	18.83	16.07	620.01	Yes	Bailed 1 gallon
RW-06	05/06/21	636.09	638.10	615.00	590.00	18.15	0.31	18.46	16.21	619.88	Yes	Bailed 0.25 gallons
RW-06	05/13/21	636.09	638.10	615.00	590.00	18.26	0.19	18.45	16.29	619.79	Yes	Bailed 0.1 gallon

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RW-06	05/19/21	636.09	638.10	615.00	590.00	18.35	0.18	18.53	16.38	619.71	Yes	Bailed 0.1 gallon
RW-06	05/24/21	636.09	638.10	615.00	590.00	18.14	0.20	18.34	16.18	619.91	Yes	
RW-06	05/28/21	636.09	638.10	615.00	590.00	18.20	0.18	18.38	16.23	619.86	Yes	Bailed 0.1 gallon
RW-06	06/08/21	636.09	638.10	615.00	590.00	18.21	0.15	18.36	16.23	619.85	Yes	Bailed 0.1 gallon
RW-06	08/24/21	636.09	638.10	615.00	590.00	18.14	0.20	18.34	16.18	619.91	Yes	Well appears to be bumped, metal ou
RW-06	08/31/21	636.09	638.10	615.00	590.00	19.59	0.11	19.70	17.60	618.48	Yes	
RW-06	08/31/21	well abandoned 8/31										
RW-06R	04/25/23	635.59	636.94	620.59	610.59	NP	0.00	16.08	14.73	620.86	Yes	
RW-06R	05/23/23	635.59	636.94	620.59	610.59	NP	0.00	15.40	14.05	621.54	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	

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Superior, Wisconsin

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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	
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	

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Former Amoco Terminal
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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	04/17/03	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	
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	Conducted 2011 annual well pump maintenace
EW-01	11/01/11	635.21	634.84	620.71	600.71	NP	0.00	14.89	15.25	619.95	No	
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	

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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 maintenace	
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		
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 maintenace	
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 Spill Buddy After 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		
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		

Table 1
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-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 maintenace
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	with only EW 4 & EW 5
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	
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-05	05/26/20	635.25	634.79	620.25	600.25	13.13	0.08	13.21	13.61	621.64	Yes	
EW-05	05/25/21	635.25	634.79	620.25	600.25	NP	0.00	11.10	11.56	623.69	Yes	
EW-05	06/03/22	635.25	634.79	620.25	600.25	NP	0.00	13.85	14.31	620.94	Yes	
EW-05	05/23/23	635.25	634.79	620.25	600.25	NP	0.00	14.88	15.34	619.91	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	
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	

Table 1
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	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	
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-06	05/26/20	636.90	639.00	621.90	601.90	18.29	0.27	18.56	16.25	620.65	No	
EW-06	05/24/21	636.90	639.00	621.90	601.90	20.29	0.07	20.36	18.21	618.69	No	
EW-06	06/03/22	636.90	639.00	621.90	601.90	20.80	0.51	21.31	18.82	618.08	No	
EW-06	05/23/23	636.90	639.00	621.90	601.90	20.02	0.43	20.45	18.02	618.88	No	
EW-07	07/25/11	635.40	637.20	620.40	600.40	NP	0.00	18.87	17.07	618.33	No	

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Former Amoco Terminal
Superior, Wisconsin

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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	

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EW-07	10/05/15	635.40	637.20	620.40	600.40	19.14	0.78	19.92	17.52	617.88	No	
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-07	05/26/20	635.40	637.20	620.40	600.40	NP	0.00	16.98	15.18	620.22	No	
EW-07	05/24/21	635.40	637.20	620.40	600.40	NP	0.00	19.02	17.22	618.18	No	
EW-07	06/03/22	635.40	637.20	620.40	600.40	18.70	0.46	19.16	17.00	618.40	No	
EW-07	05/23/23	635.40	637.20	620.40	600.40	18.41	0.30	18.71	16.68	618.72	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	

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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	
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-08	05/26/20	635.30	637.26	620.30	600.30	NP	0.00	16.31	14.35	620.95	Yes	
EW-08	05/24/21	635.30	637.26	620.30	600.30	NP	0.00	18.25	16.29	619.01	No	
EW-08	06/03/22	635.30	637.26	620.30	600.30	NP	0.00	18.48	16.52	618.78	No	
EW-08	05/23/23	635.30	637.26	620.30	600.30	NP	0.00	18.21	16.25	619.05	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	

Table 1
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	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	
EW-09	06/29/17	635.20	637.34	620.20	600.20	NP	0.00	17.46	15.32	619.88	No	
EW-09	05/26/20	635.20	637.34	620.20	600.20	NP	0.00	16.60	14.46	620.74	Yes	
EW-09	05/24/21	635.20	637.34	620.20	600.20	NP	0.00	18.61	16.47	618.73	No	
EW-09	08/31/21	635.20	637.34	620.20	600.20	NP	0.00	19.74	17.60	617.60	No	
EW-09	08/31/21	well abandoned 8/31										
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	
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	

Table 1
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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
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-10	05/26/20	635.90	637.83	620.90	600.90	NP	0.00	16.25	14.32	621.58	Yes	
EW-10	04/29/21	635.90	637.83	620.90	600.90	NP	0.00	18.30	16.37	619.53	No	
EW-10	05/24/21	635.90	637.83	620.90	600.90	NP	0.00	18.32	16.39	619.51	No	
EW-10	08/31/21	635.90	637.83	620.90	600.90	NP	0.00	19.56	17.63	618.27	No	
EW-10	08/31/21	well abandoned 8/31/21										
EW-10R	05/23/23	636.99	639.70	627.99	612.99	NP	0.00	20.17	17.46	619.53	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	

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Former Amoco Terminal
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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
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	
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	Before EFR
EW-11	11/10/11	637.20	639.14	622.20	602.20	21.71	0.11	21.82	19.79	617.41	No	After 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	EFR Check
EW-11	11/18/11	637.20	639.14	622.20	602.20	20.23	3.07	23.30	18.98	618.22	No	
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	

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Superior, Wisconsin

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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	
EW-11	10/26/17	637.20	639.14	622.20	602.20	14.43	8.41	22.84	14.39	622.81	Yes	
EW-11	07/25/19	637.20	639.14	622.20	602.20	18.34	4.61	22.95	17.44	619.76	No	
EW-11	05/26/20	637.20	639.14	622.20	602.20	15.54	9.99	25.53	15.86	621.34	No	
EW-11	04/29/21	637.20	639.14	622.20	602.20	18.70	4.40	23.10	17.75	619.45	No	
EW-11	05/06/21	637.20	639.14	622.20	602.20	18.73	4.32	23.05	17.77	619.43	No	Bailed 8 gallons
EW-11	05/13/21	637.20	639.14	622.20	602.20	18.96	3.55	22.51	17.82	619.38	No	Bailed 6 gallons
EW-11	05/19/21	637.20	639.14	622.20	602.20	18.91	3.97	22.88	17.87	619.33	No	Bailed 5.75 gallons
EW-11	05/28/21	637.20	639.14	622.20	602.20	18.84	3.35	22.19	17.66	619.54	No	Bailed 5.5 gallons
EW-11	06/08/21	637.20	639.14	622.20	602.20	18.60	4.87	23.47	17.76	619.44	No	Bailed 7 gallons
EW-11	06/03/22	637.20	639.14	622.20	602.20	19.36	3.12	22.48	18.12	619.08	No	
EW-11	05/23/23	637.20	639.14	622.20	602.20	18.40	4.03	22.43	17.37	619.83	No	
Tank 1	01/22/02	----	----	----	----	NP	0.00	4.84	----	----	----	
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	----	----	----	

Table 1
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 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	----	----	----	

Table 1
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 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	634.30	636.30	620.30	605.30	19.33	1.27	20.60	17.62		No	
VE-1	10/22/12	634.30	636.30	620.30	605.30							
VE-1	12/20/12	634.30	636.30	620.30	605.30	20.25	1.51	21.76	18.59		No	
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	634.20	636.20	621.20	606.20	19.48	2.27	21.75	17.99		No	
VE-2	10/22/12	634.20	636.20	621.20	606.20	14.60	1.00	15.60	12.83		No	
VE-2	12/20/12	634.20	636.20	621.20	606.20	20.50	1.30	21.80	18.79		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	635.00	637.10	623.00	608.00	20.08	0.19	20.27	18.02		No	
VE-3	10/22/12	635.00	637.10	623.00	608.00							
VE-3	12/20/12	635.00	637.10	623.00	608.00	20.60	2.67	23.27	19.10		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	634.00	636.10	622.00	607.00	19.21	1.20	20.41	17.38		No	
VE-4	10/22/12	634.00	636.10	622.00	607.00	19.86	0.83	20.69	17.95		No	
VE-4	12/20/12	634.00	636.10	622.00	607.00	19.75	3.89	23.64	18.53		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:

FP = Free Product
GW = Groundwater
NM = Not Measured
NP = No Product
DTW = Depth to Water

Table 1
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
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BOS = Bottom of Screen

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 2A
Horizontal Groundwater Gradient
Former Amoco Terminal
Superior, WI

Date	MW-04S	MW-33	GW Elev. Change	Horizontal Distance	Horizontal Gradient MW-04S to MW-33
8/6/1991	621.63	619.96	1.67	1786	0.00094
10/8/1991	622.16	619.52	2.64	1786	0.00148
1/7/1992	621.98	618.45	3.53	1786	0.00198
10/14/1992	621.42	617.25	4.17	1786	0.00233
6/25/1993	624.05	623.04	1.01	1786	0.00057
10/28/1993	621.09	616.96	4.13	1786	0.00231
1/29/1994	619.89	615.88	4.01	1786	0.00225
4/27/1994	621.15	617.55	3.60	1786	0.00202
7/21/1994	621.68	617.77	3.91	1786	0.00219
10/25/1994	621.41	616.83	4.58	1786	0.00256
10/28/1994	621.84	617.12	4.72	1786	0.00264
4/4/1995	618.73	615.12	3.61	1786	0.00202
7/12/1995	620.19	616.29	3.90	1786	0.00218
11/13/1995	621.98	617.98	4.00	1786	0.00224
3/13/1996	618.34	615.14	3.20	1786	0.00179
4/22/1996	621.80	618.37	3.43	1786	0.00192
10/8/1996	622.31	618.45	3.86	1786	0.00216
4/29/1997	624.18	620.39	3.79	1786	0.00212
11/3/1998	619.08	614.65	4.43	1786	0.00248
3/3/1999	618.79	614.74	4.05	1786	0.00227
04/19/04	617.18	613.85	3.33	1786	0.00186
11/16/04	619.59	616.41	3.18	1786	0.00178
04/18/05	619.01	616.37	2.64	1786	0.00148
10/11/05	619.55	616.60	2.95	1786	0.00165
05/23/06	620.58	618.31	2.27	1786	0.00127
10/16/06	619.01	615.06	3.95	1786	0.00221
04/23/07	617.9	614.61	3.29	1786	0.00184
09/25/07	617.6	614.34	3.26	1786	0.00183
05/01/08	619.60	617.90	1.70	1786	0.00095
10/20/08	621.00	618.03	2.97	1786	0.00166
04/18/09	619.25	NM			
10/11/09	618.31	NM			
4/28/2010	618.48	NM			
10/25/2010	620.55	NM			
04/25/11	619.32	NM			
10/10/11	619.35	616.99	2.36	1786	0.00132
4/16/2012	617.89	614.62	3.27	1786	0.00183
6/26/2012	621.15	620.13	1.02	1786	0.00057
9/30/2012	618.12	615.71	2.41	1786	0.00135
12/17/2012	617.22	614.65	2.57	1786	0.00144
03/25/13	616.71	613.75	2.96	1786	0.00166
05/05/13	617.48	614.66	2.82	1786	0.00158
				AVERAGE	0.00180

Table 2A
Horizontal Groundwater Gradient
Former Amoco Terminal
Superior, WI

Date	MW-04S	MW-34	GW Elev. Change	Horizontal Distance	Horizontal Gradient MW-04S to MW-34
04/19/04	617.18	613.73	3.45	1918	0.00180
11/16/04	619.59	615.98	3.61	1918	0.00188
04/18/05	619.01	615.72	3.29	1918	0.00172
10/11/05	619.55	615.94	3.61	1918	0.00188
05/23/06	620.58	616.57	4.01	1918	0.00209
10/16/06	619.01	614.46	4.55	1918	0.00237
04/23/07	617.9	613.95	3.95	1918	0.00206
09/25/07	617.6	614.03	3.57	1918	0.00186
05/01/08	619.60	616.41	3.19	1918	0.00166
10/20/08	621.00	616.69	4.31	1918	0.00225
04/18/09	619.25	615.67	3.58	1918	0.00187
10/11/09	618.31	614.57	3.74	1918	0.00195
4/28/2010	618.48	614.62	3.86	1918	0.00201
10/25/2010	620.55	616.01	4.54	1918	0.00237
04/25/11	619.32	615.67	3.65	1918	0.00190
10/10/11	619.35	615.46	3.89	1918	0.00203
4/16/2012	617.89	613.67	4.22	1918	0.00220
6/26/2012	621.15	617.16	3.99	1918	0.00208
9/30/2012	618.12	614.63	3.49	1918	0.00182
12/17/2012	617.22	613.83	3.39	1918	0.00177
03/25/13	616.71	613.81	2.90	1918	0.00151
05/05/13	617.48	614.55	2.93	1918	0.00153
				AVERAGE	0.00194

Table 2A
Horizontal Groundwater Gradient
Former Amoco Terminal
Superior, WI

Date	MW-04S	MWOW-1	GW Elev. Change	Horizontal Distance	Horizontal Gradient MW-04S to MWOW-1
04/19/04	617.18	605.86	11.32	3526	0.00321
11/16/04	619.59	605.57	14.02	3526	0.00398
04/18/05	619.01	605.77	13.24	3526	0.00376
10/11/05	619.55	605.82	13.73	3526	0.00389
05/23/06	620.58	605.48	15.10	3526	0.00428
10/16/06	619.01	605.10	13.91	3526	0.00395
04/23/07	617.9	606.06	11.84	3526	0.00336
09/25/07	617.6	605.74	11.86	3526	0.00336
05/01/08	619.60	605.63	13.97	3526	0.00396
10/20/08	621.00	604.97	16.03	3526	0.00455
04/18/09	619.25	605.505	13.75	3526	0.00390
10/11/09	618.31	604.3425	13.97	3526	0.00396
4/28/2010	618.48	605.005	13.48	3526	0.00382
10/25/2010	620.55	605.505	15.05	3526	0.00427
04/25/11	619.32	605.3325	13.99	3526	0.00397
10/10/11	619.35	603.965	15.39	3526	0.00436
4/16/2012	617.89	605.335	12.55	3526	0.00356
6/26/2012	621.15	603.2725	17.88	3526	0.00507
9/30/2012	618.12	602.81	15.31	3526	0.00434
12/17/2012	617.22	603.85	13.37	3526	0.00379
03/25/13	616.71	603.51	13.20	3526	0.00374
05/05/13	617.48	605.28	12.20	3526	0.00346
				AVERAGE	0.00393

Table 2A
Horizontal Groundwater Gradient
Former Amoco Terminal
Superior, WI

Date	MW-33	MW-41S	GW Elev. Change	Horizontal Distance	Horizontal Gradient MW-33 to MW-41S
10/10/11	616.99	603.79	13.20	1200	0.01100
4/16/2012	614.62	604.97	9.65	1200	0.00804
6/26/2012	620.13	605.2	14.93	1200	0.01244
9/30/2012	615.71	603.14	12.57	1200	0.01048
12/17/2012	614.65	603.23	11.42	1200	0.00952
03/25/13	613.75	603.14	10.61	1200	0.00884
05/05/13	614.66	604.66	10.00	1200	0.00833
5/20/2014	618.98	605.74	13.24	1200	0.01103
10/31/2014	617.45	604.99	12.46	1200	0.01038
5/4/2015	615.58	604.69	10.89	1200	0.00908
10/5/2015	616.09	605.17	10.92	1200	0.00910
5/23/2016	620.36	604.93	15.43	1200	0.01286
10/3/2016	617.78	605.01	12.77	1200	0.01064
6/29/2017	619.17	605.42	13.75	1200	0.01146
5/26/2020	619.93	605.03	14.90	1200	0.01242
5/24/2021	618.02	605.13	12.89	1200	0.01074
6/2/2022	619.34	605.36	13.98	1200	0.01165
8/3/2022	616.84	604.17	12.67	1200	0.01056
5/23/2023	617.89	605.05	12.84	1200	0.01070
				AVERAGE	0.01049

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-4S	MW-4D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
04/19/04	617.18	616.10	1.08	32.09	0.03366	downward
11/16/04	619.59	617.97	1.62	33.30	0.04866	downward
04/18/05	619.01	617.44	1.57	33.01	0.04757	downward
10/11/05	619.55	618.10	1.45	33.28	0.04358	downward
05/23/06	620.58	619.00	1.58	33.79	0.04676	downward
10/16/06	619.01	617.56	1.45	33.01	0.04393	downward
04/23/07	617.90	617.79	0.11	32.45	0.00339	downward
09/25/07	617.60	616.83	0.77	32.30	0.02384	downward
05/01/08	619.60	618.56	1.04	33.30	0.03123	downward
10/20/08	621.00	619.98	1.02	34.00	0.03000	downward
04/18/09	619.25	618.39	0.86	33.13	0.02596	downward
10/11/09	618.31	617.79	0.52	32.66	0.01592	downward
04/28/10	618.48	617.67	0.81	32.74	0.02474	downward
10/25/10	620.55	619.75	0.80	33.78	0.02369	downward
01/04/12	618.19	617.62	0.57	32.60	0.01749	downward
04/16/12	617.89	617.34	0.55	32.44	0.01695	downward
06/26/12	621.15	620.05	1.10	34.08	0.03228	downward
09/30/12	618.12	617.63	0.49	32.56	0.01505	downward
12/17/12	617.22	617.61	-0.39	32.11	-0.01215	upward
03/25/13	616.71	616.70	0.01	31.86	0.00031	downward
05/05/13	617.48	616.95	0.53	32.24	0.01644	downward
Date	MW-15S	MW-15D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
04/19/04	612.42	612.42	0.00	32.45	0.00000	
11/16/04	614.11	614.09	0.02	33.30	0.00060	downward
04/18/05	613.74	613.72	0.02	33.11	0.00060	downward
10/11/05	614.50	614.46	0.04	33.49	0.00119	downward
05/23/06	615.01	614.98	0.03	33.75	0.00089	downward
10/16/06	614.07	613.98	0.09	33.28	0.00270	downward
04/23/07	613.41	613.32	0.09	32.95	0.00273	downward
09/25/07	613.56	613.60	-0.04	33.02	-0.00121	upward
05/01/08	614.93	614.91	0.02	33.71	0.00059	downward
10/20/08	616.11	616.06	0.05	34.30	0.00146	downward
04/18/09	615.12	615.03	0.09	33.80	0.00266	downward
10/11/09	614.66	614.58	0.08	33.57	0.00238	downward
04/28/10	614.21	614.18	0.03	33.35	0.00090	downward
10/25/10	615.94	615.82	0.12	34.21	0.00351	downward
04/25/11	615.09	615.04	0.05	33.79	0.00148	downward
10/10/11	615.67	615.53	0.14	34.08	0.00411	downward
01/04/12	614.43	614.35	0.08	33.46	0.00239	downward
04/16/12	613.74	613.81	-0.07	33.11	-0.00211	upward
06/26/12	616.06	616.07	-0.01	34.27	-0.00029	upward
09/30/12	614.65	614.53	0.12	33.57	0.00358	downward
12/17/12	613.96	613.91	0.05	33.22	0.00151	downward
03/25/13	613.04	612.97	0.07	32.76	0.00214	downward
05/05/13	613.68	613.67	0.01	33.08	0.00030	downward
10/03/13	614.21	614.17	0.04	33.35	0.00120	downward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-30S	MW-30D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
04/19/04	613.82	612.91	0.91	32.72	0.02781	downward
11/16/04	616.55	614.82	1.73	34.09	0.05076	downward
04/18/05	616.55	614.84	1.71	34.09	0.05017	downward
10/11/05	616.82	614.20	2.62	34.22	0.07656	downward
05/23/06	618.00	615.78	2.22	34.81	0.06377	downward
10/16/06	615.32	614.02	1.30	33.47	0.03884	downward
04/23/07	614.60	613.53	1.07	33.11	0.03232	downward
09/25/07	614.53	613.46	1.07	33.08	0.03235	downward
05/01/08	617.48	615.52	1.96	34.55	0.05673	downward
10/20/08	618.21	616.46	1.75	34.92	0.05012	downward
04/18/09	617.18	615.31	1.87	34.40	0.05436	downward
10/11/09	NM	NM				
08/31/11	618.29	616.57	1.72	34.96	0.04921	downward
10/10/11	616.86	615.23	1.63	34.24	0.04761	downward
01/04/12	615.27	613.93	1.34	33.45	0.04007	downward
04/16/12	614.61	613.65	0.96	33.12	0.02899	downward
06/26/12	619.37	616.93	2.44	35.50	0.06874	downward
09/30/12	615.62	614.16	1.46	33.62	0.04343	downward
12/17/12	614.77	613.55	1.46	33.20	0.04343	downward
03/25/13	614.68	612.62	2.06	33.15	0.06214	downward
05/05/13	613.91	613.63	0.28	32.77	0.00855	downward
10/03/13	615.11	613.98	1.13	33.37	0.03387	downward
05/21/14	618.26	616.39	1.87	34.94	0.05352	downward
10/30/14	617.30	615.89	1.41	34.46	0.04092	downward
05/05/15	615.56	614.22	1.34	33.59	0.03989	downward
10/07/15	617.27	615.64	1.63	34.45	0.04732	downward
05/23/16	619.96	617.62	2.34	35.79	0.06538	downward
10/03/16	617.96	617.47	0.49	34.79	0.01408	downward
06/18/18	618.85	616.70	2.15	35.24	0.06102	downward
10/08/18	617.38	615.87	1.51	34.50	0.04377	downward
06/03/19	619.60	617.38	2.22	35.61	0.06234	downward
10/03/19	617.90	616.38	1.52	34.76	0.04373	downward
05/26/20	619.61	617.62	1.99	35.62	0.05588	downward
10/05/20	615.50	615.75	-0.25	33.56	-0.00745	upward
05/24/21	618.10	616.23	1.87	34.86	0.05364	downward
06/03/22	618.85	616.87	1.98	35.24	0.05619	downward
11/02/22	615.58	614.41	1.17	33.60	0.03482	downward
05/23/23	618.01	614.41	3.60	34.82	0.10340	downward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-30D	MW-30DD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
04/19/04	612.91	612.97	-0.06	29.66	-0.00202	upward
11/16/04	614.82	614.69	0.13	29.66	0.00438	downward
04/18/05	614.84	614.13	0.71	29.66	0.02394	downward
10/11/05	614.20	614.90	-0.70	29.66	-0.02360	upward
05/23/06	615.78	615.52	0.26	29.66	0.00877	downward
10/16/06	614.02	613.93	0.09	29.66	0.00303	downward
04/23/07	613.53	613.38	0.15	29.66	0.00506	downward
09/25/07	613.46	613.27	0.19	29.66	0.00641	downward
05/01/08	615.52	615.12	0.40	29.66	0.01349	downward
10/20/08	616.46	616.34	0.12	29.66	0.00405	downward
04/18/09	615.31	615.00	0.31	29.66	0.01045	downward
10/11/09	NM	NM		29.66		
08/31/11	616.57	616.59	-0.02	29.66	-0.00067	upward
10/10/11	615.23	615.20	0.03	29.66	0.00101	downward
01/04/12	613.93	613.71	0.22	29.66	0.00742	downward
04/16/12	613.65	613.48	0.17	29.66	0.00573	downward
06/26/12	616.93	616.54	0.39	29.66	0.01315	downward
09/30/12	614.16	613.92	0.24	29.66	0.00809	downward
12/17/12	613.55	613.34	0.21	29.66	0.00708	downward
03/25/13	612.62	612.56	0.06	29.66	0.00202	downward
05/25/13	613.63	613.47	0.16	29.66	0.00539	downward
10/03/13	613.98	613.17	0.81	29.66	0.02731	downward
05/21/14	616.39	616.04	0.35	29.66	0.01180	downward
10/30/14	615.89	615.52	0.37	29.66	0.01247	downward
05/05/15	614.22	614.02	0.20	29.66	0.00674	downward
10/07/15	615.64	615.79	-0.15	29.66	-0.00506	upward
05/23/16	617.62	617.34	0.28	29.66	0.00944	downward
10/03/16	617.47	616.22	1.25	29.66	0.04214	downward
06/18/18	616.70	616.35	0.35	29.66	0.01180	downward
10/08/18	615.87	615.62	0.25	29.66	0.00843	downward
06/03/19	617.38	617.06	0.32	29.66	0.01079	downward
05/24/21	616.23	615.90	0.33	29.66	0.01113	downward
06/02/22	616.87	616.53	0.34	29.66	0.01146	downward
10/05/22	614.91	614.69	0.22	29.66	0.00742	downward
05/23/23	616.62	616.36	0.26	29.66	0.00877	downward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-30DD	MW-30DDD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
06/18/18	610.95	616.35	-5.40	14.53	-0.37164	upward
10/08/18	610.50	615.62	-5.12	14.53	-0.35237	upward
06/03/19	617.06	617.16	-0.10	14.53	-0.00688	upward
10/02/19	616.10	616.02	0.08	14.53	0.00551	downward
05/26/20	617.33	617.37	-0.04	14.53	-0.00275	upward
05/24/21	615.90	615.74	0.16	14.53	0.01101	downward
06/03/22	616.53	616.45	0.08	14.53	0.00551	downward
10/05/22	614.69	614.65	0.04	14.53	0.00275	downward
05/23/23	616.36	615.84	0.52	14.53	0.03579	downward
Date	MWT-2S	MWT-2D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
04/19/04	613.61	612.53	1.08	34.30	0.03148	downward
11/16/04	616.05	614.33	1.72	35.53	0.04842	downward
04/18/05	616.00	614.01	1.99	35.50	0.05606	downward
10/11/05	616.49	614.68	1.81	35.75	0.05064	downward
05/23/06	617.58	615.29	2.29	36.29	0.06310	downward
10/16/06	614.72	613.51	1.21	34.86	0.03471	downward
04/23/07	614.19	613.10	1.09	34.60	0.03151	downward
09/25/07	614.10	NM				
05/01/08	616.72	614.87	1.85	35.86	0.05159	downward
10/20/08	617.74	615.88	1.86	36.37	0.05114	downward
04/18/09	NM	NM				
10/11/09	NM	NM				
08/31/11	617.75	616.00	1.75	36.38	0.04811	downward
10/10/11	616.29	614.78	1.51	35.65	0.04236	downward
01/04/12	614.77	613.48	1.29	34.89	0.03698	downward
04/16/12	614.23	613.24	0.99	34.62	0.02860	downward
06/26/12	619.05	616.45	2.60	37.03	0.07022	downward
09/30/12	615.13	613.71	1.42	35.06	0.04050	downward
12/17/12	614.23	613.10	1.13	34.62	0.03264	downward
03/25/13	613.31	612.20	1.11	34.16	0.03250	downward
05/20/14	618.22	615.94	2.28	36.61	0.06228	downward
10/31/14	616.63	615.39	1.24	35.81	0.03462	downward
05/06/15	615.31	613.84	1.47	35.16	0.04181	downward
10/05/15	616.88	613.03	3.85	35.94	0.10712	downward
05/23/16	619.43	617.09	2.34	37.22	0.06288	downward
10/03/16	617.22	615.95	1.27	36.11	0.03517	downward
10/08/18	616.44	615.41	1.03	35.72	0.02884	downward
06/03/19	619.41	616.93	2.48	37.21	0.06666	downward
10/02/19	617.00	615.90	1.10	36.00	0.03056	downward
05/26/20	619.03	617.06	1.97	37.02	0.05322	downward
05/24/21	618.79	619.26	-0.47	36.90	-0.01274	upward
06/02/22	627.18	616.41	10.77	41.09	0.26211	downward
05/23/23	618.27	616.13	2.14	36.64	0.05841	downward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MWM-7	MWM-7D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
10/11/09	613.74	611.44	2.30	39.69	0.05795	downward
08/31/11	613.47	612.02	1.45	39.55	0.03666	downward
10/10/11	612.13	611.83	0.30	38.89	0.00772	downward
01/04/12	611.03	610.7	0.33	38.33	0.00861	downward
04/16/12	611.55	610.9	0.65	38.60	0.01684	downward
06/26/12	614.57	613.48	1.09	40.11	0.02718	downward
09/30/12	611.32	610.94	0.38	38.48	0.00988	downward
12/17/12	610.83	610.49	0.34	38.24	0.00889	downward
03/25/13	609.99	609.72	0.27	37.81	0.00714	downward
05/05/13	611.91	611.05	0.86	38.78	0.02218	downward
10/03/13	611.41	611.09	0.32	38.53	0.00831	downward
05/21/14	614.41	613.22	1.19	40.03	0.02973	downward
10/29/14	613.13	612.65	0.48	39.39	0.01219	downward
05/06/15	612.08	611.54	0.54	38.86	0.01390	downward
10/06/15	613.25	612.73	0.52	39.45	0.01318	downward
05/23/16	614.55	613.76	0.79	40.10	0.01970	downward
10/03/16	613.37	612.95	0.42	39.51	0.01063	downward
07/15/19	613.98	613.24	0.74	39.81	0.01859	downward
05/26/20	614.41	613.63	0.78	40.03	0.01949	downward
05/24/21	613.67	612.68	0.99	39.66	0.02497	downward
06/02/22	614.44	613.26	1.18	40.04	0.02947	downward
05/23/23	614.05	613.08	0.97	39.85	0.02434	downward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MWM-9RS	MWM-9RD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
10/11/09	612.63	612.52	0.11	36.38	0.00302	downward
04/28/10	612.56	612.39	0.17	36.34	0.00468	downward
10/25/10	614.14	613.74	0.40	37.14	0.01077	downward
04/25/11	613.62	613.21	0.41	36.88	0.01112	downward
10/11/11	613.4	613.04	0.36	36.77	0.00979	downward
01/04/12	612.12	611.93	0.19	36.13	0.00526	downward
04/16/12	612.22	611.9	0.32	36.18	0.00885	downward
06/26/12	615.15	614.7	0.45	37.64	0.01196	downward
09/30/12	612.39	612.19	0.20	36.26	0.00552	downward
12/17/12	611.86	611.61	0.25	36.00	0.00695	downward
03/25/13	611.01	610.83	0.18	35.57	0.00506	downward
05/05/13	612.37	612.04	0.33	36.25	0.00910	downward
10/03/13	612.44	612.14	0.30	36.29	0.00827	downward
05/20/14	614.79	614.35	0.44	37.46	0.01175	downward
10/29/14	614.14	613.84	0.30	37.14	0.00808	downward
05/06/15	612.83	612.57	0.26	36.48	0.00713	downward
10/05/15	614.27	613.90	0.37	37.20	0.00995	downward
05/23/16	615.53	615.28	0.25	37.83	0.00661	downward
10/03/16	614.55	614.32	0.23	37.34	0.00616	downward
06/03/19	615.49	615.15	0.34	37.81	0.00899	downward
05/26/20	615.48	615.16	0.32	37.80	0.00846	downward
05/24/21	614.39	614.04	0.35	37.26	0.00939	downward
06/01/22	615.09	614.60	0.49	37.61	0.01303	downward
09/19/22	613.20	613.02	0.18	36.67	0.00491	downward
05/23/23	614.80	614.48	0.32	37.47	0.00854	downward
Date	MWM-10S	MWM-10D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
10/11/09	616.58	609.85	6.73	41.22	0.16329	downward
04/28/10	616.81	609.75	7.06	41.33	0.17082	downward
10/25/2010	617.34	610.90	6.44	41.60	0.15490	downward
04/25/11	617.24	610.50	6.74	41.55	0.16231	downward
10/11/11	615.99	610.25	5.74	40.92	0.14035	downward
01/04/12	614.76	609.19	5.57	40.30	0.13827	downward
04/16/12	617.00	609.60	7.40	41.43	0.17871	downward
06/26/12	616.98	611.89	5.09	41.42	0.12297	downward
09/30/12	613.75	609.41	4.34	39.80	0.10912	downward
12/17/12	615.50	609.05	6.45	40.68	0.15865	downward
03/25/13	613.52	608.36	5.16	39.69	0.13002	downward
05/05/13	617.08	609.80	7.28	41.47	0.17557	downward
10/01/13	615.63	609.61	6.02	40.74	0.14777	downward
05/20/14	617.36	611.78	5.58	41.61	0.13419	downward
10/29/14	616.32	611.16	5.16	41.09	0.12567	downward
05/06/15	616.51	610.18	6.33	41.18	0.15379	downward
10/05/15	616.46	611.32	5.14	41.16	0.12497	downward
05/23/16	616.48	612.08	4.40	41.17	0.10696	downward
10/03/16	615.95	611.44	4.51	40.90	0.11034	downward
05/26/20	616.16	612.15	4.01	41.01	0.09787	downward
05/24/21	616.82	611.38	5.44	41.33	0.13168	downward
06/02/22	611.72	611.97	-0.25	38.79	-0.00637	upward
05/23/23	616.41	611.79	4.62	41.13	0.11240	downward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-36S	MW-36D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
07/26/11	611.61	611.22	0.39	37.45	0.01041	downward
10/11/11	610.58	610.04	0.54	36.94	0.01462	downward
01/04/12	609.73	609.18	0.55	36.52	0.01506	downward
04/16/12	610.99	609.42	1.57	37.15	0.04227	downward
06/26/12	611.98	611.49	0.49	37.64	0.01302	downward
09/30/12	609.74	609.38	0.36	36.52	0.00986	downward
12/17/12	609.70	609.05	0.65	36.50	0.01781	downward
03/25/13	608.93	608.35	0.58	36.12	0.01606	downward
05/05/13	610.64	609.53	1.11	36.97	0.03002	downward
10/03/13	609.91	609.55	0.36	36.61	0.00983	downward
05/20/14	612.24	611.53	0.71	37.77	0.01880	downward
10/31/14	611.24	611.05	0.19	37.27	0.00510	downward
05/04/15	610.80	610.08	0.72	37.05	0.01943	downward
10/05/15	611.63	611.11	0.52	37.46	0.01388	downward
05/23/16	612.01	611.87	0.14	37.66	0.00372	downward
10/03/16	611.54	611.38	0.16	37.42	0.00428	downward
10/08/18	611.71	611.23	0.48	37.51	0.01280	downward
06/03/19	612.13	612.14	-0.01	37.71	-0.00027	upward
05/26/20	612.01	612.00	0.01	37.66	0.00027	downward
05/24/21	612.08	611.25	0.83	37.69	0.02202	downward
06/02/22	612.41	611.96	0.45	37.86	0.01189	downward
05/23/23	611.68	611.51	0.17	37.49	0.00453	downward
Date	MW-36D	MW-36DD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
10/11/11	610.04	610.29	-0.25	26.70	-0.00936	upward
01/04/12	609.18	609.23	-0.05	26.70	-0.00187	upward
04/16/12	609.42	609.4	0.02	26.70	0.00075	downward
06/26/12	611.49	611.57	-0.08	26.70	-0.00300	upward
09/30/12	609.38	609.47	-0.09	26.70	-0.00337	upward
12/17/12	609.05	609.08	-0.03	26.70	-0.00112	upward
03/25/13	608.35	608.41	-0.06	26.70	-0.00225	upward
05/05/13	609.53	609.54	-0.01	26.70	-0.00037	upward
10/01/13	609.55	609.80	-0.25	26.70	-0.00936	upward
05/21/14	611.53	611.47	0.06	26.70	0.00225	downward
10/30/14	611.05	611.16	-0.11	26.70	-0.00412	upward
05/05/15	610.08	610.09	-0.01	26.70	-0.00037	upward
10/07/15	611.11	611.24	-0.13	26.70	-0.00487	upward
05/23/16	611.87	611.97	-0.10	26.70	-0.00375	upward
10/03/16	611.38	611.48	-0.10	26.70	-0.00375	upward
06/18/18	611.72	611.73	-0.01	26.70	-0.00037	upward
10/08/18	611.23	611.26	-0.03	26.70	-0.00112	upward
06/03/19	612.14	612.24	-0.10	26.70	-0.00375	upward
10/02/19	611.61	611.69	-0.08	26.70	-0.00300	upward
05/26/20	612.00	612.14	-0.14	26.70	-0.00524	upward
05/24/21	611.25	611.28	-0.03	26.70	-0.00112	upward
06/03/22	611.96	611.40	0.56	26.70	0.02097	downward
05/23/23	611.51	611.67	-0.16	26.70	-0.00599	upward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-37S	MW-37D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
07/26/11	610.8	610.26	0.54	37.80	0.01429	downward
10/11/11	609.86	609.27	0.59	37.33	0.01580	downward
01/04/12	609.1	608.26	0.84	36.95	0.02273	downward
04/16/12	611.3	608.64	2.66	38.05	0.06991	downward
06/26/12	611.23	610.58	0.65	38.02	0.01710	downward
09/30/12	608.85	608.54	0.31	36.83	0.00842	downward
12/17/12	609.23	608.19	1.04	37.02	0.02810	downward
03/25/13	608.43	607.52	0.91	36.62	0.02485	downward
05/05/13	610.48	608.77	1.71	37.64	0.04543	downward
10/01/13	609.22	608.77	0.45	37.01	0.01216	downward
05/21/14	611.86	610.60	1.26	38.33	0.03287	downward
10/30/14	610.53	610.17	0.36	37.67	0.00956	downward
05/05/15	610.42	609.30	1.12	37.61	0.02978	downward
10/07/15	610.99	610.23	0.76	37.90	0.02006	downward
05/23/16	610.98	610.91	0.07	37.89	0.00185	downward
10/03/16	610.77	610.46	0.31	37.79	0.00820	downward
10/08/18	611.21	610.40	0.81	38.01	0.02131	downward
07/15/19	610.78	610.87	-0.09	37.79	-0.00238	upward
05/26/20	611.08	611.02	0.06	37.94	0.00158	downward
05/28/21	611.60	610.38	1.22	38.20	0.03194	downward
06/02/22	610.03	610.76	-0.73	37.42	-0.01951	upward
05/23/23	610.98	610.69	0.29	37.89	0.00765	downward
Date	MW-37D	MW-37DD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
10/11/11	609.27	609.42	-0.15	26.70	-0.00562	upward
01/04/12	608.26	608.37	-0.11	26.70	-0.00412	upward
04/16/12	608.64	608.66	-0.02	26.70	-0.00075	upward
06/26/12	610.58	610.7	-0.12	26.70	-0.00449	upward
09/30/12	608.54	608.62	-0.08	26.70	-0.00300	upward
12/17/12	608.19	608.3	-0.11	26.70	-0.00412	upward
03/25/13	607.52	607.64	-0.12	26.70	-0.00449	upward
05/05/13	608.77	608.81	-0.04	26.70	-0.00150	upward
10/01/13	608.77	609.03	-0.26	26.70	-0.00974	upward
05/21/14	610.60	610.68	-0.08	26.70	-0.00300	upward
10/29/14	610.17	610.33	-0.16	26.70	-0.00599	upward
05/05/15	609.30	609.36	-0.06	26.70	-0.00225	upward
10/06/15	610.23	610.45	-0.22	26.70	-0.00824	upward
05/23/16	610.91	611.06	-0.15	26.70	-0.00562	upward
10/03/16	610.46	610.62	-0.16	26.70	-0.00599	upward
06/29/17	611.00	611.02	-0.02	26.70	-0.00075	upward
10/12/17	611.90	612.10	-0.20	26.70	-0.00749	upward
06/18/18	610.88	610.95	-0.07	26.70	-0.00262	upward
06/27/18	610.70	610.86	-0.16	26.70	-0.00599	upward
10/08/18	610.40	610.50	-0.10	26.70	-0.00375	upward
06/03/19	611.24	611.42	-0.18	26.70	-0.00674	upward
07/15/19	610.87	611.06	-0.19	26.70	-0.00712	upward
10/03/19	610.79	610.89	-0.10	26.70	-0.00375	upward
05/26/20	611.02	611.22	-0.20	26.70	-0.00749	upward
10/05/20	610.13	609.57	0.56	26.70	0.02097	downward
05/24/21	610.38	610.48	-0.10	26.70	-0.00375	upward
06/02/22	610.76	610.91	-0.15	26.70	-0.00562	upward
11/02/22	609.24	609.37	-0.13	26.70	-0.00487	upward
05/23/23	610.69	610.86	-0.17	26.70	-0.00637	upward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-37DD	MW-37DDD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
06/18/18	610.95	610.81	0.14	6.50	0.02154	downward
06/27/18	610.86	610.73	0.13	6.50	0.02000	downward
10/08/18	610.50	610.36	0.14	6.50	0.02154	downward
06/03/19	611.42	611.45	-0.03	6.50	-0.00462	upward
10/01/19	610.89	610.71	0.18	6.50	0.02769	downward
05/26/20	611.22	611.18	0.04	6.50	0.00615	downward
05/24/21	610.48	610.29	0.19	6.50	0.02923	downward
06/03/22	610.91	612.52	-1.61	6.50	-0.24769	upward
05/23/23	610.86	611.87	-1.01	6.50	-0.15538	upward
Date	MW-38S	MW-38D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
07/26/11	608.01	609.15	-1.14	38.55	-0.02957	upward
10/11/11	606.87	608.24	-1.37	37.99	-0.03607	upward
01/04/12	606.02	607.14	-1.12	37.56	-0.02982	upward
04/16/12	608.58	607.71	0.87	38.84	0.02240	downward
06/26/12	608.57	609.59	-1.02	38.84	-0.02626	upward
09/30/12	605.93	607.42	-1.49	37.52	-0.03972	upward
12/17/12	606.54	607.13	-0.59	37.82	-0.01560	upward
03/25/13	605.67	606.54	-0.87	37.39	-0.02327	upward
05/25/13	608.13	607.90	0.23	38.62	0.00596	downward
10/03/13	606.53	608.50	-1.97	37.81	-0.05210	upward
05/20/14	609.17	609.73	-0.56	39.14	-0.01431	upward
10/31/14	607.34	609.19	-1.85	38.22	-0.04840	upward
05/04/15	607.58	608.38	-0.80	38.34	-0.02087	upward
10/05/15	607.83	609.27	-1.44	38.47	-0.03744	upward
05/23/16	607.63	609.76	-2.13	38.37	-0.05552	upward
10/03/16	607.55	609.37	-1.82	38.32	-0.04749	upward
06/29/17	608.68	609.87	-1.19	38.89	-0.03060	upward
10/03/17	609.71	610.79	-1.08	39.41	-0.02741	upward
10/08/18	608.29	609.37	-1.08	38.70	-0.02791	upward
05/26/20	607.40	609.93	-2.53	38.25	-0.06614	upward
05/24/21	608.36	609.35	-0.99	38.73	-0.02556	upward
06/02/22	608.81	609.88	-1.07	38.96	-0.02747	upward
08/02/22	606.82	608.79	-1.97	37.96	-0.05190	upward
05/23/23	607.93	609.70	-1.77	38.52	-0.04596	upward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-40S	MW-40D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
07/26/11	606.52	603.85	2.67	39.71	0.06724	downward
10/11/11	602.62	605.69	-3.07	37.76	-0.08130	upward
01/04/12	601.93	604.98	-3.05	37.42	-0.08152	upward
04/16/12	604.36	605.4	-1.04	38.63	-0.02692	upward
06/26/12	602.27	606.82	-4.55	37.59	-0.12106	upward
09/30/12	601.49	605.29	-3.80	37.19	-0.10216	upward
12/17/12	602.52	604.88	-2.36	37.71	-0.06258	upward
03/25/13	601.85	604.34	-2.49	37.38	-0.06662	upward
05/05/13	603.98	605.53	-1.55	38.44	-0.04032	upward
10/03/13	603.19	605.84	-2.65	38.05	-0.06965	upward
05/20/14	604.17	607.24	-3.07	38.54	-0.07967	upward
10/31/14	603.62	606.91	-3.29	38.26	-0.08599	upward
05/04/15	603.20	606.24	-3.04	38.05	-0.07989	upward
10/05/15	603.89	606.95	-3.06	38.40	-0.07970	upward
05/23/16	603.29	607.06	-3.77	38.10	-0.09896	upward
10/03/16	603.67	607.01	-3.34	38.29	-0.08724	upward
06/29/17	603.97	607.44	-3.47	38.43	-0.09028	upward
10/03/17	605.00	608.30	-3.30	38.95	-0.08472	upward
10/08/18	604.18	607.17	-2.99	38.54	-0.07758	upward
05/26/20	603.46	607.39	-3.93	38.18	-0.10293	upward
05/24/21	604.19	606.99	-2.80	38.55	-0.07264	upward
06/02/22	604.34	607.30	-2.96	38.62	-0.07664	upward
05/23/23	603.69	607.29	-3.60	38.30	-0.09401	upward
Date	MW-41S	MW-41D	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
07/26/11	604.56	601.3	3.26	37.63	0.08663	downward
10/11/11	603.79	607.04	-3.25	37.25	-0.08726	upward
01/04/12	603.27	606.11	-2.84	36.99	-0.07679	upward
04/16/12	604.97	606.46	-1.49	37.84	-0.03938	upward
06/26/12	605.2	608.09	-2.89	37.95	-0.07615	upward
09/30/12	603.14	606.35	-3.21	36.92	-0.08694	upward
12/17/12	603.23	606.04	-2.81	36.96	-0.07602	upward
03/25/13	603.14	605.53	-2.39	36.92	-0.06473	upward
05/25/13	604.66	606.58	-1.92	37.68	-0.05096	upward
10/03/13	603.87	606.98	-3.11	37.29	-0.08341	upward
06/29/17	605.42	608.66	-3.24	38.06	-0.08513	upward
10/03/17	606.48	609.49	-3.01	38.59	-0.07800	upward
10/08/18	605.23	608.33	-3.10	37.97	-0.08165	upward
07/15/19	605.18	608.81	-3.63	37.94	-0.09568	upward
10/01/19	605.72	608.71	-2.99	38.21	-0.07825	upward
05/26/20	605.03	608.72	-3.69	37.87	-0.09745	upward
05/24/21	605.13	608.18	-3.05	37.92	-0.08044	upward
06/02/22	605.36	608.49	-3.13	38.03	-0.08230	upward
05/23/23	605.05	608.48	-3.43	37.88	-0.09056	upward

Table 2B
Vertical Groundwater Gradient
Former Amoco Terminal
Superior, Wisconsin

Date	MW-41D	MW-41DD	GW Elev. Difference	Distance Between Submerged Screen Mid-points	Vertical Gradient	Direction
06/18/18	608.54	608.04	0.50	20.00	0.02500	downward
10/08/18	608.33	606.47	1.86	20.00	0.09300	downward
06/03/19	608.98	606.87	2.11	20.00	0.10550	downward
07/15/19	608.81	606.36	2.45	20.00	0.12250	downward
10/02/19	608.71	606.76	1.95	20.00	0.09750	downward
05/26/20	608.72	606.94	1.78	20.00	0.08900	downward
05/24/21	608.18	607.15	1.03	20.00	0.05150	downward
06/01/22	608.49	607.05	1.44	20.00	0.07200	downward
05/23/23	608.48	607.26	1.22	20.00	0.06100	downward

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

Well ID	Date	Notes	GROUNDWATER ANALYTICAL DATA						
			Benzene (µg/L)	Ethylbenzene (µg/L)	Methyl-tertiary-butyl ether (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)	Total TMBs (µg/L)	Xylene (Total) (µg/L)
WI - NR 140 ES			5	700	60	100	800	480	2,000
MW-1	10/12/2005		660	570	29	--	< 20	2,320	5,000
MW-3	3/23/1988		30	20	--	--	30	--	50
MW-3	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-3	10/21/2003		230	23	< 4.0	--	17	22.2	42
MW-3	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-3	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-3	4/19/2005		1.7	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	10/12/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	10/22/2006		4	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-3	9/29/2007		3.9	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	10/25/2008		1.7	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-3	10/14/2009		2.9	< 2.0	< 2.0	--	< 2.0	< 2.0	< 6.0
MW-3	10/17/2011		18.2	< 1.0	< 1.0	--	1.2	< 1.0	< 3.0
MW-3	10/3/2012		29.9	< 1.0	< 1.0	--	2.2	< 1.0	< 3.0
MW-3	10/2/2013		11.3	< 0.34	< 0.37	--	1.1	--	< 1.0
MW-3	10/30/2014		7.8	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-3	10/6/2015		9.8	< 0.39	< 0.48	< 0.42	2.2	< 0.84	< 1.2
MW-3	10/5/2016		7.6	< 0.39	< 0.48	< 0.42	0.68	< 0.84	< 1.2
MW-4D	7/21/1994		< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 2.0
MW-4D	10/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-4D	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-4D	11/14/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-4D	4/22/1996		< 1.0	< 1.0	< 4.0	< 2.5	< 1.0	1.2	2
MW-4D	11/5/1997		1.5	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-4D	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-4D	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-4D	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-4D	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-4D	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-4D	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-4D	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	0.53
MW-4D	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4D	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4D	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4D	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4D	4/19/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	10/12/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	10/22/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4D	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4D	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	3/23/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-4S	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-4S	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-4S	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-4S	1/31/1991		< 1.0	4	< 20	--	< 1.0	--	< 2.0
MW-4S	7/10/1991		< 1.0	2	< 20	--	< 1.0	--	< 1.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-4S	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-4S	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-4S	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-4S	10/28/1993		< 1.0	4.2	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-4S	4/27/1994		1.2	3.8	< 4.0	< 1.5	< 1.0	1.2	< 2.0
MW-4S	10/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-4S	4/4/1995		1.4	< 1.0	< 4.0	< 1.6	1.7	1	< 2.0
MW-4S	11/14/1995		< 1.0	3.4	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-4S	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-4S	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	2.3	< 2.0
MW-4S	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-4S	3/3/1999	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-4S	3/3/1999		< 1.0	3.4	< 4.0	--	< 1.0	--	3.3
MW-4S	8/17/1999		< 1.0	3.6	< 4.0	--	< 1.0	--	< 3.0
MW-4S	4/26/2000		0.36	4.16	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-4S	10/10/2000		0.86	11	< 0.16	< 1.1	< 0.20	1.7	0.46
MW-4S	4/24/2001		0.19	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-4S	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-4S	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-4S	11/6/2002		0.18	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-4S	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4S	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4S	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4S	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4S	4/19/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	10/12/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	5/23/2006		< 1.0	1.1	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	10/22/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-4S	9/25/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	5/7/2008		< 1.0	11.6	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	10/25/2008		< 1.0	1.9	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-4S	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-5	3/23/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-5	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-5	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-5	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-5	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-5	1/8/1992		1	< 1.0	< 20	--	5	--	5
MW-5	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-5	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-5	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-5	8/18/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-5	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-5	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-5	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-5	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-5	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-6	3/23/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-6	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-6	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-6	8/29/1990	Duplicate	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	--	< 1.0
MW-6	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-6	1/31/1991	Duplicate	2.6	< 1.0	--	< 1.5	< 1.0	--	--
MW-6	1/31/1991		3	< 1.0	< 20	--	< 1.0	--	< 2.0
MW-6	7/10/1991	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 1.0
MW-6	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-6	1/8/1992	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 2.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-6	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-6	10/14/1992		32	55	< 20	--	< 1.0	--	10
MW-6	6/25/1993		65	160	< 8.0	8.5	4.2	14.3	17
MW-6	10/28/1993		38	200	< 8.0	10	5.1	25.5	25
MW-6	4/27/1994		14	100	< 4.0	< 1.5	< 1.0	9.6	4.4
MW-6	10/27/1994		180	120	< 4.0	3.3	4.7	22.2	22
MW-6	4/4/1995		4.6	11	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-6	11/15/1995		140	93	< 4.0	--	6.1	16.1	11
MW-6	4/22/1996		100	93	< 4.0	0.72	2	16.9	5.6
MW-6	4/29/1997		450	500	< 8.0	8.4	13	57.8	31
MW-6	11/5/1997		200	170	< 4.0	--	1.5	31.4	27
MW-6	11/3/1998		13	15	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-6	3/3/1999		8.9	13	< 4.0	--	< 1.0	--	2.1
MW-6	8/17/1999		200	150	5.4	--	5	--	23
MW-6	4/26/2000		65	88.8	2.11	--	5.49	8.02	17.28
MW-6	10/10/2000		46	62	< 0.25	4.2	0.76	4.57	7.9
MW-6	4/24/2001		20	27	< 0.16	--	0.33	0.81	1.3
MW-6	10/23/2001		13	15	< 0.16	--	< 0.20	0.4	0.57
MW-6	4/23/2002		9.8	11	< 0.16	< 1.1	0.39	< 0.29	0.45
MW-6	11/7/2002		46	60	< 0.16	4.3	1.5	10.05	23
MW-6	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-6	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-6	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-6	11/18/2004		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-6	4/19/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-6	10/12/2005		3.3	< 1.0	< 1.0	< 1.0	0.6	< 1.0	< 3.0
MW-6	5/23/2006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-6R	10/14/2009		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-7	3/23/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-7	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-7	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-7	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-7	1/31/1991		< 1.0	< 1.0	< 20	--	20	--	30
MW-7	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-7	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-7	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-7	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	1.5	< 2.0
MW-7	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-7	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-7	10/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-7	4/4/1995	Duplicate	< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-7	4/4/1995		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-7	11/14/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-7	4/22/1996		< 1.0	< 1.0	< 4.0	< 2.4	< 1.0	< 1.0	< 2.0
MW-7	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-7	11/5/1997		2.8	2.8	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-7	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-7	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-7	8/17/1999		< 1.0	< 1.0	< 4.0	--	35	--	< 3.0
MW-7	4/26/2000		< 0.15	< 0.5	< 0.3	--	8.17	0.748	0.631
MW-7	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	0.22	< 0.29	< 0.23
MW-7	4/24/2001		< 0.13	< 0.22	< 0.16	--	13	< 0.29	< 0.23
MW-7	10/23/2001	Duplicate	< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-7	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-7	4/23/2002	Duplicate	< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-7	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	0.26	< 0.29	0.46
MW-7	11/7/2002		1.6	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	0.55
MW-8	3/23/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-8	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-8	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-8	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-8	1/31/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 2.0
MW-8	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-8	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-8	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-8	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	3.5	< 2.0
MW-8	10/28/1993		< 1.0	< 1.0	< 40	< 1.6	< 1.0	< 1.0	< 2.0
MW-8	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-8	10/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-8	4/4/1995		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-8	11/14/1995		< 1.0	2.1	< 4.0	--	3.4	4.4	12
MW-8	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-8	10/8/1996		< 0.5	< 2.0	< 2.0	--	< 2.0	< 2.0	< 3.0
MW-8	4/29/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-8	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-8	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-8	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-8	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-8	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-8	10/10/2000		0.29	< 0.22	< 0.16	< 1.1	0.72	< 0.29	0.34
MW-8	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-8	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	0.41	0.28
MW-8	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	0.41
MW-8	11/7/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-9	3/23/1988		370	14,000	--	--	170	--	1,500
MW-9	9/21/1988		610	290	--	--	44	--	1,200
MW-9	4/27/1989		2,610	1,600	--	--	1,280	--	3,650
MW-9	8/29/1990		13,800	5,710	--	--	14,200	--	1,910
MW-9	1/31/1991	Duplicate	< 50	670	--	86	< 50	--	--
MW-9	1/31/1991		1,240	1,300	1,700	--	701	--	2,230
MW-9	7/10/1991		627	794	750	--	255	--	1,130
MW-9	1/8/1992		961	1,090	1,310	--	508	--	1,950
MW-9	10/14/1992		56	738	40	--	222	--	843
MW-9	3/3/1999		< 100	520	< 400	--	< 100	--	480
MW-9	8/17/1999		99	920	< 40	--	86	--	760
MW-9	8/18/2000		74	530	< 16	340	31	860	400
MW-9	10/10/2000		< 550	< 91	< 32	< 220	< 40	1,600	< 1500
MW-9	10/21/2003		290	830	< 4.0	--	54	1,000	1,100
MW-9	4/20/2004		320	690	22	--	27	830	650
MW-9	11/18/2004		256	542	< 5.0	159	14.6	627	585
MW-9	4/19/2005		186	241	< 1.0	81.3	2.2	216.1	42.6
MW-9	10/12/2005		380	570	9.9	170	31	440	287
MW-9	5/23/2006	Duplicate	339	658	< 50.0	--	< 50.0	559	< 150
MW-9	5/23/2006		307	588	< 5.0	190	12	447	304
MW-9	10/22/2006		237	442	< 10.0	149	12.5	292	204
MW-9	4/29/2007		319	554	< 1.0	190	17	263	213
MW-9	9/25/2007		314	443	< 5.0	167	13.7	313	256
MW-9	5/7/2008		314	521	< 5.0	201	17.5	340	357
MW-9	10/25/2008		311	487	< 5.0	169	17.9	330	301
MW-9	10/27/2010		239	461	< 5.0	150	15.6	319	296
MW-9	10/17/2011		209	358	< 1.0	118	13	260.1	225
MW-9	10/3/2012		198	376	< 5.0	--	14	325	294
MW-10	3/23/1988		230	90	--	--	< 1.0	--	40
MW-10	9/21/1988		80	3	--	--	11	--	15
MW-10	4/27/1989		260	18	--	--	42	--	45
MW-10	8/29/1990		235	69	--	--	27	--	63

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-10	1/31/1991		69	15	30	--	7	--	17
MW-10	7/10/1991		26	31	30	--	13	--	22
MW-10	1/8/1992		3	17	30	--	<1.0	--	11
MW-10	10/14/1992		11	21	<20	--	7	--	10
MW-10	3/3/1999		110	35	<4.0	--	7.9	--	25
MW-10	8/17/1999		5.3	6	<4.0	--	4.1	--	3
MW-10	8/18/2000		48	49	<0.8	18	12	36	43
MW-10	10/10/2000		140	120	<1.6	76	31	103	130
MW-10	10/21/2003		72	79	<4.0	--	11	27	50
MW-10	4/20/2004		400	210	21	--	46	149	150
MW-10	11/18/2004		90.6	61.6	<1.0	21.9	3	41.5	31
MW-10	4/19/2005		7.6	2.9	<1.0	<1.0	<1.0	<1.0	<3.0
MW-10	10/12/2005	Duplicate	10	1.2	<1.0	1.4	0.91	<1.0	<3.0
MW-10	10/12/2005		4.3	0.61	<1.0	1.5	<1.0	<1.0	<3.0
MW-10	5/23/2006	Duplicate	6.6	3.6	<1.0	--	<1.0	<1.0	<3.0
MW-10	5/23/2006		6.7	3.7	<1.0	<1.0	<1.0	<1.0	<3.0
MW-10	10/22/2006	Duplicate	12.2	8.9	<1.0	--	0.76	1.5	3
MW-10	10/22/2006		12.1	8.5	<1.0	1.2	0.73	1.3	3.2
MW-10	4/29/2007	Duplicate	24.4	8.7	<1.0	<1.0	<1.0	<1.0	<3.0
MW-10	4/29/2007		24.1	8.7	<1.0	<1.0	<1.0	<1.0	<3.0
MW-10	10/1/2007		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-10	5/10/2008	Duplicate	<1.0	4.7	<1.0	--	<1.0	<1.0	<3.0
MW-10	5/10/2008		<1.0	5	<1.0	<4.0	<1.0	<1.0	<3.0
MW-10	10/28/2008		4	4.2	<1.0	<4.0	<1.0	<1.0	<3.0
MW-10	10/14/2009		4.3	1.9	<1.0	<4.0	<1.0	<1.0	<3.0
MW-10	10/27/2010		1.1	1.8	<1.0	<4.0	1.6	1	3
MW-10	10/17/2011		6.4	1.7	<1.0	<4.0	<1.0	<1.0	<3.0
MW-10	10/3/2012	Duplicate	9	1.1	<1.0	--	<1.0	<1.0	<3.0
MW-10	10/3/2012		9.3	1	<1.0	<4.0	<1.0	<1.0	<3.0
MW-10	5/21/2014	Duplicate	<1.0	5.1	<1.0	<4.0	<1.0	<2.8	<3.0
MW-10	5/21/2014		<1.0	5	<1.0	<4.0	<1.0	1.7	<3.0
MW-10	5/4/2015		22.2	5.2	0.77	1.3	0.72	<1.62	3.2
MW-10	10/5/2016		3.1	2.3	<0.48	<0.42	<0.39	<0.84	2.3
MW-10	5/24/2023		4.3	0.94	<1.1	<1.9	<0.29	2.9	2.5
MW-11	3/23/1988		70	7	--	--	<1.0	--	<1.0
MW-11	9/21/1988		<1.0	<1.0	--	--	<1.0	--	<1.0
MW-11	4/27/1989		147	18	--	--	19	--	19
MW-11	8/29/1990		69	24	--	--	3	--	9
MW-11	1/31/1991		125	40	20	--	14	--	12
MW-11	7/10/1991		87	20	30	--	10	--	9
MW-11	1/8/1992		24	3	<20	--	<1.0	--	<1.0
MW-11	10/14/1992		180	100	<20	--	10	--	6
MW-11	3/3/1999		18	4.5	<4.0	--	<1.0	--	<2.0
MW-11	8/17/1999		3.7	3.3	<4.0	--	<1.0	--	<3.0
MW-11	8/18/2000		16	0.51	<0.16	<1.1	0.35	0.25	0.69
MW-11	10/10/2000		73	23	<0.16	3.8	3.6	4.5	11
MW-13	3/23/1988		<1.0	<1.0	--	--	<1.0	--	10
MW-13	9/21/1988		<1.0	<1.0	--	--	<1.0	--	<1.0
MW-13	4/27/1989		<2.0	<2.0	--	--	<2.0	--	<4.0
MW-13	8/29/1990		<2.0	<2.0	--	--	<2.0	--	<4.0
MW-13	1/31/1991		<1.0	<1.0	<20	--	<1.0	--	<2.0
MW-13	7/10/1991		<1.0	<1.0	<20	--	<1.0	--	<1.0
MW-13	1/8/1992		<1.0	<1.0	<20	--	<1.0	--	<1.0
MW-13	10/14/1992		<1.0	<1.0	<20	--	<1.0	--	<1.0
MW-13	8/18/2000		0.16	<0.22	<0.16	<1.1	0.21	<0.29	<0.23
MW-15D	7/21/1994		<1.0	<1.0	--	<1.5	<1.0	--	<2.0
MW-15D	10/28/1994		<1.0	<1.0	<4.0	<1.6	<1.0	<1.0	<2.0
MW-15D	4/6/1995		<1.0	<1.0	<4.0	<1.5	<1.0	<1.0	<2.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-15D	11/14/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-15D	4/22/1996		< 1.0	< 1.0	< 4.0	< 1.2	< 1.0	< 1.0	< 2.0
MW-15D	10/8/1996		< 0.5	< 2.0	< 2.0	--	< 2.0	< 2.0	< 3.0
MW-15D	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-15D	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-15D	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-15D	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-15D	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-15D	4/26/2000		< 0.15	< 0.50	< 0.3	--	< 0.40	< 0.40	< 0.55
MW-15D	10/10/2000		0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	0.58
MW-15D	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-15D	1/7/2002		0.31	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	0.58
MW-15D	4/23/2002		2.6	0.48	< 0.16	2.1	0.45	0.55	1.1
MW-15D	4/15/2003		9.6	1.4	< 4.0	--	1.5	< 1.0	< 3.0
MW-15D	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-15D	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-15D	11/18/2004		7.1	< 1.0	< 1.0	< 1.0	0.57	< 1.0	< 3.0
MW-15D	4/19/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15D	10/12/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15D	5/23/2006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15D	10/23/2006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15D	4/29/2007		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15D	9/29/2007		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15D	5/7/2008		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-15D	10/25/2008		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-15D	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15D	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15D	10/27/2010		25.1	2.6	< 1.0	--	2.5	< 1.0	4.2
MW-15D	10/17/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15D	10/3/2012	Duplicate	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15D	10/3/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15S	9/21/1988		18	7	--	--	16	--	16
MW-15S	4/27/1989		36	5	--	--	2	--	6
MW-15S	8/29/1990		4	< 2.0	--	--	< 2.0	--	< 4.0
MW-15S	1/31/1991	Duplicate	1.9	< 1.0	--	< 1.5	1.8	--	--
MW-15S	1/31/1991		2	< 1.0	< 20	--	3	--	2
MW-15S	7/10/1991	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 1.0
MW-15S	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-15S	1/8/1992	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 2.0
MW-15S	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-15S	10/14/1992	Duplicate	1.4	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-15S	10/14/1992		1	< 1.0	< 20	--	2	--	< 1.0
MW-15S	6/25/1993		3.3	< 1.0	< 4.0	< 1.6	2.1	5.1	2.4
MW-15S	10/28/1993		1.4	< 1.0	< 4.0	< 1.5	< 1.0	4	< 2.0
MW-15S	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-15S	10/27/1994		1.4	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-15S	4/5/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-15S	11/14/1995		3.1	1.7	< 4.0	--	1.4	1.2	< 2.0
MW-15S	4/22/1996		1.6	< 1.0	< 4.0	< 0.26	< 1.0	< 1.0	< 2.0
MW-15S	10/8/1996		1	< 2.0	2	--	< 2.0	< 2.0	< 3.0
MW-15S	4/29/1997		7.6	1.5	< 4.0	< 1.0	1.8	3.5	12
MW-15S	11/5/1997		1.1	< 1.0	< 4.0	--	< 1.0	1.3	< 2.0
MW-15S	11/3/1998		12	3.2	13	--	3	< 1.0	< 2.0
MW-15S	3/3/1999		7.4	1.6	< 4.0	--	< 1.0	--	< 2.0
MW-15S	8/17/1999		6.5	3	< 4.0	--	2.6	--	< 3.0
MW-15S	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-15S	10/10/2000		5.7	8.3	< 0.16	1.7	0.52	22.6	2.7
MW-15S	10/23/2001		3.1	1.2	< 0.16	--	< 0.20	0.35	0.3

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-15S	1/7/2002		1.6	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	0.55
MW-15S	4/23/2002		0.73	< 0.22	< 0.16	< 1.1	< 0.20	0.49	0.72
MW-15S	4/15/2003		3.2	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-15S	10/21/2003		33	25	< 4.0	--	3.1	< 1.0	< 3.0
MW-15S	4/20/2004		14	7.9	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-15S	11/18/2004		1.7	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	4/19/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	10/12/2005		1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	5/23/2006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	10/23/2006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	4/29/2007		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	9/29/2007		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-15S	5/7/2008		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-15S	10/25/2008		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-15S	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15S	10/15/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15S	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15S	10/17/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-15S	10/3/2012		16.7	22.5	< 1.0	--	1.1	5.4	3.4
MW-16	9/21/1988		770	710	--	--	3,400	--	2,800
MW-16	4/27/1989		1,540	358	--	--	2,380	--	3,410
MW-16	8/29/1990	Duplicate	1,000	660	< 100	45	3,400	--	3,500
MW-16	8/29/1990		195	360	--	--	2,340	--	3,130
MW-16	1/31/1991	Duplicate	1,200	670	--	120	4,200	--	--
MW-16	1/31/1991		169	599	510	--	2,869	--	3,410
MW-16	7/10/1991	Duplicate	360	660	--	< 7.5	3,200	--	2,800
MW-16	7/10/1991		689	817	550	--	4,260	--	3,800
MW-18	9/21/1988		55	1	--	--	< 1.0	--	9
MW-18	4/27/1989		641	7	--	--	27	--	31
MW-18	8/29/1990		308	10	--	--	11	--	17
MW-18	1/31/1991		166	< 1.0	80	--	13	--	15
MW-18	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-18	1/8/1992		57	< 1.0	< 20	--	3	--	< 1.0
MW-18	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-18	8/18/2000		0.62	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-19	7/11/1989		3	9	--	--	< 2.0	--	9
MW-19	8/29/1990	Duplicate	2.3	6.3	< 1.0	23	< 1.0	--	35
MW-19	8/29/1990		< 2.0	9	--	--	< 2.0	--	36
MW-19	1/31/1991		< 1.0	3	< 20	--	< 1.0	--	3
MW-19	7/10/1991	Duplicate	2.2	8.8	--	33	< 1.0	--	22
MW-19	7/10/1991		1	7	< 20	--	1	--	28
MW-19	1/8/1992	Duplicate	2.4	9.4	--	37	< 2.0	--	51
MW-19	1/8/1992		2	7	< 20	--	< 1.0	--	56
MW-19	10/14/1992	Duplicate	1.8	3.2	< 4.0	--	< 1.0	60	32
MW-19	10/14/1992		1	2	< 20	--	1	--	25
MW-19	6/25/1993		2	4.5	< 4.0	18	< 1.0	90	48
MW-19	10/28/1993		1.9	2.1	< 4.0	27	< 1.0	66	31
MW-19	4/27/1994		1.6	1.8	< 4.0	23	< 1.0	45.7	19
MW-19	10/28/1994		2.2	1.7	< 4.0	33	< 1.0	105	43
MW-19	4/4/1995		2.6	6.8	4.3	30	2.1	136	59
MW-19	11/14/1995		2.8	2.5	< 4.0	--	< 1.0	158	62
MW-19	4/22/1996		1.9	2.3	< 4.0	36	< 1.0	172	63
MW-19	10/8/1996		2	2	3	--	< 2.0	147	61
MW-19	4/29/1997		2.3	3.2	< 4.0	44	< 1.0	114	59
MW-19	11/5/1997		1.2	< 1.0	12	--	< 1.0	27	5
MW-19	11/5/1998		< 5.0	< 5.0	< 20	--	< 5.0	199	19
MW-19	3/3/1999		2.2	2.1	< 4.0	--	< 1.0	--	29
MW-19	8/17/1999		3.3	< 1.0	< 4.0	--	2.5	--	8.3

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-19	4/26/2000		0.871	< 2.50	< 1.50	--	< 2.0	122	6.2
MW-19	10/10/2000		3.6	< 2.2	< 1.6	100	< 2.0	137	9.5
MW-19	4/24/2001		2.2	2	3	76	1.3	135	8.5
MW-19	10/23/2001		1.1	0.94	< 0.32	--	0.27	92	3.8
MW-19	4/23/2002		0.23	< 0.22	0.29	3.3	< 0.20	5.5	0.32
MW-19	11/8/2002		1.3	0.69	1.4	59	< 0.20	133	2.2
MW-19	4/15/2003		1	< 1.0	< 4.0	--	< 1.0	94	< 3.0
MW-19	10/21/2003		6.7	2.5	< 4.0	--	< 1.0	95	14
MW-19	4/20/2004		4.6	3.9	< 4.0	--	< 1.0	29	< 3.0
MW-19	11/17/2004	Duplicate	0.84	< 1.0	< 4.0	--	< 1.0	217.9	19.6
MW-19	11/17/2004		1.8	1.1	< 1.0	12.2	< 1.0	235.3	19.9
MW-19	4/19/2005	Duplicate	1.2	< 1.0	< 1.0	--	< 1.0	242	11.5
MW-19	4/19/2005		< 1.0	< 1.0	< 1.0	7.6	< 1.0	254.1	13.1
MW-19R	10/12/2005	Duplicate	320	150	2	260	13	236	148.4
MW-19R	10/12/2005		320	150	3	270	12	248	148.9
MW-20	7/11/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-20	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-20	1/31/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 2.0
MW-20	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-20	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-20	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-20	6/25/1993		1.4	1.8	< 4.0	< 1.6	2.1	5.5	5.8
MW-20	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-20	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-20	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-20	4/4/1995		< 1.0	1.2	< 4.0	< 1.8	< 1.0	< 1.0	< 2.0
MW-20	11/14/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	2.1	< 2.0
MW-20	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-20	10/8/1996		0.6	< 2.0	< 2.0	--	< 2.0	2	< 3.0
MW-20	4/29/1997		< 1.0	1.2	6.5	< 1.0	< 1.0	1.2	< 2.0
MW-20	11/5/1997		< 1.0	1.4	< 4.0	--	< 1.0	3	< 2.0
MW-20	11/5/1998		< 5.0	< 5.0	< 20	--	< 5.0	< 5.0	< 10
MW-20	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-20	8/17/1999		< 1.0	5.8	< 4.0	--	1.3	--	< 3.0
MW-20	4/26/2000		0.52	4.92	< 0.30	--	< 0.40	5.61	1.63
MW-20	10/10/2000		0.72	6.5	< 0.16	17	0.25	7.1	2.5
MW-21	7/11/1989		1,970	27	--	--	31	--	50
MW-21	8/29/1990		45	< 2.0	--	--	< 2.0	--	7
MW-21	1/31/1991		750	< 1.0	< 20	--	3	--	5
MW-21	7/10/1991		85	< 1.0	< 20	--	1	--	3
MW-21	1/8/1992		1,570	34	50	--	37	--	78
MW-21	8/18/2000		74	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	0.82
MW-21	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-21	4/19/2005		1.8	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-21	10/12/2005		40	2	< 1.0	--	1.1	< 1.0	2.7
MW-21	5/23/2006		2,840	181	< 1.0	--	82.1	40.6	161
MW-21	10/22/2006		1,300	40.9	< 1.0	--	20.7	2.01	40.4
MW-21	4/29/2007		59.3	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-28	7/11/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-28	8/29/1990	Duplicate	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	--	< 1.0
MW-28	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-28	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-28	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-28	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-28	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-28	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-28	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-28	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-28	4/5/1995		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-28	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-28	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.26	< 1.0	< 1.0	< 2.0
MW-28	10/8/1996		4	18	< 2.0	--	33	33	75
MW-28	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-28	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-28	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-28	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-28	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-28	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-28	10/10/2000		< 0.13	< 0.22	< 0.13	< 1.1	< 0.20	< 0.29	< 0.23
MW-28	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-28	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-28	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-28	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-28	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-28	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	1.1	< 3.0
MW-28	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-28	4/19/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/12/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/22/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-28	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/13/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	10/3/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-28	5/7/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-30D	7/21/1994		1,500	< 20	--	190	55	--	50
MW-30D	10/28/1994		2,000	49	< 20	170	110	42	100
MW-30D	4/6/1995		2,500	300	< 80	180	390	363	540
MW-30D	11/15/1995		1,500	90	< 40	--	120	71	100
MW-30D	4/22/1996		2,400	89	< 40	--	110	44	100
MW-30D	10/8/1996		1,800	73	180	--	100	54	86
MW-30D	4/29/1997		2,000	63	180	120	110	42	110
MW-30D	11/5/1997		2,300	72	1,300	--	130	27	110
MW-30D	11/3/1998		2,500	88	180	--	100	< 20	100
MW-30D	3/3/1999		2,500	110	1,700	--	140	--	150
MW-30D	8/17/1999		1,600	84	1,600	--	98	--	100
MW-30D	4/26/2000		2,180	70.5	< 3.0	--	106	33.5	82.6
MW-30D	10/10/2000	Duplicate	2,400	79	< 3.2	240	96	37	85
MW-30D	10/10/2000		2,400	83	< 3.2	260	96	39	90
MW-30D	10/23/2001		720	11	< 3.2	--	29	21	39
MW-30D	4/23/2002		1,600	83	< 1.6	270	120	46	96
MW-30D	11/7/2002		880	16	< 2.0	110	32	16	34
MW-30D	4/15/2003		1,600	32	< 40	--	62	16	65
MW-30D	10/21/2003		1,100	25	< 4.0	--	51	18.1	42
MW-30D	4/21/2004		990	34	< 40	--	44	56	59
MW-30D	11/17/2004		2,140	84.9	< 1.0	299	113	37	99.3
MW-30D	4/20/2005		671	21.1	< 1.0	61.6	34.1	9.7	26.2
MW-30D	10/11/2005		170	4.9	< 1.0	23	13	7.4	16.3
MW-30D	5/23/2006		2,420	72.9	< 50.0	241	84.3	< 50.0	< 150
MW-30D	10/24/2006		2,080	83	< 25.0	233	102	23.3	88

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-30D	4/30/2007		1,750	70.3	< 1.0	216	71.9	26.8	71.4
MW-30D	10/1/2007		1,450	53.1	< 10	153	60	17.8	55.4
MW-30D	5/10/2008		2,170	117	< 10	312	107	39.4	105
MW-30D	10/28/2008		2,040	139	< 2.0	186	105	24	80.2
MW-30D	10/18/2011		1,220	94	< 1.0	129	81.4	20.2	67.7
MW-30D	4/17/2012		1,260	54.7	< 10.0	--	52.2	24.4	44.5
MW-30D	10/2/2012		1,460	62.2	< 10.0	--	60.2	18.3	58.7
MW-30D	5/7/2013		1,350	47.7	< 10.0	128	57.6	15.2	49.2
MW-30D	10/2/2013		1,700	62.6	< 9.3	--	88.6	< 25.1	64.3
MW-30D	5/22/2014		1,930	74.3	< 10	190	107	< 22.6	63.1
MW-30D	10/30/2014		2,160	85.8	< 9.7	161	120	< 18.2	77.3
MW-30D	5/5/2015		2,120	85.4	< 12.1	231	113	24.1	82.3
MW-30D	10/7/2015		2,560	80.7	< 24.2	229	118	< 41.7	93.3
MW-30D	5/24/2016		2,180	62.7	< 4.8	203	90.7	16.3	75.2
MW-30D	10/6/2016		2,120	54.9	< 9.7	178	81.2	< 18.1	65.9
MW-30D	6/14/2017		2,070	58.1	25.3	196	80.1	< 20.8	70.4
MW-30D	10/4/2017		1,850	46.6	17.9	202	70.9	13.3	64.3
MW-30D	6/27/2018		1,930	59.2	< 8.0	200	72.7	9.4	62.4
MW-30D	10/11/2018		1,830	52.3	< 8.0	168	68.8	< 16.8	57.5
MW-30D	6/6/2019		1,730	49.8	< 8.0	163	64.4	< 16.8	52.4
MW-30D	10/3/2019		1,810	51.3	< 6.4	153	64.2	< 13.6	53.9
MW-30D	5/28/2020		1,790	62.9	< 6.4	183	62.2	< 15.4	56.8
MW-30D	10/6/2020		1,870	60.7	< 6.4	167	64.7	< 15.2	57.8
MW-30D	5/26/2021		1,890	68.5	8.2	196	63.7	< 8.5	61.5
MW-30D	10/5/2021		1,910	75.4	< 6.4	163	62	< 13.4	< 59.1
MW-30D	6/2/2022		2,030	59	18.1	155	52.3	7.9	46.9
MW-30D	11/2/2022		2,190	58.7	< 6.4	157	64.5	< 13.4	55.3
MW-30D	5/24/2023		2,290	42.6	< 22.6	175	55.5	< 16.1	44.3
MW-30D	10/10/2023		2,230	37.1	< 22.6	141	52.7	< 16.1	43.9
MW-30DD	6/2/1995		0.5	< 0.8	< 1.0	< 1.6	< 0.6	< 0.7	< 1.3
MW-30DD	8/18/1995		1.2	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-30DD	11/15/1995		5.2	1.6	< 4.0	2.9	7.1	13.2	18
MW-30DD	4/22/1996		4.1	< 1.0	< 4.0	< 0.31	< 1.0	< 1.0	< 2.0
MW-30DD	10/8/1996		33	3	3	--	2	3	6
MW-30DD	4/29/1997		430	26	26	18	35	27.5	49
MW-30DD	11/5/1997		660	28	41	--	45	35	56
MW-30DD	11/3/1998		140	5.7	78	--	7.6	4.3	8.3
MW-30DD	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-30DD	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-30DD	4/26/2000		0.444	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-30DD	10/10/2000		1.44	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-30DD	10/23/2001		64	3.9	0.21	--	6	3.54	6.9
MW-30DD	4/23/2002		0.84	0.34	< 0.16	< 1.1	0.37	0.28	1
MW-30DD	11/7/2002		0.81	0.49	< 0.16	< 0.46	0.5	0.6	1
MW-30DD	4/15/2003		14	1.4	< 4.0	--	4.6	< 1.0	3.2
MW-30DD	10/21/2003		15	< 1.0	< 4.0	--	1.9	< 1.0	< 3.0
MW-30DD	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-30DD	11/17/2004		15.1	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 3.0
MW-30DD	11/18/2004	Duplicate	73.7	< 1.0	8.6	--	1.2	1.3	< 3.0
MW-30DD	4/20/2005	Duplicate	18.2	1.1	< 1.0	--	2.2	< 1.0	< 3.0
MW-30DD	4/20/2005		17.5	1.5	< 1.0	5.6	2.2	< 1.0	< 3.0
MW-30DD	10/11/2005	Duplicate	1,400	59	< 10	140	76	25.5	59
MW-30DD	10/11/2005		1,700	66	< 25	170	86	16	68
MW-30DD	5/23/2006	Duplicate	10.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-30DD	5/23/2006		7.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-30DD	10/24/2006	Duplicate	90.2	2.3	< 1.0	--	4.9	2.03	5.7
MW-30DD	10/24/2006		90.9	2.4	< 1.0	15.4	4.8	2.26	6.1
MW-30DD	4/30/2007	Duplicate	2.7	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-30DD	4/30/2007		2.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-30DD	10/1/2007		2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MW-30DD	5/10/2008	Duplicate	74.8	1.8	< 1.0	--	7.1	2.8	6.4
MW-30DD	5/10/2008		78	1.8	< 1.0	12.9	7.3	2.7	6.6
MW-30DD	10/28/2008		41	2.2	< 1.0	5.5	3.8	< 1.0	3.7
MW-30DD	10/18/2011		50.2	3.3	< 1.0	5.9	2.6	3.5	7.1
MW-30DD	4/17/2012	Duplicate	< 1.0	< 1.0	< 1.0	--	< 1.0	1	< 3.0
MW-30DD	4/17/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	1	< 3.0
MW-30DD	10/2/2012		4.2	< 1.0	< 1.0	--	< 1.0	1	< 3.0
MW-30DD	5/7/2013		1.1	< 1.0	< 1.0	< 4.0	< 1.0	1	< 3.0
MW-30DD	10/2/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.37	< 1.0
MW-30DD	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-30DD	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-30DD	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-30DD	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-30DD	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-30DD	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-30DD	10/2/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-30DDD	6/27/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-30DDD	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-30DDD	6/5/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-30DDD	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-30S	7/11/1989		2,670	80	--	--	282	--	368
MW-30S	8/29/1990	Duplicate	1,700	23	9.8	150	250	--	280
MW-30S	8/29/1990		1,850	30	--	--	293	--	374
MW-30S	1/31/1991	Duplicate	850	< 25	--	75	100	--	--
MW-30S	1/31/1991		578	3	160	--	73	--	840
MW-30S	7/10/1991	Duplicate	1,400	< 100	--	< 1.5	< 100	--	< 100
MW-30S	7/10/1991		904	< 1.0	160	--	59	--	90
MW-30S	1/8/1992	Duplicate	130	< 1.0	--	2	2.6	--	4.6
MW-30S	1/8/1992		68	< 1.0	60	--	< 1.0	--	10
MW-30S	10/14/1992	Duplicate	36	1.4	< 4.0	--	1.3	1.3	3.7
MW-30S	10/14/1992		28	< 1.0	< 20	--	6	--	1
MW-30S	6/25/1993		230	2.5	< 8.0	3.5	42	12.5	69
MW-30S	10/28/1993		< 1.0	< 1.0	< 4.0	15	< 1.0	< 1.0	< 2.0
MW-30S	4/27/1994		890	24	< 20	22	35	28	47
MW-30S	10/28/1994		830	43	< 8.0	27	46	33	59
MW-30S	4/6/1995		2,200	70	< 20	190	140	48	110
MW-30S	11/15/1995		1,800	200	< 40	--	140	165	220
MW-30S	4/22/1996		1,800	150	< 40	100	170	182	250
MW-30S	10/8/1996	Duplicate	780	67	61	--	41	49	70
MW-30S	10/8/1996		600	68	43	--	44	53	67
MW-30S	4/29/1997		600	62	33	37	33	39	62
MW-30S	11/5/1997		150	24	7.5	--	5.4	10.5	17
MW-30S	11/3/1998		3,100	300	210	--	660	396	1,400
MW-30S	3/3/1999		3,600	400	1,200	--	580	--	1,200
MW-30S	8/17/1999		1,500	230	800	--	180	--	310
MW-30S	4/26/2000		1,130	124	< 1.50	--	73.9	60.1	73
MW-30S	10/10/2000		1,100	120	< 0.16	100	64	54	73
MW-30S	4/24/2001	Duplicate	1,400	160	< 0.16	150	87	73	99
MW-30S	10/23/2001		1,300	200	< 4.9	--	190	175	300
MW-30S	4/23/2002		2,900	300	< 3.2	330	810	306	920
MW-30S	11/6/2002		1,400	200	< 4.0	220	140	164	220
MW-30S	11/7/2002	Duplicate	1,300	160	< 7.5	170	120	126	170
MW-30S	4/15/2003	Duplicate	1,500	160	< 4.0	--	160	160	280
MW-30S	4/15/2003		1,900	180	< 4.0	--	180	175	320
MW-30S	10/21/2003	Duplicate	1,900	230	< 40	--	280	207	420
MW-30S	10/21/2003		1,700	180	< 4.0	--	200	162	340

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-30S	4/20/2004	Duplicate	2,800	360	100	--	320	145	700
MW-30S	4/20/2004		2,700	380	150	--	1,700	357	1,100
MW-30S	11/17/2004		1,520	143	< 1.0	< 50	410	223.4	326
MW-30S	4/20/2005		2,640	304	< 1.0	390	656	298.7	550
MW-30S	10/11/2005		1,500	230	32	240	120	187	209
MW-30S	5/23/2006		1,130	191	< 25.0	221	36.9	72.9	< 75.0
MW-30S	10/24/2006		496	153	< 10.0	122	30.5	70.2	61.9
MW-30S	4/30/2007		1,300	183	< 1.0	159	806	202.9	712
MW-30S	10/1/2007		1,620	263	< 10	209	1,090	289.2	858
MW-30S	5/10/2008		725	65.1	< 5.0	140	88.7	102	90
MW-30S	10/28/2008		1,110	86.8	< 10.0	109	41.5	66	74.7
MW-30S	10/18/2011		726	79.5	< 1.0	93.4	58.2	70.5	89.6
MW-30S	4/17/2012		253	66.8	< 1.0	--	105	36.1	107
MW-30S	10/2/2012	Duplicate	348	16.7	< 2.0	--	45.9	32.2	44.3
MW-30S	10/2/2012		336	16.1	< 2.0	--	45	31.1	44.1
MW-30S	5/7/2013		3,230	393	< 5.0	382	2,180	413.6	1,240
MW-30S	10/2/2013		1,140	133	8.9	--	567	129.8	286
MW-30S	5/21/2014		1,710	190	< 2.0	212	806	198.3	494
MW-30S	10/30/2014		1,120	158	< 4.8	144	403	122.9	241
MW-30S	5/5/2015		1,530	243	< 9.7	241	578	215.9	530
MW-30S	10/7/2015		1,190	201	< 9.7	211	415	176.7	366
MW-30S	5/24/2016		1,230	205	< 2.4	194	507	180.8	363
MW-30S	10/5/2016		1,420	205	< 9.7	199	923	196.4	740
MW-30S	6/27/2018		685	184	18.7	120	126	110.3	184.7
MW-30S	10/11/2018		409	88.3	2	57.3	118	46.1	113.7
MW-30S	6/5/2019		212	46.6	< 1.6	33.6	45.2	26.7	47.7
MW-30S	10/3/2019		232	71.3	1.6	42.4	38.8	42.7	86
MW-30S	5/27/2020		383	67	< 1.6	43.4	175	45.2	140.8
MW-30S	10/6/2020		1,910	269	< 1.6	188	1,520	217.1	1,108
MW-30S	5/26/2021		2,510	431	< 3.2	384	1,950	386.7	1,567
MW-30S	10/5/2021		2,210	362	< 6.4	309	2,130	327.7	1,528
MW-30S	6/3/2022		2,130	356	14.7	325	1,030	328	914
MW-30S	11/2/2022		953	169	< 6.4	172	793	145.7	594
MW-30S	5/24/2023		2,280	363	< 22.6	335	1,700	323	1,270
MW-30S	10/10/2023		966	171	< 11.3	175	813	159	598
MW-33	8/6/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-33	1/8/1992	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 1.0
MW-33	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-33	10/14/1992	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-33	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-33	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-33	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-33	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	4.8
MW-33	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-33	10/8/1996		0.6	< 2.0	< 2.0	--	< 2.0	< 2.0	< 3.0
MW-33	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-33	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-33	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-33	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-33	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-33	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-33	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-33	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-33	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-33	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-33	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-33	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-33	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	2.2	< 3.0
MW-33	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	2.2	< 3.0
MW-33	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	4/30/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-33	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	5/9/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-33	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-33	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-33	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-33	8/3/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-34	8/6/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-34	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-34	10/14/1992	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-34	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-34	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-34	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.7	< 1.0	< 1.0	< 2.0
MW-34	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-34	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-34	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	2.7	< 2.0
MW-34	11/15/1995		< 1.0	5.1	< 4.0	--	9.2	7.4	18
MW-34	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-34	10/8/1996		0.6	< 2.0	< 2.0	--	< 2.0	< 2.0	< 3.0
MW-34	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-34	11/5/1997		< 1.0	< 1.0	6.2	--	< 1.0	< 1.0	< 2.0
MW-34	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-34	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-34	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-34	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-34	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-34	10/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-34	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-34	11/7/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-34	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-34	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	2.1	< 3.0
MW-34	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-34	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-34	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/20/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-34	10/2/2013	Duplicate	< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-34	10/2/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-34	10/29/2014	Duplicate	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-34	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-34	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-35	8/6/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-35	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-35	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-35	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-35	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-35	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-35	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-35	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-35	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-35	4/22/1996		< 1.0	< 1.0	< 4.0	< 0.24	< 1.0	< 1.0	< 2.0
MW-35	10/8/1996		< 0.5	< 2.0	< 2.0	--	< 2.0	< 2.0	< 3.0
MW-35	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 2.0
MW-35	11/5/1997		2.3	2.4	9.5	--	2.3	5.2	6.8
MW-35	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-35	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-35	8/17/1999		< 1.0	1	< 4.0	--	< 1.0	--	< 3.0
MW-35	4/26/2000		< 0.15	< 0.50	< 0.3	--	< 0.40	0.6	0.215
MW-35	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-35	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	0.34
MW-35	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-35	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-35	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-35	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-35	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-35	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-35	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/12/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/22/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-35	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/13/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/3/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-35	10/2/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-35	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-35	10/6/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-47	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MWT-2D	10/21/2003		1,500	11	< 4.0	--	67	46	87
MWT-2D	4/13/2004		85	1	< 4.0	--	7.4	6	< 3.0
MWT-2D	11/17/2004		1,820	32	< 1.0	83.2	92.3	74.2	132
MWT-2D	11/18/2004	Duplicate	1,720	29	67.8	--	99.8	70.2	132
MWT-2D	4/20/2005		4,510	158	< 1.0	226	153	182.8	340
MWT-2D	10/11/2005		4,700	120	< 50	220	220	179	300
MWT-2D	10/25/2006		5,740	184	< 10.0	245	273	187.6	310
MWT-2D	5/1/2007		4,790	150	< 25.0	241	258	185.2	337
MWT-2D	9/29/2007		3,910	55.3	< 25.0	--	215	154.9	305
MWT-2D	5/10/2008		5,060	43.6	< 25.0	< 100	227	105.3	252
MWT-2D	10/28/2008		5,080	41	< 5.0	72.3	214	102.7	250
MWT-2D	10/17/2011		2,800	75	< 1.0	129	174	138.5	261
MWT-2D	4/17/2012		3,230	137	< 25.0	--	159	118.7	226

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
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MWT-2D	10/2/2012		4,310	275	< 20.0	--	224	172.7	342
MWT-2D	5/7/2013	Duplicate	4,540	257	< 50.0	< 200	222	173.7	343
MWT-2D	5/7/2013		4,570	264	< 50.0	< 200	211	175.9	350
MWT-2D	10/3/2013		3,120	195	30.3	--	173	122.4	277
MWT-2D	5/22/2014		3,450	247	< 25.0	347	219	209.4	320
MWT-2D	10/30/2014		3,400	240	28.9	174	201	169.7	366
MWT-2D	5/5/2015		3,720	277	46.3	180	224	172.2	377
MWT-2D	10/7/2015		3,740	285	43.1	215	232	199.9	393
MWT-2D	5/25/2016		3,670	331	92.5	196	246	203	398
MWT-2D	10/4/2016		3,300	303	119	160	194	181.9	344
MWT-2D	10/6/2016		3,590	319	92.8	163	228	193.3	352
MWT-2D	6/14/2017		3,440	331	115	167	214	191.2	373.8
MWT-2D	6/27/2018	Duplicate	3,290	322	212	157	185	186.5	353.5
MWT-2D	6/27/2018		2,970	287	190	133	171	163.6	311.5
MWT-2D	10/12/2018	Duplicate	3,210	303	134	135	170	161.3	326.4
MWT-2D	10/12/2018		3,100	286	129	127	163	149.4	303.5
MWT-2D	6/6/2019	Duplicate	2,810	256	166	119	141	141.2	256
MWT-2D	6/6/2019		2,970	260	197	119	147	145.9	256
MWT-2D	10/3/2019	Duplicate	2,260	186	113	97.1	105	97.2	206
MWT-2D	10/3/2019		2,400	191	115	93	109	99.4	208.8
MWT-2D	5/28/2020	Duplicate	2,350	218	105	108	119	112.9	236.4
MWT-2D	5/28/2020		2,540	232	116	109	124	116.1	253.1
MWT-2D	10/7/2020	Duplicate	2,290	181	129	94.1	113	96.5	210.9
MWT-2D	10/7/2020		2,550	209	139	140	200	111.1	277.2
MWT-2D	5/27/2021	Duplicate	2,720	246	123	115	148	132.1	280.5
MWT-2D	5/27/2021		2,610	239	115	111	149	125.5	278.3
MWT-2D	10/5/2021	Duplicate	2,500	220	102	85.5	133	104.2	248.8
MWT-2D	10/5/2021		2,520	225	111	93.6	134	115.8	253.1
MWT-2D	6/3/2022	Duplicate	2,760	243	106	89.1	145	129.5	290.5
MWT-2D	6/3/2022		2,760	229	101	92.5	137	122.7	269
MWT-2D	11/2/2022	Duplicate	2,860	243	102	94.1	153	129.2	292.2
MWT-2D	11/2/2022		2,680	235	111	88.8	144	126.4	286.5
MWT-2D	5/24/2023		3,130	258	66.3	135	155	143	288
MWT-2D	5/25/2023	Duplicate	2,910	239	63.7	154	151	133	273
MWT-2D	10/11/2023	Duplicate	3,050	271	< 56.5	< 95.9	160	139	267
MWT-2D	10/11/2023		3,220	303	50.3	90.6	170	143	302
MWT-2S	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWT-2S	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWT-2S	11/17/2004		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWT-2S	4/20/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MWT-2S	10/11/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MWT-2S	10/25/2006		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MWT-2S	5/1/2007		4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MWT-2S	9/29/2007		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
MWT-2S	5/10/2008		6.2	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MWT-2S	10/28/2008		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MWT-2S	10/10/2018		< 0.31	< 0.33	< 0.33	< 0.51	< 0.49	< 0.67	< 0.98
MWT-2S	10/2/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWT-2S	8/3/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWT-6	10/12/2005		340	390	< 5.0	--	480	680	1,380
MWT-6	10/30/2008		278	138	< 5.0	--	208	867	1,730
MWT-6	10/3/2012		63	75	< 2.0	--	31.6	469	548
MWT-6	10/2/2013		49.8	71.6	1.7	--	12.8	326	325
MWT-6	10/30/2014		52.1	47.6	2	135	4.4	428	247
MWT-6	10/6/2015		59.8	63	2.2	95.8	14.2	273	205
P-17DD	9/13/2011		< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 6.0
P-31D	9/13/2011		< 1.0	< 1.0	12.5	--	< 1.0	< 1.0	< 3.0
P-34D	9/13/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
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EW-06	7/28/2011		9,440	772	< 50.0	396	9,600	1,078	5,200
EW-06	10/19/2011		12,500	1,090	58.4	353	9,800	1,229	6,260
EW-06	4/18/2012		10,400	662	382	--	1,920	991	3,260
EW-07	7/28/2011		258	490	< 10.0	159	857	591	2,350
EW-07	10/19/2011		226	307	< 2.0	87.9	646	343.3	1,330
EW-07	4/18/2012		615	247	< 5.0	--	796	183.9	969
EW-07	5/7/2013		385	334	< 25.0	199	270	1,254	2,240
EW-08	7/28/2011	Duplicate	87.2	14.2	< 1.0	9.7	2	17.3	26.3
EW-08	7/28/2011		82	13.4	< 1.0	9.2	1.9	16.8	25
EW-08	10/19/2011	Duplicate	242	54.3	< 1.0	41.2	8	98.2	121
EW-08	10/19/2011		234	53.3	< 1.0	45.1	7.5	98.7	116
EW-08	4/18/2012	Duplicate	448	190	< 5.0	--	12.1	365.4	435
EW-08	4/18/2012		466	193	< 5.0	--	11.4	372.3	444
EW-08	5/7/2013		574	292	< 5.0	220	16.7	615	745
EW-08	5/21/2014		4.1	1.1	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
EW-08	10/30/2014		219	101	< 0.97	91.4	3.7	106	122
EW-08	5/5/2015		578	281	< 2.4	241	15.8	395.1	517
EW-08	10/6/2015		57	16.1	< 0.48	11.2	0.4	7.7	11.3
EW-08	10/5/2016		407	118	< 1.9	103	9.5	165.6	141
EW-08	5/24/2023		238	90.7	< 4.5	65.1	2.6	157	210
EW-09	7/28/2011		374	215	< 2.0	188	18.7	317.4	436
EW-09	10/19/2011		231	132	< 2.0	135	11.1	268.1	304
EW-09	4/18/2012		74.2	25	< 1.0	--	2.8	60.7	49.2
EW-09	5/7/2013		34.1	24.2	< 1.0	5	2.6	31.2	19.4
EW-09	5/21/2014		53.4	11.9	< 1.0	6.3	1.8	10.1	19.7
EW-09	5/4/2015		21	3	0.8	0.75	1	< 1.31	2.2
EW-09	10/5/2016		28.1	25.5	< 0.48	26	2.2	38.2	40.8
EW-10	7/28/2011		3,430	< 20.0	< 20.0	< 80.0	< 20.0	< 20.0	< 60.0
EW-10	10/19/2011		3,970	2.6	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
EW-10	4/18/2012		1,510	1	< 1.0	--	< 1.0	< 1.0	< 3.0
EW-10	5/7/2013	Duplicate	16	4.4	< 1.0	< 4.0	< 1.0	38.7	34
EW-10	5/7/2013		18.3	6	< 1.0	4.9	< 1.0	48.9	44.4
EW-10	5/21/2014		18.6	< 1.0	1.3	< 4.0	< 1.0	< 2.0	< 3.0
EW-10	5/4/2015		7.2	< 0.39	2	< 0.42	< 0.39	< 0.84	< 1.2
EW-10	10/5/2016		1.4	< 0.39	2.6	< 0.42	< 0.39	< 0.84	< 1.2
EW-10R	4/26/2023		637	3.8	< 1.1	3.2	0.5	0.77	< 1.05
EW-10R	5/25/2023		428	< 3.3	< 11.3	21.1	< 2.9	< 8.1	< 10.5
EW-10R	10/11/2023		175	< 0.81	< 2.8	< 4.8	< 0.72	< 2.0	< 2.6
RW-3	11/17/2004		1,950	87.6	< 5.0	27.6	57.4	34.7	86.6
RW-3	4/19/2005		741	16.5	< 1.0	< 1.0	5.6	3.3	4.5
RW-3	10/12/2005		8,800	360	< 120	63	210	86	258
RW-3	5/23/2006		5,820	309	102	36.3	601	70.7	462
RW-3	10/23/2006		2,320	123	< 10.0	< 10.0	66.1	34.6	85.7
RW-3	4/29/2007		2,830	220	< 20.0	< 20.0	57.2	21.5	118
RW-3	10/1/2007		5,120	348	35.9	34.1	123	55.2	185
RW-3	5/10/2008		2,000	130	< 10.0	< 40.0	38.7	19.6	54.4
RW-3	10/28/2008		4,680	244	< 20	82.4	52	22.1	108
RW-3	10/27/2010		6,540	698	< 50	< 200	464	166.2	981
RW-3	10/13/2011		4,560	449	13.8	40.5	131	125.2	625
RW-3	4/17/2012		4,760	677	< 50.0	--	89.6	169.5	625
RW-3	10/3/2012		4,670	488	309	--	< 50.0	< 50.0	327
RW-3	10/3/2013		5,280	412	1,200	--	66.3	62.1	220
RW-3	10/30/2014		4,720	364	869	53.6	45.8	51.5	81.3
RW-3	10/7/2015		4,720	498	588	75.3	78.2	128.2	529
RW-3	10/6/2016		4,560	607	455	104	180	167.6	601
RW-3	5/25/2023		8,470	589	1,220	164	157	147	443
RW-06R	4/26/2023	Duplicate	3,470	516	< 28.2	< 47.9	599	169.6	309
RW-06R	4/26/2023		3,590	540	< 28.2	< 47.9	626	181.6	306

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

RW-06R	5/25/2023		4,430	632	< 28.2	102	448	200	396
RW-06R	10/11/2023		3,910	636	< 28.2	54.1	352	169	353
RW-7	11/18/2004		< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 3.0
RW-7	4/20/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
RW-7	10/12/2005		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0
RW-7	5/23/2006		< 1.0	< 1.0	< 1.0	7.8	< 1.0	1.3	< 3.0
RW-7	10/23/2006		< 1.0	1.3	< 1.0	3.4	< 1.0	1.6	< 3.0
MW-17	9/21/1988		< 1.0	< 1.0	--	--	< 1.0	--	< 1.0
MW-17	4/27/1989		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-17	8/29/1990	Duplicate	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	--	< 1.0
MW-17	8/29/1990		< 2.0	< 2.0	--	--	< 2.0	--	< 4.0
MW-17	1/31/1991	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	--
MW-17	1/31/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 2.0
MW-17	7/10/1991	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 1.0
MW-17	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-17	1/8/1992	Duplicate	< 1.0	< 1.0	--	< 1.5	< 1.0	--	< 2.0
MW-17	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-17	10/14/1992	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-17	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-17	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-17	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-17	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-17	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	1.1	< 2.0
MW-17	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	2.7	3.7
MW-17	4/22/1996		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	10/8/1996		< 0.5	< 2.0	< 2.0	--	< 2.0	2	< 3.0
MW-17	4/29/1997		--	--	--	< 1.0	--	--	--
MW-17	11/5/1997		1.8	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	11/5/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-17	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-17	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-17	4/26/2000		< 0.15	0.653	< 0.30	--	0.523	1.12	1.858
MW-17	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-17	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-17	10/23/2001	Duplicate	< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-17	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	0.32	0.47
MW-17	4/23/2002	Duplicate	< 0.13	< 0.22	< 0.16	--	0.25	< 0.29	< 0.23
MW-17	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-17	11/7/2002	Duplicate	< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-17	11/7/2002		< 0.13	< 0.22	< 0.16	< 0.46	0.25	< 0.29	< 0.23
MW-17	4/15/2003	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/21/2003	Duplicate	< 1.0	< 1.0	< 4.0	--	< 1.0	1.2	< 3.0
MW-17	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/20/2004	Duplicate	4	1.9	< 4.0	--	3.9	1.6	4.8
MW-17	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	1.2	< 3.0
MW-17	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/29/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-17	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/25/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	4/20/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	10/17/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-17	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-17	5/7/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-17	7/30/2014		< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.0	< 1.5
MW-17	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-17	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-17	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-17	8/1/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-31	7/11/1989		3	< 2.0	--	--	< 2.0	--	< 4.0
MW-31	8/29/1990		< 2.0	5	--	--	32	--	29
MW-31	1/31/1991		< 1.0	< 1.0	< 20	--	3	--	3
MW-31	7/10/1991		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-31	1/8/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-31	10/14/1992		< 1.0	< 1.0	< 20	--	< 1.0	--	< 1.0
MW-31	6/25/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-31	10/28/1993		< 1.0	< 1.0	< 4.0	< 1.6	< 1.0	< 1.0	< 2.0
MW-31	4/27/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	10/28/1994		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	4/6/1995		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	11/15/1995		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	4/22/1996		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	10/8/1996		< 0.5	< 2.0	< 2.0	--	< 2.0	< 2.0	< 3.0
MW-31	4/29/1997		< 1.0	< 1.0	< 4.0	< 1.5	< 1.0	< 1.0	< 2.0
MW-31	11/5/1997		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	11/3/1998		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 2.0
MW-31	3/3/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 2.0
MW-31	8/17/1999		< 1.0	< 1.0	< 4.0	--	< 1.0	--	< 3.0
MW-31	4/26/2000		< 0.15	< 0.50	< 0.30	--	< 0.40	< 0.40	< 0.55
MW-31	10/10/2000		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-31	4/24/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-31	10/23/2001		< 0.13	< 0.22	< 0.16	--	< 0.20	< 0.29	< 0.23
MW-31	4/23/2002		< 0.13	< 0.22	< 0.16	< 1.1	< 0.20	< 0.29	< 0.23
MW-31	11/6/2002		< 0.13	< 0.22	< 0.16	< 0.46	< 0.20	< 0.29	< 0.23
MW-31	4/15/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/21/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	4/20/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	11/17/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/11/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	5/23/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/24/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	4/30/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/1/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	5/7/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/28/2008		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/14/2009		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-31	10/17/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MW-31	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MW-31	5/7/2013		< 1.0	< 1.0	< 2.0	< 4.0	< 1.0	< 1.0	< 3.1
MW-31	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-31	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-31	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-31	8/1/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-36D	7/26/2011		2,290	8.7	< 1.0	< 4.0	48.2	26.6	63.3
MW-36D	10/18/2011	Duplicate	844	2.3	< 1.0	--	23	15.5	36.3
MW-36D	10/18/2011		855	2.5	< 1.0	--	23.7	16.1	37.2
MW-36D	4/18/2012	Duplicate	2,240	13.9	< 1.0	--	65	49.4	101
MW-36D	4/18/2012		2,270	14	< 1.0	--	65.7	49.2	102

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-36D	10/1/2012	Duplicate	2,080	11.2	< 10.0	--	51.9	34.7	77.2
MW-36D	10/1/2012		2,070	11.1	< 10.0	--	51.7	23.2	75.8
MW-36D	5/7/2013		1,390	< 10.0	< 10.0	< 40.0	28.7	< 20.1	< 30.0
MW-36D	10/2/2013		2,040	11.3	< 7.4	--	49.7	23.5	54.9
MW-36D	5/22/2014		1,590	< 10.0	< 10.0	< 40.0	34.2	< 20.4	33.7
MW-36D	10/30/2014		1,840	9.2	< 9.7	< 8.5	34.9	< 19.6	28.2
MW-36D	5/5/2015		1,660	8.3	< 9.7	< 8.5	30.5	< 16.7	< 24.9
MW-36D	10/7/2015		1,840	< 9.8	< 12.1	< 10.6	31.1	< 20.8	< 31.2
MW-36D	5/25/2016		1,970	10.2	< 9.7	< 8.5	37.8	< 16.7	< 24.9
MW-36D	10/6/2016		1,920	9.1	< 4.8	< 4.2	35.4	< 8.4	< 12.5
MW-36D	6/14/2017		1,920	11.4	< 9.7	< 8.5	39.4	< 16.7	< 25.0
MW-36D	10/4/2017		1,740	10	4	< 2.1	33.1	3.1	7.3
MW-36D	6/27/2018		1,820	10.4	< 6.4	< 10.0	34	< 13.2	< 19.4
MW-36D	10/11/2018		1,690	11.1	< 8.0	< 12.6	37.3	< 16.8	< 24.3
MW-36D	6/6/2019		1,640	8.9	11.1	< 10.1	29.4	< 13.4	< 19.4
MW-36D	10/2/2019		1,650	10.1	7.1	< 10.1	29.1	< 13.4	< 11.1
MW-36D	5/28/2020		1,230	7.2	7.3	< 10.1	14.9	< 13.4	< 9.4
MW-36D	10/6/2020		1,600	9.1	9.1	< 5.1	23.7	< 6.7	< 6.9
MW-36D	5/26/2021		1,600	8.8	7.4	< 5.1	20.5	< 6.7	< 6.1
MW-36D	10/5/2021		1,360	7.3	3.5	< 5.1	14.1	< 6.7	< 5.1
MW-36D	6/3/2022		1,290	6.5	< 3.2	< 5.1	10.2	< 6.7	3.8
MW-36D	11/2/2022		1,250	5.5	< 3.2	< 5.1	9	< 6.7	< 4.7
MW-36D	5/24/2023		1,130	5.3	< 11.3	< 19.2	6.4	< 8.1	< 10.5
MW-36D	10/10/2023		678	3.7	< 11.3	< 19.2	< 2.9	< 8.1	< 10.5
MW-36DD	10/18/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-36DD	4/18/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-36DD	10/1/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-36DD	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-36DD	10/1/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-36DD	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-36DD	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-36DD	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-36DD	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-36DD	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-36DD	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-36DD	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-36DD	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-36DD	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-36DD	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-36DD	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-36S	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-36S	10/18/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-36S	4/18/2012		1.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-36S	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-36S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-36S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-36S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-36S	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-36S	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-37D	7/26/2011		649	5.9	< 1.0	< 4.0	17.2	< 1.0	14.6
MW-37D	10/18/2011		290	2.6	< 1.0	--	8.8	< 1.0	7
MW-37D	4/18/2012		149	1.5	< 1.0	--	4.4	< 1.0	3.7
MW-37D	10/2/2012		871	8.7	< 5.0	--	26	< 5.0	19.3
MW-37D	5/7/2013		365	< 5.0	< 5.0	< 20.0	10.5	< 10.0	< 15.0
MW-37D	10/2/2013		1,960	21.33	< 7.4	--	63.3	< 13.7	45.3
MW-37D	5/22/2014		2,230	23.9	< 5.0	< 20.0	73.1	< 10.0	48.3
MW-37D	10/30/2014		2,240	21.6	< 12.1	10.8	70.4	< 20.8	42.4
MW-37D	5/5/2015		2,800	31.7	< 12.1	< 10.6	96.8	20.8	65.8

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-37D	10/7/2015		3,090	32.1	< 19.4	< 17.0	105	< 33.3	73.7
MW-37D	5/25/2016	Duplicate	2,720	32	< 4.8	< 4.2	96.9	11.4	75
MW-37D	5/25/2016		2,990	36.3	< 4.8	< 4.2	108	13	84.4
MW-37D	10/6/2016	Duplicate	3,380	40.1	< 9.7	< 8.5	126	< 16.7	90.5
MW-37D	10/6/2016		3,020	35.2	< 12.1	< 10.6	112	< 20.8	80.3
MW-37D	6/14/2017	Duplicate	3,050	34.7	< 24.2	< 21.2	112	< 41.7	71.5
MW-37D	6/14/2017		3,020	35.4	< 24.2	< 21.2	110	< 41.7	71.5
MW-37D	10/4/2017	Duplicate	2,730	31.8	< 12.1	< 10.6	99.8	< 20.8	60.5
MW-37D	10/4/2017		2,730	31.9	< 12.1	< 10.6	101	< 20.8	61.5
MW-37D	6/27/2018	Duplicate	2,680	28.2	< 8.0	< 12.6	91	< 16.8	53.2
MW-37D	6/27/2018		2,830	31.5	< 8.0	< 12.6	98.3	< 16.8	58.5
MW-37D	10/12/2018	Duplicate	2,050	21.7	< 8.0	< 12.6	70.9	< 16.8	42.2
MW-37D	10/12/2018		2,450	27.9	< 8.0	< 12.6	84.1	< 16.8	52.5
MW-37D	6/6/2019	Duplicate	1,990	22.9	< 1.6	< 2.5	65.5	6.3	41.8
MW-37D	6/6/2019		2,310	25.8	< 8.0	< 12.6	78	< 16.8	44.8
MW-37D	10/3/2019	Duplicate	2,320	23.2	< 6.4	< 10.1	70.1	< 13.2	< 42.7
MW-37D	10/3/2019		2,380	24.7	< 8.0	< 12.6	72.1	< 16.8	< 46.2
MW-37D	5/28/2020	Duplicate	2,030	22.7	< 3.2	< 5.1	64.4	< 6.7	40.3
MW-37D	5/28/2020		2,100	23.5	< 8.0	< 12.6	67.8	< 16.8	< 44.4
MW-37D	10/7/2020	Duplicate	2,090	20.8	< 6.4	< 10.1	62.9	< 13.4	< 37.6
MW-37D	10/7/2020		2,170	23.4	< 12.8	< 20.2	74.1	< 26.8	< 48.9
MW-37D	5/27/2021		2,200	24.7	< 8.0	< 12.6	68	< 16.8	< 43.9
MW-37D	10/4/2021		2,270	23.9	< 8.0	< 12.6	69.9	< 16.8	< 40.9
MW-37D	10/5/2021	Duplicate	2,250	23.2	< 3.2	< 5.1	69.6	< 6.7	38.1
MW-37D	6/3/2022	Duplicate	2,410	25.8	< 6.4	< 10.1	71.1	< 13.4	40.8
MW-37D	6/3/2022		2,320	23.6	< 8	< 12.6	66.3	< 16.8	35.3
MW-37D	11/2/2022	Duplicate	2,200	23.3	< 6.4	< 10.1	67.3	< 13.4	34.7
MW-37D	11/2/2022		1,980	21.2	< 8.0	< 12.6	58.7	< 16.8	30.2
MW-37D	5/24/2023		1,890	17.9	< 28.2	< 47.9	53.9	< 20.1	< 26.2
MW-37D	5/25/2023	Duplicate	2,260	20.3	< 11.3	< 19.2	64	< 8.1	28.5
MW-37D	10/10/2023	Duplicate	1,640	14.1	< 22.6	< 38.3	46.9	< 16.1	< 21.0
MW-37D	10/10/2023		1,670	17	< 28.2	< 47.9	44.6	< 20.1	< 26.2
MW-37DD	10/18/2011		6.9	< 1.0	< 1.0	< 4.0	< 1.0	1.1	< 3.0
MW-37DD	4/18/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-37DD	10/1/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	1.2	< 3.0
MW-37DD	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-37DD	10/1/2013		5.3	< 0.34	< 0.37	--	< 0.34	< 1.66	< 1.0
MW-37DD	5/21/2014		26.5	< 1.0	< 1.0	< 4.0	< 1.0	1.1	< 3.0
MW-37DD	10/29/2014		109	< 0.39	< 0.48	< 0.42	< 0.39	< 1.4	< 1.2
MW-37DD	5/5/2015		263	< 0.39	< 0.48	< 0.42	< 0.39	< 1.23	< 1.2
MW-37DD	10/6/2015		461	< 1.6	< 1.9	< 1.7	< 1.6	< 3.4	< 5.0
MW-37DD	5/25/2016		667	< 2.0	< 2.4	< 2.1	< 1.9	< 4.2	< 6.2
MW-37DD	10/5/2016		932	< 1.6	< 1.9	< 1.7	< 1.6	< 3.4	< 5.0
MW-37DD	10/12/2017		1,060	< 7.9	< 9.7	< 8.5	< 7.8	< 16.7	< 25.0
MW-37DD	6/27/2018		1,260	< 3.3	< 3.2	< 5.1	< 4.9	< 6.7	< 9.8
MW-37DD	10/11/2018		1,260	< 3.3	< 3.2	< 5.1	< 4.9	< 6.7	< 9.8
MW-37DD	6/6/2019		1,050	< 3.3	< 3.3	< 5.2	< 4.9	< 6.8	< 9.9
MW-37DD	10/1/2019		1,100	< 3.3	< 3.2	< 5.1	< 1.6	< 6.7	< 4.7
MW-37DD	5/28/2020		1,140	< 3.3	< 3.2	< 5.1	< 1.6	< 6.7	< 4.7
MW-37DD	10/6/2020		1.4	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-37DD	5/26/2021		987	< 1.6	< 1.6	< 2.5	< 0.82	< 3.3	< 2.35
MW-37DD	10/5/2021		1,060	< 3.3	< 3.2	< 5.1	< 1.6	< 6.7	< 4.7
MW-37DD	6/3/2022		974	< 3.3	< 3.2	< 5.1	< 1.6	< 6.7	< 4.7
MW-37DD	11/2/2022		965	< 3.3	< 3.2	< 5.1	< 1.6	< 6.7	< 4.7
MW-37DD	5/24/2023		1,010	< 3.3	< 11.3	< 19.2	< 2.9	< 8.1	< 10.5
MW-37DD	10/10/2023		961	< 3.3	< 11.3	< 19.2	< 2.9	< 8.1	< 10.5
MW-37DDD	6/27/2018		3.9	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-37DDD	10/11/2018		2.8	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-37DDD	6/5/2019		1.8	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-37DDD	10/1/2019		2.2	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-37DDD	8/3/2022	Duplicate	0.91	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-37DDD	8/3/2022		0.86	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-37S	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-37S	10/18/2011		2.2	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MW-37S	4/18/2012		1.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-37S	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-37S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-37S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-37S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-37S	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-37S	8/3/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-38D	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-38D	10/18/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-38D	4/17/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-38D	10/1/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-38D	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-38D	10/1/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-38D	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-38D	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-38D	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-38D	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-38D	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-38D	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-38D	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-38D	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38D	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38D	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38D	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-38D	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-38DD	6/20/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38DD	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38DD	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38DD	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-38DD	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-38S	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-38S	10/18/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-38S	4/17/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-38S	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-38S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-38S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-38S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-38S	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-38S	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-38S	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-40D	10/20/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-40D	4/17/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-40D	10/1/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-40D	5/7/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-40D	10/1/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-40D	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-40D	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-40D	5/4/2015	Duplicate	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-40D	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-40D	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-40D	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-40D	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-40D	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-40D	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-40D	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-40D	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-40D	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	5/27/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	10/5/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	5/25/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	10/4/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	6/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	11/1/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-40D	5/24/2023		< 0.30	< 0.33	< 1.1	< 1.9	< 0.29	< 0.81	< 1.0
MW-40S	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-40S	10/18/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-40S	4/17/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-40S	5/7/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-40S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-40S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-40S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.3
MW-40S	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-40S	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-40S	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	7/26/2011		4.1	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-41D	10/18/2011		7.9	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-41D	4/18/2012		2.5	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-41D	10/1/2012		3.4	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-41D	5/7/2013		1.8	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-41D	10/2/2013		2.8	< 0.34	< 0.34	--	< 0.34	< 0.69	< 1.0
MW-41D	5/21/2014		1.6	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-41D	10/29/2014		1.7	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-41D	5/4/2015		3.3	< 0.39	< 0.78	< 0.42	< 0.39	< 0.84	< 1.2
MW-41D	10/6/2015		1	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-41D	5/24/2016		12.4	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-41D	10/4/2016		3	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-41D	10/4/2017		18.2	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-41D	6/20/2018		12.9	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41D	10/11/2018		28.4	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41D	6/5/2019		34.6	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41D	10/2/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	5/28/2020		8.3	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	10/5/2020		0.64	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	5/26/2021		11.2	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	10/5/2021		3.8	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	6/2/2022		18	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	11/1/2022		14.8	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41D	5/24/2023		4.5	< 0.33	< 1.1	< 1.9	< 0.29	< 0.81	< 1.0
MW-41D	10/10/2023		5	< 0.33	< 1.1	< 1.9	< 0.29	< 0.81	< 1.0
MW-41DD	6/27/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41DD	10/10/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41DD	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41DD	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41S	7/26/2011		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MW-41S	10/18/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.1
MW-41S	4/18/2012		3.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-41S	5/7/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-41S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-41S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-41S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-41S	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-41S	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-41S	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-41S	8/3/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	6/14/2012		2.1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-45D	10/1/2012		81.8	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-45D	5/6/2013		37.7	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-45D	10/2/2013		101	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MW-45D	5/21/2014	Duplicate	109	2.4	< 1.0	12.1	< 1.0	< 2.0	< 3.0
MW-45D	5/21/2014		127	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-45D	10/30/2014		120	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45D	5/5/2015		105	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45D	10/6/2015		128	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45D	5/25/2016		136	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45D	10/5/2016		129	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45D	10/4/2017		144	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-45D	6/27/2018		155	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-45D	10/11/2018		121	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-45D	6/5/2019		106	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-45D	10/2/2019		117	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	5/27/2020		77.3	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	10/6/2020		105	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	5/26/2021		94.3	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	10/4/2021		104	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	6/2/2022		135	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	11/2/2022		136	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-45D	5/24/2023		161	< 0.33	< 1.1	< 1.9	< 0.29	< 0.81	< 1.0
MW-45D	10/11/2023		223	< 0.33	< 1.1	< 1.9	< 0.29	< 0.81	< 1.0
MW-45S	6/14/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-45S	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-45S	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-45S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-45S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-45S	10/3/2017		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
MW-45S	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-45S	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-46D	6/14/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-46D	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	5.3
MW-46D	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-46D	10/1/2013		< 0.34	0.7	< 0.37	--	< 0.34	--	3.5
MW-46D	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	4.3
MW-46D	10/29/2014		< 0.40	0.47	< 0.48	< 0.42	< 0.39	< 0.84	2.4
MW-46D	5/4/2015		< 0.40	0.47	< 0.48	< 0.42	< 0.39	< 0.84	2.7
MW-46D	10/5/2015		< 0.40	0.39	< 0.48	< 0.42	< 0.39	< 0.84	2.3
MW-46D	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-46D	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	1.9
MW-46D	10/3/2017		< 0.40	0.41	< 0.48	< 0.42	< 0.39	< 0.84	2
MW-46D	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	1.5
MW-46D	10/9/2018		< 0.31	0.35	< 0.32	< 0.51	< 0.49	< 0.67	1.6
MW-46D	6/4/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-46D	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 1.45
MW-46D	5/27/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 1.25
MW-46D	10/5/2020		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 1.35
MW-46D	5/25/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 1.45
MW-46D	10/4/2021		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	1.3
MW-46D	6/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	1.3

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MW-46D	11/1/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	1.4
MW-46D	5/24/2023		< 0.30	< 0.33	< 1.1	< 1.9	< 0.29	< 0.81	< 1.0
MW-46S	6/14/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-46S	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MW-46S	5/6/2013		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-46S	5/20/2014		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 3.0
MW-46S	5/4/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-46S	5/24/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MW-46S	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-46S	10/1/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-46S	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-50D	6/20/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-50D	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-50D	6/3/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-50D	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-50D	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-51D	6/20/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-51D	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-51D	6/3/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-51D	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-51D	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-52D	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-52D	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-52D	6/3/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-52D	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-52D	8/1/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-52DD	6/19/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-52DD	10/9/2018		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-52DD	6/3/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
MW-52DD	9/30/2019		< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MW-52DD	8/1/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-9RD	10/14/2009		4,790	207	< 1.0	37.2	295	163.9	327
MWM-9RD	4/29/2010		5,520	248	< 50.0	< 200	309	129	366
MWM-9RD	10/27/2010		4,980	272	< 25.0	< 100	292	205.8	376
MWM-9RD	4/26/2011	Duplicate	5,230	300	< 50.0	< 200	299	164	373
MWM-9RD	4/26/2011		5,540	328	< 50.0	< 200	318	228.5	469
MWM-9RD	10/12/2011		3,440	44.4	< 1.0	< 4.0	153	50.1	206
MWM-9RD	4/17/2012		4,300	198	< 50.0	--	226	85.7	264
MWM-9RD	10/2/2012		4,650	270	< 25.0	--	262	190.4	356
MWM-9RD	5/8/2013		3,040	44.4	< 5.0	< 20.0	113	127.8	185
MWM-9RD	10/3/2013		3,060	202	< 14.8	--	177	140.8	248
MWM-9RD	5/22/2014		3,190	225	< 20.0	< 80.0	188	157.1	258
MWM-9RD	10/30/2014		3,350	252	< 24.2	70.4	204	195	322
MWM-9RD	5/5/2015		3,020	225	< 19.4	42	164	151.8	269
MWM-9RD	10/7/2015		2,980	215	< 24.2	34.1	152	141.8	253
MWM-9RD	5/25/2016		2,620	194	< 4.8	39.4	136	140.8	250
MWM-9RD	10/6/2016		2,750	229	< 9.7	36.3	141	140.5	399
MWM-9RD	6/14/2017		2,690	197	25.2	37.5	117	125.4	233
MWM-9RD	10/4/2017		2,470	189	46.4	50.7	103	123.7	222
MWM-9RD	6/27/2018	Duplicate	2,380	169	123	45.8	105	125.3	230.4
MWM-9RD	6/27/2018		2,470	163	116	27.5	102	112.4	209
MWM-9RD	10/12/2018	Duplicate	2,380	144	163	48.9	94.9	110.5	198
MWM-9RD	10/12/2018		2,400	149	165	48.6	101	112	208
MWM-9RD	6/6/2019	Duplicate	2,060	108	212	34.7	79	85.1	157
MWM-9RD	6/6/2019		2,140	111	224	34.4	82.9	89.1	159
MWM-9RD	10/3/2019	Duplicate	2,170	102	353	33.6	71	78.7	< 157
MWM-9RD	10/3/2019		2,090	100	341	31	71.2	79.3	< 153.8
MWM-9RD	5/28/2020		2,090	105	348	37.7	56.9	76.1	< 152.8

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MWM-9RD	10/7/2020		2,290	108	315	36	58.1	72.9	157.1
MWM-9RD	5/27/2021		2,130	95.3	368	50.9	47.1	67	< 147.8
MWM-9RD	10/5/2021		2,350	70.7	480	49.5	43.3	62.2	< 130.8
MWM-9RD	6/3/2022		2,290	57.3	460	34.5	33.8	40.4	105
MWM-9RD	11/2/2022		1,790	30.7	471	17.9	26.4	13.3	77.1
MWM-9RD	5/24/2023		2,210	35.2	514	71.2	25.9	28	75
MWM-9RD	10/11/2023		2,090	27.5	487	< 47.9	15.5	22.4	56.8
MWM-9RS	10/14/2009		< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 3.0
MWM-9RS	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-9RS	10/12/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-9RS	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-9RS	10/2/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MWM-9RS	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-9RS	10/5/2015		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-9RS	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-9RS	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-10D	4/29/2010		1,230	< 10.0	< 10.0	--	23.1	< 10.0	< 30.0
MWM-10D	10/27/2010		960	< 5.0	< 5.0	--	19.6	< 5.0	18
MWM-10D	4/26/2011		44.8	< 1.0	< 1.0	--	1	1.3	3.2
MWM-10D	10/18/2011		289	1.4	< 1.0	--	6.5	2	9.9
MWM-10D	4/17/2012		785	3.7	< 1.0	--	18.7	3.2	17
MWM-10D	10/2/2012		1,180	< 10.0	< 10.0	--	24.9	< 10.0	< 30.0
MWM-10D	5/6/2013	Duplicate	507	1.8	< 1.0	< 4.0	9.9	2.8	10.2
MWM-10D	5/6/2013		497	< 5.0	< 5.0	< 20.0	10.2	< 10.0	< 15.0
MWM-10D	10/3/2013		845	5.5	< 3.7	--	18.8	< 8.4	18.4
MWM-10D	5/21/2014		925	< 5.0	< 5.0	< 20.0	23.5	< 10.0	19.9
MWM-10D	10/30/2014	Duplicate	869	< 3.9	< 4.8	< 4.2	18.5	< 8.4	15.7
MWM-10D	10/30/2014		914	4	< 2.4	< 2.1	19.1	< 4.2	13.6
MWM-10D	5/5/2015		1,010	4.3	< 4.8	< 4.2	22.6	< 8.4	16.2
MWM-10D	10/6/2015		874	< 3.9	< 4.8	< 4.2	19	< 8.4	14.5
MWM-10D	5/25/2016		883	4.9	2.6	3.1	19.3	4.3	14.3
MWM-10D	10/5/2016		908	5.3	< 4.8	< 4.2	18.1	< 8.4	13.6
MWM-10D	6/14/2017		1,080	6.7	< 4.8	9.5	25.9	< 8.4	20.3
MWM-10D	10/4/2017		977	6.9	11.2	12.6	23.6	< 8.4	20.5
MWM-10D	6/27/2018		1,110	6.6	< 3.2	5.7	28.6	< 6.7	18.3
MWM-10D	10/11/2018		1,140	7.8	5.7	7	27.8	< 6.7	22.5
MWM-10D	6/6/2019		1,010	6.4	< 3.2	9.7	20.5	3.8	17.2
MWM-10D	10/3/2019		1,200	8.5	< 3.2	11.3	26.5	< 7.9	< 25.5
MWM-10D	5/28/2020		1,100	8.4	6.3	11.5	25.9	< 6.8	< 26
MWM-10D	10/6/2020		1,150	7.8	5.4	9.7	25	< 6.7	< 25.2
MWM-10D	5/26/2021		1,500	10.9	8.1	17.7	33.9	9	< 34.8
MWM-10D	10/5/2021		1,380	10.8	8.9	13.1	33.2	9.8	38.3
MWM-10D	6/3/2022		1,650	11.4	< 3.2	16	35.9	13.2	39.2
MWM-10D	11/2/2022		1,680	11.6	< 3.2	15.9	36.2	10.9	41.7
MWM-10D	5/24/2023		2,140	13.6	< 11.3	23.7	38.5	13.3	44.8
MWM-10D	10/11/2023		1,710	10.2	< 11.3	< 19.2	30.5	11	29.5
MWM-10S	10/27/2010		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-10S	4/26/2011		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-10S	10/18/2011		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 6.0
MWM-10S	10/2/2012		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-10S	10/1/2013		< 0.34	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MWM-10S	10/29/2014		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-10S	10/5/2015		< 0.40	< 0.39	< 0.48	0.43	< 0.39	< 0.84	< 1.2
MWM-10S	10/4/2016		< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-10S	8/2/2022		< 0.14	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
MWM-7	10/22/2003		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWM-7	4/21/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWM-7	11/18/2004		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0

TABLE 3A
GROUNDWATER ANALYTICAL DATA - TERMINAL
Superior Terminal, WI

MWM-7	4/20/2005		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	10/11/2005		0.25	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	10/25/2006		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	5/1/2007		< 1.0	< 1.0	< 4.0	--	< 1.0	< 1.0	< 3.0
MWM-7	9/29/2007		< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	5/9/2008		3.7	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	10/28/2008		6.8	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	10/12/2011		2.6	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	10/2/2012		3.6	< 1.0	< 1.0	--	< 1.0	< 1.0	< 3.0
MWM-7	10/1/2013		2.1	< 0.34	< 0.37	--	< 0.34	< 0.69	< 1.0
MWM-7	10/29/2014		0.6	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-7	10/6/2015		8.8	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-7	10/5/2016		4	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.2
MWM-7	8/3/2022	Duplicate	15.2	0.4	< 0.32	< 0.51	0.2	< 0.67	< 0.47
MWM-7	8/3/2022		16.6	0.44	< 0.32	< 0.51	0.21	< 0.67	< 0.47
MWM-7D	10/14/2009		2,340	67	< 1.0	< 4.0	96	30.3	97.2
MWM-7D	4/29/2010	Duplicate	1,870	51.6	< 20.0	--	81.9	< 20.0	71.7
MWM-7D	4/29/2010		1,860	55.1	< 10.0	--	82.4	16.5	72.4
MWM-7D	10/27/2010		2,200	84.2	< 1.0	--	122	35.1	111
MWM-7D	4/26/2011		2,180	75.9	< 20.0	--	104	22.5	113
MWM-7D	10/12/2011		667	< 1.0	< 1.0	--	3.7	4.4	38.1
MWM-7D	4/17/2012		731	18	< 1.0	--	28.3	10.7	29.1
MWM-7D	10/2/2012	Duplicate	1,430	46.9	< 5.0	--	62.3	16.8	59
MWM-7D	10/2/2012		1,600	59.2	< 1.0	--	78.6	28.9	74.7
MWM-7D	5/6/2013		1,400	38.5	< 10.0	< 40.0	53.5	18.2	52.6
MWM-7D	10/3/2013		1,210	35	< 7.4	--	43.2	< 19.5	34.9
MWM-7D	5/21/2014		1,170	33.6	< 10.0	< 40.0	38.9	< 21.7	31.1
MWM-7D	10/30/2014		1,370	34.4	< 4.8	8.2	39.3	< 13.9	35.6
MWM-7D	5/5/2015		1,630	33.7	< 9.7	< 8.5	36.7	< 16.7	30.5
MWM-7D	10/6/2015		1,890	40.2	< 12.1	< 10.6	44.3	< 20.8	39.7
MWM-7D	5/25/2016		1,760	36.3	< 2.4	< 2.1	39.8	8.3	37.2
MWM-7D	10/5/2016		1,980	42.3	< 4.8	< 4.2	45.1	< 12.0	40.2
MWM-7D	6/14/2017		2,010	45.4	< 19.4	< 17.0	43.7	< 33.3	47.2
MWM-7D	10/4/2017		1,980	46.5	< 19.4	< 17.0	42.3	< 33.3	47.8
MWM-7D	6/27/2018		2,100	46.6	< 6.4	< 10.0	41.1	< 13.2	44.9
MWM-7D	10/12/2018	Duplicate	2,290	52.8	< 8.0	< 12.6	45.6	< 16.8	53.8
MWM-7D	10/12/2018		2,250	50.4	< 6.4	< 10.1	43.5	< 13.4	48.8
MWM-7D	6/6/2019		2,110	48	< 6.4	< 10.1	42.3	< 13.4	48.9
MWM-7D	10/3/2019		2,270	50.6	< 6.4	< 10.1	43.1	< 14.2	< 55.8
MWM-7D	5/28/2020		1,950	46	< 6.4	< 10.1	38	< 13.4	< 48.5
MWM-7D	10/6/2020		2,410	53.5	< 6.4	< 10.1	44.8	< 13.4	< 47.2
MWM-7D	5/27/2021	Duplicate	2,460	28.5	< 3.2	< 5.1	74.1	< 6.7	49
MWM-7D	5/27/2021		2,710	67.8	< 6.4	< 10.1	59.5	< 16.2	< 70.2
MWM-7D	10/5/2021		2,650	65	< 6.4	< 10.1	58.7	< 16.3	< 62.9
MWM-7D	6/3/2022		2,820	66.4	< 6.4	13.2	59.7	10.7	55
MWM-7D	11/2/2022		2,860	72.4	< 6.4	< 10.1	67.7	12.8	66
MWM-7D	5/24/2023		3,130	67.9	< 22.6	40.9	67.2	20.2	59.8
MWM-7D	10/11/2023		2,990	64.3	< 22.6	< 38.3	69.7	< 16.1	48.2

Notes:

Results in bold exceed applicable action limits

NGV = No given value

< = Not detected at or above indicated laboratory reporting limit

J = Laboratory estimated concentration above adjusted method detection limit and below adjusted reporting limit

ug/L = micrograms/liter

TABLE 3B
GROUNDWATER BIOPARAMETER DATA - TERMINAL
Superior Terminal, WI

Well ID	Date	GROUNDWATER ANALYTICAL DATA									
		Conductivity uS/cm	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (su)	Temperature (Field) (deg C)	Alkalinity, Carbonate (CaCO3) (mg/L)	Iron, Dissolved (mg/L)	Manganese (mg/L)	Sulfate (mg/L)	Nitrogen, Nitrate (mg/L)
MW-1	10/12/2005	--	--	--	--	--	--	10	--	--	--
MW-3	4/15/2003	--	3.5	141	--	--	--	0.07	--	--	--
MW-3	10/21/2003	--	3.7	-107	--	--	--	--	--	--	--
MW-3	4/20/2004	--	1.24	9	--	--	--	--	--	--	--
MW-3	11/17/2004	--	1.9	67	--	--	--	0.1	--	--	--
MW-3	4/19/2005	--	1.1	-10	--	--	--	--	--	--	--
MW-3	10/12/2005	753	4.74	-89	7.42	--	--	1	--	--	--
MW-3	5/23/2006	840	3.6	-52	7.4	--	--	1	--	--	--
MW-3	10/22/2006	--	6.1	-227.1	6.87	--	--	7	--	--	--
MW-3	4/29/2007	--	1.04	-169.8	6.97	--	--	3	--	--	--
MW-3	9/29/2007	--	0.28	-59.1	7.05	--	--	5	--	--	--
MW-3	5/7/2008	--	2.94	249.4	6.32	--	--	1	--	--	--
MW-3	10/25/2008	--	2.25	101.4	6.8	--	--	2	--	--	--
MW-3	10/14/2009	--	4.51	163	7.34	--	--	--	--	--	--
MW-3	10/17/2011	969	0.89	-201	7.85	7.91	--	--	--	--	--
MW-4D	11/5/1997	400	0.7	46	7.92	6.7	--	--	--	--	--
MW-4D	11/3/1998	735	0.15	--	7.2	8.1	--	--	--	--	--
MW-4D	8/17/1999	--	2.7	--	--	6.4	--	--	--	--	--
MW-4D	4/26/2000	--	0.2	-18	--	--	--	--	--	--	--
MW-4D	10/10/2000	--	0.5	--	--	--	--	3	--	--	--
MW-4D	10/23/2001	--	0.7	39	--	--	--	0.6	--	--	--
MW-4D	4/23/2002	--	0.96	114	--	--	--	1	--	--	--
MW-4D	4/15/2003	--	0.2	-14	--	--	--	0.36	--	--	--
MW-4D	10/21/2003	--	4	-65	--	--	--	--	--	--	--
MW-4D	4/20/2004	--	1.82	104	--	--	--	--	--	--	--
MW-4D	11/17/2004	--	0.8	-90	--	--	--	1	--	--	--
MW-4D	4/19/2005	--	0.9	-80	--	--	--	--	--	--	--
MW-4D	10/12/2005	435	1.67	-264	8.72	--	--	2	--	--	--
MW-4D	5/23/2006	602	1.8	-150	7.61	--	--	1	--	--	--
MW-4D	10/22/2006	--	5.5	-313.5	8.54	--	--	2	--	--	--
MW-4D	4/29/2007	--	0.51	-226.9	8.04	--	--	2	--	--	--
MW-4D	9/29/2007	--	0.02	-206.6	8.26	--	--	1	--	--	--
MW-4D	5/7/2008	--	2.3	200.2	9.15	--	--	5	--	--	--
MW-4D	10/25/2008	--	0.66	-250.4	8.26	--	--	1	--	--	--
MW-4S	11/5/1997	700	0.9	62	7.04	6.9	--	--	--	--	--
MW-4S	11/3/1998	1,010	3.07	--	6.89	8.9	--	--	--	--	--
MW-4S	3/3/1999	--	3.25	--	--	7	--	--	--	--	--
MW-4S	4/26/2000	--	0.7	-48	--	--	--	--	--	--	--
MW-4S	10/10/2000	--	1.4	-8	--	--	--	4	--	--	--
MW-4S	4/24/2001	--	0.7	155	--	--	--	--	--	--	--
MW-4S	10/23/2001	--	4.1	-19	--	--	--	1.5	--	--	--
MW-4S	4/23/2002	--	2.3	177	--	--	--	3	--	--	--
MW-4S	4/15/2003	--	0.2	-1	--	--	--	2.55	--	--	--
MW-4S	10/21/2003	--	10.7	17	--	--	--	--	--	--	--
MW-4S	4/20/2004	--	2.19	103	--	--	--	--	--	--	--
MW-4S	11/17/2004	--	1	-77	--	--	--	4	--	--	--
MW-4S	4/19/2005	--	0.7	-85	--	--	--	--	--	--	--
MW-4S	10/12/2005	863	1.4	-149	7.26	--	--	10	--	--	--
MW-4S	5/23/2006	851	1.5	-126	7.23	--	--	1	--	--	--
MW-4S	10/22/2006	--	4	-49.8	6.81	--	--	8	--	--	--
MW-4S	4/29/2007	--	0.52	-210	6.87	--	--	10	--	--	--
MW-4S	9/25/2007	--	0.04	-66.6	7.2	--	--	10	--	--	--
MW-4S	5/7/2008	--	0.62	-32.1	6.26	--	--	10	--	--	--
MW-4S	10/25/2008	--	1.16	-52.5	6.9	--	--	10	--	--	--
MW-5	3/3/1999	--	4.5	--	--	6.9	--	--	--	--	--
MW-5	8/18/2000	--	4.1	87	--	--	--	< 1.0	--	--	--
MW-5	10/10/2000	--	3.9	158	--	--	--	0.3	--	--	--
MW-5	4/24/2001	--	2.1	139	--	--	--	--	--	--	--
MW-5	10/23/2001	--	4	88	--	--	--	0.1	--	--	--
MW-5	4/23/2002	--	2.63	105	--	--	--	0.1	--	--	--
MW-6	11/5/1997	800	1	44	7.29	7.1	--	--	--	--	--
MW-6	11/3/1998	1,040	0.73	--	6.95	7.2	--	--	--	--	--
MW-6	3/3/1999	--	2.86	--	--	5.8	--	--	--	--	--
MW-6	4/26/2000	--	2.2	42	--	--	--	--	--	--	--
MW-6	10/10/2000	--	1.2	100	--	--	--	0.2	--	--	--
MW-6	4/24/2001	--	0.6	159	--	--	--	--	--	--	--

TABLE 3B
GROUNDWATER BIOPARAMETER DATA - TERMINAL
Superior Terminal, WI

MW-6	10/23/2001	--	1.2	18	--	--	--	0.1	--	--	--
MW-6	4/23/2002	--	1.96	84	--	--	--	0.2	--	--	--
MW-6	4/15/2003	--	1.38	93	--	--	--	0.09	--	--	--
MW-6	10/21/2003	--	1	47	--	--	--	--	--	--	--
MW-6	4/20/2004	--	2.09	254	--	--	--	--	--	--	--
MW-6	11/18/2004	--	1.3	55	--	--	--	0	--	--	--
MW-6	4/19/2005	--	1	82	--	--	--	--	--	--	--
MW-7	11/5/1997	200	1.2	50	7.3	7.3	--	--	--	--	--
MW-7	11/3/1998	288	1.44	--	6.95	8.2	--	--	--	--	--
MW-7	3/3/1999	--	0.6	--	--	5.1	--	--	--	--	--
MW-7	4/26/2000	--	2.8	62	--	--	--	--	--	--	--
MW-7	10/10/2000	--	5	177	--	--	--	0.3	--	--	--
MW-7	4/24/2001	--	8	147	--	--	--	--	--	--	--
MW-7	10/23/2001	--	2.3	75	--	--	--	--	--	--	--
MW-7	4/23/2002	--	0.89	-3	--	--	--	--	--	--	--
MW-8	11/5/1997	800	1.3	57	7.19	7.1	--	--	--	--	--
MW-8	11/3/1998	930	2.98	--	--	7.7	--	--	--	--	--
MW-8	3/3/1999	--	4.53	--	--	5.3	--	--	--	--	--
MW-8	4/26/2000	--	0.2	134	--	--	--	--	--	--	--
MW-8	10/10/2000	--	1.2	132	--	--	--	0.3	--	--	--
MW-8	4/24/2001	--	3.8	209	--	--	--	--	--	--	--
MW-8	10/23/2001	--	3.7	97	--	--	--	0.1	--	--	--
MW-8	4/23/2002	--	3.53	241	--	--	--	0.2	--	--	--
MW-9	3/3/1999	--	1.98	--	--	7.2	--	--	--	--	--
MW-9	8/18/2000	--	0.7	-57	--	--	--	6	--	--	--
MW-9	10/10/2000	--	2.4	173	--	--	--	3	--	--	--
MW-9	10/21/2003	--	6.31	86	--	--	--	--	--	--	--
MW-9	4/20/2004	--	2.21	191	--	--	--	--	--	--	--
MW-9	11/18/2004	--	1	44	--	--	--	0	--	--	--
MW-9	4/19/2005	--	1.3	-10	--	--	--	--	--	--	--
MW-9	10/12/2005	920	0.94	-122	7.61	--	--	2	--	--	--
MW-9	5/23/2006	886	1.1	-118	7.58	--	--	1	--	--	--
MW-9	10/22/2006	--	10.1	-143.5	6.9	--	--	3	--	--	--
MW-9	4/29/2007	--	0.38	-132.3	7.07	--	--	5	--	--	--
MW-9	9/25/2007	--	0.06	-10.4	7.01	--	--	3	--	--	--
MW-9	5/7/2008	--	2.45	8.2	6.48	--	--	5	--	--	--
MW-9	10/25/2008	--	0.57	-19.2	7.05	--	--	10	--	--	--
MW-9	10/17/2011	1,001	2.77	-176	7.97	7.67	--	--	--	--	--
MW-10	3/3/1999	--	3.32	--	--	7.5	--	--	--	--	--
MW-10	8/18/2000	--	2.4	-96	--	--	--	10	--	--	--
MW-10	10/10/2000	--	2.1	106	--	--	--	10	--	--	--
MW-10	10/21/2003	--	1.1	-120	--	--	--	--	--	--	--
MW-10	4/20/2004	--	2.4	56	--	--	--	--	--	--	--
MW-10	11/18/2004	--	1.1	-134	--	--	--	4	--	--	--
MW-10	4/19/2005	--	1.2	-40	--	--	--	--	--	--	--
MW-10	10/12/2005	996	1.85	-90	7.66	--	--	10	--	--	--
MW-10	5/23/2006	1,015	1.9	-87	7.6	--	--	10	--	--	--
MW-10	10/22/2006	--	6.8	-98.2	7.07	--	--	10	--	--	--
MW-10	4/29/2007	--	1.14	-94.2	7.18	--	--	10	--	--	--
MW-10	10/1/2007	--	0.25	-23.6	7.16	--	--	5	--	--	--
MW-10	5/10/2008	--	0.95	-32.4	6.52	--	--	--	--	--	--
MW-10	10/28/2008	--	0.86	0.86	6.97	--	--	4	--	--	--
MW-10	10/14/2009	--	1.54	-39	7.21	--	--	--	--	--	--
MW-10	10/17/2011	895	2.67	-187	7.99	8.47	--	--	--	--	--
MW-11	3/3/1999	--	4.5	--	--	7.2	--	--	--	--	--
MW-11	8/18/2000	--	0.5	36	--	--	--	6	--	--	--
MW-11	10/10/2000	--	3.1	140	--	--	--	1	--	--	--
MW-13	8/18/2000	--	7.3	173	--	--	--	1	--	--	--
MW-15D	11/5/1997	900	1	45	7.04	7	--	--	--	--	--
MW-15D	11/3/1998	890	0.17	--	--	7.3	--	--	--	--	--
MW-15D	3/3/1999	--	3.79	--	--	6	--	--	--	--	--
MW-15D	4/26/2000	--	0.1	-14	--	--	--	--	--	--	--
MW-15D	10/10/2000	--	0.2	132	--	--	--	8	--	--	--
MW-15D	10/23/2001	--	1.2	-120	--	--	--	3	--	--	--
MW-15D	4/23/2002	--	1.35	-12	--	--	--	3	--	--	--
MW-15D	4/15/2003	--	0.2	-46	--	--	--	0.8	--	--	--
MW-15D	10/21/2003	--	0.7	-46	--	--	--	--	--	--	--
MW-15D	4/20/2004	--	1.5	64	--	--	--	--	--	--	--
MW-15D	11/18/2004	--	2	-103	--	--	--	0.6	--	--	--
MW-15D	4/19/2005	--	1.8	-80	--	--	--	--	--	--	--

TABLE 3B
GROUNDWATER BIOPARAMETER DATA - TERMINAL
Superior Terminal, WI

MW-15D	10/17/2011	822	2.62	-223	8.38	7.8	--	--	--	--	--
MW-15S	11/5/1997	800	1.3	27	7.58	7.3	--	--	--	--	--
MW-15S	11/3/1998	937	0.88	--	--	7.7	--	--	--	--	--
MW-15S	3/3/1999	--	2.8	--	--	5.8	--	--	--	--	--
MW-15S	4/26/2000	--	0.2	80	--	--	--	--	--	--	--
MW-15S	10/10/2000	--	0.1	28	--	--	--	6	--	--	--
MW-15S	10/23/2001	--	1	-2	--	--	--	1.5	--	--	--
MW-15S	4/23/2002	--	2.75	174	--	--	--	0.3	--	--	--
MW-15S	4/15/2003	--	0.3	66	--	--	--	0.73	--	--	--
MW-15S	10/21/2003	--	1.8	56	--	--	--	--	--	--	--
MW-15S	4/20/2004	--	1.63	121	--	--	--	--	--	--	--
MW-15S	11/18/2004	--	1.3	97	--	--	--	0.1	--	--	--
MW-15S	4/19/2005	--	1.5	50	--	--	--	--	--	--	--
MW-15S	10/17/2011	1,001	3.34	-254	7.97	7.89	--	--	--	--	--
MW-18	8/18/2000	--	4.5	190	--	--	--	1	--	--	--
MW-19	11/5/1997	1,009	0.5	21	7.34	7.4	--	--	--	--	--
MW-19	11/5/1998	1,200	3.23	--	6.84	7.3	--	--	--	--	--
MW-19	3/3/1999	--	3.7	--	--	7.2	--	--	--	--	--
MW-19	4/26/2000	--	0.7	-73	--	--	--	--	--	--	--
MW-19	10/10/2000	--	0.5	32	--	--	--	10	--	--	--
MW-19	4/24/2001	--	1.7	170	--	--	--	--	--	--	--
MW-19	10/23/2001	--	1.7	-118	--	--	--	7.5	--	--	--
MW-19	4/23/2002	--	1.02	-23	--	--	--	8	--	--	--
MW-19	4/15/2003	--	1.3	0	--	--	--	3.3 >	--	--	--
MW-19	10/21/2003	--	5.31	14	--	--	--	--	--	--	--
MW-19	4/20/2004	--	2.06	119	--	--	--	--	--	--	--
MW-19	11/17/2004	--	1.5	-6.3	--	--	--	2	--	--	--
MW-19	4/19/2005	--	1	8	--	--	--	--	--	--	--
MW-19R	10/12/2005	1,182	1.4	-114	7.36	--	--	10	--	--	--
MW-20	11/5/1997	762	0.9	-7	7.36	7.9	--	--	--	--	--
MW-20	11/5/1998	900	0.53	--	6.86	8	--	--	--	--	--
MW-20	3/3/1999	--	2.86	--	--	7.3	--	--	--	--	--
MW-20	4/26/2000	--	0.2	-24	--	--	--	--	--	--	--
MW-20	10/10/2000	--	0.5	30	--	--	--	10	--	--	--
MW-21	8/18/2000	--	5.6	207	--	--	--	< 1.0	--	--	--
MW-21	4/20/2004	--	6.36	167	--	--	--	--	--	--	--
MW-21	4/19/2005	--	0.8	-72	--	--	--	--	--	--	--
MW-28	11/5/1997	111	0.8	43	7.44	6.9	--	--	--	--	--
MW-28	11/3/1998	1,290	0.62	--	--	8.3	--	--	--	--	--
MW-28	3/3/1999	--	2.51	--	--	8.1	--	--	--	--	--
MW-28	4/26/2000	--	0.3	83	--	--	--	--	--	--	--
MW-28	10/10/2000	--	0.6	253	--	--	--	0.4	--	--	--
MW-28	4/24/2001	--	0.9	213	--	--	--	--	--	--	--
MW-28	10/23/2001	--	1.5	-6	--	--	--	0.2	--	--	--
MW-28	4/23/2002	--	2.67	136	--	--	--	0.3	--	--	--
MW-28	4/15/2003	--	1.3	177	--	--	--	0.13	--	--	--
MW-28	10/21/2003	--	1.7	105	--	--	--	--	--	--	--
MW-28	4/20/2004	--	3.31	270	--	--	--	--	--	--	--
MW-28	11/17/2004	--	2.7	107	--	--	--	0.1	--	--	--
MW-28	4/19/2005	--	2.1	50	--	--	--	--	--	--	--
MW-28	10/12/2005	1,174	1.8	-122	7.78	--	--	0.2	--	--	--
MW-28	5/23/2006	1,098	2.1	-100	7.72	--	--	0.2	--	--	--
MW-28	10/22/2006	--	9.9	118	7.22	--	--	0	--	--	--
MW-28	4/29/2007	--	1.59	95.2	7.13	--	--	1	--	--	--
MW-28	9/29/2007	--	0.55	51.6	7.42	--	--	1	--	--	--
MW-28	5/7/2008	--	2.06	235.9	6.86	--	--	1	--	--	--
MW-28	10/25/2008	--	3.22	153.3	7.05	--	--	0	--	--	--
MW-28	10/14/2009	--	2.28	154	7.57	--	--	--	--	--	--
MW-28	10/13/2011	1,354	2.09	37	8.06	9.35	--	--	--	--	--
MW-28	5/7/2013	1,666	1.74	359.6	6.89	9.3	--	--	--	--	--
MW-30D	11/5/1997	762	0.4	26	7.55	6.7	--	--	--	--	--
MW-30D	11/3/1998	950	0.1	--	6.96	6.5	--	--	--	--	--
MW-30D	3/3/1999	--	3.23	--	--	5.2	--	--	--	--	--
MW-30D	4/26/2000	--	0.1	29	--	--	--	--	--	--	--
MW-30D	10/10/2000	--	0.4	110	--	--	--	2	--	--	--
MW-30D	10/23/2001	--	1.2	-132	--	--	--	10 >	--	--	--
MW-30D	4/23/2002	--	1.58	17	--	--	--	1	--	--	--
MW-30D	4/15/2003	--	0.2	-110	--	--	--	3.30 >	--	--	--
MW-30D	10/21/2003	--	1.7	-148	--	--	--	--	--	--	--
MW-30D	4/21/2004	--	2.23	-22	--	--	--	--	--	--	--

TABLE 3B
GROUNDWATER BIOPARAMETER DATA - TERMINAL
Superior Terminal, WI

MW-30D	11/17/2004	--	0.9	-217	--	--	--	0.9	--	--	--	--
MW-30D	4/20/2005	--	1.5	176	--	--	--	--	--	--	--	--
MW-30D	10/18/2011	724	0.86	-157	7.96	8.03	--	--	--	--	--	--
MW-30D	4/17/2012	973	3.6	8.9	6.95	7.5	--	--	--	--	--	--
MW-30D	5/7/2013	866	0.31	91.5	7	8.5	--	--	--	--	--	--
MW-30D	6/6/2019	903	0.95	8	8.02	6.8	280	< 0.0354	2.05	< 1.0	< 0.095	--
MW-30D	10/3/2019	--	0.94	-52.8	7.42	7.3	--	--	--	--	--	--
MW-30DD	11/5/1997	500	0.5	1	7.01	8.1	--	--	--	--	--	--
MW-30DD	11/3/1998	583	1.67	--	8.55	6.3	--	--	--	--	--	--
MW-30DD	3/3/1999	--	1.86	--	--	6	--	--	--	--	--	--
MW-30DD	4/26/2000	--	0.1	32	--	--	--	--	--	--	--	--
MW-30DD	10/10/2000	--	0.2	113	--	--	--	2	--	--	--	--
MW-30DD	10/23/2001	--	1.3	126	--	--	--	2	--	--	--	--
MW-30DD	4/23/2002	--	0.64	-137	--	--	--	2	--	--	--	--
MW-30DD	4/15/2003	--	0.2	146	--	--	--	3	--	--	--	--
MW-30DD	10/21/2003	--	0.16	-153	--	--	--	--	--	--	--	--
MW-30DD	4/20/2004	--	2.94	15	--	--	--	--	--	--	--	--
MW-30DD	11/17/2004	--	0.8	-183	--	--	--	6	--	--	--	--
MW-30DD	4/20/2005	--	0.2	-1	--	--	--	--	--	--	--	--
MW-30DD	10/18/2011	735	0.64	-255	8.4	7.22	--	--	--	--	--	--
MW-30DD	4/17/2012	947	0.18	-90.7	7.65	7.3	--	--	--	--	--	--
MW-30DD	5/7/2013	871	0.07	-39.5	7.62	8.9	--	--	--	--	--	--
MW-30DD	10/2/2019	--	0.64	-160.3	8.02	7.1	--	--	--	--	--	--
MW-30DDD	10/1/2019	--	0.59	139.3	7.62	7.1	--	--	--	--	--	--
MW-30S	11/5/1997	432	0.9	28	7.52	7	--	--	--	--	--	--
MW-30S	11/3/1998	970	0.25	--	7.03	6.5	--	--	--	--	--	--
MW-30S	3/3/1999	--	3.05	--	--	6	--	--	--	--	--	--
MW-30S	8/17/1999	--	1	--	--	9.2	--	--	--	--	--	--
MW-30S	4/26/2000	--	0.3	-84	--	--	--	--	--	--	--	--
MW-30S	10/10/2000	--	0.2	99	--	--	--	0.4	--	--	--	--
MW-30S	10/23/2001	--	1	170	--	--	--	0.1	--	--	--	--
MW-30S	4/23/2002	--	1.53	63	--	--	--	0.2	--	--	--	--
MW-30S	4/15/2003	--	0.3	171	--	--	--	0.22	--	--	--	--
MW-30S	10/21/2003	--	1.94	-60	--	--	--	--	--	--	--	--
MW-30S	4/20/2004	--	1.42	120	--	--	--	--	--	--	--	--
MW-30S	11/17/2004	--	1.5	-13	--	--	--	4	--	--	--	--
MW-30S	4/20/2005	--	2	169	--	--	--	--	--	--	--	--
MW-30S	10/18/2011	593	2.36	-81	8.17	6.82	--	--	--	--	--	--
MW-30S	4/17/2012	778	3.5	52.2	7.12	7	--	--	--	--	--	--
MW-30S	5/7/2013	969	3.28	231.3	7.14	8.2	--	--	--	--	--	--
MW-30S	6/5/2019	771	1.76	220.6	7.79	6.8	300	< 0.0354	1.72	13.7 J	< 0.095	--
MW-30S	10/3/2019	--	1.01	-29.2	7.56	7.3	--	--	--	--	--	--
MW-33	11/5/1997	528	2.4	23	7.57	8	--	--	--	--	--	--
MW-33	11/3/1998	643	5.36	--	7.21	6.8	--	--	--	--	--	--
MW-33	3/3/1999	--	5.05	--	--	6.2	--	--	--	--	--	--
MW-33	8/17/1999	--	3.5	--	--	8	--	--	--	--	--	--
MW-33	4/26/2000	--	3.3	123	--	--	--	--	--	--	--	--
MW-33	10/10/2000	--	5	259	--	--	--	0.4	--	--	--	--
MW-33	4/24/2001	--	3	159	--	--	--	--	--	--	--	--
MW-33	10/23/2001	--	6.5	138	--	--	--	0.1	--	--	--	--
MW-33	4/23/2002	--	3.46	189	--	--	--	0.4	--	--	--	--
MW-33	4/15/2003	--	1.7	202	--	--	--	0.02	--	--	--	--
MW-33	10/21/2003	--	4.3	161	--	--	--	--	--	--	--	--
MW-33	4/20/2004	--	3.23	232	--	--	--	--	--	--	--	--
MW-33	11/17/2004	--	3.2	32	--	--	--	0	--	--	--	--
MW-33	4/20/2005	--	3	213	--	--	--	--	--	--	--	--
MW-33	10/11/2005	491	4.6	2.2	7.88	--	--	0.1	--	--	--	--
MW-33	10/24/2006	--	34.7	132.1	7.27	--	--	1	--	--	--	--
MW-33	4/30/2007	--	5.02	58.8	7.3	--	--	0	--	--	--	--
MW-33	9/29/2007	--	8.8	19.4	7.37	--	--	1	--	--	--	--
MW-33	5/9/2008	--	3.97	184.3	6.6	--	--	1	--	--	--	--
MW-33	10/25/2008	--	3.63	88.4	7.25	--	--	0	--	--	--	--
MW-34	11/5/1997	657	1.4	57	7.54	7.4	--	--	--	--	--	--
MW-34	11/3/1998	816	3.54	--	7.18	6.7	--	--	--	--	--	--
MW-34	3/3/1999	--	4.44	--	--	6.7	--	--	--	--	--	--
MW-34	4/26/2000	--	2	153	--	--	--	--	--	--	--	--
MW-34	10/10/2000	--	4.2	193	--	--	--	0.2	--	--	--	--
MW-34	10/24/2001	--	10.7	74	--	--	--	0.1	--	--	--	--
MW-34	4/23/2002	--	2.46	141	--	--	--	0.1	--	--	--	--
MW-34	4/15/2003	--	0.7	59	--	--	--	0	--	--	--	--

TABLE 3B
GROUNDWATER BIOPARAMETER DATA - TERMINAL
Superior Terminal, WI

MW-34	10/21/2003	--	3.6	-55	--	--	--	--	--	--	--	--
MW-34	4/20/2004	--	1.67	164	--	--	--	--	--	--	--	--
MW-34	11/17/2004	--	1.5	78	--	--	--	0.1	--	--	--	--
MW-34	4/20/2005	--	2.1	171	--	--	--	--	--	--	--	--
MW-34	10/20/2011	690	1.56	-81	8.3	7.28	--	--	--	--	--	--
MW-34	6/3/2019	790	2.12	280.8	8.59	8.59	350	< 0.0354	0.174	32.3	0.12 J	--
MW-35	11/5/1997	1,157	2.1	65	6.73	2.9	--	--	--	--	--	--
MW-35	11/3/1998	1,340	1.26	--	6.52	7.7	--	--	--	--	--	--
MW-35	3/3/1999	--	3.49	--	--	6.7	--	--	--	--	--	--
MW-35	4/26/2000	--	0.1	191	--	--	--	--	--	--	--	--
MW-35	10/10/2000	--	0.9	280	--	--	--	0.4	--	--	--	--
MW-35	4/24/2001	--	2.6	178	--	--	--	--	--	--	--	--
MW-35	10/23/2001	--	2.9	-18	--	--	--	0	--	--	--	--
MW-35	4/23/2002	--	3.73	164	--	--	--	0.3	--	--	--	--
MW-35	4/15/2003	--	0.5	191	--	--	--	0.07	--	--	--	--
MW-35	10/21/2003	--	1.6	55	--	--	--	--	--	--	--	--
MW-35	4/20/2004	--	1.68	224	--	--	--	--	--	--	--	--
MW-35	11/17/2004	--	2.3	153	--	--	--	0	--	--	--	--
MW-35	4/20/2005	--	4.2	120	--	--	--	--	--	--	--	--
MW-35	10/12/2005	1,055	3.9	-83	7.02	--	--	0.2	--	--	--	--
MW-35	5/23/2006	1,026	3.6	-66	7.4	--	--	0.1	--	--	--	--
MW-35	10/22/2006	--	33	229.4	6.6	--	--	0	--	--	--	--
MW-35	4/29/2007	--	10.52	184.5	6.73	--	--	0	--	--	--	--
MW-35	9/29/2007	--	0.15	56.5	6.73	--	--	1	--	--	--	--
MW-35	5/7/2008	--	5.15	256.4	6.32	--	--	1	--	--	--	--
MW-35	10/25/2008	--	3.95	163	6.42	--	--	1	--	--	--	--
MW-35	10/14/2009	--	2.96	166	6.96	--	--	--	--	--	--	--
MW-35	10/13/2011	1,064	1.81	56	7.76	7.88	--	--	--	--	--	--
MWT-2D	10/21/2003	--	0.6	47	--	--	--	--	--	--	--	--
MWT-2D	4/13/2004	--	4.04	177	--	--	--	--	--	--	--	--
MWT-2D	11/17/2004	--	2.4	127	--	--	--	0	--	--	--	--
MWT-2D	4/20/2005	--	0.8	231	--	--	--	--	--	--	--	--
MWT-2D	10/11/2005	828	1.35	-6.2	7.94	--	--	0.1	--	--	--	--
MWT-2D	5/1/2007	--	0.52	-116.4	7.06	--	--	0	--	--	--	--
MWT-2D	9/29/2007	--	0.16	-4.6	7.18	--	--	0	--	--	--	--
MWT-2D	5/10/2008	--	0.55	77.5	6.53	--	--	1	--	--	--	--
MWT-2D	10/28/2008	--	0.79	-36.4	6.96	--	--	0	--	--	--	--
MWT-2D	10/17/2011	922	0.65	-99	7.94	7.33	--	--	--	--	--	--
MWT-2D	4/17/2012	1,267	0.31	54.3	7.19	7.2	--	--	--	--	--	--
MWT-2D	5/7/2013	1,195	0.58	168.3	6.97	7.7	--	--	--	--	--	--
MWT-2D	6/6/2019	1,322	0.88	-92.1	8.33	7	330	< 0.0354	2.08	8.7 J	< 0.095	--
MWT-2D	10/3/2019	--	1.01	-14.1	7.22	6.7	--	--	--	--	--	--
MWT-2S	10/21/2003	--	2.4	139	--	--	--	--	--	--	--	--
MWT-2S	4/20/2004	--	2.14	193	--	--	--	--	--	--	--	--
MWT-2S	11/17/2004	--	3	140	--	--	--	0.1	--	--	--	--
MWT-2S	4/20/2005	--	2.7	209	--	--	--	--	--	--	--	--
MWT-2S	10/11/2005	617	5.63	37.5	7.85	--	--	0.1	--	--	--	--
MWT-2S	10/25/2006	--	14.8	146.2	7.16	--	--	1	--	--	--	--
MWT-2S	5/1/2007	--	4.39	80.9	7.18	--	--	1	--	--	--	--
MWT-2S	9/29/2007	--	1.95	18.1	7.36	--	--	1	--	--	--	--
MWT-2S	5/10/2008	--	1.85	248.4	6.43	--	--	1	--	--	--	--
MWT-2S	10/28/2008	--	2.27	95.9	7.04	--	--	0	--	--	--	--
MWT-2S	6/5/2019	600.1	5	248.5	7.64	6	280	< 0.0354	0.0087	31.9	0.14 J	--
MWT-2S	10/2/2019	--	3.9	71.5	7.52	7	--	--	--	--	--	--
EW-06	7/28/2011	995	0.32	-184	7.54	9.48	--	--	--	--	--	--
EW-06	10/19/2011	988	0.23	-196	7.83	9.27	--	--	--	--	--	--
EW-06	4/18/2012	1,501	0.69	-4.6	6.92	9.4	--	--	--	--	--	--
EW-07	7/28/2011	955	0.57	-214	7.66	9.95	--	--	--	--	--	--
EW-07	10/19/2011	926	0.67	-268	7.89	8.97	--	--	--	--	--	--
EW-07	4/18/2012	1,247	1.46	-54.7	7.01	8.9	--	--	--	--	--	--
EW-07	5/7/2013	1,181	0.5	-24.9	6.85	9.9	--	--	--	--	--	--
EW-08	7/28/2011	804	0.18	-201	7.58	9.11	--	--	--	--	--	--
EW-08	4/18/2012	1,187	0.86	-31.6	6.6	9.3	--	--	--	--	--	--
EW-08	5/7/2013	1,104	0.54	34.4	6.74	10	--	--	--	--	--	--
EW-09	7/28/2011	920	0.16	-198	7.52	8.04	--	--	--	--	--	--
EW-09	10/19/2011	954	0.13	-181	7.88	8.05	--	--	--	--	--	--
EW-09	4/18/2012	1,228	0.66	-21.1	7.26	7.6	--	--	--	--	--	--
EW-09	5/7/2013	1,042	0.56	75.5	7.05	8.2	--	--	--	--	--	--
EW-10	7/28/2011	1,190	2.28	-143	7.73	8.93	--	--	--	--	--	--
EW-10	10/19/2011	1,130	0.32	-162	7.99	8.45	--	--	--	--	--	--

TABLE 3B
GROUNDWATER BIOPARAMETER DATA - TERMINAL
Superior Terminal, WI

EW-10	4/18/2012	1,437	1.06	91.4	7.17	7.6	--	--	--	--	--
EW-10	5/7/2013	1,225	0.93	167.1	7	8.2	--	--	--	--	--
RW-3	4/19/2005	--	0.8	28	--	--	--	--	--	--	--
RW-3	10/13/2011	1,243	2.02	-188	7.95	9.6	--	--	--	--	--
RW-3	4/17/2012	1,530	4.23	-49.4	7.52	9.2	--	--	--	--	--
RW-7	4/20/2005	--	0.4	-40	--	--	--	--	--	--	--

EXAMPLE FOOTNOTES:

Results in bold exceed applicable action limits

NGV = No given value

< = Not detected at or above indicated laboratory reporting limit

J = Laboratory estimated concentration above adjusted method detection limit and below adjusted reporting limit

ug/L = micrograms/liter

Table 4A
Direct Contact Soil Sampling Results
 Superior Pipeline Abandonment
 Former Amoco Terminal

Sample ID	Sample Date	Sample PID	PAH Results															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
NR 720 Industrial RCL			45,200,000	NA	100,000,000	20,800	2,110	21,100	NA	211,000	2,110,000	2,110	30,100,000	30,100,000	21,100	24,100	NA	22,600,000
Sidewall 1(0-4)	10/9/2020	NA	4,630J	1,670J	1,570J	<1,120	<980	<1,200	<1,510	<1,100	<1,630	<1,190	<1,020	5,440J	<1,800	17,400	12,400	<1,270
Sidewall 2(0-4)	10/9/2020	NA	1,250J	<565	<556	<579	<509	<622	<786	<572	<845	<620	<530	1,830J	<933	4,800	3,810J	<658
Sidewall 3(0-4)	10/9/2020	NA	3,520J	<1,050	1,390J	<1,080	<949	<1,160	<1,470	<1,070	<1,570	<1,160	<988	4,240J	<1,740	8,770	10,800	<1230
Sidewall 4(0-4)	10/9/2020	NA	1,890J	<548	757J	<562	<494	<604	<763	<556	<820	<602	<515	2,380J	<906	12,800	5,640	<639
Sidewall 5(0-4)	10/9/2020	NA	8,300J	2,180J	3,280J	<1,110	<979	<1,200	<1,510	<1,100	<1,630	<1,190	<1,020	9,820	<1,800	67,400	25,900	<1,270
Sidewall 5 (3')	10/20/2020	5.6	14.2J	4.7J	23.2	73.6	81.7	92.4	70.4	33.3	114	25.3	126	16.1J	37.9	136	148	106
Sidewall 6(0-4)	10/9/2020	NA	5,160J	1,450J	1,140J	<1,140	<1,000	<1,230	<1,550	<1,130	<1,670	<1,220	<1,050	4,120J	<1,840	29,000	11,400	<1,300
Sidewall 6 (3')	10/20/2020	4.3	25.2	10.2J	60.6	116	120	143	98.4	49.8	177	41.3	228	37.3	57.4	124	302	159
Sidewall 7 (3')	10/13/2020	98.9	27.6J	<13.2	91.8J	325	398	469	325	196	455	103J	558	44.4J	225	652	383	435
Sidewall 8 (3')	10/13/2020	12.8	15.9J	6.9J	53.1	156	195	226	124	93.7	171	28.7	369	19.1J	102	26.8	133	283
Sidewall 9 (3')	10/13/2020	14.5	23.6J	13.6J	62.7J	171	185	276	162	101J	254	40.0J	317	59.9J	115	1,220	325	244
Sidewall 10 (3')	10/13/2020	177.7	<45.4	<44.1	49.7J	52.1J	<39.7	<48.5	<61.4	<44.7	<65.9	<48.4	49.9J	76.2J	<72.9	662	78.6J	404
Sidewall 11 (3')	10/15/2020	1.8	7.4J	7.4J	22.2	50.3	55.2	64.2	41.8	30.5	65.2	9.6J	109	9.7J	32.9	56.2	88.5	80.7
Sidewall 12 (3')	10/15/2020	3.2	60.9J	<18.4	132J	348	404	367	367	108J	538	146J	413	113J	156	1,260	547	432
Sidewall 13 (3')	10/19/2020	104.8	118	21.8J	117	285	312	380	211	156	366	53.0J	489	115	162	790	429	403
Sidewall 14 (3')	10/19/2020	124.6	167J	<51.2	56.3J	94.0J	83.6J	110J	83.9J	55.1J	145J	<56.2	172J	154J	<84.6	2,850	401J	171J
Sidewall 15 (3')	10/15/2020	0.6	19.7J	3.9J	47.8	167	209	248	145	101	222	42.8	309	20.6J	103	70.4	126	232
Sidewall 16 (3')	10/15/2020	1.6	87.1	11.8J	111	209	242	274	148	119	247	34.5J	507	66.9	114	114	417	392
Sidewall 17 (3')	10/15/2020	28.5	95.5J	<69.5	283J	568	575	522J	426J	200J	734	188J	872	169J	212J	3,310	872	770
Sidewall 17 (4')	10/21/2020	17.8	<2.9	<2.8	3.5J	9.3J	9.4J	18.3J	10.8J	5.9J	17.0J	4.1J	15.0J	3.1J	7.5J	48.7	24.8	12.1J
Sidewall 18 (3')	10/19/2020	5.9	68.4J	17.4J	176	343	412	463	251	231	387	57.9J	825	72.3J	223	83.9J	549	599
Sidewall 19 (3')	10/15/2020	5.9	18.7J	9.1J	11.3J	8.6J	13.9J	20.1J	37.2	8.6J	14.5J	9.4J	9.7J	23.5	27.7	35.6	90.1	14.2J
Sidewall 20 (3')	10/15/2020	0.3	4.3J	7.7J	14.8J	40.1	45.9	61.3	54.5	19.9J	63.8	18.2J	51.8	6.3J	32.8	64.7	71.2	47.2
Sidewall 21 (3')	10/15/2020	0.7	8.1J	20.7J	35.0J	63.8	79.1	106	82.3	31.4J	111	31.4J	71.4	27.1J	50.6	586	136	70.4
Sidewall 22 (3')	10/15/2020	7.6	<15.0	<14.6	22.7J	39.3J	40.9J	40.9J	48.3J	<14.8	54.6J	18.0J	23.9J	37.0J	<24.1	1,210	147	36.2J
Sidewall 23 (3')	10/15/2020	2.7	41.8	13.4J	42.8	198	351	467	406	160	280	75.8	311	35.1J	299	694	127	244
Sidewall 24 (3')	10/15/2020	0.1	<3.0	<2.9	3.0J	6.5J	5.2J	8.7J	6.2J	3.1J	11.2J	<3.2	9.6J	<2.8	<4.8	14.7J	14.8J	8.5J
Sidewall 25 (3')	10/15/2020	0.5	29.0	23.9	65.1	173	182	239	178	107	287	68.4	256	39.0	97.3	408	412	209
Sidewall 26 (3')	10/15/2020	0.1	8.7J	4.7J	20.3J	40.2	44.6	49.1	39.5	16.9J	61.1	13.1J	69.7	9.8J	21.1J	95.6	108	61.5
Sidewall 27 (3')	10/15/2020	0.2	5.5J	3.4J	20.3J	64.2	71.8	84.7	66.8	24.0	106	27.1	100	10.9J	33.2	96.9	132	86.5
Sidewall 28 (3')	10/15/2020	0.3	14.1J	8.8J	35.3	118	132	165	101	57.5	180	37.9	220	12.9J	66.7	115	182	171
Sidewall 29 (3')	10/15/2020	0.1	4.3J	<2.9	12.6J	30.6	32.0	42.1	28.3	15.6J	53.3	9.6J	58.2	6.3J	17.3J	68.4	83.6	44.8
Sidewall 30 (3')	10/19/2020	6.1	24.9	7.7J	60.1	139	176	204	108	82.1	157	29.3	330	30.5	91.2	42.4	216	235
Sidewall 31 (3')	10/19/2020	2.9	<54.9	<53.3	<52.5	104J	90.4J	115J	108J	<54.0	156J	<58.5	80.6J	92.4J	<88.1	2,160	405J	104J
Sidewall 32 (3')	10/19/2020	0.9	13.6J	19.3J	44.2	96.9	103	124	81.2	48.1	131	26.8	210	26.3	54.2	125	240	149
Sidewall 34 (3')	10/19/2020	0.2	9.3J	7.3J	22.4	61.7	68.1	85.5	53.6	30.4	85.0	15.9J	121	10.5J	34.9	94.6	125	91.6
Sidewall 36 (3')	10/19/2020	0.3	<2.9	<2.8	7.1J	15.1J	17.3J	19.7J	14.9J	7.2J	24.9	4.9J	27.4	2.8J	8.8J	26.8	31.3	23.6
Sidewall 33 (3')	10/19/2020	0.1	<2.9	<2.8	4.5J	14.1J	14.4J	15.8J	12.3J	5.3J	20.5J	4.8J	22.2J	<2.7	7.1J	20.1J	25.1	18.7J
Sidewall 35 (3')	10/19/2020	0.1	7.9J	4.4J	13.2J	39.1	39.9	50.8	36.5	17.3J	63.2	12.6J	78.4	9.1J	20.5J	89.6	94.6	58.0
Sidewall 37 (3')	10/19/2020	1.3	<3.0	<2.9	4.1J	10.6J	10.1J	13.4J	8.5J	6.2J	15.2J	<3.2	20.4J	<2.8	5.6J	11.2J	19.1J	15.7J
Sidewall 38 (3')	10/19/2020	0.8	<5.6J	<2.9	8.6J	25.3	26.3	30.9	24.3	13.1J	33.9	7.7J	41.4	4.8J	14.7J	30.6	41.1	33.0
Sidewall 39 (3')	10/19/2020	1.1	26.0J	11.5J	32.2J	106	131	145	128	48.3	168	47.3	154	25.6J	63.8	310	209	135
Sidewall 40 (4')	10/19/2020	2.3	9.3J	8.9J	19.9J	52.6	57.6	69.2	58.6	21.2	94.3	16.0J	82.2	9.7J	26.5	139	146	70.4
Sidewall 41 (3')	10/19/2020	1.2	20.8J	13.1J	62.7	236	288	280	207	121	346	98.7	336	22.6	112	172	307	305
Sidewall 42 (3')	10/19/2020	0.7	9.5J	6.9J	17.1J	59.4	69.0	95.2	56.4	35.2	85.3	19.5J	125	7.9J	44.4	159	124	97.2
Sidewall 43 (3')	10/20/2020	9.3	118	15.1J	80.8J	160	189	203	153	86.0J	227	50.5J	281	84.2J	95.1J	571	411	231
Sidewall 44 (2')	10/20/2020	17.1	9,210	<569	13,300	5,270	3,210J	4,090J	1,290J	2,070J	5,130	<625	19,300	8,560	1,180J	2,020J	32,800	13,900
Sidewall 45 (3')	10/20/2020	7.6	9.2J	3.2J	23.1	65.3	75.1	87.6	64.8	29.3	114	24.9	92.4	17.2J	36.0	170	132	81.4
Sidewall 46 (3')	10/20/2020	2.1	51.9	22.2J	33.6	21.4J	21.8J	25.9	16.3J	12.8J	29.6	5.0J	51.4	46.0	11.7J	214	146	41.4
Sidewall 47 (2')	10/20/2020	13.0	269	38.6J	394	501	372	487	161J	241	556	58.6J	1,450	253	144J	462	1,460	1,010
Sidewall 48 (3')	10/20/2020	3.1	178J	<26.6	120J	232	279	321	229	142J	343	75.6J	383	166J	156J	773	703	322
Sidewall 49 (4')	10/20/2020	26.8	6.3J	<2.8	7.3J	9.6J	9.9J	11.7J	8.3J	5.8J	13.8J	<3.0	17.0J	8.9J	5.6J	74.0	28.0	14.1J
Sidewall 50 (2')	10/28/2020	0.0	<3.1	<3.0	6.0J	10.8J	9.9J	16.8J	10.4J	4.2J	17.6J	<3.3	20.5J	<2.9	7.0J	43.0	29.0	15.1J

Table 4A
Direct Contact Soil Sampling Results
Superior Pipeline Abandonment
Former Amoco Terminal

Sample ID	Sample Date	PVOC Results						
		Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL		7,070	35,400	282,000	818,000	219,000	182,000	260,000
Sidewall 1(0-4)	10/9/2020	<100	1,130	<100	<100	12,200	3,590	2,200
Sidewall 2(0-4)	10/9/2020	130	188	<25.5	288	1,270	466	725
Sidewall 3(0-4)	10/9/2020	3,120	10,400	<266	861	68,400	19,600	28,400
Sidewall 4(0-4)	10/9/2020	<500	7,660	<500	<500	46,700	13,100	29,600
Sidewall 5(0-4)	10/9/2020	502J	6,480	<312	723J	49,600	13,700	25,700
Sidewall 5 (3')	10/20/2020	<25.3	<25.3	<25.3	<25.3	<25.3	<25.3	<75.8
Sidewall 6(0-4)	10/9/2020	303J	4,320	<200	909	31,400	8,580	15,300
Sidewall 6 (3')	10/20/2020	<30.5	<30.5	<30.5	<30.5	<30.5	<30.5	<91.5
Sidewall 7 (3')	10/13/2020	<26.3	53.6J	<26.3	92.6	173	50.0J	208J
Sidewall 8 (3')	10/13/2020	<25.0	<25.0	<25.0	<25.0	76.1	<25.0	<75.0
Sidewall 9 (3')	10/13/2020	48.7J	98.0	<25.0	229	201	111	466
Sidewall 10 (3')	10/13/2020	<25.0	<25.0	<25.0	33.8J	1,030	740	700
Sidewall 11 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 12 (3')	10/15/2020	<25.0	49.7J	<25.0	48.0J	103	38.2J	195J
Sidewall 13 (3')	10/19/2020	545	922	<25.0	212	9,990	4,370	3,840
Sidewall 14 (3')	10/19/2020	3,140	5,780	<100	926	35,900	14,100	13,200
Sidewall 15 (3')	10/15/2020	<25.0	<25.0	<25.0	41.0J	32.1J	<25.0	120J
Sidewall 16 (3')	10/15/2020	121	34.9J	<25.0	42.7J	47.6J	<25.0	<75.0
Sidewall 17 (3')	10/15/2020	7,800	516	<25.0	368	1,140	331	2,230
Sidewall 17 (4')	10/21/2020	<25.0	<25.0	<25.0	65.5J	38.9J	<25.0	<75.0
Sidewall 18 (3')	10/19/2020	1,720	157	<30.9	84.1J	610	175	831
Sidewall 19 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	46.7J	<25.0	<75.0
Sidewall 20 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 21 (3')	10/15/2020	<25.0	39.8J	<25.0	60.0J	51.8J	<25.0	114J
Sidewall 22 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	69.7J	<25.0	<75.0
Sidewall 23 (3')	10/15/2020	119J	973	<62.5	877	4,960	2,120	6,970
Sidewall 24 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 25 (3')	10/15/2020	<25.0	<25.0	<25.0	34.3J	36.5J	<25.0	<75.0
Sidewall 26 (3')	10/15/2020	<25.0	<25.0	<25.0	80.3	<25.0	<25.0	<75.0
Sidewall 27 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 28 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 29 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 30 (3')	10/19/2020	823	65.8J	<25.0	<25.0	350	134	213J
Sidewall 31 (3')	10/19/2020	110	91.0	<25.0	201	153	47.2J	272
Sidewall 32 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 34 (3')	10/19/2020	<25.0	<25.0	<25.0	34.3J	<25.0	<25.0	<75.0
Sidewall 36 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 33 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 35 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 37 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 38 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 39 (3')	10/19/2020	<30.1	<30.1	<30.1	120	161	65.5J	336
Sidewall 40 (4')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 41 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 42 (3')	10/19/2020	<26.0	<26.0	<26.0	<26.0	<26.0	<26.0	<78.1
Sidewall 43 (3')	10/20/2020	63.5J	102	<26.9	87.0	428	103	257
Sidewall 44 (2')	10/20/2020	<62.5	178J	<62.5	<62.5	2,750	<62.5	<188
Sidewall 45 (3')	10/20/2020	<25.0	<25.0	<25.0	<25.0	59.6J	<25.0	<75.0
Sidewall 46 (3')	10/20/2020	81.2J	132	<28.1	81.3J	1,260	507	585
Sidewall 47 (2')	10/20/2020	60.6J	154	<27.8	60.5J	1,800	641	804
Sidewall 48 (3')	10/20/2020	138	135	<29.4	158	1,480	546	707
Sidewall 49 (4')	10/20/2020	171	215	<25.0	653	876	284	960
Sidewall 50 (2')	10/28/2020	<11.9	<11.9	<14.7	<12.6	<14.9	<16.1	<36.1

Table 4A
Direct Contact Soil Sampling Results
Superior Pipeline Abandonment
Former Amoco Terminal

Sample ID	Sample Date	Sample PID	PAH Results																
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL			45,200,000	NA	100,000,000	20,800	2,110	21,100	NA	211,000	2,110,000	2,110	30,100,000	30,100,000	21,100	24,100	NA	22,600,000	
Trip Blank	10/9/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/12/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/13/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/19/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/19/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/20/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/20/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trip Blank	10/20/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Backfill South 1	10/12/2020	23.7	252	51.1J	70.1J	44.2J	39.8J	42.9J	37.5J	<21.9	62.6J	<23.7	52.5J	180	<35.7	842	431	105J	
Backfill North 1	10/12/2020	77.2	56.7	19.5J	24.0	23.9	21.1J	29.0	10.9J	12.1J	31.8	3.4J	73.8	59.2	8.3J	111	130	53.5	
Backfill South 2	10/13/2020	2.5	88.7J	26.0J	214	491	565	670	374	283	596	105J	1,090	106J	300	240	851	841	
Backfill 4	10/15/2020	0.8	4,500	<275	11,000	12,800	12,200	14,300	6,070	6,370	13,000	1,660J	31,700	5,150	5,520	3,780	33,200	21,700	
Backfill 6	10/15/2020	97.3	2,110J	357J	<266	319J	<244	<298	<377	<274	<405	<297	370J	1,360J	<447	8,930	2,040J	424J	
Backfill 8	10/16/2020	2.5	19.3J	8.8J	45.9	132	146	174	105	68.0	166	29.5	264	20.7J	70.1	103	231	196	
Backfill 9	10/16/2020	4.4	47.2J	52.8J	48.4J	59.2J	55.8J	84.0J	60.7J	31.6J	82.0J	19.0J	81.9J	194	44.4J	867	270	70.5J	
Backfill 10	10/16/2020	0.0	17.3J	21.9J	28.9	76.6	102	145	92.1	47.3	120	30.0	121	15.1J	64.5	195	180	90.3	
Backfill 11	10/19/2020	0.3	38.5	9.9J	15.5J	34.2	40.2	49.3	39.2	14.5J	56.3	13.4J	50.3	37.0	23.5	227	137	48.3	
Backfill 12	10/19/2020	0.4	2.8J	<2.7	8.4J	24.4	28.8	33.4	24.9	12.1J	37.6	8.2J	45.4	4.3J	14.8J	47.8	53.7	36.4	
Disposal South 1	10/12/2020	107	299J	<58.8	80.4J	63.1J	<53.0	<64.7	<81.8	<59.6	<87.9	<64.5	69.0J	223J	<97.1	1,270	595	96.5J	
Disposal North 1	10/12/2020	77.2	43.6J	11.4J	68.5	84.7	55.9	81.2	26.1J	32.3J	76.6	7.4J	268	56.5	20.0J	199	320	193	
Disposal South 2	10/19/2020	962.8	121J	<54.2	<53.4	<55.6	<48.9	<59.7	<75.5	<55.0	84.0J	<59.5	55.8J	74.8J	<89.6	11,600	273J	<63.2	
N1 (3')	10/16/2020	1.2	<3.0	<2.9	<2.9	<3.0	<2.7	<3.2	<4.1	<3.0	<4.4	<3.2	<2.8	<2.8	<4.9	5.1J	<2.7	<3.4	
N2 (3')	10/16/2020	3.6	<2.9	<2.8	7.2J	16.1J	16.9J	21.0J	15.0J	9.2J	23.0	5.5J	22.9	<2.7	10.1J	19.8J	23.4	19.4J	
N3 (3')	10/16/2020	32.8	2,220	489J	<134	<140	<123	<150	<190	<138	<204	<150	<128	1,600	<225	3,140	1,050J	<159	
N4 (3')	10/16/2020	172.2	994	164J	<53.7	<56.0	<49.2	<60.1	<76.0	<55.4	<81.7	<59.9	<51.3	539	<90.2	1,040	378J	65.5J	
N5 (3')	10/16/2020	83.9	<3.0	<2.9	3.2J	4.3J	4.0J	4.7J	4.6J	<3.0	5.9J	<3.2	5.2J	<2.8	<4.8	28.3	11.7J	4.8J	
N6 (3')	10/16/2020	3.5	<2.8	<2.8	4.1J	9.3J	9.1J	11.1J	7.1J	5.1J	12.2J	<3.0	15.2J	<2.6	5.0J	17.0J	13.1J	12.4J	
N7 (3')	10/16/2020	1.2	23.3	39.5	120	193	211	243	125	96.7	219	33.0	508	38.6	105	25.6	495	379	
N8 (3')	10/16/2020	2.9	156	33.8J	136	271	279	380	167	164	355	49.5	584	141	125	389	537	476	

Table 4A
Direct Contact Soil Sampling Results
Superior Pipeline Abandonment
Former Amoco Terminal

		PVOC Results						
Sample ID	Sample Date	Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Xylene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL		7,070	35,400	282,000	818,000	219,000	182,000	260,000
Trip Blank	10/9/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/12/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/13/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/20/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/20/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/20/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Backfill South 1	10/12/2020	<50.0	71.7J	<50.0	<50.0	498	<50.0	214J
Backfill North 1	10/12/2020	<100	799	<100	<100	6,770	1,760	4,850
Backfill South 2	10/13/2020	<25.0	<25.0	<25.0	<25.0	39.4J	<25.0	<75.0
Backfill 4	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Backfill 6	10/15/2020	579	2,160	<125	315J	13,100	4,200	4,280
Backfill 8	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Backfill 9	10/16/2020	<50.0	<50.0	<50.0	<50.0	281	620	<150
Backfill 10	10/16/2020	<25.0	<25.0	<25.0	<25.0	51.2J	<25.0	<75.0
Backfill 11	10/19/2020	<25.0	<25.0	<25.0	35.9J	55.4J	<25.0	<75.0
Backfill 12	10/19/2020	<25.0	<25.0	<25.0	53.4J	<25.0	<25.0	<75.0
Disposal South 1	10/12/2020	2,110	2,270	<62.5	936	23,600	6,450	10,200
Disposal North 1	10/12/2020	146	472	<25.0	101	2,990	848	1,160
Disposal South 2	10/19/2020	6,230	130,000	<2,000	5,400J	563,000	168,000	921,000
N1 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N2 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N3 (3')	10/16/2020	<100	<100	<100	<100	1,480	3,210	<300
N4 (3')	10/16/2020	<62.5	<62.5	<62.5	<62.5	692	1,450	<188
N5 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N6 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N7 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	35.8J	<25.0	<75.0
N8 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0

Table 4B
Direct-Push Boring 0-4 Feet Soil Sampling Results
Superior Terminal, WI

Sample ID	Sample Date	Sample PID	PAH Results															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL			45,200,000	NA	100,000,000	20,800	2,110	21,100	NA	211,000	2,110,000	2,110	30,100,000	30,100,000	21,100	24,100	NA	22,600,000
Sidewall 1(0-4)	10/9/2020	NA	4,630J	1,670J	1,570J	<1,120	<980	<1,200	<1,510	<1,100	<1,630	<1,190	<1,020	5,440J	<1,800	17,400	12,400	<1,270
Sidewall 2(0-4)	10/9/2020	NA	1,250J	<565	<556	<579	<509	<622	<786	<572	<845	<620	<530	1,830J	<933	4,800	3,810J	<658
Sidewall 3(0-4)	10/9/2020	NA	3,520J	<1,050	1,390J	<1,080	<949	<1,160	<1,470	<1,070	<1,570	<1,160	<988	4,240J	<1,740	8,770	10,800	<1230
Sidewall 4(0-4)	10/9/2020	NA	1,890J	<548	757J	<562	<494	<604	<763	<556	<820	<602	<515	2,380J	<906	12,800	5,640	<639
Sidewall 5(0-4)	10/9/2020	NA	8,300J	2,180J	3,280J	<1,110	<979	<1,200	<1,510	<1,100	<1,630	<1,190	<1,020	9,820	<1,800	67,400	25,900	<1,270
Sidewall 5 (3')	10/20/2020	5.6	14.2J	4.7J	23.2	73.6	81.7	92.4	70.4	33.3	114	25.3	126	16.1J	37.9	136	148	106
Sidewall 6(0-4)	10/9/2020	NA	5,160J	1,450J	1,140J	<1,140	<1,000	<1,230	<1,550	<1,130	<1,670	<1,220	<1,050	4,120J	<1,840	29,000	11,400	<1,300
Sidewall 6 (3')	10/20/2020	4.3	25.2	10.2J	60.6	116	120	143	98.4	49.8	177	41.3	228	37.3	57.4	124	302	159
Sidewall 7 (3')	10/13/2020	98.9	27.6J	<13.2	91.8J	325	398	469	325	196	455	103J	558	44.4J	225	652	383	435
Sidewall 8 (3')	10/13/2020	12.8	15.9J	6.9J	53.1	156	195	226	124	93.7	171	28.7	369	19.1J	102	26.8	133	283
Sidewall 9 (3')	10/13/2020	14.5	23.6J	13.6J	62.7J	171	185	276	162	101J	254	40.0J	317	59.9J	115	1,220	325	244
Sidewall 10 (3')	10/13/2020	177.7	<45.4	<44.1	49.7J	52.1J	<39.7	<48.5	<61.4	<44.7	<65.9	<48.4	49.9J	76.2J	<72.9	662	78.6J	404
Sidewall 11 (3')	10/15/2020	1.8	7.4J	7.4J	22.2	50.3	55.2	64.2	41.8	30.5	65.2	9.6J	109	9.7J	32.9	56.2	88.5	80.7
Sidewall 12 (3')	10/15/2020	3.2	60.9J	<18.4	132J	348	404	367	367	108J	538	146J	413	113J	156	1,260	547	432
Sidewall 13 (3')	10/19/2020	104.8	118	21.8J	117	285	312	380	211	156	366	53.0J	489	115	162	790	429	403
Sidewall 14 (3')	10/19/2020	124.6	167J	<51.2	56.3J	94.0J	83.6J	110J	83.9J	55.1J	145J	<56.2	172J	154J	<84.6	2,850	401J	171J
Sidewall 15 (3')	10/15/2020	0.6	19.7J	3.9J	47.8	167	209	248	145	101	222	42.8	309	20.6J	103	70.4	126	232
Sidewall 16 (3')	10/15/2020	1.6	87.1	11.8J	111	209	242	274	148	119	247	34.5J	507	66.9	114	114	417	392
Sidewall 17 (3')	10/15/2020	28.5	95.5J	<69.5	283J	568	575	522J	426J	200J	734	188J	872	169J	212J	3,310	872	770
Sidewall 17 (4')	10/21/2020	17.8	<2.9	<2.8	3.5J	9.3J	9.4J	18.3J	10.8J	5.9J	17.0J	4.1J	15.0J	3.1J	7.5J	48.7	24.8	12.1J
Sidewall 18 (3')	10/19/2020	5.9	68.4J	17.4J	176	343	412	463	251	231	387	57.9J	825	72.3J	223	83.9J	549	599
Sidewall 19 (3')	10/15/2020	5.9	18.7J	9.1J	11.3J	8.6J	13.9J	20.1J	37.2	8.6J	14.5J	9.4J	9.7J	23.5	27.7	35.6	90.1	14.2J
Sidewall 20 (3')	10/15/2020	0.3	4.3J	7.7J	14.8J	40.1	45.9	61.3	54.5	19.9J	63.8	18.2J	51.8	6.3J	32.8	64.7	71.2	47.2
Sidewall 21 (3')	10/15/2020	0.7	8.1J	20.7J	35.0J	63.8	79.1	106	82.3	31.4J	111	31.4J	71.4	27.1J	50.6	586	136	70.4
Sidewall 22 (3')	10/15/2020	7.6	<15.0	<14.6	22.7J	39.3J	40.9J	40.9J	48.3J	<14.8	54.6J	18.0J	23.9J	37.0J	<24.1	1,210	147	36.2J
Sidewall 23 (3')	10/15/2020	2.7	41.8	13.4J	42.8	198	351	467	406	160	280	75.8	311	35.1J	299	694	127	244
Sidewall 24 (3')	10/15/2020	0.1	<3.0	<2.9	3.0J	6.5J	5.2J	8.7J	6.2J	3.1J	11.2J	<3.2	9.6J	<2.8	<4.8	14.7J	14.8J	8.5J
Sidewall 25 (3')	10/15/2020	0.5	29.0	23.9	65.1	173	182	239	178	107	287	68.4	256	39.0	97.3	408	412	209
Sidewall 26 (3')	10/15/2020	0.1	8.7J	4.7J	20.3J	40.2	44.6	49.1	39.5	16.9J	61.1	13.1J	69.7	9.8J	21.1J	95.6	108	61.5
Sidewall 27 (3')	10/15/2020	0.2	5.5J	3.4J	20.3J	64.2	71.8	84.7	66.8	24.0	106	27.1	100	10.9J	33.2	96.9	132	86.5
Sidewall 28 (3')	10/15/2020	0.3	14.1J	8.8J	35.3	118	132	165	101	57.5	180	37.9	220	12.9J	66.7	115	182	171
Sidewall 29 (3')	10/15/2020	0.1	4.3J	<2.9	12.6J	30.6	32.0	42.1	28.3	15.6J	53.3	9.6J	58.2	6.3J	17.3J	68.4	83.6	44.8
Sidewall 30 (3')	10/19/2020	6.1	24.9	7.7J	60.1	139	176	204	108	82.1	157	29.3	330	30.5	91.2	42.4	216	235
Sidewall 31 (3')	10/19/2020	2.9	<54.9	<53.3	<52.5	104J	90.4J	115J	108J	<54.0	156J	<58.5	80.6J	92.4J	<88.1	2,160	405J	104J
Sidewall 32 (3')	10/19/2020	0.9	13.6J	19.3J	44.2	96.9	103	124	81.2	48.1	131	26.8	210	26.3	54.2	125	240	149
Sidewall 34 (3')	10/19/2020	0.2	9.3J	7.3J	22.4	61.7	68.1	85.5	53.6	30.4	85.0	15.9J	121	10.5J	34.9	94.6	125	91.6
Sidewall 36 (3')	10/19/2020	0.3	<2.9	<2.8	7.1J	15.1J	17.3J	19.7J	14.9J	7.2J	24.9	4.9J	27.4	2.8J	8.8J	26.8	31.3	23.6
Sidewall 33 (3')	10/19/2020	0.1	<2.9	<2.8	4.5J	14.1J	14.4J	15.8J	12.3J	5.3J	20.5J	4.8J	22.2J	<2.7	7.1J	20.1J	25.1	18.7J
Sidewall 35 (3')	10/19/2020	0.1	7.9J	4.4J	13.2J	39.1	39.9	50.8	36.5	17.3J	63.2	12.6J	78.4	9.1J	20.5J	89.6	94.6	58.0
Sidewall 37 (3')	10/19/2020	1.3	<3.0	<2.9	4.1J	10.6J	10.1J	13.4J	8.5J	6.2J	15.2J	<3.2	20.4J	<2.8	5.6J	11.2J	19.1J	15.7J
Sidewall 38 (3')	10/19/2020	0.8	<5.6J	<2.9	8.6J	25.3	26.3	30.9	24.3	13.1J	33.9	7.7J	41.4	4.8J	14.7J	30.6	41.1	33.0
Sidewall 39 (3')	10/19/2020	1.1	26.0J	11.5J	32.2J	106	131	145	128	48.3	168	47.3	154	25.6J	63.8	310	209	135
Sidewall 40 (4')	10/19/2020	2.3	9.3J	8.9J	19.9J	52.6	57.6	69.2	58.6	21.2	94.3	16.0J	82.2	9.7J	26.5	139	146	70.4
Sidewall 41 (3')	10/19/2020	1.2	20.8J	13.1J	62.7	236	288	280	207	121	346	98.7	336	22.6	112	172	307	305
Sidewall 42 (3')	10/19/2020	0.7	9.5J	6.9J	17.1J	59.4	69.0	95.2	56.4	35.2	85.3	19.5J	125	7.9J	44.4	159	124	97.2
Sidewall 43 (3')	10/20/2020	9.3	118	15.1J	80.8J	160	189	203	153	86.0J	227	50.5J	281	84.2J	95.1J	571	411	231
Sidewall 44 (2')	10/20/2020	17.1	9,210	<569	13,300	5,270	3,210J	4,090J	1,290J	2,070J	5,130	<625	19,300	8,560	1,180J	2,020J	32,800	13,900
Sidewall 45 (3')	10/20/2020	7.6	9.2J	3.2J	23.1	65.3	75.1	87.6	64.8	29.3	114	24.9	92.4	17.2J	36.0	170	132	81.4
Sidewall 46 (3')	10/20/2020	2.1	51.9	22.2J	33.6	21.4J	21.8J	25.9	16.3J	12.8J	29.6	5.0J	51.4	46.0	11.7J	214	146	41.4

Table 4B
Direct-Push Boring 0-4 Feet Soil Sampling Results
Superior Terminal, WI

Sample ID	Sample Date	PVOC Results						
		Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Xylene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL		7,070	35,400	282,000	818,000	219,000	182,000	260,000
Sidewall 1(0-4)	10/9/2020	<100	1,130	<100	<100	12,200	3,590	2,200
Sidewall 2(0-4)	10/9/2020	130	188	<25.5	288	1,270	466	725
Sidewall 3(0-4)	10/9/2020	3,120	10,400	<266	861	68,400	19,600	28,400
Sidewall 4(0-4)	10/9/2020	<500	7,660	<500	<500	46,700	13,100	29,600
Sidewall 5(0-4)	10/9/2020	502J	6,480	<312	723J	49,600	13,700	25,700
Sidewall 5 (3')	10/20/2020	<25.3	<25.3	<25.3	<25.3	<25.3	<25.3	<75.8
Sidewall 6(0-4)	10/9/2020	303J	4,320	<200	909	31,400	8,580	15,300
Sidewall 6 (3')	10/20/2020	<30.5	<30.5	<30.5	<30.5	<30.5	<30.5	<91.5
Sidewall 7 (3')	10/13/2020	<26.3	53.6J	<26.3	92.6	173	50.0J	208J
Sidewall 8 (3')	10/13/2020	<25.0	<25.0	<25.0	<25.0	76.1	<25.0	<75.0
Sidewall 9 (3')	10/13/2020	48.7J	98.0	<25.0	229	201	111	466
Sidewall 10 (3')	10/13/2020	<25.0	<25.0	<25.0	33.8J	1,030	740	700
Sidewall 11 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 12 (3')	10/15/2020	<25.0	49.7J	<25.0	48.0J	103	38.2J	195J
Sidewall 13 (3')	10/19/2020	545	922	<25.0	212	9,990	4,370	3,840
Sidewall 14 (3')	10/19/2020	3,140	5,780	<100	926	35,900	14,100	13,200
Sidewall 15 (3')	10/15/2020	<25.0	<25.0	<25.0	41.0J	32.1J	<25.0	120J
Sidewall 16 (3')	10/15/2020	121	34.9J	<25.0	42.7J	47.6J	<25.0	<75.0
Sidewall 17 (3')	10/15/2020	7,800	516	<25.0	368	1,140	331	2,230
Sidewall 17 (4')	10/21/2020	<25.0	<25.0	<25.0	65.5J	38.9J	<25.0	<75.0
Sidewall 18 (3')	10/19/2020	1,720	157	<30.9	84.1J	610	175	831
Sidewall 19 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	46.7J	<25.0	<75.0
Sidewall 20 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 21 (3')	10/15/2020	<25.0	39.8J	<25.0	60.0J	51.8J	<25.0	114J
Sidewall 22 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	69.7J	<25.0	<75.0
Sidewall 23 (3')	10/15/2020	119J	973	<62.5	877	4,960	2,120	6,970
Sidewall 24 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 25 (3')	10/15/2020	<25.0	<25.0	<25.0	34.3J	36.5J	<25.0	<75.0
Sidewall 26 (3')	10/15/2020	<25.0	<25.0	<25.0	80.3	<25.0	<25.0	<75.0
Sidewall 27 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 28 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 29 (3')	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 30 (3')	10/19/2020	823	65.8J	<25.0	<25.0	350	134	213J
Sidewall 31 (3')	10/19/2020	110	91.0	<25.0	201	153	47.2J	272
Sidewall 32 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 34 (3')	10/19/2020	<25.0	<25.0	<25.0	34.3J	<25.0	<25.0	<75.0
Sidewall 36 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 33 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 35 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 37 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 38 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 39 (3')	10/19/2020	<30.1	<30.1	<30.1	120	161	65.5J	336
Sidewall 40 (4')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 41 (3')	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Sidewall 42 (3')	10/19/2020	<26.0	<26.0	<26.0	<26.0	<26.0	<26.0	<78.1
Sidewall 43 (3')	10/20/2020	63.5J	102	<26.9	87.0	428	103	257
Sidewall 44 (2')	10/20/2020	<62.5	178J	<62.5	<62.5	2,750	<62.5	<188
Sidewall 45 (3')	10/20/2020	<25.0	<25.0	<25.0	<25.0	59.6J	<25.0	<75.0
Sidewall 46 (3')	10/20/2020	81.2J	132	<28.1	81.3J	1,260	507	585

Table 4B
Direct-Push Boring 0-4 Feet Soil Sampling Results
Superior Terminal, WI

Sample ID	Sample Date	Sample PID	PAH Results															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL			45,200,000	NA	100,000,000	20,800	2,110	21,100	NA	211,000	2,110,000	2,110	30,100,000	30,100,000	21,100	24,100	NA	22,600,000
Sidewall 47 (2')	10/20/2020	13.0	269	38.6J	394	501	372	487	161J	241	556	58.6J	1,450	253	144J	462	1,460	1,010
Sidewall 48 (3')	10/20/2020	3.1	178J	<26.6	120J	232	279	321	229	142J	343	75.6J	383	166J	156J	773	703	322
Sidewall 49 (4')	10/20/2020	26.8	6.3J	<2.8	7.3J	9.6J	9.9J	11.7J	8.3J	5.8J	13.8J	<3.0	17.0J	8.9J	5.6J	74.0	28.0	14.1J
Sidewall 50 (2')	10/28/2020	0.0	<3.1	<3.0	6.0J	10.8J	9.9J	16.8J	10.4J	4.2J	17.6J	<3.3	20.5J	<2.9	7.0J	43.0	29.0	15.1J
Trip Blank	10/9/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/12/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/13/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/19/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/19/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/20/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/20/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	10/20/2020	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Backfill South 1	10/12/2020	23.7	252	51.1J	70.1J	44.2J	39.8J	42.9J	37.5J	<21.9	62.6J	<23.7	52.5J	180	<35.7	842	431	105J
Backfill North 1	10/12/2020	77.2	56.7	19.5J	24.0	23.9	21.1J	29.0	10.9J	12.1J	31.8	3.4J	73.8	59.2	8.3J	111	130	53.5
Backfill South 2	10/13/2020	2.5	88.7J	26.0J	214	491	565	670	374	283	596	105J	1,090	106J	300	240	851	841
Backfill 4	10/15/2020	0.8	4,500	<275	11,000	12,800	12,200	14,300	6,070	6,370	13,000	1,660J	31,700	5,150	5,520	3,780	33,200	21,700
Backfill 6	10/15/2020	97.3	2,110J	357J	<266	319J	<244	<298	<377	<274	<405	<297	370J	1,360J	<447	8,930	2,040J	424J
Backfill 8	10/16/2020	2.5	19.3J	8.8J	45.9	132	146	174	105	68.0	166	29.5	264	20.7J	70.1	103	231	196
Backfill 9	10/16/2020	4.4	47.2J	52.8J	48.4J	59.2J	55.8J	84.0J	60.7J	31.6J	82.0J	19.0J	81.9J	194	44.4J	867	270	70.5J
Backfill 10	10/16/2020	0.0	17.3J	21.9J	28.9	76.6	102	145	92.1	47.3	120	30.0	121	15.1J	64.5	195	180	90.3
Backfill 11	10/19/2020	0.3	38.5	9.9J	15.5J	34.2	40.2	49.3	39.2	14.5J	56.3	13.4J	50.3	37.0	23.5	227	137	48.3
Backfill 12	10/19/2020	0.4	2.8J	<2.7	8.4J	24.4	28.8	33.4	24.9	12.1J	37.6	8.2J	45.4	4.3J	14.8J	47.8	53.7	36.4
Disposal South 1	10/12/2020	107	299J	<58.8	80.4J	63.1J	<53.0	<64.7	<81.8	<59.6	<87.9	<64.5	69.0J	223J	<97.1	1,270	595	96.5J
Disposal North 1	10/12/2020	77.2	43.6J	11.4J	68.5	84.7	55.9	81.2	26.1J	32.3J	76.6	7.4J	268	56.5	20.0J	199	320	193
Disposal South 2	10/19/2020	962.8	121J	<54.2	<53.4	<55.6	<48.9	<59.7	<75.5	<55.0	84.0J	<59.5	55.8J	74.8J	<89.6	11,600	273J	<63.2
N1 (3')	10/16/2020	1.2	<3.0	<2.9	<2.9	<3.0	<2.7	<3.2	<4.1	<3.0	<4.4	<3.2	<2.8	<2.8	<4.9	5.1J	<2.7	<3.4
N2 (3')	10/16/2020	3.6	<2.9	<2.8	7.2J	16.1J	16.9J	21.0J	15.0J	9.2J	23.0	5.5J	22.9	<2.7	10.1J	19.8J	23.4	19.4J
N3 (3')	10/16/2020	32.8	2,220	489J	<134	<140	<123	<150	<190	<138	<204	<150	<128	1,600	<225	3,140	1,050J	<159
N4 (3')	10/16/2020	172.2	994	164J	<53.7	<56.0	<49.2	<60.1	<76.0	<55.4	<81.7	<59.9	<51.3	539	<90.2	1,040	378J	65.5J
N5 (3')	10/16/2020	83.9	<3.0	<2.9	3.2J	4.3J	4.0J	4.7J	4.6J	<3.0	5.9J	<3.2	5.2J	<2.8	<4.8	28.3	11.7J	4.8J
N6 (3')	10/16/2020	3.5	<2.8	<2.8	4.1J	9.3J	9.1J	11.1J	7.1J	5.1J	12.2J	<3.0	15.2J	<2.6	5.0J	17.0J	13.1J	12.4J
N7 (3')	10/16/2020	1.2	23.3	39.5	120	193	211	243	125	96.7	219	33.0	508	38.6	105	25.6	495	379
N8 (3')	10/16/2020	2.9	156	33.8J	136	271	279	380	167	164	355	49.5	584	141	125	389	537	476

Table 4B
Direct-Push Boring 0-4 Feet Soil Sampling Results
Superior Terminal, WI

Sample ID	Sample Date	PVOC Results						
		Benzene	Ethyl- benzene	MTBE	Toluene	1,2,4- Trimethyl benzene	1,3,5- Trimethyl benzene	Xylene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Industrial RCL		7,070	35,400	282,000	818,000	219,000	182,000	260,000
Sidewall 47 (2')	10/20/2020	60.6J	154	<27.8	60.5J	1,800	641	804
Sidewall 48 (3')	10/20/2020	138	135	<29.4	158	1,480	546	707
Sidewall 49 (4')	10/20/2020	171	215	<25.0	653	876	284	960
Sidewall 50 (2')	10/28/2020	<11.9	<11.9	<14.7	<12.6	<14.9	<16.1	<36.1
Trip Blank	10/9/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/12/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/13/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/19/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/20/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/20/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Trip Blank	10/20/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Backfill South 1	10/12/2020	<50.0	71.7J	<50.0	<50.0	498	<50.0	214J
Backfill North 1	10/12/2020	<100	799	<100	<100	6,770	1,760	4,850
Backfill South 2	10/13/2020	<25.0	<25.0	<25.0	<25.0	39.4J	<25.0	<75.0
Backfill 4	10/15/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Backfill 6	10/15/2020	579	2,160	<125	315J	13,100	4,200	4,280
Backfill 8	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
Backfill 9	10/16/2020	<50.0	<50.0	<50.0	<50.0	281	620	<150
Backfill 10	10/16/2020	<25.0	<25.0	<25.0	<25.0	51.2J	<25.0	<75.0
Backfill 11	10/19/2020	<25.0	<25.0	<25.0	35.9J	55.4J	<25.0	<75.0
Backfill 12	10/19/2020	<25.0	<25.0	<25.0	53.4J	<25.0	<25.0	<75.0
Disposal South 1	10/12/2020	2,110	2,270	<62.5	936	23,600	6,450	10,200
Disposal North 1	10/12/2020	146	472	<25.0	101	2,990	848	1,160
Disposal South 2	10/19/2020	6,230	130,000	<2,000	5,400J	563,000	168,000	921,000
N1 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N2 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N3 (3')	10/16/2020	<100	<100	<100	<100	1,480	3,210	<300
N4 (3')	10/16/2020	<62.5	<62.5	<62.5	<62.5	692	1,450	<188
N5 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N6 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
N7 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	35.8J	<25.0	<75.0
N8 (3')	10/16/2020	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0

Table 4C
 Direct-Push Boring 4-8 Feet Soil Sampling Results
 Superior Terminal, WI

Sample ID	Sample Date	Sample PID	PAH Results															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Soil to Groundwater RCL			NA	NA	196,949	NA	470	478	NA	NA	144	NA	NA	14,830	NA	658	NA	54,545
4-8 feet																		
TB-1 (5-6')	10/19/2020	1028	<2.9	<2.8	<2.8	<2.9	<2.6	<3.1	<3.9	<2.9	<4.2	<3.1	<2.7	<2.7	<4.7	10.9J	<2.6	<3.3
TB-2 (7-8')	10/19/2020	1886	<2.9	<2.8	<2.8	<2.9	<2.6	<3.1	<4.0	<2.9	<4.3	<3.1	<2.7	<2.7	<4.7	274	<2.6	<3.3
TB-3 (5-6')	10/19/2020	>15,000	28.0	8.4J	<2.7	<2.8	2.6J	<3.0	<3.8	<2.8	<4.1	<3.0	<2.6	8.9J	<4.5	6,160	11.5J	<3.2
TB-4 (6-7')	10/19/2020	10,955	3.4J	<2.9	<2.8	<2.9	<2.6	<3.1	<4.0	<2.9	<4.3	<3.1	<2.7	4.1J	<4.7	161	6.4J	<3.3
TB-5 (5-6')	10/19/2020	>15,000	<26.2	<25.5	<25.1	<26.1	<23.0	<28.1	<35.5	<25.8	<38.1	<28.0	<23.9	<24.2	<42.1	1,510	<23.1	<29.7
TB-6 (5-6')	10/19/2020	>15,000	<2.7	<2.6	<2.6	<2.7	<2.4	<2.9	<3.6	<2.6	<3.9	<2.9	<2.4	<2.5	<4.3	220	<2.4	<3.0
TB-8 (6-7')	10/20/2020	3,235	13.3J	4.6J	<2.8	<3.0	<2.6	<3.2	<4.0	<2.9	<4.3	<3.2	<2.7	3.4J	<4.8	426	<2.6	<3.4
TB-9 (5-6')	10/20/2020	>15,000	<3.2	<3.1	<3.0	<3.1	<2.8	<3.4	<4.3	<3.1	<4.6	<3.4	<2.9	<2.9	<5.1	199	<2.8	<3.6
TB-11 (5-6')	10/20/2020	>15,000	<28.2	<27.5	<27.0	<28.1	<24.7	<30.2	<38.2	<27.8	<41.1	<30.1	<25.8	<26.1	<45.4	1,760	<24.9	<32.0
TB-12 (7-8')	10/20/2020	1,386	125	20.5	<2.4	3.8J	3.5J	4.8J	<3.4	<2.5	<3.7	<2.7	6.8J	22.7	<4.1	331	41.6	7.3J
TB-14 (6-7')	10/19/2020	242.8	<2.7	<2.7	<2.6	<2.7	<2.4	<2.9	<3.7	<2.7	<4.0	<2.9	<2.5	<2.5	<4.4	<2.1	<2.4	<3.1
TB-15 (5-6')	10/19/2020	841.8	25.7	26.0	<2.8	<2.9	<2.5	<3.1	<3.9	<2.9	<4.2	<3.1	<2.6	6.0J	<4.6	65.4	<2.6	<3.3
TB-17 (6-7')	10/20/2020	>15,000	<2.8	<2.7	<2.7	<2.8	<2.5	<3.0	<3.8	<2.8	<4.1	<3.0	<2.6	<2.6	<4.5	973	<2.5	<3.2

Table 4C
 Direct-Push Boring 4-8 Feet Soil Sampling Results
 Superior Terminal, WI

		PVOC Results						
Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Xylene	MTBE	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
NR 720 Soil to Groundwater RCL		5.1	1,107	1,570	3,960	27	1378 (combined)	
4-8 feet								
TB-1 (5-6')	10/19/2020	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<25.0
TB-2 (7-8')	10/19/2020	1,410	2,430	723	3,180	<25.0	963	321
TB-3 (5-6')	10/19/2020	3,620	19,600	17,400	66,800	<200	33,500	12,300
TB-4 (6-7')	10/19/2020	156	263	371	1,070	<25.0	1,590	678
TB-5 (5-6')	10/19/2020	3,420	7,300	4,240	24,400	<200	10,300	3,520
TB-6 (5-6')	10/19/2020	15,400	55,500	19,500	82,400	<1,000	30,300	10,000
TB-8 (6-7')	10/20/2020	840	1,270	1,980	5,430	<50.0	4,290	1,500
TB-9 (5-6')	10/20/2020	1,820	7,540	5,110	14,600	<100	8,620	2,980
TB-11 (5-6')	10/20/2020	2,970	10,900	13,000	45,400	<500	19,400	6,900
TB-12 (7-8')	10/20/2020	<50.0	<50.0	168	1,430	<50.0	957	944
TB-14 (6-7')	10/19/2020	<25.0	<25.0	<25.0	<75.0	<25.0	<25.0	<25.0
TB-15 (5-6')	10/19/2020	<50.0	<50.0	175	<150	<50.0	151J	80.9J
TB-17 (6-7')	10/20/2020	977	2,580	1,490	6,540	<25.0	2,150	699

Table 5
Shallow Soil Analytical Results
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Depth	Date Collected	Sample Location	Industrial Not-To-Exceed Direct Contact RCL																														
				Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylene (Total) (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Methyl-tert-butyl ether (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Lead (mg/kg)	Acenaphthene (ug/kg)	Acenaphthylene (ug/kg)	Anthracene (ug/kg)	Benzo (a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluoranthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenz (a,h) anthracene (ug/kg)	Fluoranthene (ug/kg)	Fluorene (ug/kg)	Indeno (1,2,3-cd) pyrene (ug/kg)	Naphthalene (ug/kg)	Phenanthrene (ug/kg)	Pyrene (ug/kg)					
LRMW-1	2-4	1/23/2001	Barge Dock-Manifold	7.41	37	818	258	219	182	293	NS	NS	800	33,000,000	10,000,000	2,110	211	2,110	21,100	211,000	211	22,000,000	22,000,000	2,110	26,000	16,500,000								
LRMW-1 East A	3-4	7/29/2014	Barge Dock-Manifold	7.61	43.2	1.36J	80.9	129	40.9	<0.5	NA	NA	NA	<1040	<932	<1080	<722	<745	<1040	<794	<1150	<963	<764	<1040	<1040	<792	15900	<1040	NA	NA	NA			
LRMW-1 East B	3-4	7/29/2014	Barge Dock-Manifold	<0.025	0.0551J	0.0605J	0.275J	0.0826	<0.025	NA	NA	NA	NA	<15.6	<11.2	<15.6	<11.2	<11.2	<15.6	<17.3	<16.1J	<11.4	<16.2J	<15.6	<11.9	58	21.3J	15.8J						
LRMW-1 South A	3-4	7/29/2014	Barge Dock-Manifold	2.01	3.21	0.477	8.89	14.1	7.75	<0.05	NA	NA	NA	12.8J	<9.1	<10.5	<7.0	<7.3	<10.1	<7.7	<11.2	<9.4	<10.1	21.1	<7.7	387	56.7	<10.1						
LRMW-1 West A	3-4	7/29/2014	Barge Dock-Manifold	0.0832	0.0434J	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.9	<9.7	<11.3	<7.5	<7.8	<10.9	<8.3	<12.0	<10.1	<8.0	<10.9	<8.3	<10.9	<10.9	<10.9						
LRMW-1 North A	3-4	7/29/2014	Barge Dock-Manifold	3.39	8.04	0.766	26.5	22.8	10.8	<0.05	NA	NA	NA	<9.8	<8.7	<10.1	<6.8	<7.0	<9.8	<7.4	<10.8	<9.0	<7.2	<9.8	10.0J	<7.4	230	10.6J	<9.8					
LRMW-2	0-2	1/23/2001	Barge Dock-Manifold	2.4	10.2	4.07	15.6	38.3	20.4	<1.44	2280	11400	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
BDGP-1	2-4	11/6/2001	Barge Dock-Loading Rack	<0.374	7.34	<0.374	<2.400	4.79	1.41	<0.374	1150	3290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
BDGP-3	0-2	11/6/2001	Barge Dock-O/W	1.26	<0.870	2.86	33.2	81.2	53.8	<0.572	2630	11200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
BDGP-4	2-4	11/6/2001	Barge Dock-Loading Rack	<0.726	26.4	<0.726	26.4	21.1	6.99	<0.726	3560	4620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
BDGP-5	2-4	11/6/2001	Barge Dock-Loading Rack	<0.032	<0.032	<0.032	<0.097	<0.032	<0.032	<0.032	<6.5	<6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
BDGP-17	2-3	11/6/2001	Barge Dock-O/W	<0.032	<0.032	<0.032	<0.095	<0.032	<0.032	<6.3	<6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
TWBD-1	2-3	10/5/2002	Barge Dock-O/W	<0.031	<0.031	<0.031	<0.092	<0.031	<0.031	<6.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
TWBD-2	2-3	10/5/2002	C Reiss Coal-West Parcel	<0.031	<0.031	<0.031	<0.094	<0.031	<0.031	<6.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
TWBD-4	2-3	10/5/2002	Barge Dock-O/W	<0.033	<0.033	<0.033	<0.098	0.052	<0.033	<6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SS-1	3.5	11/20/2003	Terminal-N of Remed Shed	54	110	210	460	170	61	<2.7	320	3500	15.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SS-2	3	11/20/2003	Terminal-S of Remed Shed	4.5	10	6.9	39	29	9.8	<0.062	14000	2200	14.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-3	3	11/20/2003	Terminal-E of Remed Shed	0.045J	0.076	0.25	0.44	0.18	0.051J	<0.061	160	<6.3	153	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-4	4	11/20/2003	Terminal-Manifold E Wall	24	60	7	310	190	91	<1.2	21000	4600	77.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-1	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	38.8	<3.7	<3.6	11	44	42	33	25	31	49	11	57	<4.3	19	24	41	57					
B-2	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	7.2	<3.7	<3.6	<4.5	<6.7	<3.6	<3.5	<4.5	<5.5	<3.5	<3.6	<4.3	<3.2	<5.1	<3.7	<3.1						
B-3	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	8.3	<3.8	<3.7	<4.5	7.2	6.7	6.9	5	5.7	8.9	<3.5	10	<4.3	3.9	<5.1	10	9.2					
B-4	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	13.3	<4.6	<3.7	8.7	25	24	27	14	19	44	<6.1	53	<3.7	18	15	56	45					
B-5	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	7.6	<4.0	<3.9	<4.8	<7.2	<3.9	<3.8	<4.8	<4.2	<5.9	<3.7	<3.9	<4.6	<3.4	<5.5	<4.0	<3.3					
B-6	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	37.7	<3.9	<3.7	<4.6	25	22	15	19	9.5	39	8.8	15	<4.4	8.6	<5.7	21	21					
B-7	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	8.2	<3.7	<3.6	<4.6	<6.8	<3.7	<3.6	<4.6	<3.9	<5.6	<3.5	<3.7	<4.4	<3.2	<5.1	<3.8	<3.1					
B-8	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	7.5	<3.7	<3.8	<4.7	<7.0	<3.8	<3.7	<4.7	<4.0	<5.8	<3.6	<3.8	<4.5	<3.3	<5.3	<3.9	<3.2					
B-9	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	8	<3.9	<3.9	<4.8	<7.2	<3.9	<3.8	<4.8	<4.2	<5.9	<3.7	<3.9	<4.6	<3.4	<5.5	<4.0	<3.3					
B-10	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	7.4	<4.0	<3.9	<4.8	<7.2	<3.9	<3.8	<4.8	<4.2	<5.9	<3.7	<3.9	<4.6	<3.4	<5.4	<4.0	<3.3					
B-11	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	9	<4.0	<3.5	<4.4	<6.5	<3.5	<3.5	<4.4	<3.8	<5.4	<3.4	<3.5	<4.2	<3.1	<4.9	<3.6	<3.0					
B-12	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	6.7	<4.7	<4.5	<6.7	<3.6	<3.6	<4.5	<3.7	<4.5	<5.5	<3.5	<3.7	<4.3	<3.2	<5.1	<3.7	<3.1					
B-13	2	2/21/2006	FedEx	<0.025	54	<0.025	190	<0.025	200	<0.025	NA	NA	8.3	<3.8	<3.8	<4.6	<6.9	<3.7	<3.7	<4.6	<4.0	<5.7	<3.6	5.8	5.2	<3.3	96	14	4.2					
B-14	2	2/21/2006	FedEx	85	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	6.2	<3.9	<3.6	<4.5	<6.6	<3.6	<3.5	<4.5	<3.8	<5.5	<3.5	<3.6	<4.3	<3.2	16	<3.7	<3.1					
B-15	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	8.4	<3.7	<3.7	<4.6	<6.8	<3.7	<3.6	<4.6	<3.9	<5.6	<3.5	<3.7	<4.4	<3.2	<5.2	<3.8	<3.2					
B-16	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	7.7	<3.8	<3.6	<4.5	<6.7	4.1	4.7	<4.5	<3.9	<5.5	<3.5	<3.6	<4.3	3.3	<5.1	<3.7	<3.1					
B-17	2	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	7.6	<3.7	<3.6	<4.5	<6.6	<3.6	<3.5	<4.5	<3.8	<5.5	<3.4	<3.6	<4.3	<3.1	<5.0	<3.7	<3.1					
B-17	4	2/21/2006	FedEx	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	6.2	<3.7	<3.6	<4.4	<6.6	<3																

Table 5
Shallow Soil Analytical Results
 Former Amoco Terminal
 Superior, Wisconsin

Sample ID	Depth	Date Collected	Sample Location	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylene (Total) (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Methyl-tert-butyl ether (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Lead (mg/kg)	Acenaphthene (ug/kg)	Acenaphthylene (ug/kg)	Anthracene (ug/kg)	Benzo (a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluoranthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenz (a,h) anthracene (ug/kg)	Fluoranthene (ug/kg)	Fluorene (ug/kg)	Indeno (1,2,3-cd) pyrene (ug/kg)	Naphthalene (ug/kg)	Phenanthrene (ug/kg)	Pyrene (ug/kg)	
			Industrial Not-To-Exceed Direct Contact RCL	7.41	37	818	258	219	182	293	NS	NS	800	33,000,000		10,000,000	2,110	211	2,110		21,100	211,000	211	22,000,000	22,000,000	2,110	26,000		16,500,000	
GP-111 North F	3-4	7/29/2014	Barge Dock-Loading Rack	19.7	37	3.93	101	73.7	22.7	<0.2	NA	NA	NA	799J	<398	<461	<308	<318	<444	<338	<411	<326	<444	1120	<338	23900	1350	<444		
GP-111 North G	3-4	8/21/2014	Barge Dock-Loading Rack	5.89	8.61	1.89	49.9	62.2	20.8	<0.5	NA	NA	NA	<1820	<1630	<1890	<1260	<1300	<1820	<1390	<2010	<1680	<1330	<1820	<1380	17400	<1820	<1820		
GP-111 North H	3-4	8/21/2014	Barge Dock-Loading Rack	2.22	8.87	1.66	45	46.6	16.8	<0.25	NA	NA	NA	338J	197J	<219	<146	<151	<211	<234	<195	<234	<195	<155	463	<160	8700	391J	<211	
GP-115	4	9/20/2011	Barge Dock-O/W	0.57	1.3	0.55	3.2	5.7	3	<1.4	294	6990	36.1	1200	<587	<587	<587	<587	<587	<587	<587	<587	<587	<587	1620	<587	1090	4150	<587	
GP-115 Center	3-4	7/28/2014	Barge Dock-O/W	<0.025	<0.025	<0.025	<0.075	0.0365J	<0.025	<0.025	NA	NA	NA	40.5	<9.7	127	289	286	271	238	250	378	82.8	586	47.1	171	347	613	445	
GP-115 East A	3-4	8/21/2014	Barge Dock-O/W	0.211	0.191	0.275	0.643	0.416	0.972	<0.025	NA	NA	NA	<103	<92.6	<107	<71.7	<74	<103	<78.8	<114	<95.6	<75.9	<103	<103	<78.6	2720	190J	<130	
GP-115 South A	3-4	8/21/2014	Barge Dock-O/W	<0.025	<0.025	<0.025	<0.075	0.043J	<0.025	<0.025	NA	NA	NA	<22.3	<20.0	<23.2	<15.5	<16.0	<22.3	<17.0	<24.7	<20.6	<16.4	<22.3	<22.3	<17.0	115	27.5J	<22.3	
GP-115 West A	3-4	8/21/2014	Barge Dock-O/W	0.164	<0.025	<0.025	<0.075	0.0621J	<0.025	<0.025	NA	NA	NA	<10.3	<9.2	<10.7	<7.2	<7.4	<10.3	<7.9	<11.4	<9.6	<7.6	<10.3	<10.3	<7.9	22.7	<10.3	<10.3	
GP-115 North A	3-4	8/21/2014	Barge Dock-O/W	0.0636J	0.111	0.145	0.448	0.166	<0.025	<0.025	NA	NA	NA	<153	<137	<158	110J	150J	<153	180J	<169	211J	115J	<153	<153	116J	5980	554	155J	
GP-116	4	9/20/2011	Barge Dock-O/W	4.2	5.2	5	14.3	27.9	9.8	<17.0	2080	13000	41.2	5060	<2760	3460	<2760	<2760	<2760	<2760	<2760	<2760	<2760	11300	<2760	12600	23900	2820		
GP-116 East A	3-4	7/28/2014	Barge Dock-O/W	2.36	0.398	0.226J	<2.78	6.72	0.947	<0.1	NA	NA	NA	<112	<99.9	<116	<77.4	<79.9	<112	<85.1	<124	<103	<81.9	<112	<112	<84.8	1360	230	<112	
GP-116 South A	3-4	7/29/2014	Barge Dock-O/W	3.62	1.71	2.85	5.24	19	3.54	<0.312	NA	NA	NA	2480	<780	1150J	763J	656J	<872	<664	<965	835J	<640	1390J	4140	<662	2730	7830	1510J	
GP-116 South B	3-4	7/28/2014	Barge Dock-O/W	0.201	0.447	0.167	0.643	11.2	4.09	<0.05	NA	NA	NA	<207	<185	<214	<143	<148	<207	223J	<229	<191	<152	<207	237J	<157	2200	577	<207	
GP-116 West A	3-4	7/28/2014	Barge Dock-O/W	0.619	0.172	0.0621J	<0.638	3.94	1.03	<0.025	NA	NA	NA	<83.2	<74.4	<86.2	<57.7	<59.5	<83.2	<63.4	<92.0	<76.9	<61.0	<83.2	121J	<63.2	820	176	<83.2	
GP-116 North A	3-4	7/28/2014	Barge Dock-O/W	5.53	1.12	0.841J	<3.302	27.2	3.03	<0.312	NA	NA	NA	1880J	<1640	<1900	<1270	<1310	<1840	<1400	<2030	<1700	<1350	2910J	<1400	13900	6970	<1840		
GP-116 North B	3-4	7/28/2014	Barge Dock-O/W	11.1	6.91	14.7	10.2	60.4	8.12	<0.2	NA	NA	NA	<4720	<4220	<4890	<3270	<3370	<4720	<3590	<5220	<4360	<3460	<4720	<4720	<3580	82500	5070J	<4720	
GP-116 North C	3-4	7/28/2014	Barge Dock-O/W	2.4	0.387	0.361	0.848	2.16	0.219	<0.025	NA	NA	NA	<103	<92.1	<107	<71.3	<73.6	<103	<78.4	<114	<95.2	<75.5	<103	<103	<78.2	623	117J	<103	
GP-117	4	9/20/2011	Barge Dock-O/W	0.7	4.8	2.9	9.3	9.6	4.5	<6.6	1300	1170	30.9	292	178	<135	<135	<135	155	<135	<135	143	<135	162	277	<135	500	380	151	
GP-118	4	9/22/2011	Barge Dock-O/W	1.1	0.83	2	3.2	1.7	0.72	<0.67	121	1530	37.9	<1430	<1430	<1430	<1430	<1430	<1430	<1430	<1430	<1430	<1430	<1430	<1430	<1430	12800	<1430	<1430	
GP-118 East A	3-4	7/28/2014	Barge Dock-O/W	0.294	0.222	0.46	0.776	1.46	0.226	<0.05	NA	NA	NA	189	<82.7	101J	130J	141J	160J	107J	118J	19J	<67.8	200	275	89.1J	1590	562	194	
GP-118 South A	3-4	7/28/2014	Barge Dock-O/W	0.262	0.258	0.18	0.692	120	0.712	<0.05	NA	NA	NA	<240	<215	<249	<166	<172	<240	<183	<266	<222	<176	<240	<240	<182	2220	<240	<240	
GP-118 West A	3-4	7/28/2014	Barge Dock-O/W	1.33	0.537	0.771	1.08	0.93	0.111J	<0.05	NA	NA	NA	280	<94.2	160J	253	213	637	222	154J	223	397	<77.2	637	339	125J	3860	420	570
GP-118 West B	3-4	7/28/2014	Barge Dock-O/W	0.0582J	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10	<8.9	<10.4	<6.9	<7.1	<10	<7.6	<11.1	<9.2	<7.3	<10	<10	<7.6	<10	<10	<10	
GP-118 North A	3-4	7/28/2014	Barge Dock-O/W	0.633	1.82	1.37	4.27	32.7	5.28	<0.125	NA	NA	NA	826J	<393	<455	449J	429J	472J	349J	486	725J	<322	634J	1260	<334	8800	1530	718J	
GP-118 North B	3-4	7/28/2014	Barge Dock-O/W	1.00	1.51	1.39	3.35	15.1	1.99	<0.125	NA	NA	NA	585	199J	349J	566	496	463	363J	382J	778	<155	1100	564	264J	8190	1450	1050	
GP-118 North C	3-4	7/28/2014	Barge Dock-O/W	3.79	4.04	5.31	8.94	39.4	6.7	<0.312	NA	NA	NA	246J	<192	<223	<149	165J	<215	<164	<238	251J	<158	<215	261J	<163	8080	508	237J	
GP-119	4	9/22/2011	Barge Dock-Loading Rack	<2.8	13.2	4.4	51.1	66.1	44	<14.0	3540	4890	12.1	<469	<469	<469	<469	<469	<469	<469	<469	<469	<469	<469	<469	<469	<469	8680	<469	<469
GP-119 Center	3-4	7/28/2014	Barge Dock-Loading Rack	7.71	20.1	67.9	130.3	76	23.7	<1.0	NA	NA	NA	<1830	<1640	<1900	<1270	<1310	<1830	<1400	<2030	<1700	<1340	<1830	<1830	<1390	23000	<1830	<1830	
GP-119 East A	3-4	8/21/2014	Barge Dock-Loading Rack	24	49.2	103	210	94.2	32.1	<1.25	NA	NA	NA	<1180	<1060	<1230	<820	<846	<1180	<901	<1310	<1090	<868	<1180	<1180	<899	30800	<1180	<1180	
GP-119 East B	3-4	8/21/2014	Barge Dock-Loading Rack	3.13	4.26	1.86	19.3	11.5	3.57	<0.1	NA	NA	NA	234	137J	<119	<79.4	<81.9	<115	<87.3	<127	<106	<84	<115	208J	<87.0	6830	119J	<115	
GP-119 South A	3-4	8/21/2014	Barge Dock-Loading Rack	6.1	10.8	21.2	70.9	40.9	12.8	<0.5	NA	NA	NA	473	330	<107	<71.2	<73.5	<103	<78.3	<114	<95	<75.4	<103	192J	<78.1	21700	<103	<103	
GP-119 West A	3-4	8/21/2014	Barge Dock-Loading Rack	<0.312	<0.312	<0.312	1.66J	0.682J	4.55	<0.312	NA	NA	NA	482	199J	<192	<128	<132	<185	<141	<205	<171	<136	<185	<185	<140	6370	<185	<185	
GP-119 North A	3-4	8/21/2014	Barge Dock-Loading Rack	8.52	22	2.36J	94.9	56.1	17.6	<1.0	NA	NA	NA	<318	<285	<330	<221	<228	<318	<243	<352	<294	<234	<318	<318	<242	10200	<318	<318	
GP-119 North B	3-4	8/21/2014	Barge Dock-Loading Rack	4.93	17.3	0.722	42.9	33.8	11.6	<0.25	NA	NA	NA	113J	<86.8	<101	<67.3	<69.4	<97	<73.9	<107	<89.7	<71.2	<97	<97	<73.7	5160	<97	<97	
GP-120	4	9/22/2011	Barge Dock-Loading Rack	0.37	1.6	0.55	4.3	3.5	1.8	<0.65	178	262	20	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	<22.0	666	<22.0	<22.0	
SB-1	1-2	10/8/2013	Parcel 'C'	<0.119	<0.119	0.4																								

Table 5
Shallow Soil Analytical Results
Former Amoco Terminal
Superior, Wisconsin

Sample ID	Depth	Date Collected	Sample Location	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylene (Total) (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Methyl-tert-butyl ether (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Lead (mg/kg)	Acenaphthene (ug/kg)	Acenaphthylene (ug/kg)	Anthracene (ug/kg)	Benzo (a) anthracene (ug/kg)	Benzo(a) pyrene (ug/kg)	Benzo(b) fluoranthene (ug/kg)	Benzo (g,h,i) perylene (ug/kg)	Benzo(k) fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenz (a,h) anthracene (ug/kg)	Fluoranthene (ug/kg)	Fluorene (ug/kg)	Indeno (1,2,3-cd) pyrene (ug/kg)	Naphthalene (ug/kg)	Phenanthrene (ug/kg)	Pyrene (ug/kg)		
Industrial Not-To-Exceed Direct Contact RCL				7.41	37	818	258	219	182	293	NS	NS	800	33,000,000	10,000,000	2,110	211	2,110	2,110	211	21,100	211,000	211	22,000,000	22,000,000	2,110	26,000	219	164		
SB-15 East A	1-2	6/17/2014	Parcel 'H'	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.9	<9.8	<10.9	122	156	137	173	67.4	220	59.8	147	16.7J	73.5	149	219	164		
SB-15 North A	2-3	6/17/2014	Parcel 'H'	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.8	<9.7	<11.2	<7.5	8.1J	<10.8	9.6J	<11.9	10.6J	<7.9	<10.8	<10.8	<8.2	21.2J	<10.8	<10.8		
SB-15 South A	2-3	6/17/2014	Parcel 'H'	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.7	<9.6	19.1J	64.8	79	76.2	75.8	47.1	99.4	26.4	95.9	<10.7	42.2	84.2	110	92.1		
SB-15 West A	2-3	6/17/2014	Parcel 'H'	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<11	<9.9	<11.4	<7.6	<7.9	<11	<8.4	<12.2	<10.2	<8.1	<11	<11	<8.4	<11	<11	<11		
SB-16	3-4	10/7/2013	Lake City Towing	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.4	<10.4	<10.4	<3.7	<10.4	<10.4	<3.7	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4		
SB-17	2-3	10/7/2013	Lake City Towing	<0.025	<0.025	0.087J	0.163J	0.051J	0.0447J	<0.025	NA	NA	NA	25.6	11.5J	38.7	45	51.5	91.9	44.3	69	74.8	13.2J	121	22.5	39.6	312	132	105		
SB-18	2-3	10/7/2013	Lake City Towing	<0.025	<0.025	0.0534J	0.169J	0.0663J	0.0381J	<0.025	NA	NA	NA	11.8J	<10.4	54.6	261	318	172	289	122	464	175	109	24.3	124	441	263	235		
SB-18 East A	2-3	6/17/2014	Lake City Towing	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<11.1	<10	<11.6	<7.7	<8	<11.1	<8.5	<12.3	<10.3	<8.2	<11.1	<11.1	<8.5	<11.1	<11.1	<11.1		
SB-18 North A	2-3	7/28/2014	Lake City Towing	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.5	<9.4	<10.9	<7.3	<7.5	<10.5	<8.0	<11.6	<9.7	<7.7	<10.5	<10.5	<8.0	<10.5	<10.5	<10.5		
SB-18 North B	1-2	6/17/2014	Lake City Towing	<0.025	<0.025	0.0401J	0.173J	0.161	0.118	<0.025	NA	NA	NA	<10.3	<9.2	33.4	144	172	133	175	81.4	242	73.7	140	15.0J	91.7	264	160	170		
SB-18 South A	1-2	6/17/2014	Lake City Towing	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.4	<9.3	<10.8	22.7	22.9	24.5	26.4	16.0J	35.8	<7.6	38.3	<10.4	12.5J	36.8	53.4	35.5		
SB-18 West A	2-3	6/17/2014	Lake City Towing	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.8	<9.7	<11.3	<7.5	<7.8	<10.8	<8.3	<12	<10	<8	<10.8	<10.8	<8.2	<10.8	<10.8	<10.8		
SB-19	3-4	10/7/2013	Halvor Lines	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.7	<10.3	47.1	90.3	82.2	189	74.2	40.4	76.1	19J	189	18.6J	38	<10.3	171	154		
SB-20	3-4	10/8/2013	Halvor Lines	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.8	<10.8	<10.8	18.5J	25	17J	23.3	16.6J	29.7	<10.8	11.1J	<10.8	11.3J	<10.8	11.4J	16.5J		
SB-21	2-3	10/7/2013	Halvor Lines	<0.025	<0.025	<0.025	<0.075	<0.025	<0.025	<0.025	NA	NA	NA	<10.6	<10.6	<10.6	14.8J	18.2J	<10.6	19.7J	4.2J	24.8	<10.6	<10.6	<10.6	<10.6	<10.6	11.5J	12.3J		
SB-22	1-2	10/8/2013	Parcel 'B'	<0.025	<0.025	<0.025	<0.075	0.0406J	<0.025	<0.025	NA	NA	NA	84.1J	105J	329	1070	1260	859	1110	365	1810	629	585	152	476	1860	1300	1030		
SB-23	3-4	10/8/2013	Parcel 'B'	0.151	1.1	<0.025	3.55	4.39	2.24	0.0367J	NA	NA	NA	1430	340J	591	<234	<83.4	<234	<234	<82.5	<234	<234	<234	1860	<234	2940	4020	376J		
SB-23 North B	3-4	6/17/2014	Parcel 'B'	154J	2.03	<0.10	5.255	10.2	4.52	<0.10	NA	NA	NA	1880	<498	923J	<386	<398	<557	<424	<616	<515	<408	<557	2860	<234	5580	5310	<557		
SB-23 North C	3-4	6/17/2014	Parcel 'B'	<0.025	0.231	<0.025	0.289	0.893	0.277	<0.025	NA	NA	NA	916	232J	319J	<157	<162	<227	<173	<251	<210	<166	<227	1280	<172	2100	2270	<227		
SB-23 West B	0-1	6/17/2014	Parcel 'B'	<0.025	<0.025	<0.025	<0.075	0.0849	<0.025	<0.025	NA	NA	NA	<11.5	<10.3	<12.0	<8.0	<8.3	13.4J	10.7J	13.3J	<10.7	<8.5	<11.5	<11.5	11.4J	<11.5	<11.5	<11.5		
SB-24	3-4	10/8/2013	Parcel 'B'	1.43	1.49	5.83	107	90.9	36.4	<0.25	NA	NA	NA	<440	<440	<440	<440	<157	<440	<440	<440	<440	<440	<440	<440	<440	10700	<440	<440		
SB-24 East A	3-4	6/18/2014	Parcel 'B'	0.284	0.08	0.0401J	<0.378	0.17	0.137	<0.025	NA	NA	NA	<10.9	<9.7	<11.3	<7.5	<7.8	<10.9	<8.3	<12.0	<10.0	<8.0	<10.9	<10.9	<8.3	49	<10.9	<10.9		
SB-24 North C	3-4	6/18/2014	Parcel 'B'	8.14	11.6	28.7	184	83.8	28.8	0.59	NA	NA	NA	<216	<193	<224	<150	<154	<216	<165	<239	<200	<158	<216	<164	6160	<216	<216			
SB-24 North D	3-4	7/28/2014	Parcel 'B'	8.73	20.9	45	169	82.6	25.6	<0.312	NA	NA	NA	<224	<201	<232	<155	<160	<224	<171	<248	<207	<164	<224	<224	<170	6580	<224	<224		
SB-24 North E	3-4	7/28/2014	Parcel 'B'	6.66	25.2	20	138	56.3	17.4	<0.25	NA	NA	NA	<114	<102	<118	<78.8	<81.3	<114	<86.6	<126	<105	<83.4	<114	<114	<86.4	4510	<114	<114		
SB-24 South A	3-4	6/18/2014	Parcel 'B'	0.379J	1.04	<0.2	23.67	42.5	25.3	<0.2	NA	NA	NA	<214	<191	<222	<148	<153	<214	<163	<237	<198	<157	<214	<214	<162	2270	<214	<214		
SB-25	3-4	10/8/2013	Parcel 'B'	113	157	350	500	197	60.2	<0.5	NA	NA	NA	<14200	<14200	<14200	<14200	<5070	<14200	<14200	<5020	<14200	<14200	<14200	16700J	<14200	213000	22400J	<14200		
SB-26	3-4	11/20/2013	Parcel 'F'	<0.026	<0.0664	<0.0664	<0.199	<0.0664	<0.0664	<0.0664	NA	NA	NA	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	<13.5	
SB-27	3-4	11/20/2013	Parcel 'F'	<0.0265	<0.0663	<0.0663	<0.199	<0.0663	<0.0663	<0.0663	NA	NA	NA	<13.3	<13.3	16.10	66.00	65.4	67.7	66.2	22.9	84.5	25.6	87.3	<13.3	45.7	<13.3	72.7	89		
SB-28	3-4	11/20/2013	Parcel 'F'	<0.033.2	<0.082.9	<0.082.9	<0.249	<0.0829	<0.0829	<0.0829	NA	NA	NA	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	<16.7	18.20	<16.7	
SB-29	3-4	11/20/2013	Parcel 'C'	0.0653	<0.0656	<0.0656	<0.249	0.158	1.42	<0.0656	NA	NA	NA	284.00	170.00	<13.3	<13.3	<13.3	<13.3	<13.3	<13.3	<13.3	<13.3	<13.3	<13.3	32.5	493	<13.3	148	1160	66.1
SB-30	3-4	11/20/2013	Parcel 'C'	<0.0272	<0.0668	<0.0668	<0.204	<0.0668	<0.0668	<0.0668	NA	NA	NA	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	<13.7	27.90	<13.7	
SB-31	3-4	11/20/2013	Parcel 'B'	<0.0276	<0.0668	<0.0668	<0.207	<0.0668	<0.0668	<0.0668	NA	NA	NA	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	
SB-32	1-2	11/20/2013	Parcel 'B'	0.172	1.29	2.09	4.49	0.955	0.207	<0.0749	NA	NA	NA	<146	<146	205	660.00	836	618	1160	<146	1150	478	305	844	454	7340	1360	1050		
SB-33	3-4	11/20/2013	Parcel 'B'</																												

Figures

- Figure 1 – Site Location Map
- Figure 2 – Area Properties Map
- Figure 3 – Site Map
- Figure 4 – Terminal and Barge Dock Area Wells
- Figure 5 - Terminal Site Map with Utility Monitoring Locations
- Figure 6 - Drainage Ditch Sample Locations
- Figure 7 - Clay Thickness in Feet
- Figure 8 – Hydrogeologic Section C-C'
- Figure 9 – Southeast to Northwest Benzene Cross Section
- Figure 10 – LNAPL Extent Map – Terminal Detail
- Figure 11A – Groundwater Contour Map - May 23, 2023, Shallow Wells
- Figure 11B – Groundwater Contour Map - May 23, 2023, Deep Wells
- Figure 11C – Groundwater Contour Map - May 23, 2023, DD Wells
- Figure 12 – Southeast to Northwest Sulfate Cross Section
- Figure 13 – Southeast to Northwest Manganese Cross Section
- Figure 14 – Site Map Terminal Detail
- Figure 15 – Surface Soil Sampling Location Map
- Figure 16 – Direct-Push Boring Benzene Results 0-4 Ft Depth
- Figure 17 – Direct-Push Boring Benzene Results 4-8 Ft Depth
- Figure 18A – Direct Contact Soil Excavation
- Figure 18B – SB-1 Delineation Map
- Figure 18C – SB-2 Delineation Map
- Figure 18D – SB-15 Delineation Map
- Figure 18E – SB-18 Delineation Map
- Figure 18F – SB-24 Delineation Map
- Figure 18G – SB-23, SB-39, & SB-40 Delineation Map
- Figure 19A – Dissolved Phase Benzene Concentration Shallow Wells
- Figure 19B – Dissolved Phase Benzene Concentration Deep Wells
- Figure 19C – Dissolved Phase Benzene Concentration DD Wells



Subject Property


FIGURE 1

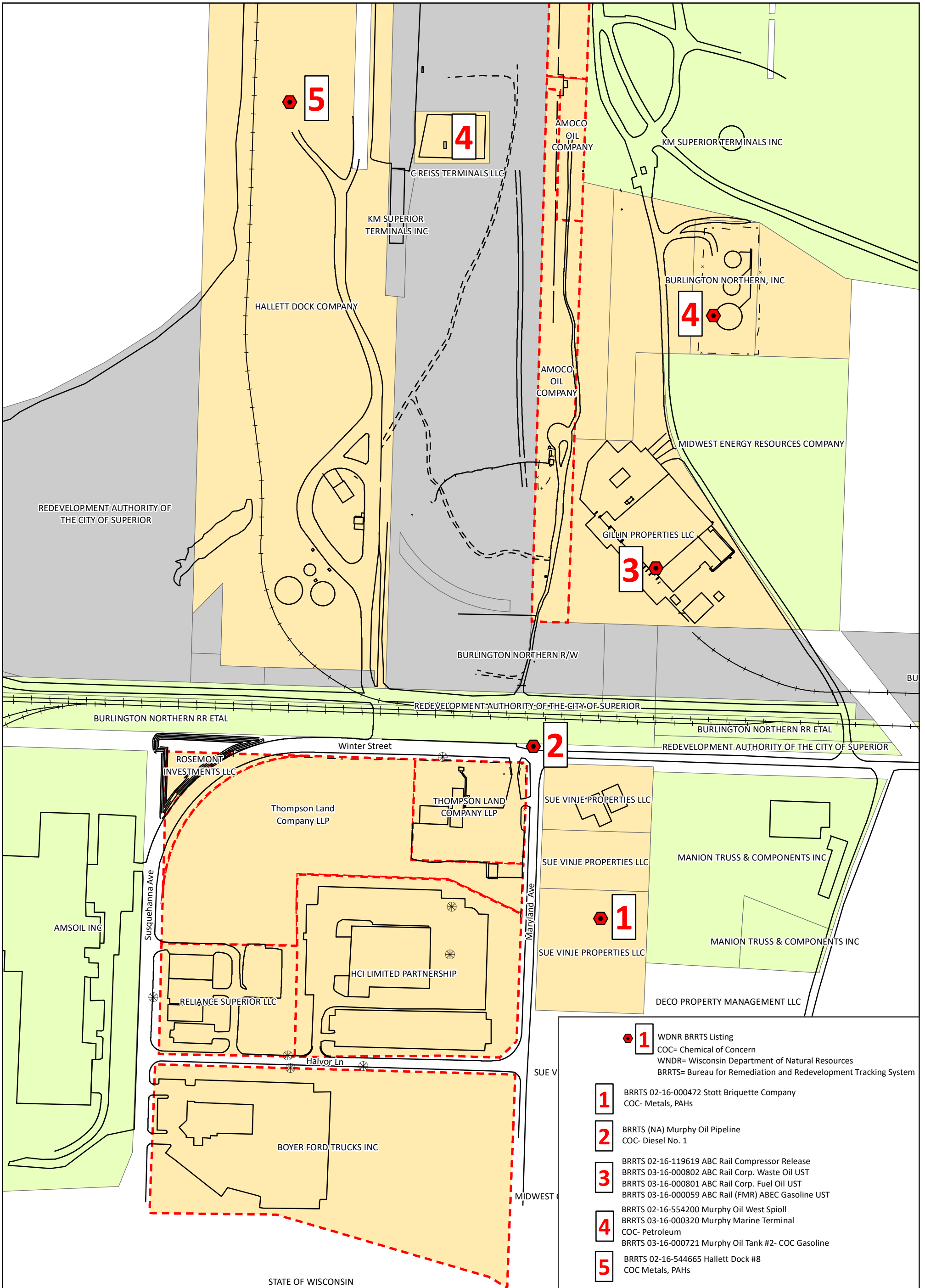
**SITE LOCATION MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**



USGS 7.5-minute
Topographic Series
(Superior and West Duluth, WI)

0 500 1,000 2,000 3,000 4,000 Feet

PROJECT NO. WISSUP	PREPARED BY SAA	REF SCALE 1:24,000	
DATE 3/29/2024	REVIEWED BY LK	MAP SCALE 1 INCH = 2,000 FEET	



1	WDNR BRRTS Listing COC= Chemical of Concern WNR= Wisconsin Department of Natural Resources BRRTS= Bureau for Remediation and Redevelopment Tracking System
1	BRRTS 02-16-000472 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

Legend

- ⊗ Manhole
- + Railroad
- Active Commercial (Incident)
- Active Commercial (No Incident)
- ⬡ Subject Site
- Vacant

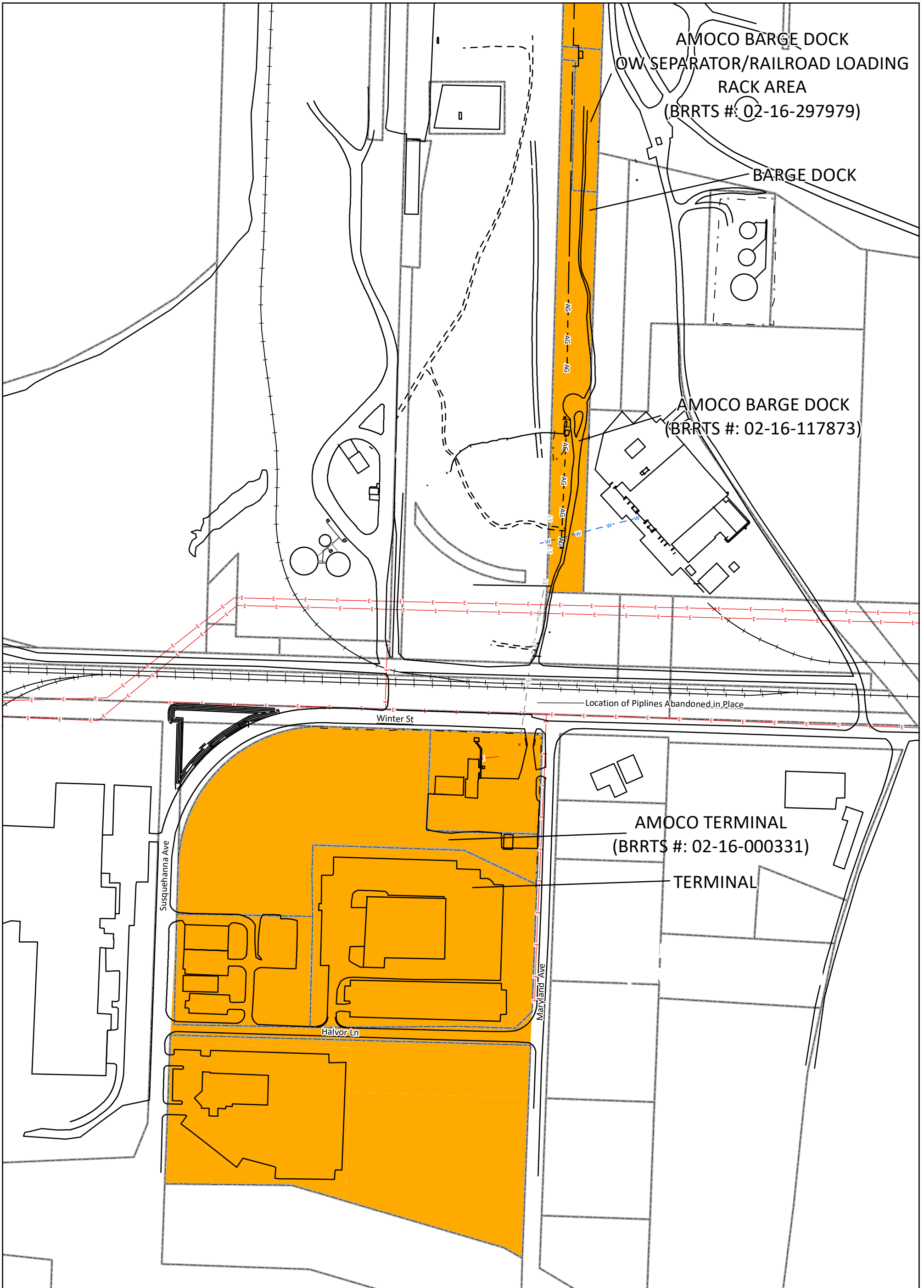
Aerial Source: Douglas County, 2019

0 75 150 300 450 600 Feet

FIGURE 2

AREA PROPERTIES MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP191	PREPARED BY SAA/MB	REF SCALE 1:3,600
DATE 2/8/2022	REVIEWED BY JZ	MAP SCALE 1 INCH = 300 FEET



Legend

- E- Overhead Electric Line
- ST- Abandoned Sewer Line
- + Railroad
- Property Boundary
- Subject Parcels

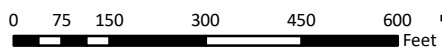


FIGURE 3

SITE MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP191	PREPARED BY SAA/MB	REF SCALE 1:3,600
DATE 2/8/2022	REVIEWED BY JZ	MAP SCALE 1 INCH = 300 FEET



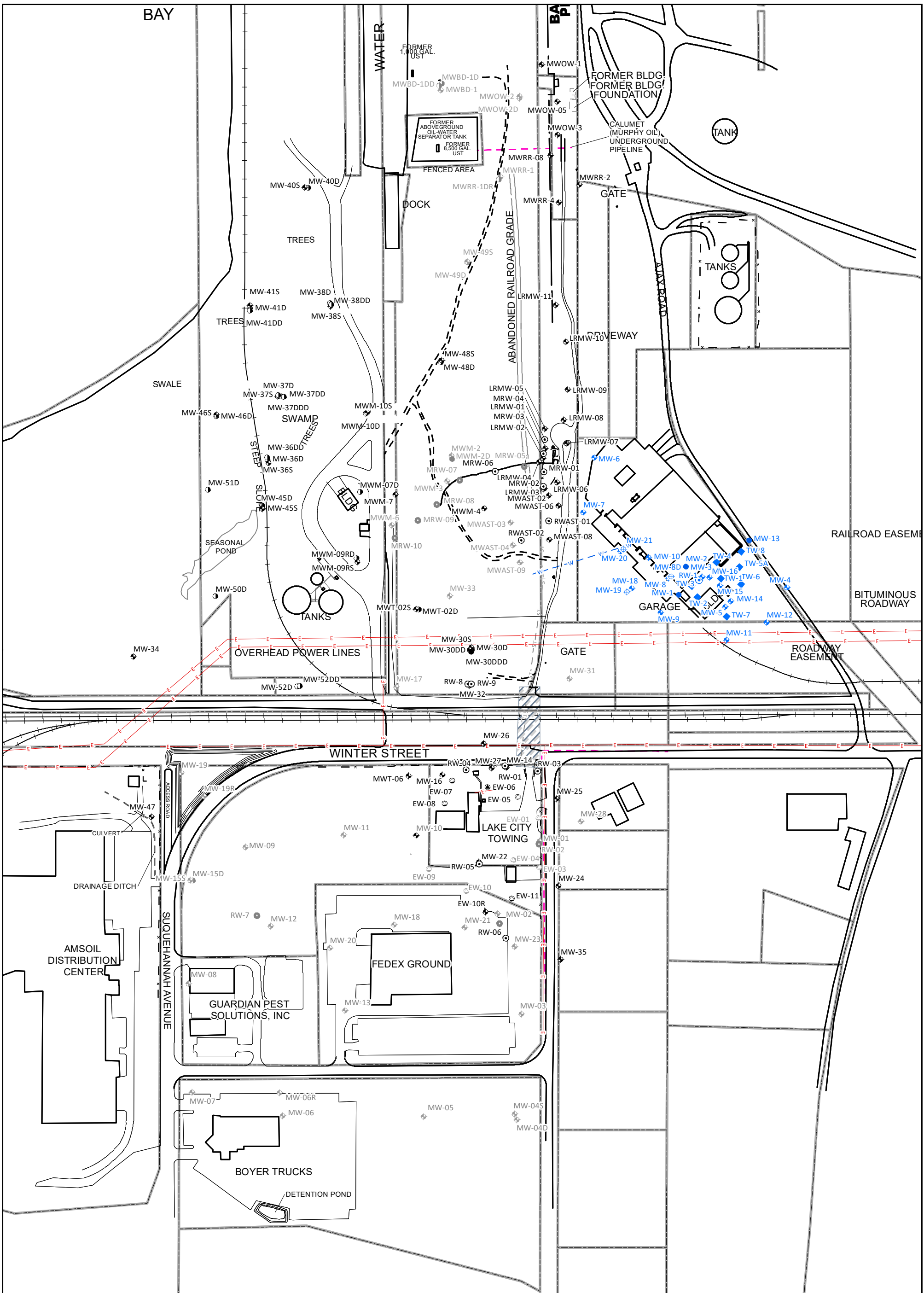
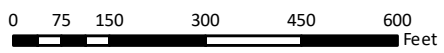


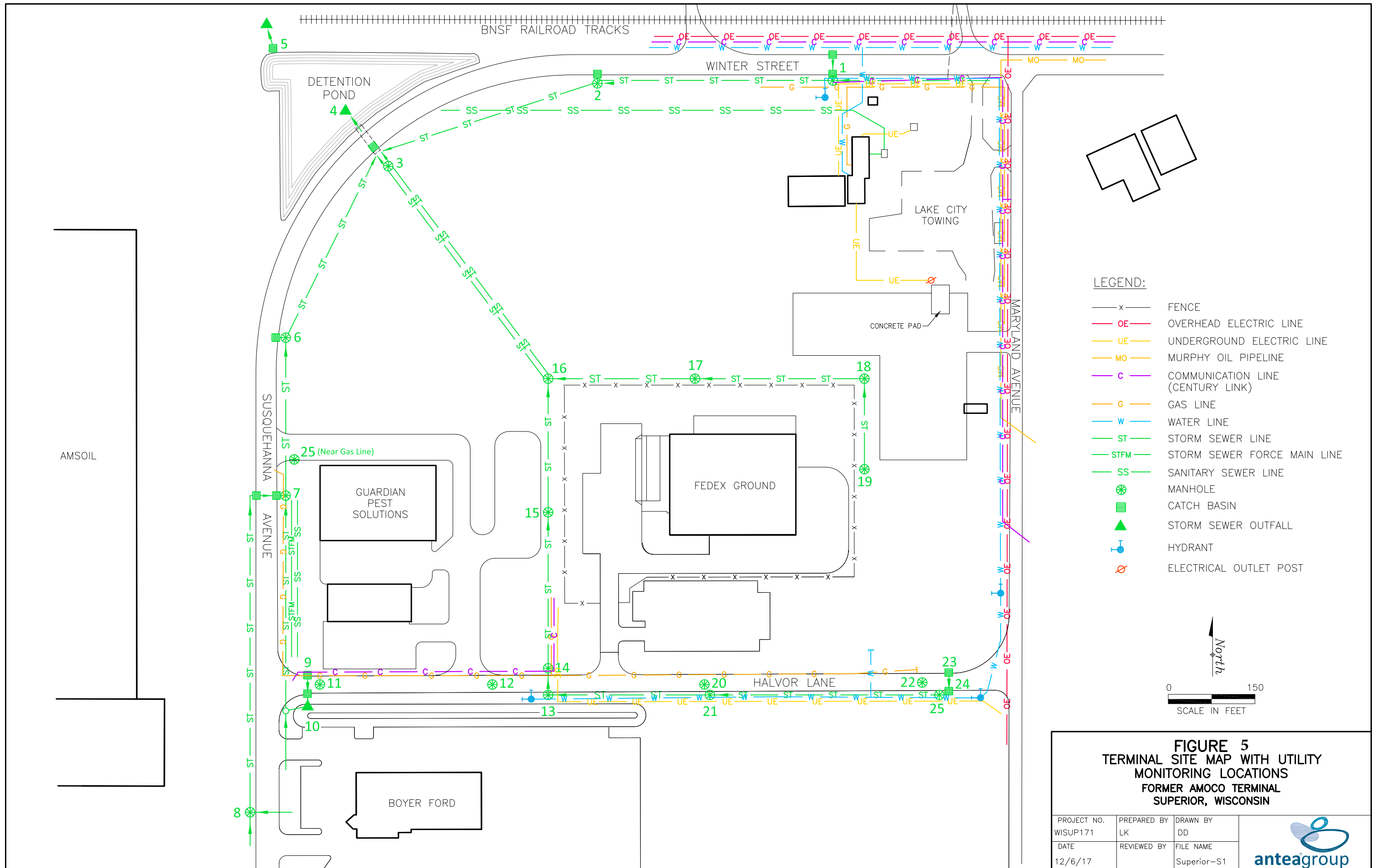
FIGURE 4
 TERMINAL AND BARGE DOCK AREA WELLS
 WELLS ONLY
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

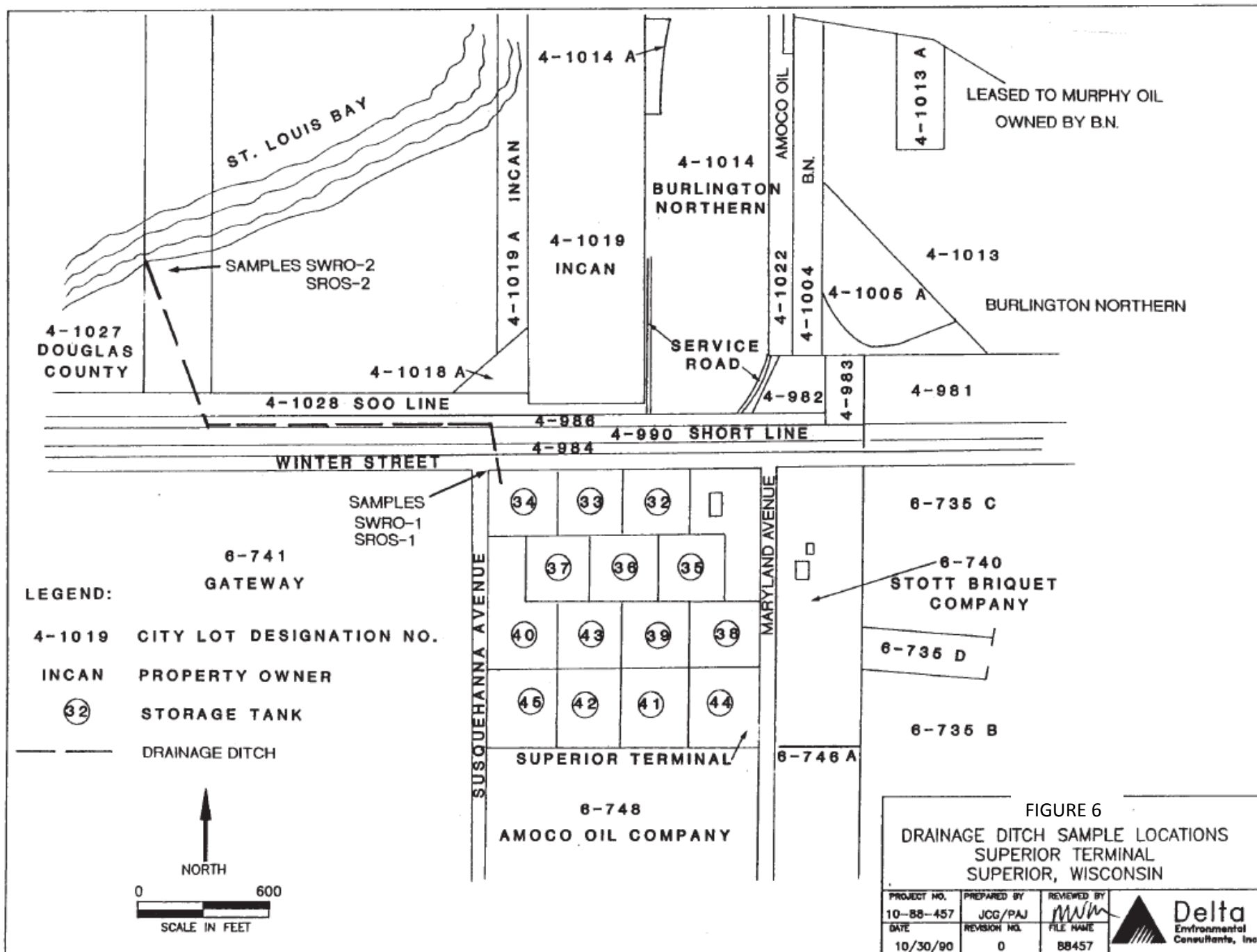
- Legend**
- Monitoring Well Location
 - Abandoned Monitoring Well Location
 - Deep Monitoring Well Location
 - Abandoned Deep Monitoring Well Location
 - Recovery Well Location
 - Abandoned Recovery Well Location
 - Extraction Well
 - Abandoned Extraction Well Location
 - ABC Rail Abandoned Monitoring Well
 - ABC Rail Monitoring Well
 - ABC Rail Piezometer
 - ABC Rail Recovery Well
 - ABC Rail Temporary Monitoring Well
 - Overhead Electric Line
 - Former Site Feature
 - Gravel Access Road
 - Fence
 - Property Boundary
 - Murphy Oil Pipeline
 - Abandoned Sewer Line
 - Location of Pipelines Abandoned in Place
 - Railroad



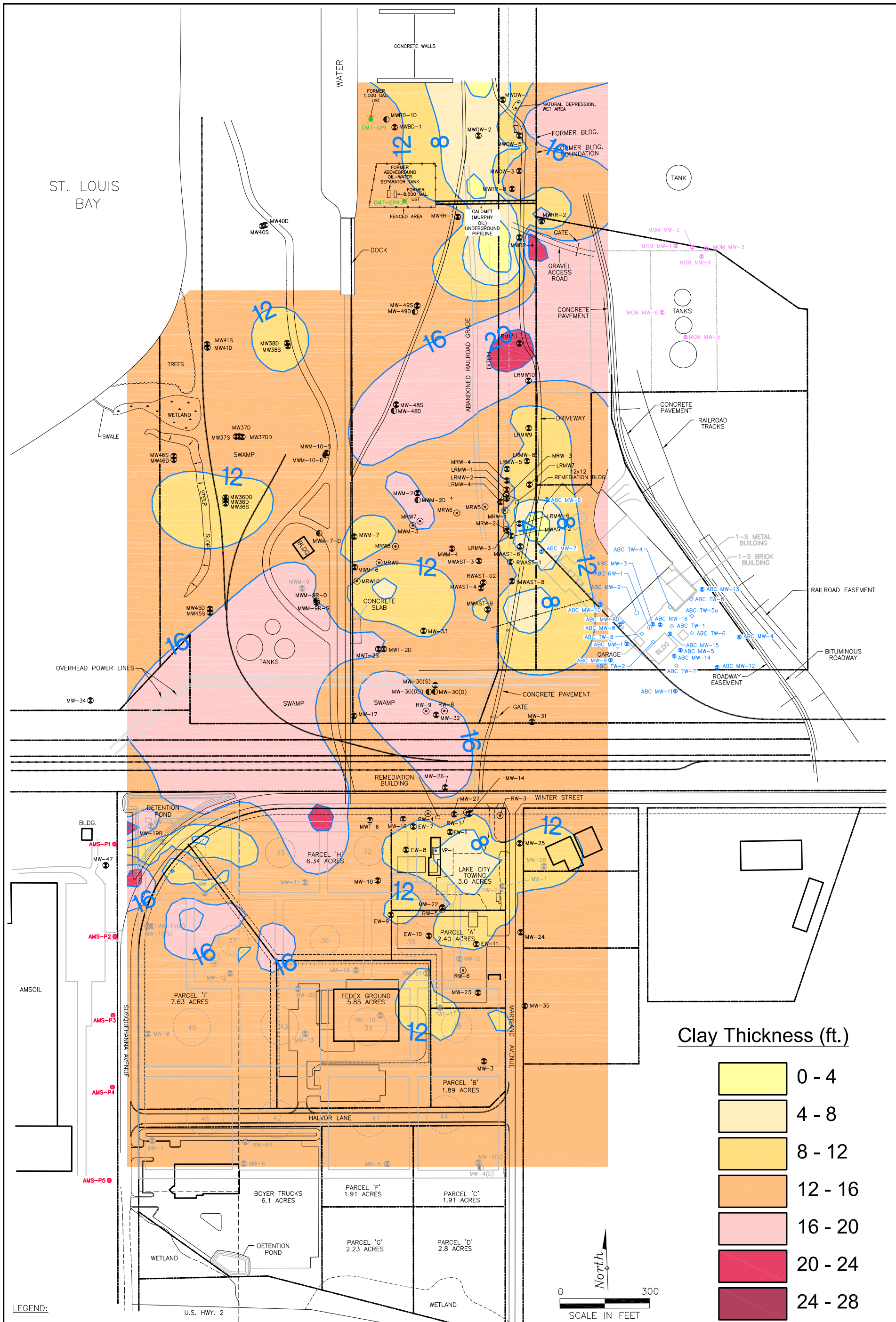
PROJECT NO. WISUP23	PREPARED BY SAA/MDE	REF SCALE 1:3,600
DATE 7/6/2023	REVIEWED BY JZ	MAP SCALE 1 INCH = 300 FEET



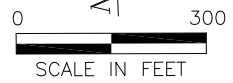
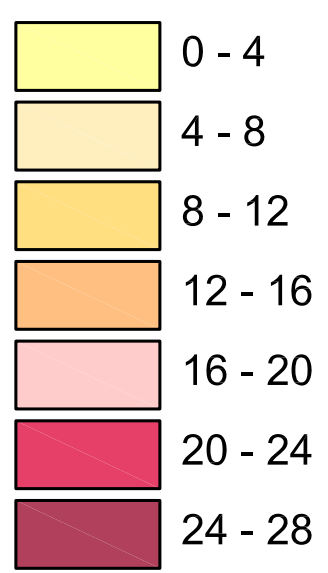




ST. LOUIS BAY



Clay Thickness (ft.)



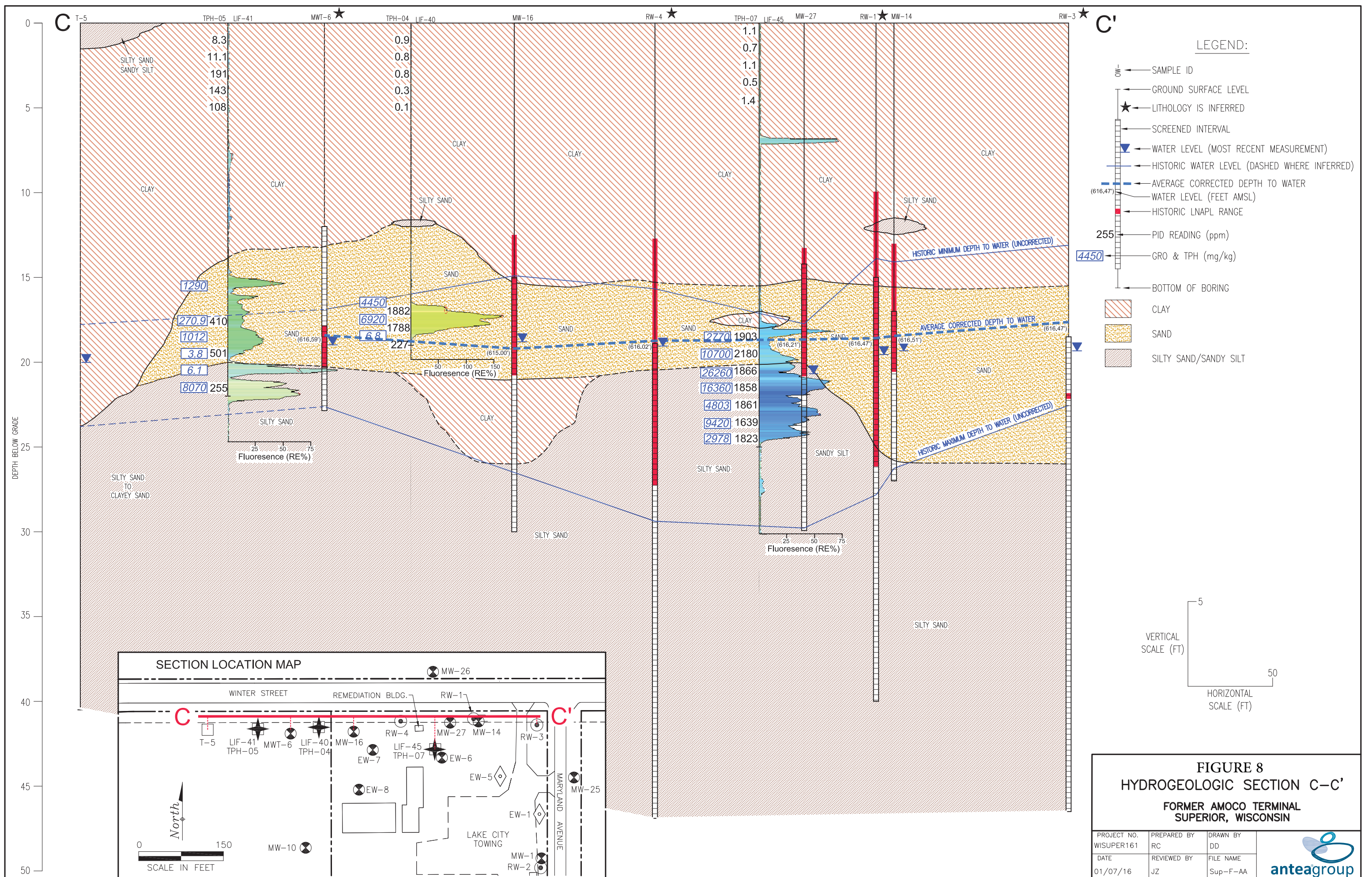
LEGEND:

- 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
- 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)

FIGURE 7
CLAY THICKNESS IN FEET
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP171	PREPARED BY LK	DRAWN BY DD
DATE 08/01/17	REVIEWED BY	FILE NAME 300B-T-K





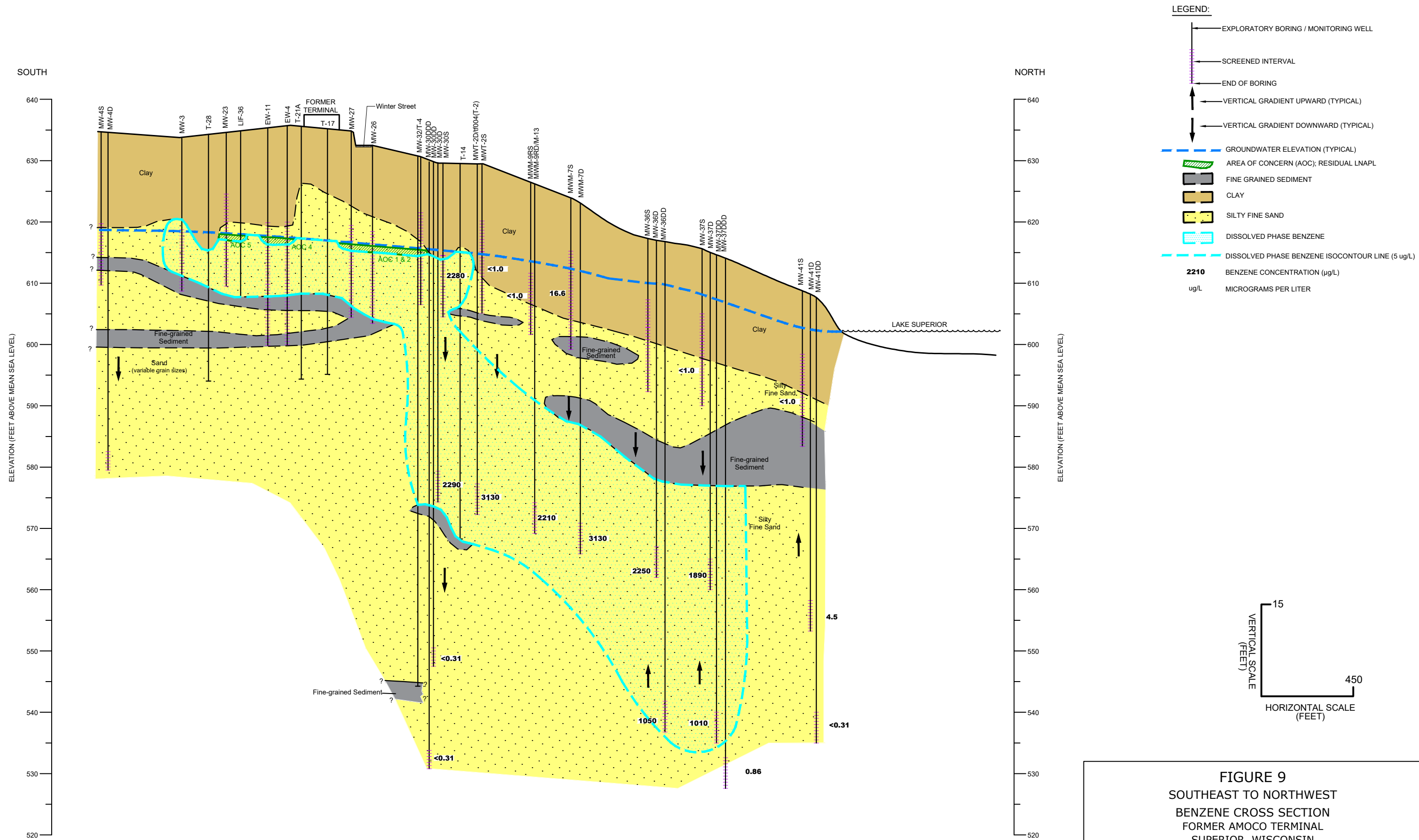

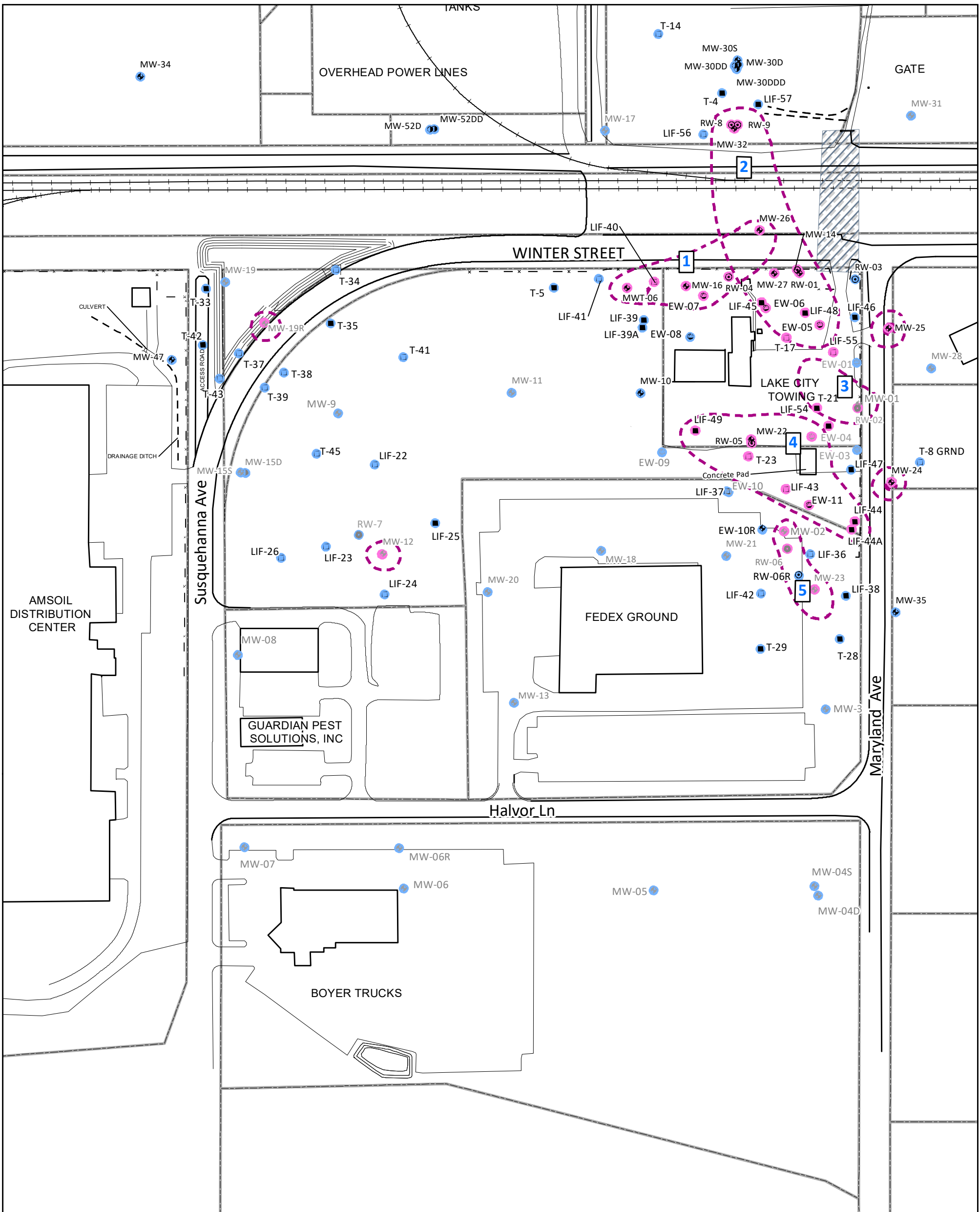


FIGURE 9
 SOUTHEAST TO NORTHWEST
 BENZENE CROSS SECTION
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

PROJECT NO. Superior Terminal WI-2023	PREPARED BY LK	DRAWN BY DD/JH
DATE 6/30/2023	REVIEWED BY	FILE NAME Superior-NS_2023





Legend

- ➦ Monitoring Well Location
- ➦ Abandoned Monitoring Well Location
- ⦿ Deep Monitoring Well Location
- ⦿ Abandoned Deep Monitoring Well Location
- ⦿ Recovery Well Location
- ⦿ Abandoned Recovery Well Location
- ⦿ Extraction Well
- ⦿ Abandoned Extraction Well Location
- ⦿ CPT-LIF Boring Location
- Points with LNAPL
- No LNAPL
- ⬡ LNAPL Extent
- ⬡ Gravel Access Road
- ⬡ Fence
- ⬡ Location of Pipelines Abandoned in Place
- ⬡ Railroad
- ⬡ Property Boundary

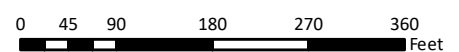
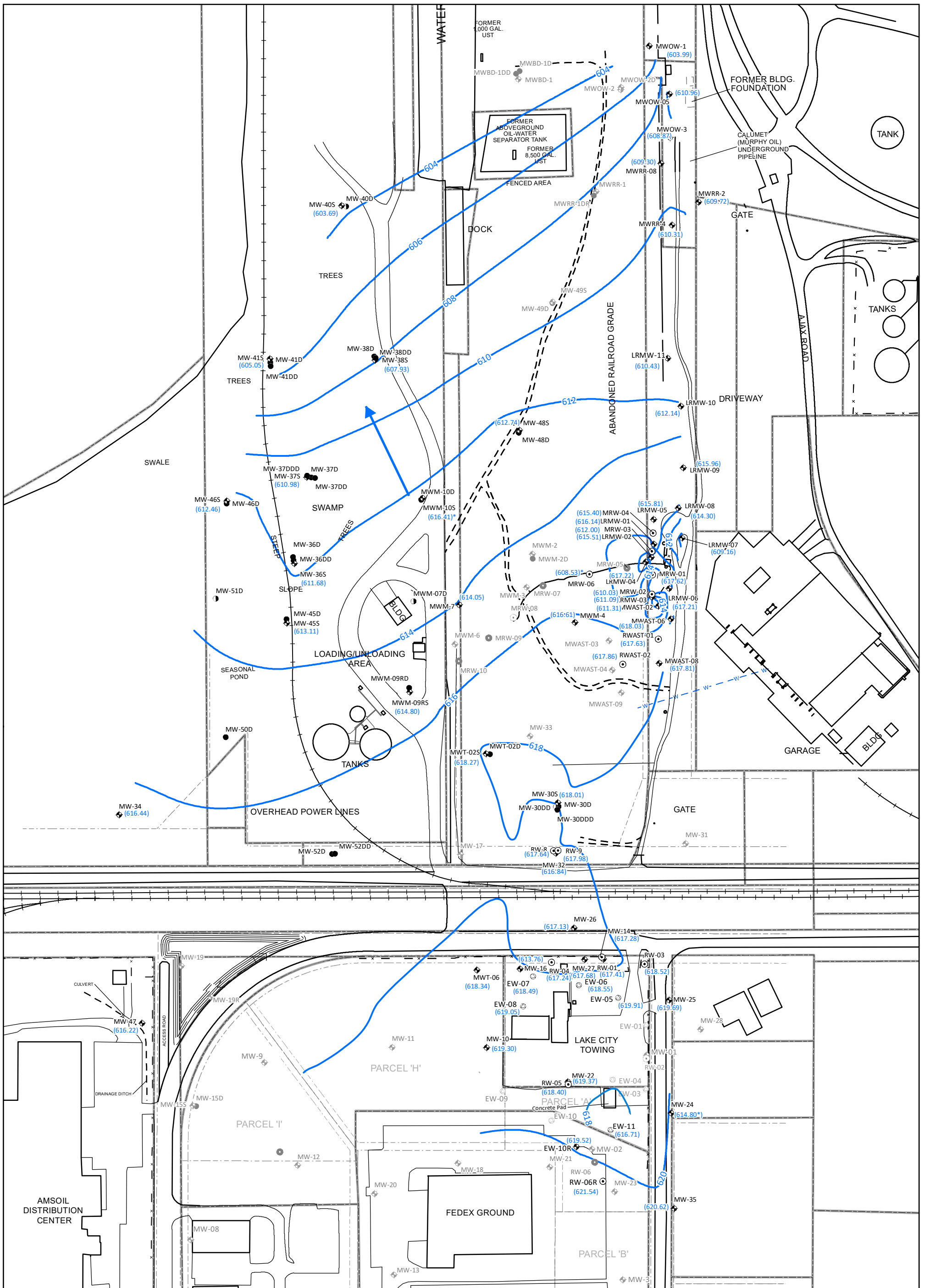


FIGURE 10
LNAPL EXTENT MAP - TERMINAL DETAIL
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP191	PREPARED BY SAA/MB	REF SCALE 1:2,160
DATE 7/26/2023	REVIEWED BY JZ	MAP SCALE 1 INCH = 180 FEET





Legend

- ◆ Monitoring Well Location
 - ◆ Abandoned Monitoring Well Location
 - Deep Monitoring Well Location
 - Abandoned Deep Monitoring Well Location
 - Recovery Well Location
 - Abandoned Recovery Well Location
 - Extraction Well
 - Abandoned Extraction Well Location
 - Former Site Feature
 - Gravel Access Road
 - - - Fence
 - - - Historical Property Offset
 - - - Historical Property Boundary
 - Groundwater Elevation Contour (ft)
 - ➔ Inferred Direction of Groundwater Flow
 - (620.62) Groundwater Elevation
 - Railroad
 - Property Boundary
- Note:
* elevation not included in contours

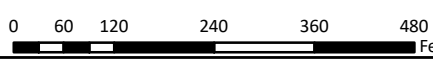
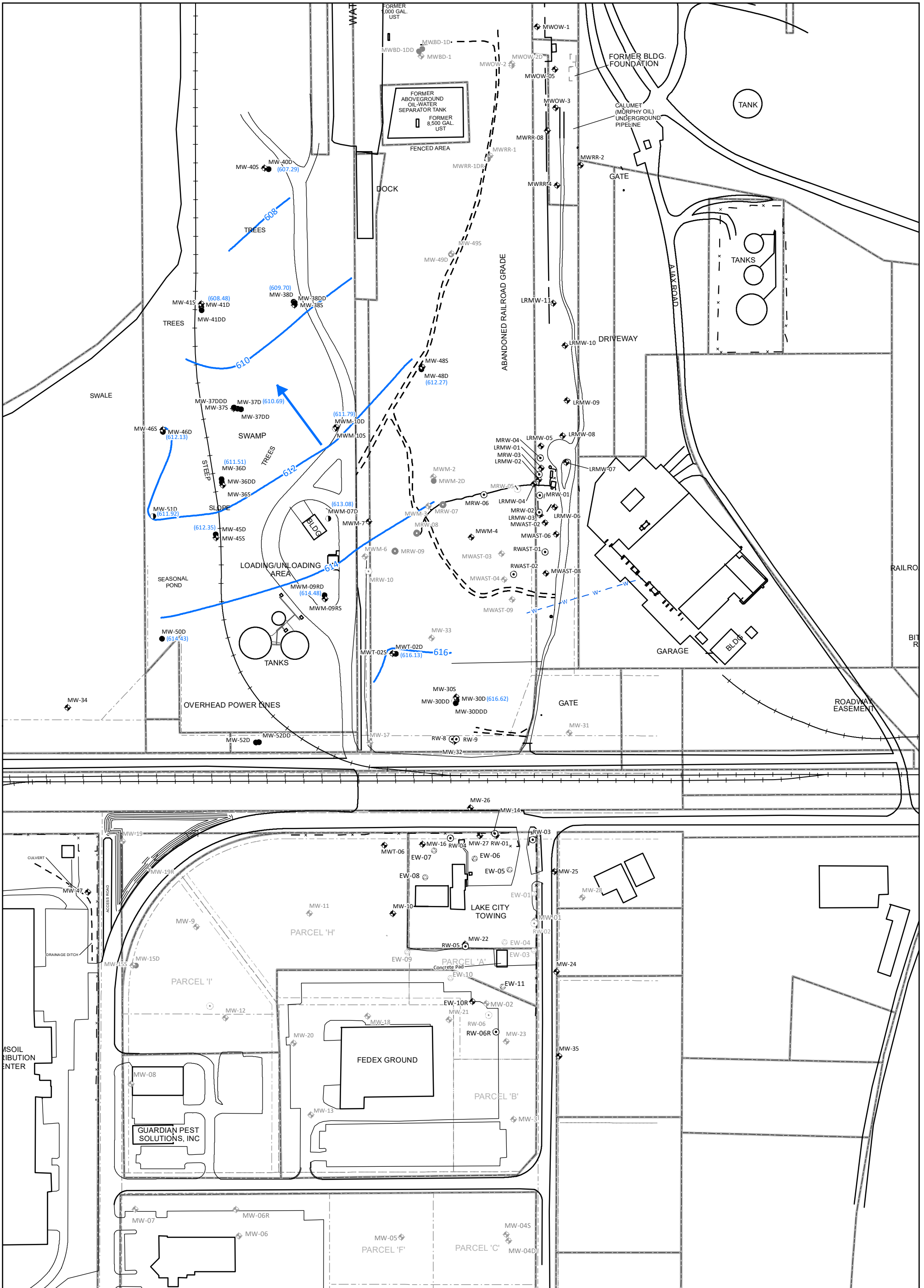


FIGURE 11A
GROUNDWATER CONTOUR MAP- MAY 23, 2023
SHALLOW WELLS
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. N/A	PREPARED BY SAA/MB/MDE	REF SCALE 1:2,760
DATE 8/25/2023	REVIEWED BY LK	MAP SCALE 1 INCH = 230 FEET





Legend

- ◆ Monitoring Well Location
- ◆ Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- Abandoned Deep Monitoring Well Location
- Recovery Well Location
- Abandoned Recovery Well Location
- ⊕ Extraction Well
- ⊕ Abandoned Extraction Well Location
- Former Site Feature
- Gravel Access Road
- Fence
- Historical Property Offset
- Historical Property Boundary
- Groundwater Elevation Contour
- ➔ Inferred Direction of Groundwater Flow
- Railroad
- Property Boundary

Note:
* - elevation not included in contours

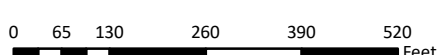
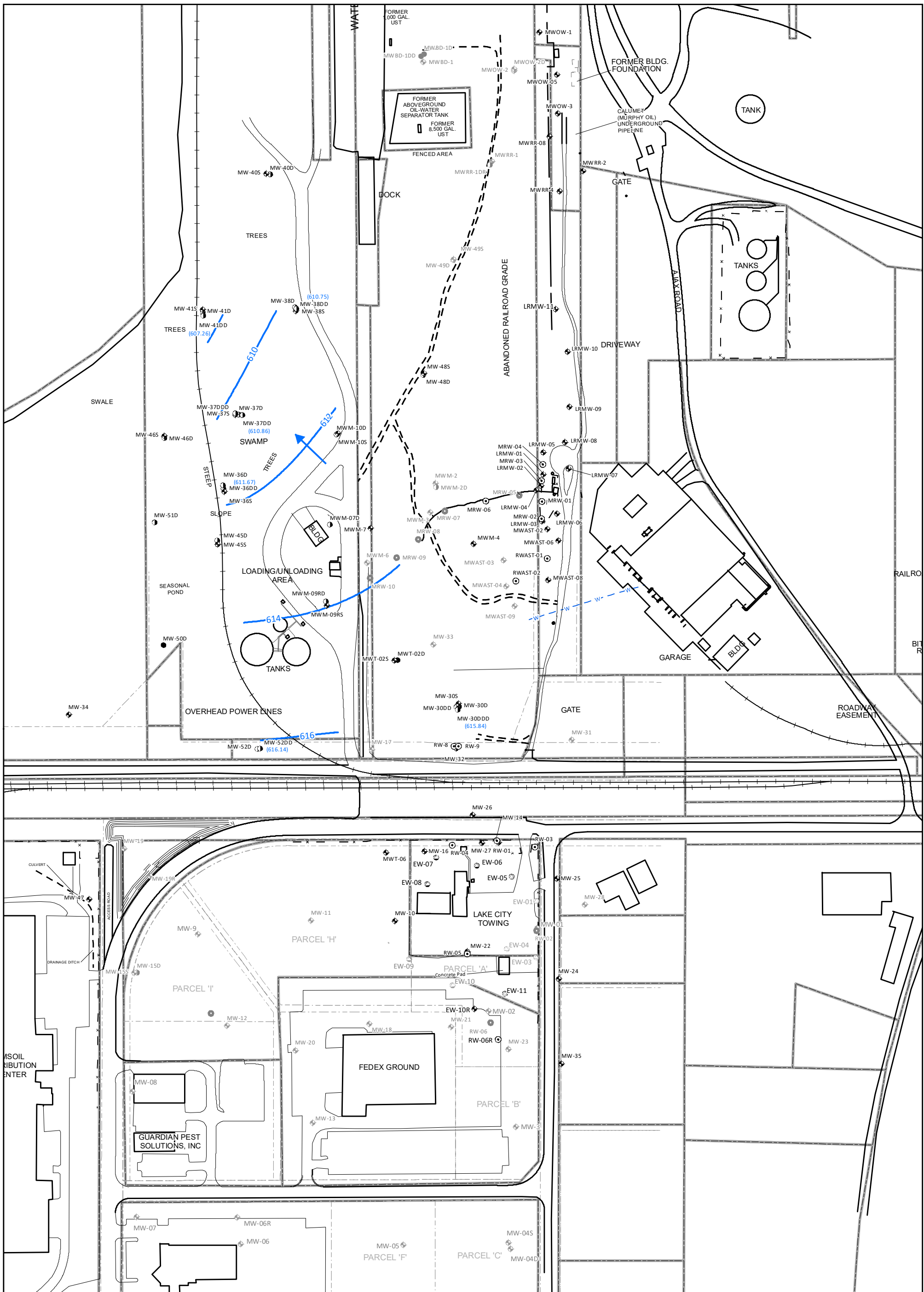


FIGURE 11B

GROUNDWATER CONTOUR MAP- MAY 23, 2023
DEEP WELLS
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. N/A	PREPARED BY SAA/MB/MDE	REF SCALE 1:3,120
DATE 8/25/2023	REVIEWED BY LK	MAP SCALE 1 INCH = 260 FEET





Legend

- Monitoring Well Location
- Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- Abandoned Deep Monitoring Well Location
- Recovery Well Location
- Abandoned Recovery Well Location
- Extraction Well
- Abandoned Extraction Well Location
- Former Site Feature
- Gravel Access Road
- Fence
- Historical Property Offset
- Historical Property Boundary
- Railroad
- Property Boundary
- Groundwater Elevation Contour
- Inferred Direction of Groundwater Flow

Note:
* - elevation not included in contours

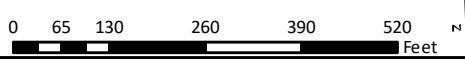


FIGURE 11C
GROUNDWATER CONTOUR MAP- MAY 23, 2023
DD WELLS
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. N/A	PREPARED BY MDE	REF SCALE 1:3,120
DATE 7/6/2023	REVIEWED BY LK	MAP SCALE 1 INCH = 260 FEET



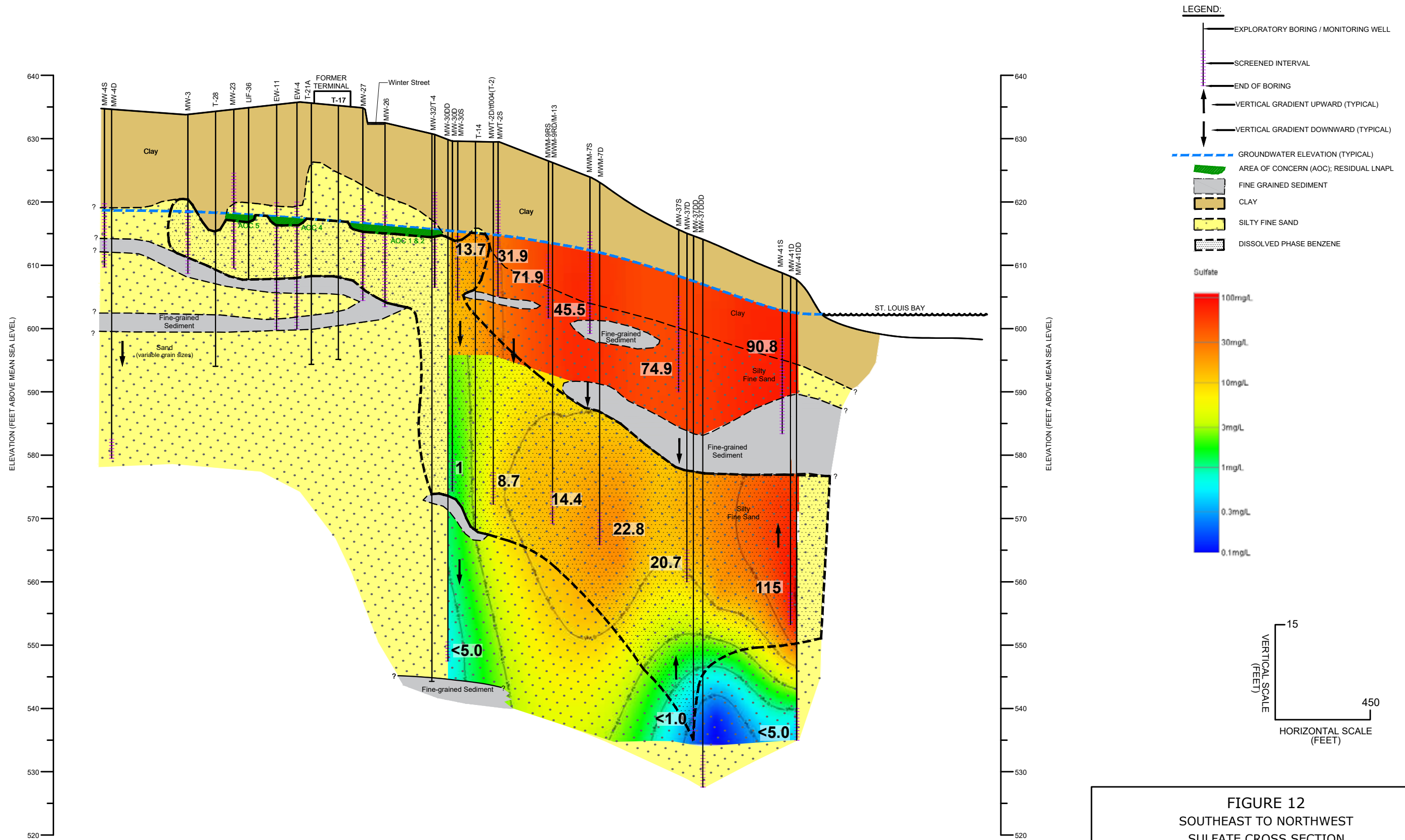



FIGURE 12
SOUTHEAST TO NORTHWEST
SULFATE CROSS SECTION
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT WISUP191	PREPARED BY: WH	DRAWN BY: DD/JH
DATE 7/23/19	REVIEWED BY:	FILE NAME Superior-NS19_WH15



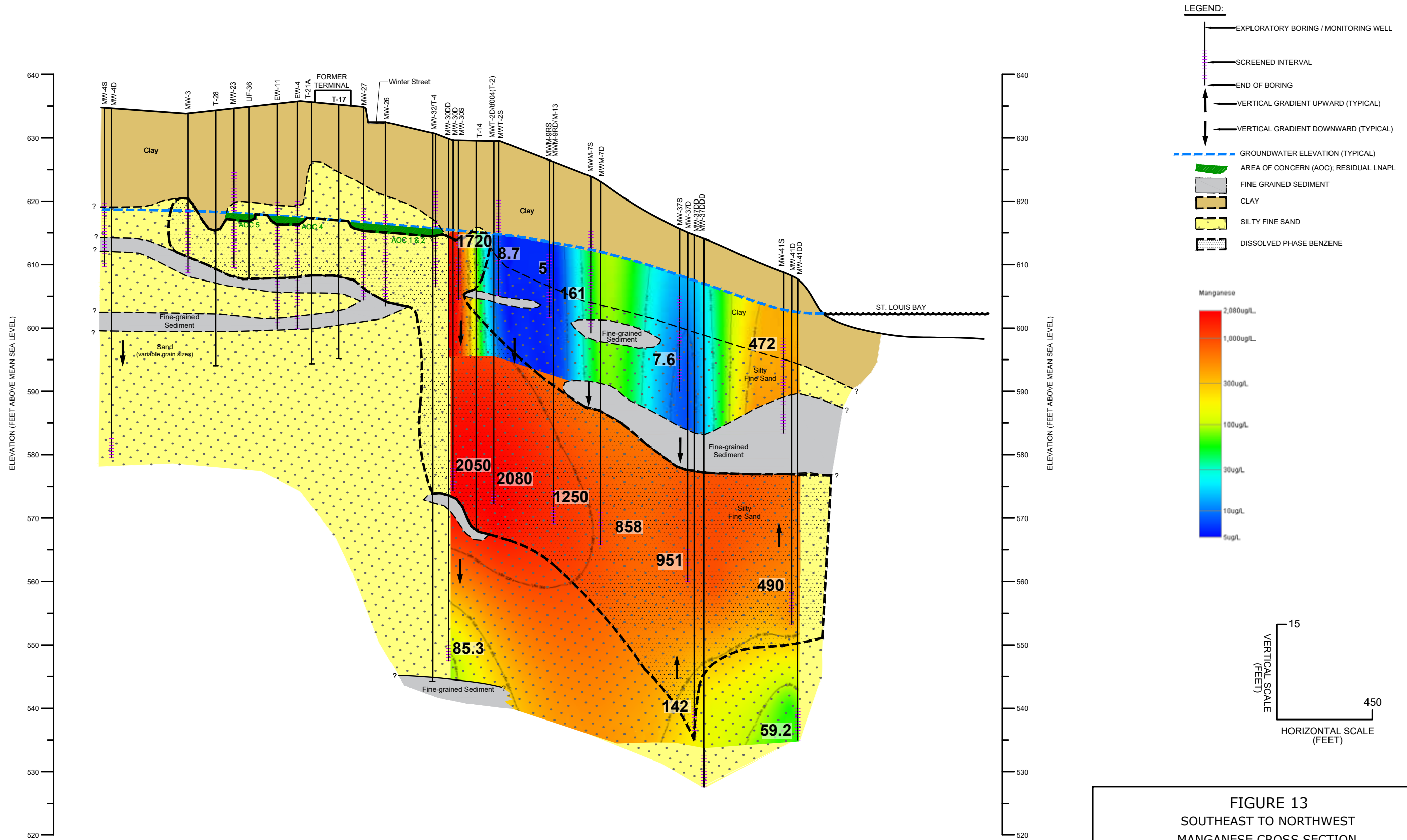

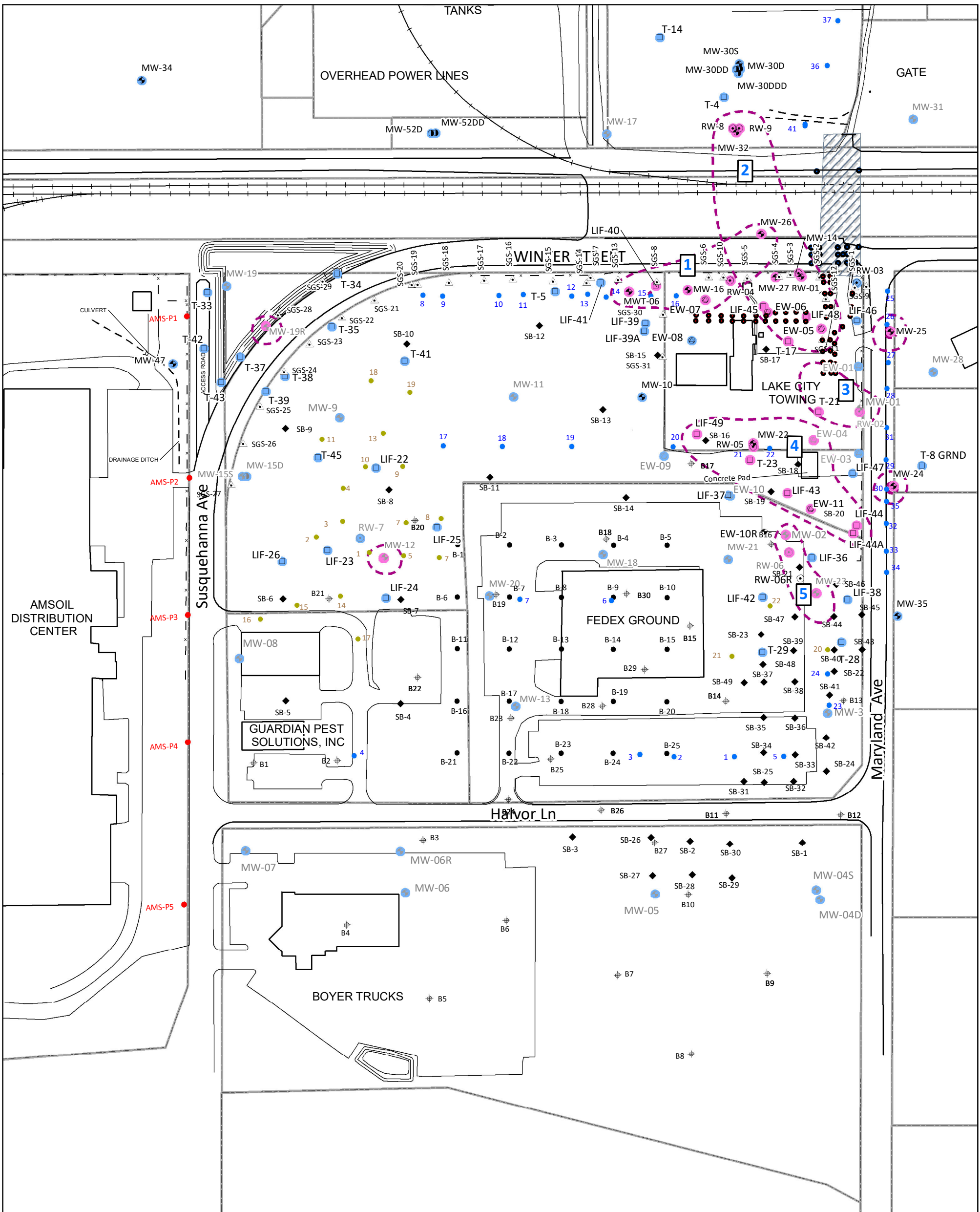


FIGURE 13
 SOUTHEAST TO NORTHWEST
 MANGANESE CROSS SECTION
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

PROJECT WISUP191	PREPARED BY: WH	DRAWN BY: DD/JH	
DATE 7/23/19	REVIEWED BY:	FILE NAME Superior-NS19_WH15	



Legend

- Surface Soil Sample Location
- Geoprobe Location
- ⊕ Soil Boring Location (Vinje Industrial Park Area) (2003 Soil Borings- TPT Geotech Soil Report 2004)
- Hand Auger Boring (1990)
- Soil Borings (December 1994)
- Amsoil Temporary Well (2004 Data)
- ◆ Hand Auger Sampling Location
- △ SGS Sampling Location
- Soil Sampling Location
- ⊕ Monitoring Well Location
- ⊕ Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- ⊕ Abandoned Deep Monitoring Well Location
- ⊕ Recovery Well Location
- ⊕ Abandoned Recovery Well Location
- ⊕ Extraction Well
- ⊕ Abandoned Extraction Well Location
- || CPT-LIF Boring Location
- Points with LNAPL
- No LNAPL
- LNAPL Extent
- - - Gravel Access Road
- x - Fence
- ▨ Location of Pipelines Abandoned in Place
- +— Railroad
- ▭ Property Boundary

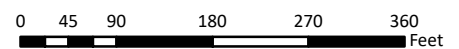


FIGURE 14
 SITE MAP TERMINAL DETAIL
 TERMINAL DETAIL
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

PROJECT NO. WISUP191	PREPARED BY SAA/MB	REF SCALE 1:2,160
DATE 6/20/2023	REVIEWED BY JZ	MAP SCALE 1 INCH = 180 FEET





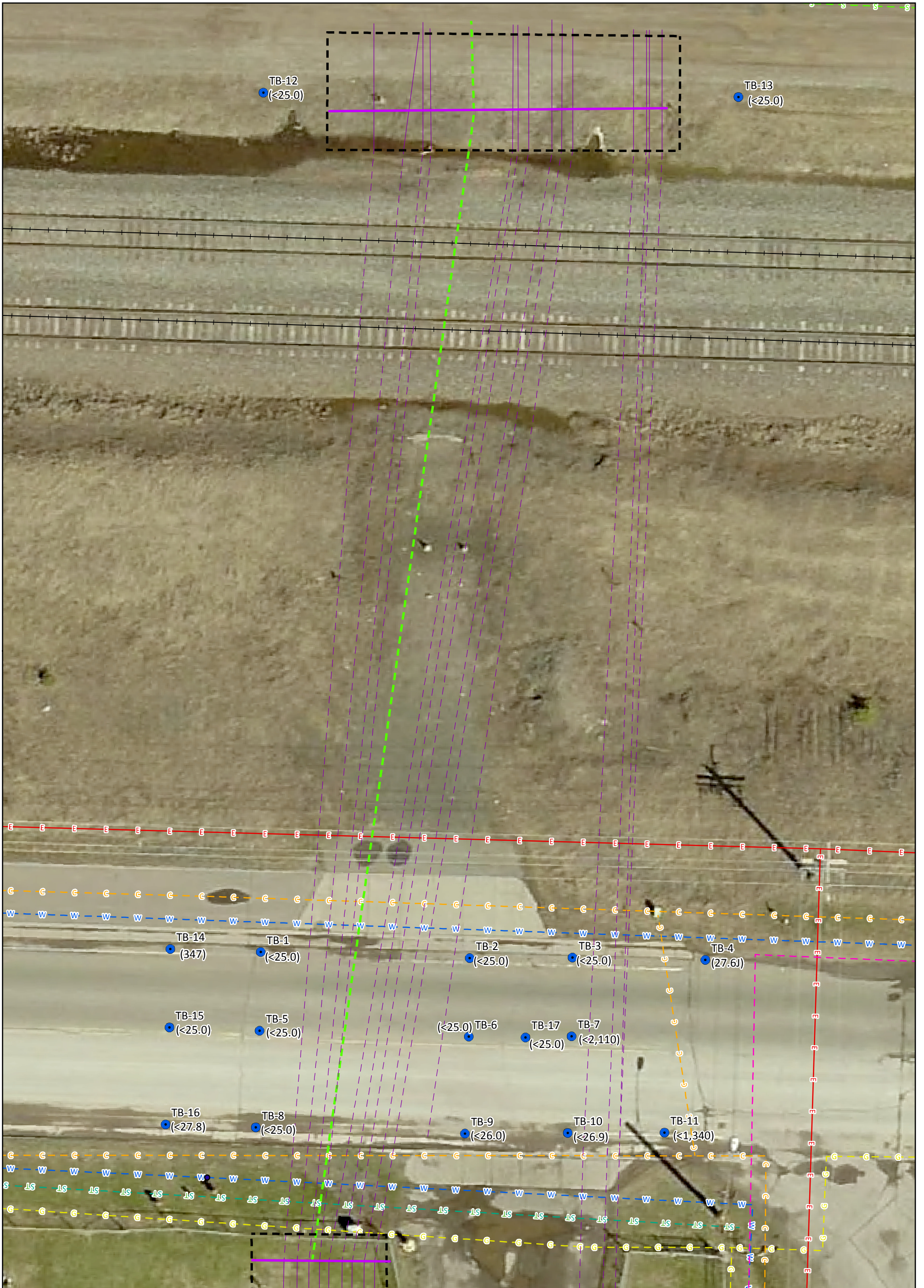
- Legend**
- Surface Soil Sample Location
 - ⊗ Manhole
 - Hydrant
 - Pipeline Cut Location
 - ▭ Pipeline Cut and Capping Trench
 - Excavated Pipeline
 - - - Inferred Remaining Pipeline Extent
 - 18" Sewer Line
 - - - Inactive Electric Line
 - Murphy Oil Pipeline
 - - - Overhead Electric Line
 - - - Communication Line
 - - - Gas Line
 - - - Underground Electric Line
 - Water Line
 - Railroad
 - Storm Sewer Line
 - Sanitary Sewer Line
 - ▭ Direct Contact Soil Excavation Extent

Notes:
 Samples were collected approximately every 20 feet for spacing
 Sample names are abbreviated, S1 - Sidewalk 1
 Aerial Source: Douglas County, 2019



FIGURE 15
 SURFACE SOIL SAMPLING LOCATION MAP
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

PROJECT NO. WISUP191	PREPARED BY MB	REF SCALE 1:360	
DATE 11/30/2020	REVIEWED BY JZ	MAP SCALE 1 INCH = 30 FEET	



- Legend**
- Geoprobe Location
 - ⊕ Manhole
 - Hydrant
 - Pipeline Cut Location
 - ▭ Pipeline Cut and Capping Trench
 - Excavated Pipeline
 - - - Inferred Remaining Pipeline Extent
 - - - Inactive Electric Line
 - - - Murphy Oil Pipeline
 - Overhead Electric Line
 - - - Communication Line
 - - - Gas Line
 - - - Underground Electric Line
 - - - Water Line
 - Railroad
 - - - Storm Sewer Line
 - - - Sanitary Sewer Line
 - - - 18" Sewer Line

(465.7) Benzene Concentration (ug/kg)

< Not detected above laboratory detection limit

Concentrations above the NR 720 Industrial Direct Contact RCLs (7,070 ug/kg) are underlined

Aerial Source: Douglas County, 2019

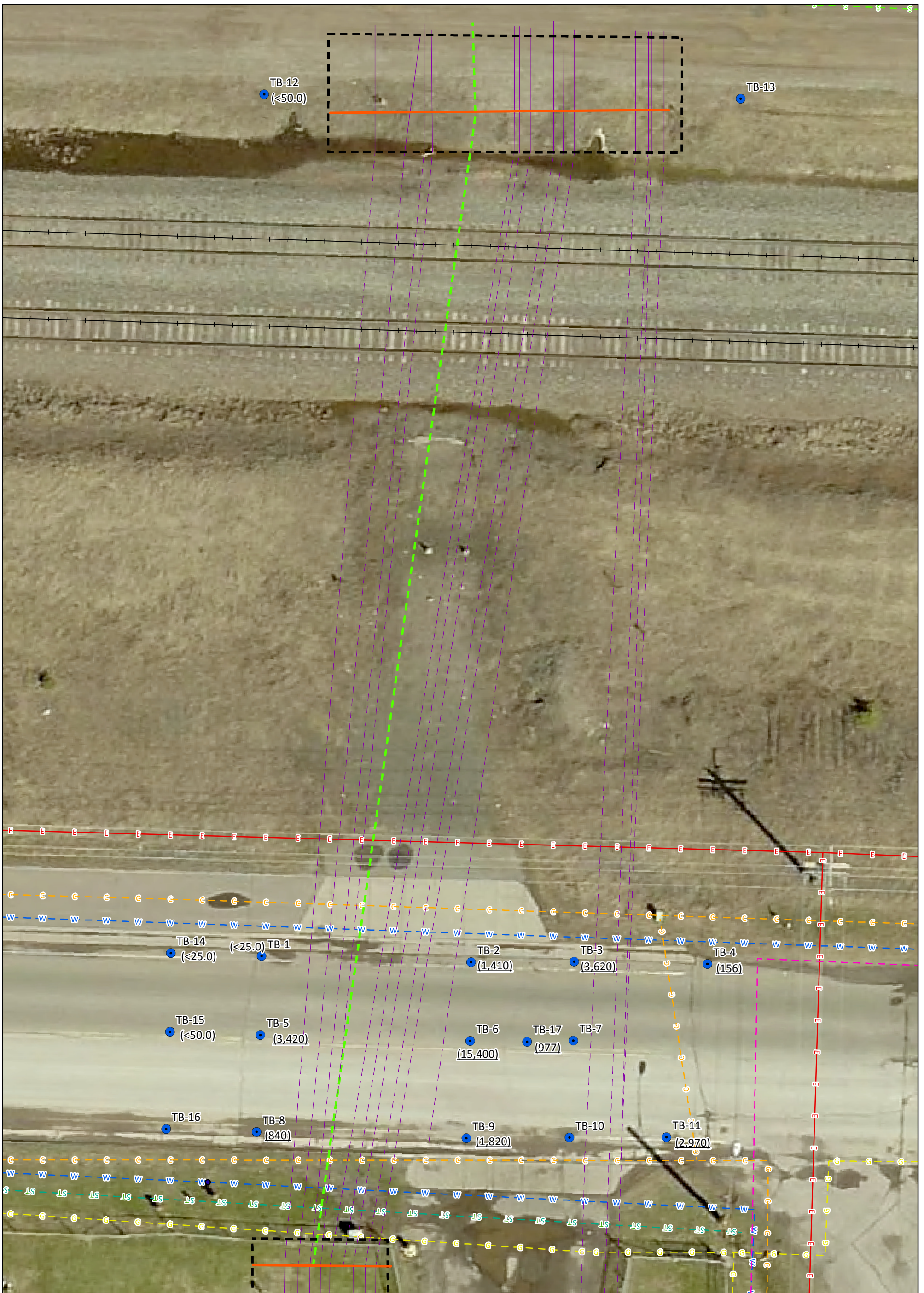
0 3.75 7.5 15 22.5 30 Feet

FIGURE 16

**DIRECT-PUSH BORING BENZENE RESULTS- 0-4 FT DEPTH
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUP191	PREPARED BY SAA	REF SCALE 1:180
DATE 11/24/2020	REVIEWED BY JZ	MAP SCALE 1 INCH = 15 FEET





- Legend**
- Geoprobe Location
 - ⊕ Manhole
 - Hydrant
 - Pipeline Cut Location
 - ▬ Pipeline Cut and Capping Trench
 - Excavated Pipeline
 - - - Inferred Remaining Pipeline Extent
 - - - Inactive Electric Line
 - - - Murphy Oil Pipeline
 - Overhead Electric Line
 - - - Communication Line
 - - - Gas Line
 - - - Underground Electric Line
 - - - Water Line
 - - - Railroad
 - - - Storm Sewer Line
 - - - Sanitary Sewer Line
 - - - 18" Sewer Line

(465.7) Benzene Concentration (ug/kg)

< Not detected above laboratory detection limit

Concentrations above the NR 720 Soil to Groundwater RCLs (5.1 ug/kg) are underlined

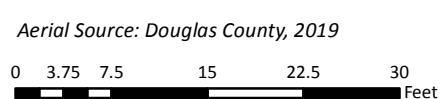
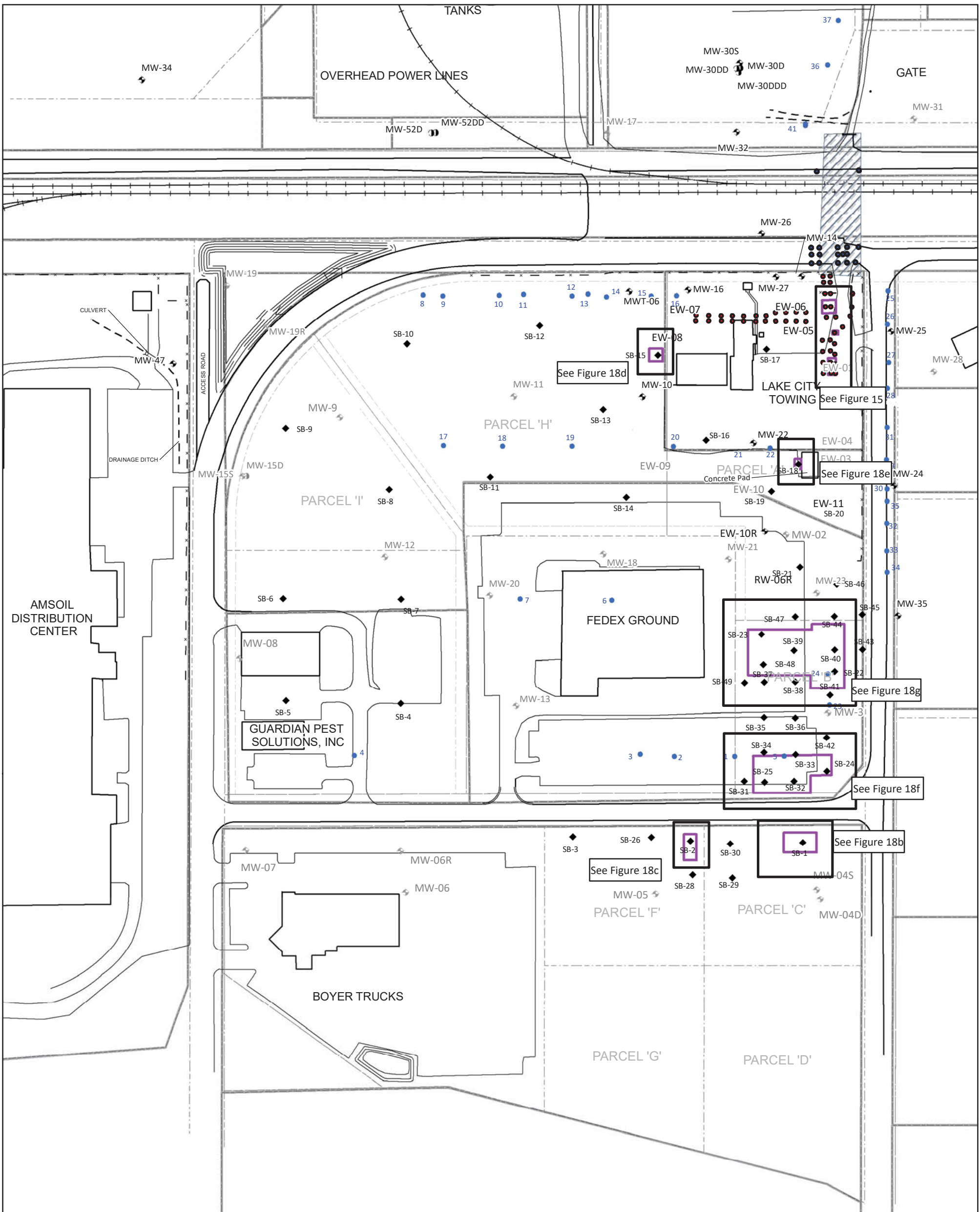


FIGURE 17

**DIRECT-PUSH BORING BENZENE RESULTS- 4-8 FT DEPTH
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUP191	PREPARED BY SAA	REF SCALE 1:180
DATE 11/24/2020	REVIEWED BY JZ	MAP SCALE 1 INCH = 15 FEET





Legend

- Surface Soil Sample Location
- Geoprobe Location
- Hand Auger Boring (1990)
- ◆ Hand Auger Sampling Location
- ◆ Monitoring Well Location
- ◆ Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- Abandoned Deep Monitoring Well Location
- Excavation Area
- - - Historical Property Offset
- - - Historical Property Boundary
- - - Gravel Access Road
- x - Fence
- ▨ Location of Pipelines Abandoned in Place
- + + Railroad
- ▭ Property Boundary

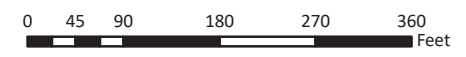


FIGURE 18A
 DIRECT CONTACT SOIL EXCAVATION
 TERMINAL DETAIL
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

PROJECT NO. WISUP191	PREPARED BY SAA	REF SCALE 1:2,160
DATE 7/24/2023	REVIEWED BY JZ	MAP SCALE 1 INCH = 180 FEET



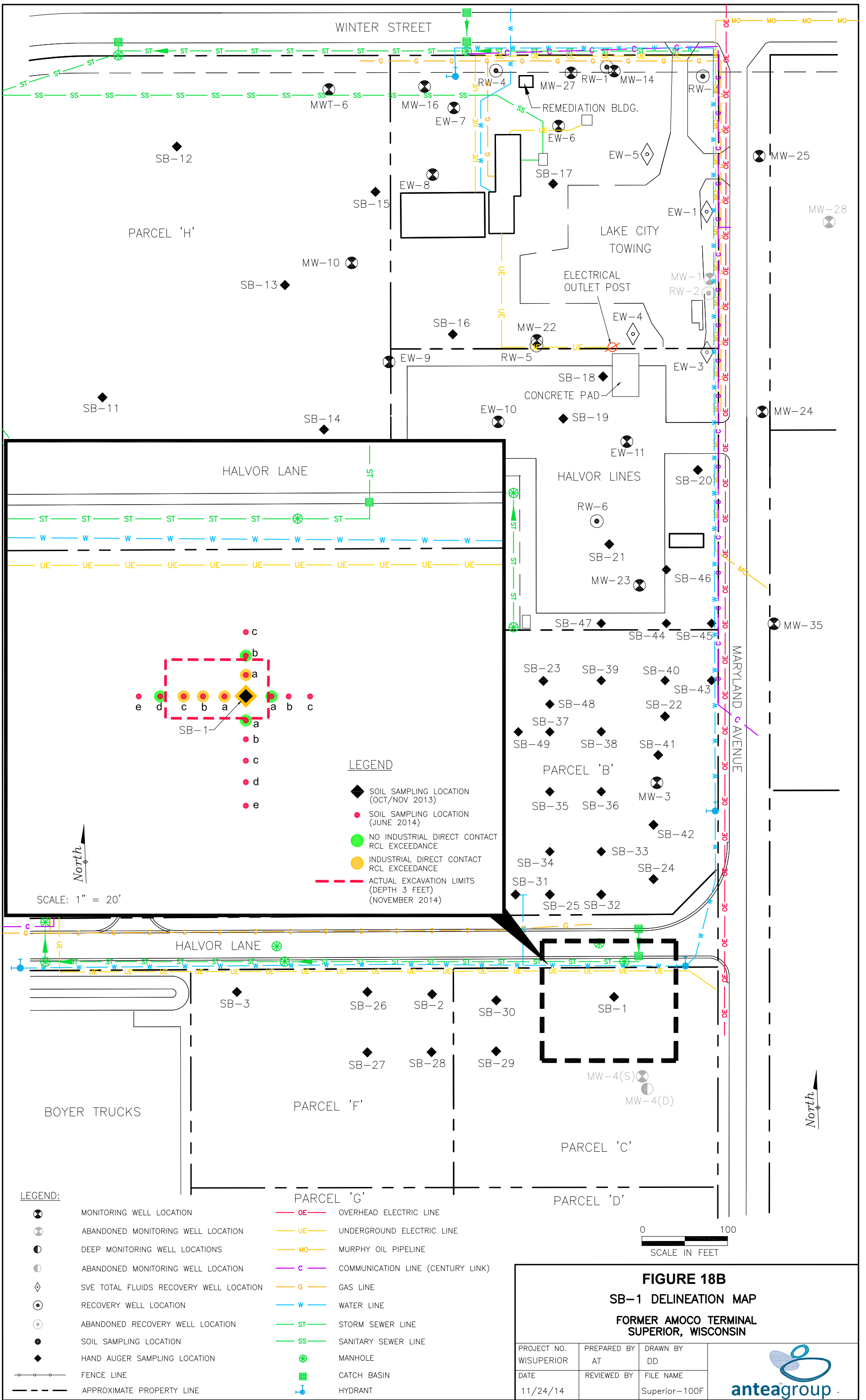


FIGURE 18B
SB-1 DELINEATION MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUPERIOR	PREPARED BY AT	DRAWN BY DD
DATE 11/24/14	REVIEWED BY	FILE NAME Superior-100F



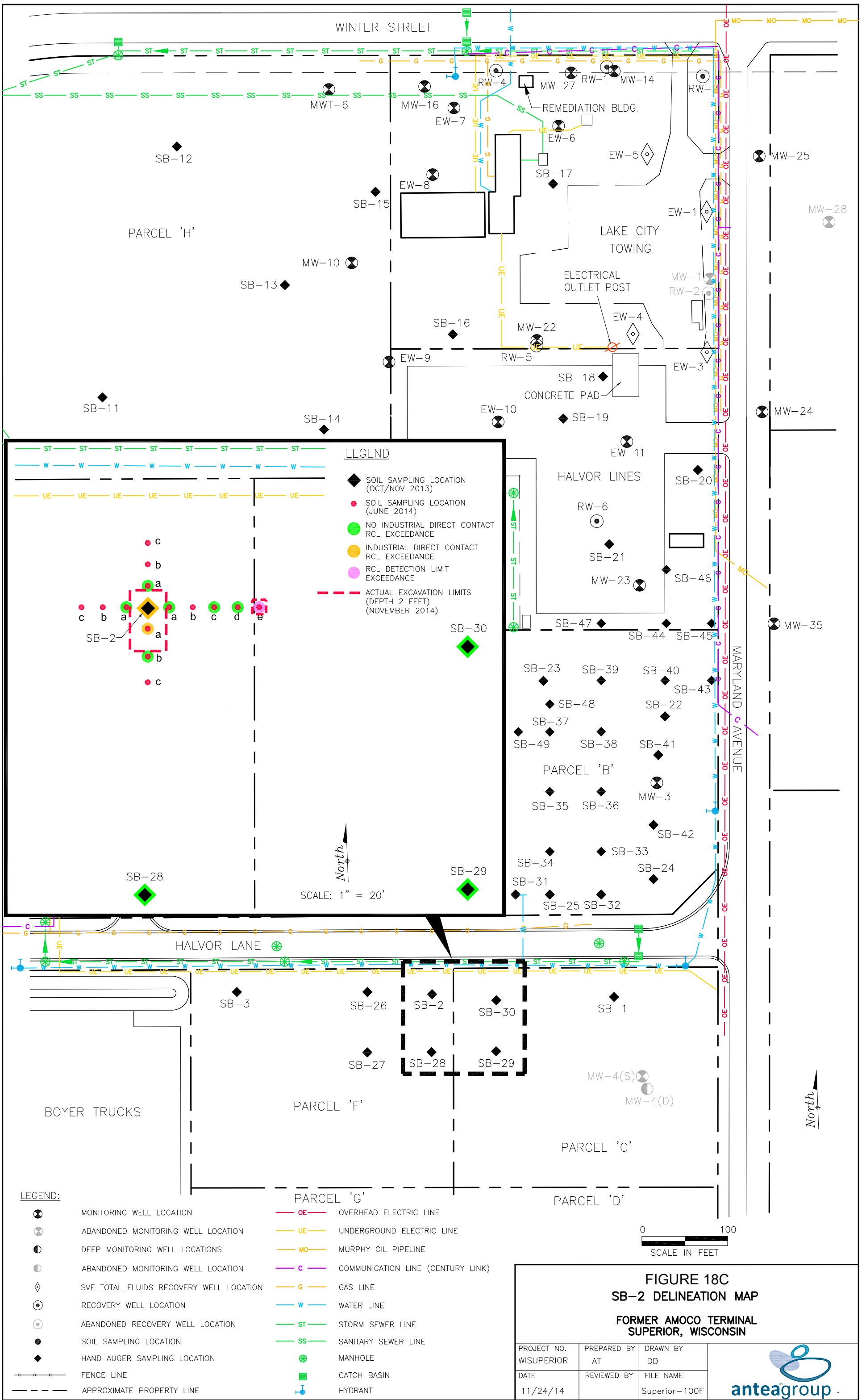


FIGURE 18C
SB-2 DELINEATION MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN



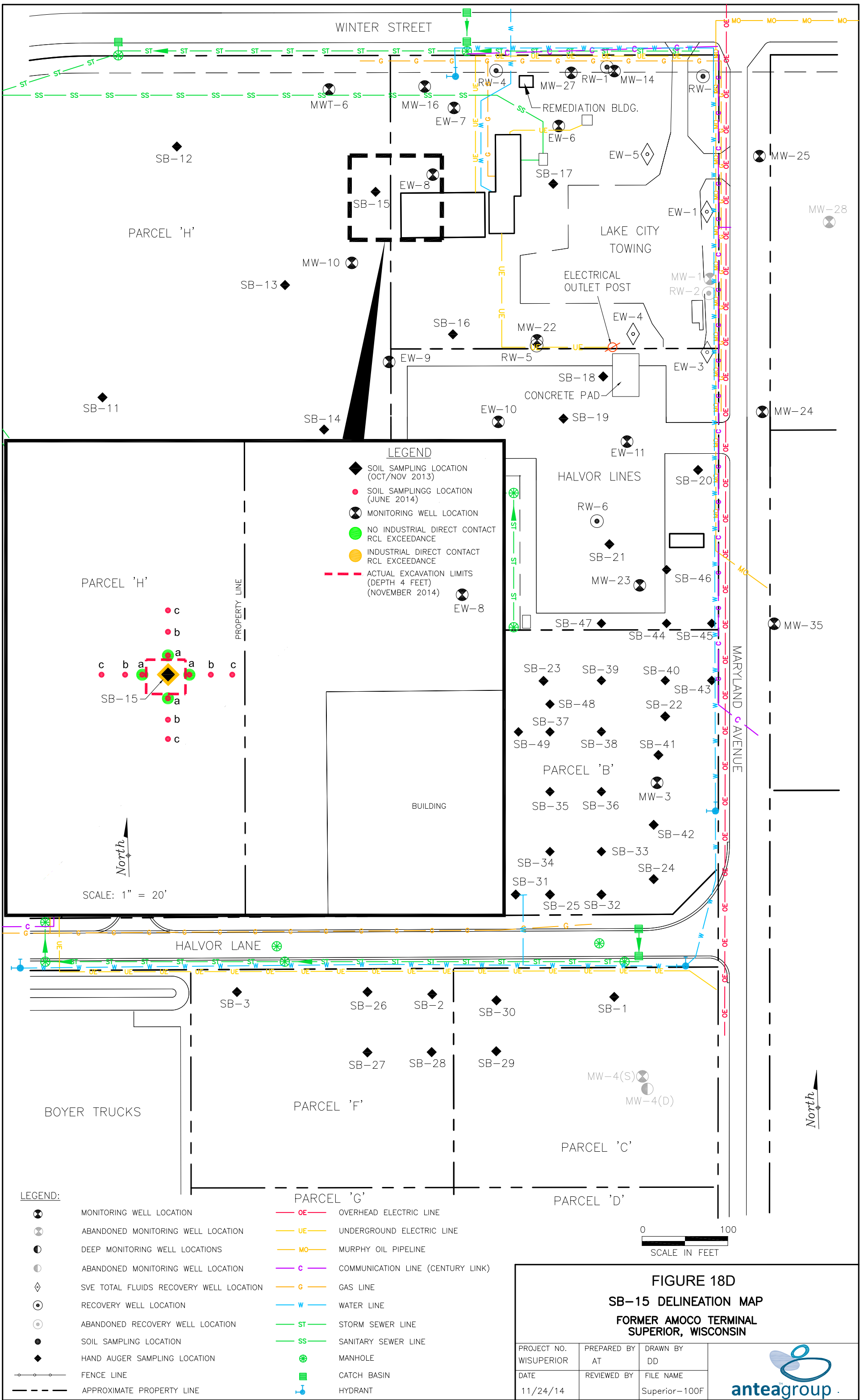
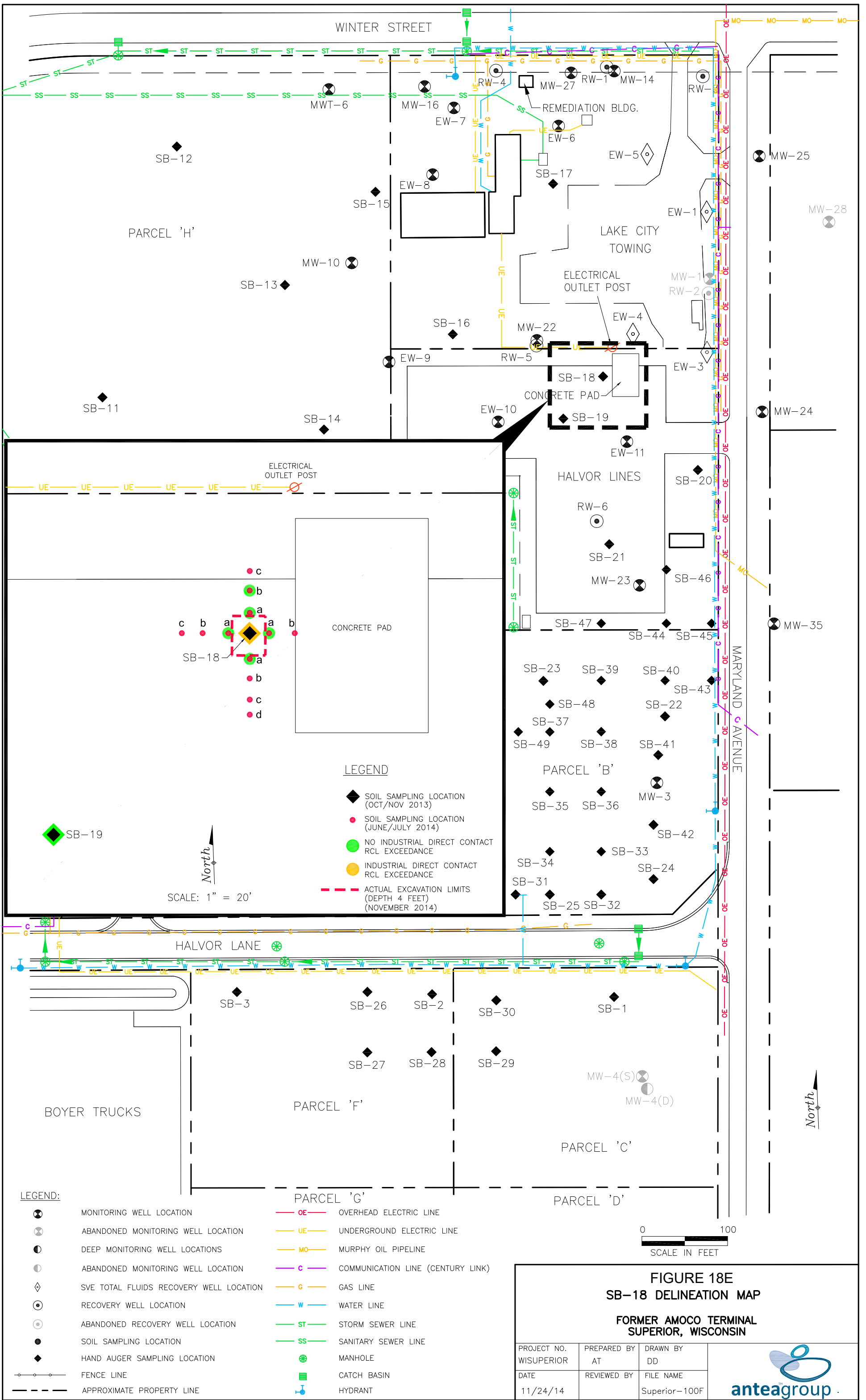


FIGURE 18D
SB-15 DELINEATION MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUPERIOR	PREPARED BY AT	DRAWN BY DD
DATE 11/24/14	REVIEWED BY	FILE NAME Superior-100F





**FIGURE 18E
SB-18 DELINEATION MAP**

**FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN**

PROJECT NO. WISUPERIOR	PREPARED BY AT	DRAWN BY DD
DATE 11/24/14	REVIEWED BY	FILE NAME Superior-100F



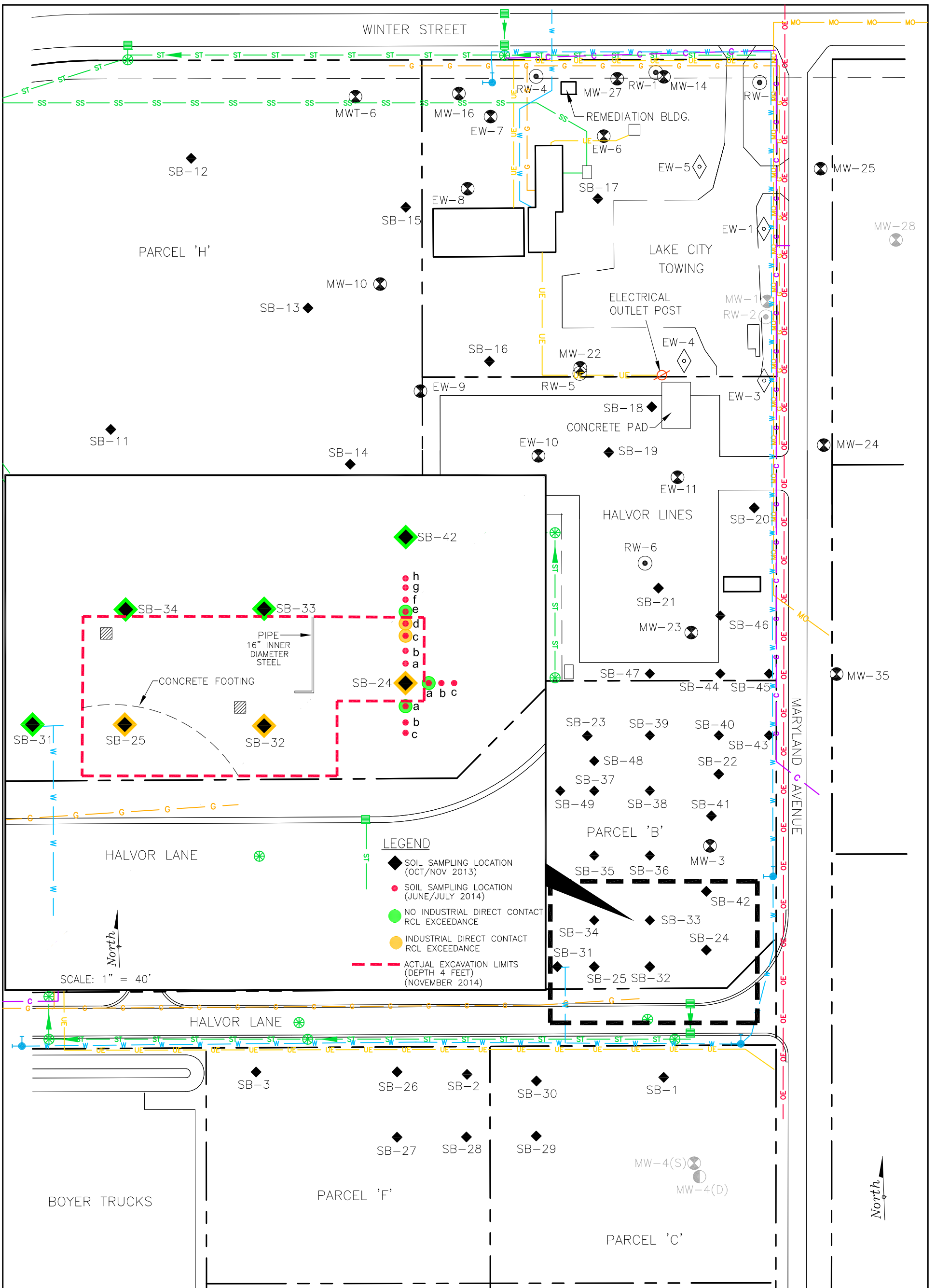
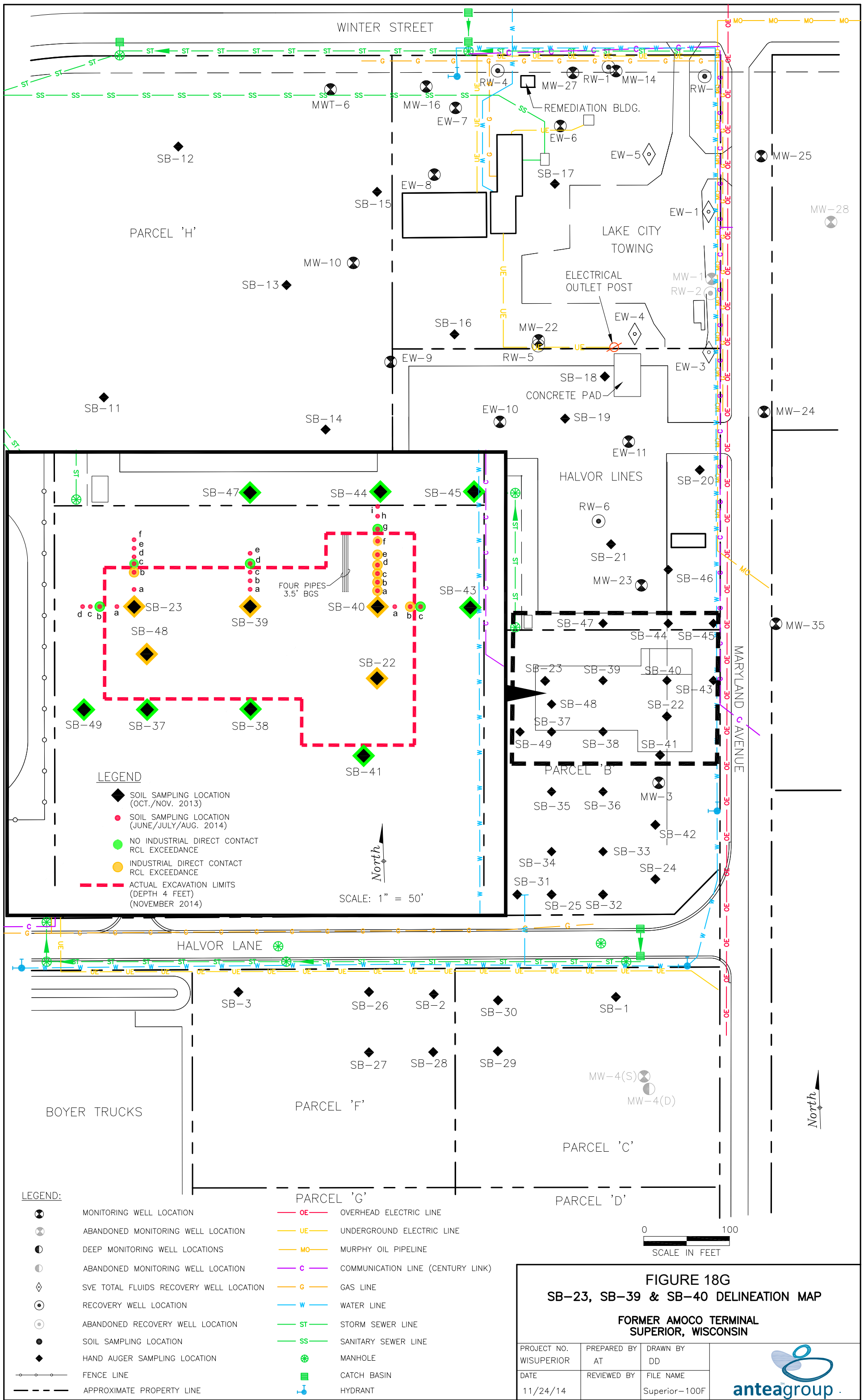


FIGURE 18F
SB-24 DELINEATION MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUPERIOR	PREPARED BY AT	DRAWN BY DD
DATE 11/24/14	REVIEWED BY	FILE NAME Superior-100F





LEGEND

- ◆ SOIL SAMPLING LOCATION (OCT./NOV. 2013)
- SOIL SAMPLING LOCATION (JUNE/JULY/AUG. 2014)
- NO INDUSTRIAL DIRECT CONTACT RCL EXCEEDANCE
- INDUSTRIAL DIRECT CONTACT RCL EXCEEDANCE
- - - ACTUAL EXCAVATION LIMITS (DEPTH 4 FEET) (NOVEMBER 2014)

North

SCALE: 1" = 50'

LEGEND:

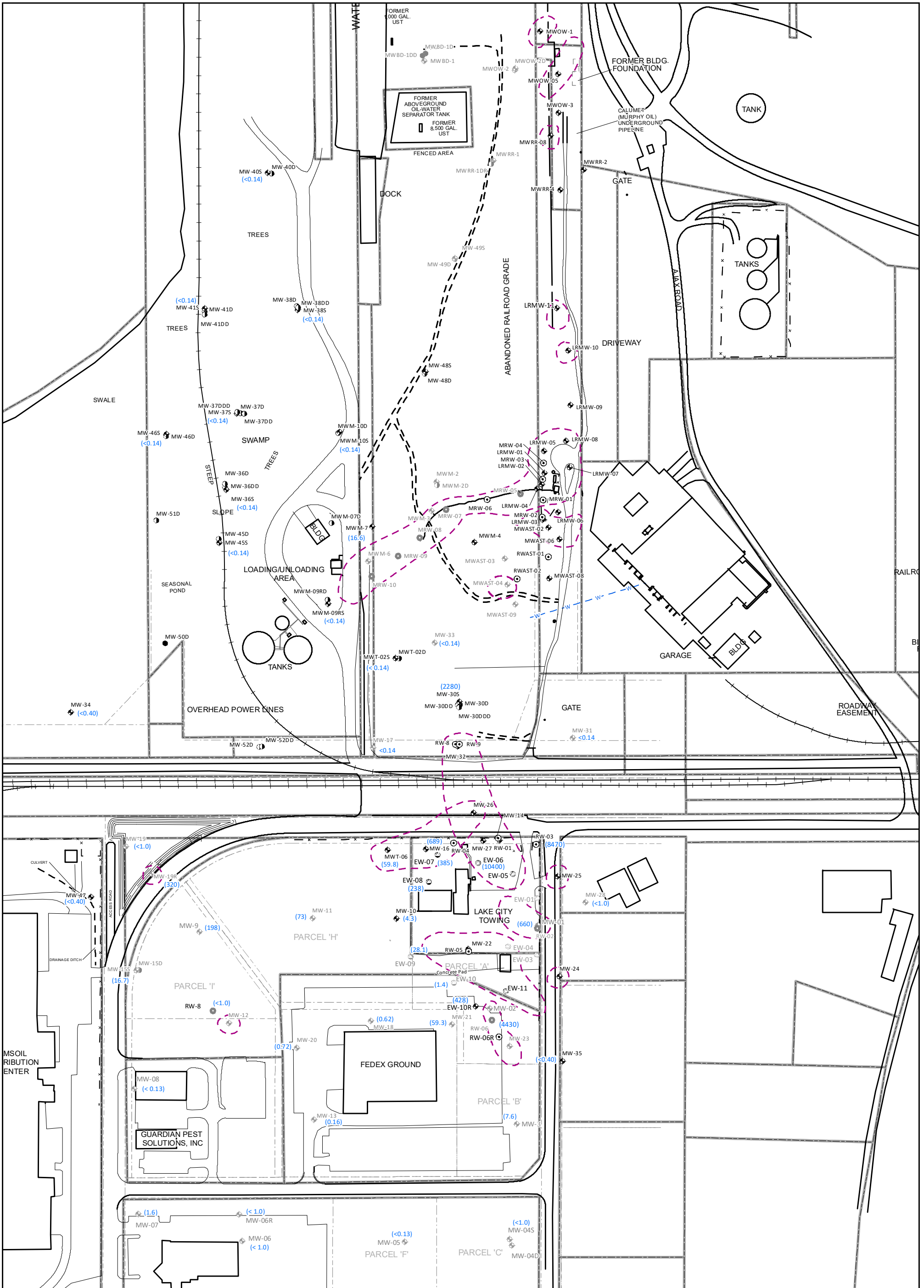
- ⊗ MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATIONS
- ABANDONED MONITORING WELL LOCATION
- ◇ SVE TOTAL FLUIDS RECOVERY WELL LOCATION
- ⊙ RECOVERY WELL LOCATION
- ⊙ ABANDONED RECOVERY WELL LOCATION
- SOIL SAMPLING LOCATION
- ◆ HAND AUGER SAMPLING LOCATION
- - - FENCE LINE
- - - APPROXIMATE PROPERTY LINE
- OE — OVERHEAD ELECTRIC LINE
- UE — UNDERGROUND ELECTRIC LINE
- MO — MURPHY OIL PIPELINE
- C — COMMUNICATION LINE (CENTURY LINK)
- G — GAS LINE
- W — WATER LINE
- ST — STORM SEWER LINE
- SS — SANITARY SEWER LINE
- ⊗ MANHOLE
- ⊗ CATCH BASIN
- ⊗ HYDRANT

0 100
SCALE IN FEET

FIGURE 18G
SB-23, SB-39 & SB-40 DELINEATION MAP
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUPERIOR	PREPARED BY AT	DRAWN BY DD
DATE 11/24/14	REVIEWED BY	FILE NAME Superior-100F





Legend

- ◆ Monitoring Well Location
- ◆ Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- Abandoned Deep Monitoring Well Location
- ⊙ Recovery Well Location
- ⊙ Abandoned Recovery Well Location
- ⊙ Extraction Well
- Abandoned Extraction Well Location
- ▭ Property Boundary
- Former Site Feature
- Gravel Access Road
- Fence
- Historical Property Offset
- Historical Property Boundary
- Railroad
- (1,390) Benzene Concentration (ug/L)

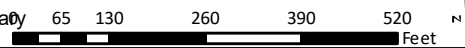
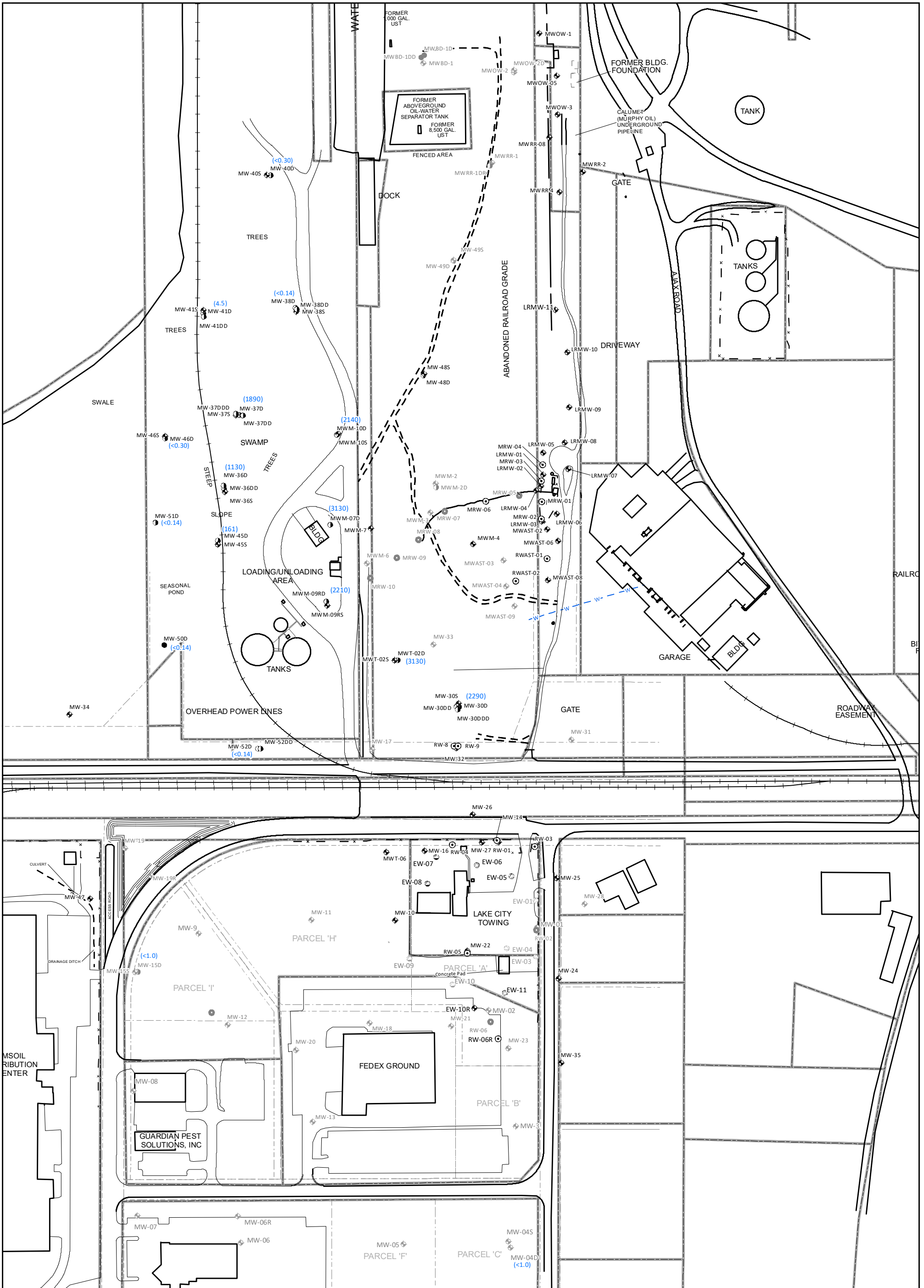


FIGURE 19A
 DISSOLVED PHASE BENZENE CONCENTRATION
 SHALLOW WELLS
 FORMER AMOCO TERMINAL
 SUPERIOR, WISCONSIN

PROJECT NO. WISUP23	PREPARED BY SAA/MB/MDE	REF SCALE 1:3,120
DATE 8/3/2023	REVIEWED BY LK	MAP SCALE 1 INCH = 260 FEET





Legend

- ◆ Monitoring Well Location
- ◆ Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- Abandoned Deep Monitoring Well Location
- ⊙ Recovery Well Location
- ⊙ Abandoned Recovery Well Location
- ⊕ Extraction Well
- ⊕ Abandoned Extraction Well Location
- Historical Property Boundary
- Former Site Feature
- Gravel Access Road
- Fence
- Historical Property Offset
- Railroad
- ▭ Property Boundary
- (1,390) Benzene Concentration (ug/L)

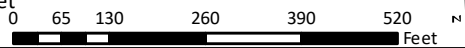
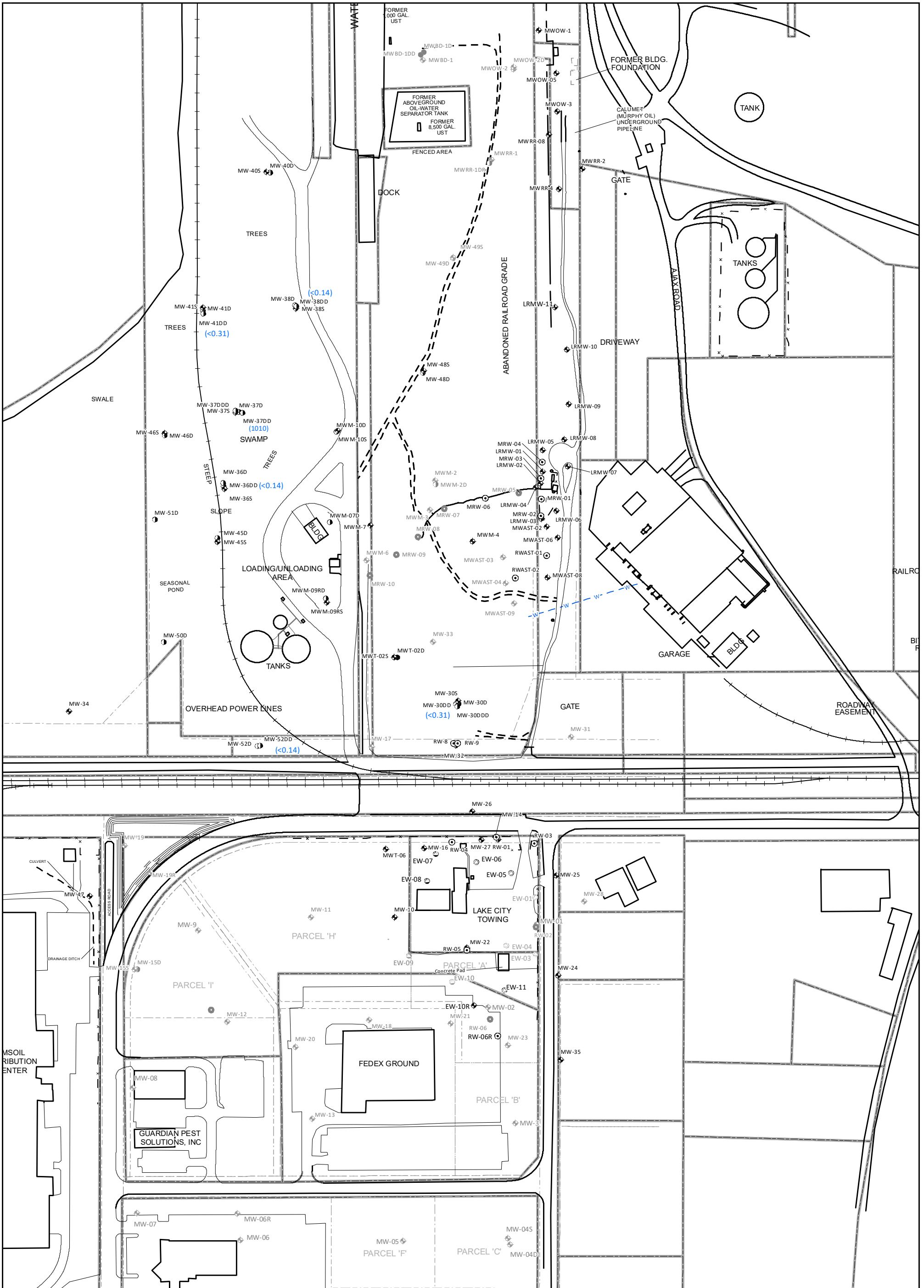


FIGURE 19B

DISSOLVED PHASE BENZENE CONCENTRATION
DEEP WELLS
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP23	PREPARED BY SAA/MB/MDE	REF SCALE 1:3,120
DATE 7/31/2023	REVIEWED BY LK	MAP SCALE 1 INCH = 260 FEET





Legend

- ◆ Monitoring Well Location
- ◆ Abandoned Monitoring Well Location
- Deep Monitoring Well Location
- Abandoned Deep Monitoring Well Location
- ⊕ Recovery Well Location
- ⊕ Abandoned Recovery Well Location
- ⊕ Extraction Well
- ⊕ Abandoned Extraction Well Location
- Historical Property Boundary
- Former Site Feature
- Gravel Access Road
- Historical Property Offset
- Railroad
- Property Boundary
- (1,390) Benzene Concentration (ug/L)
- × Fence

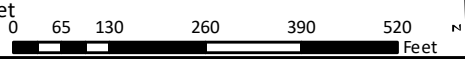


FIGURE 19C

DISSOLVED PHASE BENZENE CONCENTRATION
DD WELLS
FORMER AMOCO TERMINAL
SUPERIOR, WISCONSIN

PROJECT NO. WISUP23	PREPARED BY SAA/MB/MDE	REF SCALE 1:3,120
DATE 8/3/2023	REVIEWED BY LK	MAP SCALE 1 INCH = 260 FEET



Mr. John Hunt, WDNR
Site Investigation Report
Former Amoco Terminal



Appendix A – Sampling Methodology

Groundwater Sampling Using a Bailer SOP

PROCEDURE

Groundwater Sampling Using a Bailer SOP

Author: Mara Grislis

Co-Author: Rob Thompson

Antea Group USA

Approved by: (Signatures on File)

Scott Recker
ELM Practice Leader

September 1, 2021
Date

This is a controlled document with the original located at:
[Salesforce/ELM SOP/Groundwater Sampling Using A Bailer SOP](#)

This standard operating procedure is not meant to cover all state, local and client requirements. If your locale has different requirements, use the more stringent of the two.

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Groundwater Sampling Using a Bailer SOP

Groundwater Sampling Using a Bailer SOP

1.0 Scope/Applicability:

This standard operating procedure (SOP) provides guidance for sampling groundwater using a bailer.

Most contaminated site investigations utilize some form of a groundwater sampling or monitoring program to fully characterize the nature and extent of groundwater contamination. To obtain a representative groundwater sample for chemical analysis, it is important to first remove stagnant water in the monitoring well before collecting a sample. This may be achieved using a variety of instruments including pumps and bailers. Once purging is completed and the correct laboratory-provided sample containers have been prepared, sampling may proceed. Sampling may be conducted with a variety of devices and need not be the same as the device used for purging. During purging and sampling, a field data sheet shall be completed, or an equal electronic data collection form used, a laboratory Chain-of-Custody, and all pertinent data recorded in the site logbook.

This procedure is applicable to monitoring wells which are scheduled for sampling at sites where sampling groundwater from wells with a bailer is preferred. This procedure assumes that monitoring wells have been properly constructed according to appropriate regulatory requirements and the **Monitoring Well Installation and Completion SOP**.

2.0 Summary:

This procedure entails collecting a groundwater sample from a well using a bailer (disposable or reusable). A bailer is a portable grab sampler typically used for retrieving groundwater samples from monitoring wells. Bailers are sometimes used to purge groundwater monitoring wells prior to sampling, collect profile samples of light non-aqueous phase liquid (LNAPL), well development, and bail-down tests to measure recharge rates and calculate hydraulic conductivity. Commonly used bailer sizes for monitoring well sampling include 1-inch, 2-inch and 4 inch. The sampling equipment must be sterile or thoroughly decontaminated prior to sampling in order to prevent cross-contamination of wells. The number and types of sample containers to be filled is based upon the types of analyses to be performed on the sample. For certain types of analyses, samples may need to be filtered in the field prior to being transferred into sample containers. Sample containers are labeled, stored, packaged, and shipped according to pre-defined protocols that are intended to preserve sample integrity from the time the sample is collected until it is received by the analytical laboratory.

3.0 Health and Safety:

The Health and Safety considerations for conducting this procedure are described in the following documents:

- Site Health and Safety Plan – [H&S Plan Templates](#)
- Job Safety Analysis – [Well Development and Groundwater Sampling](#)

Specific health and safety considerations for this procedure include: none

Groundwater Sampling Using a Bailer SOP

4.0 Cautions and Interferences:

Cautions associated with conducting this procedure include:

- Before sampling, newly installed monitoring wells shall be allowed to stabilize for a minimum period of 24 hours or established state regulatory requirements after development.
- Analysis can be compromised by field personnel in two primary ways: 1) taking an unrepresentative sample, or 2) by incorrect handling of the sample.
- There are numerous ways of introducing foreign contaminants into a sample, and these must be avoided by following strict sampling procedures and utilizing trained field personnel.
- As a general rule, all monitoring wells should be pumped (preferred) or bailed prior to sampling.
- Ideally, sampling equipment should be completely inert, economical to manufacture, easily cleaned, sterilized, reusable, and able to operate at remote sites in the absence of power sources.
- Materials of construction for samplers and evacuation equipment (bladders, pump, bailers, tubing, etc.) should be limited to stainless steel, Teflon, and glass in areas where contaminant concentrations are expected to be at or near the detection limit. The tendency of organics to leach into and out of many materials make the selection of materials critical for trace analyses. The use of plastics, such as PVC or polyethylene may be used for evacuation and sampling equipment. In highly contaminated wells, disposable equipment (i.e., Teflon, polypropylene, or PVC bailers) may be appropriate to avoid cross-contamination.
- Materials of construction for sampling Per- and Polyfluoroalkyl Substances (PFAS) and evacuation equipment (bladders, pumps, bailers, tubing, etc.) should be limited to High Density Polyethylene (HDPE), silicone, stainless steel and/or polypropylene. The tendency of common sampling materials such as Teflon, Low Density Polyethylene (LDPE), and glass to contain PFCs make the selection of materials critical. All sample containers should be limited to containers made of HDPE or polypropylene.
- PFAS samples should not be filtered in the field prior to being transferred into sample containers as glass fibers from the filter can potentially absorb PFAS.
- PFAS sampling shall be conducted in accordance with the **Groundwater Sampling for PFAS SOP**. PFAS best practices are continually evolving and Antea Group policy is to contact Jack Sheldon or Caron Koll before conducting PFAS sampling.
- Wells should be sampled as soon as possible after purging (certainly no more than 24 hours) and should be sampled in order from least contaminated to most contaminated or from upgradient to downgradient if chemistry is unknown.
 - Ideally, water levels shall be allowed to recover to 90% of the static water level before sampling. This may be altered if wells are very slow (i.e., days) to recharge so samples can be collected.
 - All non-dedicated equipment shall be decontaminated in accordance with **Decontamination SOP** prior to use or upon completion of the sampling activities.

Groundwater Sampling Using a Bailer SOP

Interferences having the potential to impact the quality of the final product include:

- Stagnant water (e.g., the well water above the screened section in confined wells or unconfined wells with submerged screens) may contain foreign material inadvertently or deliberately introduced from the surface resulting in an unrepresentative sample.
- A non-representative sample can also result from excessive pre-bailing of the monitoring well. Excessive bailing can dilute or increase the contaminant concentrations from what is representative of the location.
- Water sample turbidity or chemical composition may impact the ability to measure certain field parameters.
- Excessive disruption of water during sample collection from the well or pouring into the bottle can serve to reduce the VOC concentration in samples as a result of volatilization.

5.0 Personnel Qualifications/Responsibilities:

Personnel performing this procedure are required to have the following qualifications:

- HSSE Training in accordance with [Health, Safety, Security, and Environment Practice](#)
- All Antea Group personnel must have sufficient training to meet the project objectives and be approved/calibrated in the Antea Group Workforce Optimization Database for SOP implementation.

The minimum roles involved and their responsibilities in this procedure include:

- **Project Manager (PM)** – Responsible for determining, communicating, and upholding the regulatory, client, and other requirements associated with performing this procedure as part of a project-specific scope of work.
- **Project Professional (PP)** – Responsible for creating project-specific scopes of work requiring this procedure in accordance with the identified requirements of this procedure.
- **Staff Professional (SP)** – Responsible for implementing project-specific scopes of work requiring this procedure in accordance with this procedure. Communicating to the PP or PM the project status and elevating any questions and unexpected field observations that may affect project completion.

6.0 Equipment/Supplies:

The following is the typical list of equipment required for completing this procedure:

- [Field Safety Equipment Bag](#)
- Traffic control devices, as defined in the [Antea Group HSSE Practices - Site Control Policy](#)
- Field logbook and appropriate field form(s)
- Waterproof permanent pens and markers
- Mobile phone - with digital camera and iForm app installed
- Spare locks - for buildings, compounds, and well covers (if appropriate)
- Spare well plug/expansion caps to replace as needed
- Ratchet – to remove bolts to access well covers (if appropriate)
- Keys - to access existing on-site locks (if appropriate)
- Decontamination supplies/equipment (if appropriate)

Groundwater Sampling Using a Bailer SOP

Procedure-specific equipment/supplies include:

- Sample containers and labels
- Chain-of-Custody forms/Custody seals
- Safety knife or Scissors
- 5-gallon buckets
- Plastic sheeting
- Shipping containers (i.e., coolers)
- Packing materials (i.e., bubble wrap, etc.) – typically supplied by the laboratory
- Ziploc-type plastic bags
- Field parameter instruments [interface probe, multiparameter meter (pH, temp., specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity meter]
- Calibration standards
- Nylon rope/or polypropylene twine (Tyger Twine)
- Bailers per sampling plan
- Bailer retrieval hook (can be used to retrieve bailers if bailer detaches from twine in the well while sampling)

7.0 Procedure:

1. Prepare for sampling using: **Fieldwork Documentation SOP, VOC Sample Collection SOP, Sample Packaging and Shipping SOP, QA/QC Sample Collection SOP**, and Groundwater Purge/Sampling Form - Purge (Attachment 1).
2. Water level and liquid levels measurement shall be taken in accordance with **Water and Liquid Level Measurement SOP**.
3. Measurement of field parameters shall be done in accordance with **Measurement of Monitoring Well Field Parameters SOP**.
4. Purge the well in accordance with **Purging a Monitoring Well with a Bailer SOP** or **Purging a Monitoring Well with a Pump SOP**. For no purge wells, skip this step.
5. Allow well to recharge after purging to 90% of the static water level. Variances from this requirement (e.g., for wells in low water yielding deposits) shall be approved by the Project Manager prior to implementation.
6. Assemble and label appropriate sample containers in accordance with **Sample Labeling SOP**.
7. Attach a new piece of nylon rope to a dedicated bailer, a disposable bailer, or a clean, decontaminated non-dedicated bailer.
8. Lower the bailer slowly and gently into the well, taking care not to shake the casing sides or to splash the bailer into the water. Stop lowering at a point adjacent to the screen, at or near the bottom of the well.
9. Allow the bailer to fill and then slowly and gently retrieve the bailer from the well while minimizing contact with the casing as much as practical, to prevent flakes of rust or other foreign material from getting into the bailer.
10. Remove the cap from the sample container and place it on the plastic sheet or in a location where it won't become contaminated or disturbed.
11. Begin pouring slowly from the bailer into the appropriate container. Fill sample containers for volatile organic compounds (VOCs) according to the procedures described in the **VOC Sample Collection SOP**. Samples shall

Groundwater Sampling Using a Bailer SOP

be collected in the following order:

- Volatile organic compounds
 - Semi-volatile organic compounds (SVOCs) and polyaromatic hydrocarbons (PAHs)
 - Inorganic constituents (metals)
 - Mercury
 - Cyanide
 - Total organic carbon (TOC)
 - Total organic halogen (TOX)
 - Samples requiring field filtration
 - Samples for field parameter measurement
 - Samples for nutrient anion determinations
12. Filter and preserve samples as required by the sampling plan.
 13. Tightly cap the pre-labeled sample container and place it in a pre-chilled cooler, being careful not to overtighten and breaking the glass container.
 14. Label all samples and log all samples on the Groundwater Purge/Sampling Form - Purge in accordance with **Fieldwork Documentation SOP**. Complete a Chain-of-Custody record in accordance with **Completing Chain of Custody SOP**.
 15. Dispose purge water in accordance with applicable regulations
 16. Package samples and complete necessary paperwork in accordance with **Sample Packaging and Shipping SOP**.
 17. Transport samples to decontamination zone in preparation for transport to analytical laboratory or to express shipping location.
 18. Dispose disposable bailer in accordance with the sampling plan and applicable regulations.

8.0 Data and Records Management:

To finalize fieldwork documentation in accordance with Antea Group's document control and retention policies:

- Recheck all data inputs to prevent errors.
- If data were generated from multiple/different sample locations (borings, wells, etc.) at the same site, use appropriate file naming conventions to distinguish one file from another (e.g., year month day- what, 20200408_MW-01_MW-15).
- Ensure that any repair work needed, issues to be resolved, and/or any uncompleted fieldwork are noted in the fieldwork documentation and reported to the PM.
- During the field effort, send photos of field forms to the PM for review at the end of each day (ultimately at the discretion of the PM).
- Scan and upload copies of field notes/forms and all health and safety documents (completed JSA and HASP) to the designated project folder in Sharepoint in Teams (e.g., "Field Notes and Data/Boring Logs") within 48-72 hours after project completion, unless instructed differently by the PM.

9.0 Quality Control:

- All data, observations, calculations must be documented in the field logbook, field forms, and/or any electronic data recording devices (field computers, digital cameras, etc.).

Groundwater Sampling Using a Bailer SOP

- Traceability must be ensured between any field notes and complementary field forms. This includes site name, author, date, and work task identifier (i.e., MW-4, Tank 02, Discharge point E1, etc.). This means referencing all other media used in field logbooks, using dates and page numbers linking forms together, or uploading all documents to the same destination.
- Any electronic data recording devices must be operated in accordance with manufacturer's operating instructions, unless documented otherwise.
- Monitoring and Measuring Equipment must be calibrated prior to the event and calibration results documented in accordance with **Equipment Calibration and Maintenance SOP**.

10.0 References:

- Monitoring Well Installation and Completion SOP
- Groundwater Sampling for PFAS SOP
- Decontamination SOP
- Fieldwork Documentation SOP
- VOC Sample Collection SOP
- Sample Packaging and Shipping SOP
- QA/QC Sample Collection SOP
- Groundwater Purge/Sampling Form - Purge (Attachment 1)
- Water and Liquid Level Measurement SOP
- Measurement of Monitoring Well Field Parameters SOP
- Purging a Monitoring Well with a Bailer SOP
- Purging a Monitoring Well with a Pump SOP
- Sample Labeling SOP
- Fieldwork Documentation SOP
- Completing Chain of Custody SOP
- Sample Packaging and Shipping SOP
- Equipment Calibration and Maintenance SOP

Groundwater Sampling Using a Bailer SOP

Attachment 1 Groundwater Purge/Sampling Form



(If found, please call 1-800-477-4711)

Groundwater Sampling Form

Site Name of Number: _____

Project Number: _____

Location (City,State) _____

Date: _____

Page: _____ of _____

Well ID: _____

Sample ID: _____

Traffic control set up at well (start time): _____

Casing volume (gal): _____

Purged by disposable bailer (Y/N)? _____

Measured in 5 gal pail? _____

Purge time (from): _____

Flow Rate (gal/min): _____

other: _____

other: _____

	Depth to water	T (deg C)	pH	Cond (mS/cm)	DO (mg/L)	ORP	TDS

Start purge time: _____

Volume purge (gal): _____

Purged dry (Y/N)? _____

80% water level Initial DTW

Pre-sampling depth to water (ft): _____

Sampled by disposable bailer (Y/N): _____

Time/date sample: _____

other: _____

Sample container type	No. of containers	Preserved by	At what pH	Filter type

No. of containers: _____

Sample color/clarity: _____

Duplicate sample number: _____

Time collected: _____

Samples cooled by ice (Y/N)? _____

Any conditions affecting sample quality (Y/N)? _____

Purge water disposal: _____

Well cover secured (time): _____

Traffic control removed (end time): _____

Sampled by: _____ Reviewed by: _____

Soil Sampling Using a Hand Auger & Trowel SOP

PROCEDURE

Soil Sampling Using a Hand Auger & Trowel SOP

Author: Michael Sobel

Antea Group USA

Approved by: (Signatures on File)

Scott Recker
ELM Practice Leader

June 3, 2021
Date

This is a controlled document with the original located at:

[Salesforce/ELM SOP/ Soil Sampling Using a Hand Auger & Trowel SOP](#)

This standard operating procedure is not meant to cover all state, local and client requirements. If your locale has different requirements, use the more stringent of the two.

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Soil Sampling Using a Hand Auger & Trowel SOP

Soil Sampling Using a Hand Auger & Trowel SOP

1.0 Scope/Applicability

This standard operating procedure (SOP) defines soil sampling using a hand auger and trowel sample collection and appropriate equipment for this activity.

Subsurface sampling attempts to remove soil below the ground surface in a relatively undisturbed state in order to quantify the extent of contamination at specific depths. Soil samples shall be collected based on visual evidence of contamination, discoloration or staining, organic vapor meter readings, odors, predetermined depth, and any other appropriate field screening method.

This procedure is applicable to the collection of soil samples from near ground surface by hand auger and trowel methods. The sampling depth achievable by this method is a function of several factors, including soil type, groundwater depth, equipment limitations, and the experience of the field geologist or sampler.

2.0 Summary

This procedure entails advancing a borehole manually utilizing a hand auger and/or trowel to a desired sample depth, retrieving the auger bucket, removing the soil sample from the auger bucket, homogenizing the sample, and collecting sample(s) in appropriate sample container(s) for shipment to an analytical laboratory for testing.

3.0 Health and Safety

The Health and Safety considerations for conducting this procedure are described in the following documents:

- Site Health And Safety Plan (HASP)– [H&S Plan Templates](#)
- Attend daily morning H&S tailgate meeting, task specific health and safety considerations associated with this procedure are addressed in the site-specific work plan. This plan will be discussed during the tailgate safety meeting prior to the initiation of fieldwork activities.
- Job Safety Analysis (JSA) – Document and discuss potential risks and any risk associated with collection of the samples.
- **Traffic Control for Fieldwork Activities SOP**
- Additional PPE requirements are to be evaluated based on task specific activities and work scope requirements during completion of the Job Safety Analysis.

4.0 Cautions and Interferences

Cautions associated with conducting this procedure include:

- Hand auger and trowel advancement into, and retrieval from, the borehole can be strenuous and therefore caution should be exercised to avoid personal injury (e.g. back injury).
- Unknown or unmarked underground utilities may be present, advance boreholes with caution, stop work and notify the Project Manager if an unidentified utility is

Soil Sampling Using a Hand Auger & Trowel SOP

encountered.

Interferences having the potential to impact the quality of the final product include:

- Rock or impenetrable soil, fill material over natural surface, utilities, dense vegetation, or location access may impact sample depth and location.
 - A different drilling method may be required, or it may be necessary to move to another location in order to achieve soil sampling objectives.
- Recently applied backfill
 - Sampling backfill will yield inaccurate results for that area. In such cases, digging through the fill down to the native soil or moving to another location may be necessary.

5.0 Personnel Qualifications/Responsibilities

Personnel performing this procedure and collecting samples are required, at minimum, to have completed all HSSE assigned and client specific training requirements. Training practice requirements are defined here:

- HSSE Training in accordance with [Health, Safety, Security, and Environment Practice](#).
- Antea Group personnel must have sufficient training to meet the project objectives and be approved/calibrated in the Antea Group Workforce Optimization Database for SOP implementation.

The minimum roles involved and their responsibilities in this procedure include:

- **Project Manager (PM)** – Responsible for determining, communicating, and upholding the regulatory, client, and other requirements associated with performing this procedure as part of a project-specific scope of work.
- **Project Professional (PP)** – Responsible for creating project-specific scopes of work requiring this procedure in accordance with the identified requirements herein.
- **Staff Professional (SP)** – Responsible for implementing project-specific scopes of work requiring this procedure in accordance with this procedure. Communicating to the PP or PM the project status and elevating any questions and unexpected field observations that may affect project completion.

6.0 Equipment/Supplies

The following is the typical list of equipment required for completing this procedure:

- [Field Safety Equipment Bag](#)
- Traffic control devices, as defined in [Antea Group HSSE Practices - Site Control Policy](#)
- Field logbook and appropriate field documentation form(s)
- Waterproof permanent pens and markers
- Mobile phone – with digital camera
- Spare locks - for buildings, compounds, and well covers (if appropriate)
- Keys - to access existing on-site locks (if appropriate)
- Decontamination supplies/equipment (if appropriate)
- Nitrile gloves (must be replaced between samples to minimize potential cross contamination)
- Hand tools; include but are not limited to:
 - Ratchet and socket set

Soil Sampling Using a Hand Auger & Trowel SOP

- Safety Knife
- Hammer
- Screwdrivers
- Pliers

Procedure-specific equipment/supplies include; but are not limited to:

- Pre-cleaned sample containers (with preservatives, if required)
- Sample labels (quantity is dependent on total number of samples to be collected)
- Analyte-free water (distilled or deionized)
- Sterile, industry approved sampling devices
- Other equipment as prescribed for collecting soil samples which include but are not limited to:
 - Stainless steel hand auger
 - Extension shafts (with extension key if applicable)
 - Cross handle
 - Decontamination materials (buckets, gloves, analyte-free water, non-phosphate detergent)
 - Tape measure (Imperial)
 - Leather or cloth work gloves
 - Clean plastic or Ziploc bags (for collecting soils)
 - If a larger volume is being collected plastic sheeting can be utilized
 - 55-gallon drum for soil cuttings (if necessary, based on field screening levels)
 - Photo Ionization Detector (PID)
 - Folding table (For examining soil cores and sample screening/preparation)
 - Scale or Terra Core Sampler

7.0 Procedure

Hand augers and trowels are typically used to collect soil samples from depths of 0 to 10 ft below ground surface (bgs), although the technique can sometimes be used to a depth as great as 30 ft bgs depending on tooling and geology.

Each hand auger is equipped with cylindrical stainless steel bucket with cutting teeth and a handle for a combined total length of 5 feet. Diameters of the bucket can vary from 1 inch to 12 inches, and handle extensions can be utilized to reach depths greater than 5 feet. Soil samples collected via hand auger shall be collected in accordance with the following procedure:

1. Select the proper equipment and sample containers as described in section 6.0 for collecting a sample.
2. Complete the sample labels with the appropriate client, site, date, time, and sample ID.
3. Depending on the type of soil material present, attach an appropriate auger bucket (e.g. regular auger bucket or a mud auger bucket) to an extension shaft. On the opposite end of the extension attach the cross handle.
4. Decontaminate the auger bucket prior to the initial use in accordance with **Equipment Decontamination SOP**.
5. Place the bucket firmly on the soil so that the auger, shaft and handle is in an upright position resembling a “T”. Turn the handle clockwise while maintaining downward pressure on the bucket. Utilize your entire body when rotating the auger. Derive your

Soil Sampling Using a Hand Auger & Trowel SOP

strength from your legs, core, and upper body in unison. Do not rapidly twist at the hip or utilize jerking rough movements. Such movements can put unnecessary strain on your lower back and abdominal muscles and cause straining. Auger down until the bucket is full of soil.

6. Lift the auger out of the borehole and deposit the excavated soil immediately in a Ziploc plastic bag or on an impermeable plastic liner to prevent any leaching of possible contaminants and preserve sample quality.
7. Immediately record sample lithology(ies). Include any observations such as color, staining, olfactory sense observations etc. in the field boring log or field documentation form/book.
8. Utilizing a Photo Ionization Detector (PID) screen the sample for volatiles. PIDs must be calibrated prior to the event and calibration results documented in accordance with the **Equipment Calibration and Maintenance SOP**. Ensure the inlet for the PID is close but not touching the soil media. Allow the reading to reach a peak and record the value in the field boring log or field documentation form/book.
9. Complete the sample labels with the appropriate client, site, date, time, and sample ID information and attach it to the sample container at the time of collection.
10. Collect the sample(s) as required.
 - Specific interval samples
 - Utilizing a clean pair of nitrile gloves collect a portion of the sample media and pack it into the appropriate analytical jar or container.
 - Collect QC samples in accordance with **QA/QC Sample Collection SOP**
 - Multi-interval samples
 - Homogenize soil samples from different sample intervals in accordance with **Soil Sample Homogenation SOP**.
 - Utilizing a clean pair of nitrile gloves collect a portion of the homogenized sample media and pack it into the appropriate analytical jar or container.
 - Collect QC samples in accordance with **QA/QC Sample Collection SOP**.
11. Securely tighten the cap on the sample container being careful not to overtighten and crack the sampling container.
12. Ensure sample headspace is within laboratory required tolerance.
13. Document the sample collection on field documentation forms and the chain of custody (COC).
14. Place collected samples in a cooler with ice in accordance with **Sample Packaging and Shipping SOP**.
15. Complete a Chain-of-Custody record in accordance with **Completing Chain of Custody SOP**.
16. Collection of additional samples.
 - Decontaminate the auger bucket in preparation for additional sample collection.
 - Repeat steps 5.0 thru 15.0 and attach additional extensions as needed to reach target sample depth and quantity.

The sampling equipment shall be decontaminated between each sample, protective work gloves will be used while progressing the auger or trowel through soils and new nitrile gloves shall be

Soil Sampling Using a Hand Auger & Trowel SOP

worn for each sample collection.

8.0 Data and Records Management

Before finalizing fieldwork documentation:

- Recheck all data inputs and documentation to prevent errors.
- If data was generated from multiple/different sample locations (borings, wells, etc.) at the same site, use appropriate file naming conventions to distinguish one file from another (e.g. year month day_location, 20200408_MW-01).
- Ensure that any repair work needed, issues to be resolved, and/or any uncompleted fieldwork are recorded in field documentation and reported to the PM
- During the field effort, send photos of field forms to the PM for review at the end of each day (ultimately at the discretion of the PM).

Scan and upload copies of field notes/forms and all health and safety documents (completed JSA and HASP) to the designated project folder in SharePoint in Teams (e.g. “Field Notes and QA/QC Sample Logs”) within 48-72 hours after project completion, unless instructed differently by the PM.

9.0 Quality Control

- All data, observations, calculations must be documented in the field logbook, field forms, and/or any electronic data recording devices (field computers, digital cameras, tablet, mobile phones, etc.).
- Recheck electronic data inputs against original documentation to prevent copy errors.
- Traceability must be ensured between any field notes and complementary field forms. This includes site name, author, date, and work task identifier (i.e., MW-4, Tank 02, Discharge point E1, etc.). This means referencing all other media used in field logbooks, using dates and page numbers linking forms together, or uploading all documents to the same destination.
- Any electronic data recording devices must be operated in accordance with manufacturer’s operating instructions, unless documented otherwise.

10.0 References

- VOC Sample Collection SOP
- Equipment Decontamination SOP
- Geological Observations SOP
- Soil Sample Homogenation SOP
- QA/QC Sample Collection SOP
- Sample Packaging and Shipping SOP
- Completing Chain of Custody SOP
- Fieldwork Documentation SOP
- Equipment Calibration and Maintenance SOP
- Control of Records SOP
- Boring Log (Attachment 1)

Soil Sampling Using a Hand Auger & Trowel SOP

Attachment 1 Boring Log

Soil Sampling Using Direct Push SOP

PROCEDURE

Soil Sampling Using Direct Push SOP

Author: Kyle Sorensen

Antea Group USA

Approved by: (Signatures on File)

Scott Recker
ELM Practice Leader

May 4, 2020
Date

This is a controlled document with the original located at:
[Salesforce/ELM SOP/Soil Sampling Using Direct Push SOP](#)

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Soil Sampling Using Direct Push SOP

Document Change Tracking Form

<u>Version</u>	<u>Revision date</u>	<u>Revisions</u>
00	3/20/2012	Final Document Based upon Previous Team Meetings and Management Approvals in March 2012.
01	5/4/2020	Final Document Based upon Previous Team Meetings and Management Approvals in April 2020

Soil Sampling Using Direct Push SOP

1.0 Scope/Applicability:

This standard operating procedure (SOP) provides guidance for sampling soil using a direct push sampler. Soil sampling using a split barrel sampler is typically used in conjunction with direct push drilling (see **Direct Push Drilling SOP**).

Subsurface sampling attempts to remove soil below the ground surface in a relatively undisturbed state in order to evaluate the extent of contamination at specific depths. Soil samples shall be collected based on visual evidence of contamination, discoloration or staining, photoionization meter or other organic vapor, or inorganic meter readings, odors, predetermined depth, and any other appropriate field screening method.

This procedure is applicable to soil samples collected as part of direct push drilling.

2.0 Summary:

This procedure entails collecting soil samples with a specially designed sample tube, such as a Macro-core® or dual-tube sampler. The sample tube is pushed and/or vibrated to the top of the specified sampling depth. The sample tube is then driven into the soil the length of the sampling tube. The probe sections and sample tube are then withdrawn from the borehole, and the sample is extruded from the tube into sample jars.

3.0 Health and Safety:

Antea Group personnel are not permitted to operate the direct push samplers. This is a task to be done by licensed drillers. Additionally, Antea Group staff are not permitted to function as driller's helpers during drilling activities. The Health and Safety considerations for conducting this procedure are described in the following documents:

- Site Health and Safety Plan – [H&S Plan Templates](#)
- Job Safety Analysis – (drilling subcontractor to provide this)

4.0 Cautions and Interferences:

Cautions associated with conducting this procedure include:

- Obtaining enough volume of soil for multiple analyses from one sample location may present a problem. The direct push soil sampling method recovers a limited volume of soil and it is not possible to reenter the same hole and collect additional soil.
- When multiple analyses are to be performed on soil samples collected with the direct push soil sampling method, it is critical that the relative importance of the analyses be identified. Identifying the order of importance will ensure that the limited sample volume will be used for the most crucial analyses.
- Removal of the macrocore sampler from the borehole is required to facilitate sample collection and increases the risk of material from the boring sidewall or from the ground surface falling into the borehole. To collect subsequent samples at a greater depth the sampler must be re-inserted into the borehole, thus increasing the likelihood that sidewall soils or material that had fallen into the borehole become integrated into the target sampling interval.

Soil Sampling Using Direct Push SOP

- Decontamination of sampling tubes, probe rods, adaptors, non-expendable points and other equipment that contacts the soil is necessary to prevent cross-contamination of samples. Sampling using disposable liners within the Macro-core® sample barrel can reduce the potential for cross contamination.

Interferences having the potential to impact the quality of the final product may include:

- Rock or impenetrable soil - a different drilling method may be required, or it may be necessary to move to another location in order to achieve soil sampling objectives.
- Consideration of the appropriate liner material based on sample interferences should be determined prior to mobilizing to the site. In general, use of cellulose acetate butyrate or polyvinyl chloride liners are typical. Additional liner materials are available upon request.
- During sampling, the bottom portion and outside of the sampling tube can be contaminated with soil from other depth intervals. Excess soil should be carefully wiped from the outside surface of the sampling tube and the top 3 inches of the sample should be discarded before extruding the sample into a sample jar if it appears the soil fell into the borehole from the sidewall above.
- Note that sample recovery less than 100% means that some of the sample has fallen out of the sample tube and the depth interval of the sample should be adjusted based on the assumption that the top of the sampler was advanced to the top of the intended sample interval and no deeper. This assumes that the soil near the top of the sampler is from the intact sample interval and not material that had fallen into the borehole from above (see discussion item above).
- Sample barrels should not be driven at intervals greater than the barrel length. In tight formations (e.g. stiff clays) it may be necessary to drive a sample barrel at a shorter interval than designed to avoid overfilling the liner. An overfilled liner can become logged in the sample barrel and cause significant delays recovering the liner or result in the loss of the sample interval.
- In general, as the length of the tube driven increases, the accuracy of the depth interval decreases, and is exaggerated in tighter formations.

5.0 Personnel Qualifications/Responsibilities:

Personnel performing this procedure are required to have the following qualifications:

- HSSE Training in accordance with [Health, Safety, Security, and Environment Practice](#)
- Antea Group personnel must have sufficient training to meet the project objectives and be approved/calibrated in the Antea Group Workforce Optimization Database for SOP implementation.

The minimum roles involved and their responsibilities in this procedure includes:

- **Project Manager** – Responsible for evaluating, communicating, and upholding the regulatory, client, and other applicable requirements associated with performing this procedure as part of a project-specific scope of work.
- **Project Professional** – Responsible for creating project-specific assignments where this procedure is required and ensuring execution of this procedure in accordance with the identified requirements described in this procedure.
- **Staff Professional** – Responsible for implementing project-specific assignments

Soil Sampling Using Direct Push SOP

requiring this procedure and ensuring execution of this procedure in accordance with the identified requirements described in this procedure.

6.0 Equipment/Supplies:

The following is the typical list of equipment required for completing this procedure:

- [Field Safety Equipment Bag](#)
- Traffic control devices, as defined in the [Antea Group HSSE Practices - Site Control Policy](#)
- Field logbook and appropriate field form(s)
- Field Boring Logs
- Waterproof permanent pens and markers
- Mobile phone – with a digital camera
- Hand-held GPS with sub-meter accuracy
- Spare locks - for buildings, compounds, and well covers (if appropriate)
- Keys - to access existing on-site locks (if appropriate)
- Decontamination supplies/equipment (if appropriate)

Procedure-specific equipment/supplies include:

- Tape measure (in 0.1-foot increments)
- Utility knife
- Duct tape
- Paper towels
- Sample jars with labels
- Cooler with ice
- Ziploc bags
- Photoionization Detector (or other screening meter)
- Table for examining drilled cores

7.0 Procedure:

Direct push sampling involves advancing a sampling probe utilizing a drop hammer or by applying direct hydraulic pressure using a slide or percussion hammer. Samples may be collected continuously such as at one-, two-, or four-foot intervals or at specific depth intervals. Two-foot intervals sampling is most common. Typically, a qualified subcontractor is used by Antea Group to perform the actual probing operation. To collect samples using push methods:

Direct push sampling shall be conducted in accordance with the following procedure:

1. Decontaminate the direct push sampler to be used for soil sampling in accordance with **Equipment Decontamination SOP**.
2. Soil sampling using a direct push sampler is performed in accordance with **Direct Push Drilling SOP**.
3. Once the sampler is removed from the hole, unscrew the cutting shoe and pull the liner out from the sample tube.
4. The exterior of the liner should be labeled with the top and bottom depth intervals using a permanent marker. If more than one rod/liner interval is being collected from the borehole, all liners should be arranged in the order collected with the top of each liner oriented in the same direction. The use of a core catcher can often be used to identify the

Soil Sampling Using Direct Push SOP

- leading edge.
5. Carefully cut the liner open, using a liner cutter. By cutting the sample liner along two sides, the sample can be exposed.
 6. Fill the appropriate sample jars using the material from the open sample liner, excluding the upper zone three-inches.
 7. Describe the sample lithology(ies) in accordance with **Geological Observations SOP**.
 8. Collect samples for VOC analysis in accordance with **VOC Sample Collection SOP**.
 9. Collect QC samples in accordance with **QA/QC Sample Collection SOP**.
 10. Remove any soil from the threads. Tighten the caps securely on the sample jars and/or air- tight containers (e.g. EnCore).
 11. Place collected samples in a cooler with ice in accordance with **Sample Packaging and Shipping SOP**. Complete a Chain-of-Custody record in accordance with **Completing Chain of Custody SOP**.
 12. Record the appropriate information in the Boring Log (Attachment 2) and in the field logbook in accordance with **Fieldwork Documentation SOP**.

If applicable and initial screening results indicate the presence of organic vapors, a headspace analysis shall be conducted on remaining portions of the sample in accordance with the **Headspace Analysis SOP**.

The sampling equipment shall be decontaminated between each sample, and new nitrile gloves shall be worn each time, in accordance with **Equipment Decontamination SOP**.

9.0 Data and Records Management:

Before finalizing fieldwork documentation:

- Recheck all data inputs to prevent errors.
- If data were generated from multiple/different sample locations (borings, wells, etc.) at the same site, use appropriate file naming conventions to distinguish one file from another.
- Ensure that any repair work needed, issues to be resolved, and/or any uncompleted fieldwork are noted in the fieldwork documentation.

Upon completion of fieldwork, field personnel shall file fieldwork documentation, any electronic field files, the Site Health and Safety Plan, and any associated health and safety forms to the correct project folder, in accordance with **Control of Records SOP**.

10.0 Quality Control:

- All data, observations, calculations must be documented in the field logbook, field forms, and/or any electronic data recording devices (field computers, digital cameras, tablet, mobile phones, etc.).
- Adequate traceability must be ensured between any field notes and complementary field forms.
- Any electronic data recording devices must be operated in accordance with manufacturer's operating instructions, unless documented otherwise.
- Monitoring and Measuring Equipment must be calibrated prior to the event and

Soil Sampling Using Direct Push SOP

calibration results documented in accordance with **Equipment Calibration and Maintenance SOP**.

11.0 References:

- [US EPA. 2016. Expedited Site Assessment Tools For Underground Storage Tank Sites A Guide For Regulators, Land and Emergency Management 5401R, EPA 51-B-16-004, October.](#)
- [US EPA. 2007. Science and Ecosystem Support Division \(SESD\) Operating Procedure: Soil Sampling. SESDPROC-300-R1. November 1, 2007.](#)
- Direct Push Drilling SOP
- ASTM D1586-11 Standard Test Method for Standard Penetration Test (SPT)
- Equipment Decontamination SOP
- Geological Observations SOP
- VOC Sample Collection SOP
- QA/QC Sample Collection SOP
- Sample Packaging and Shipping SOP
- Completing Chain of Custody SOP
- Boring Log (Attachment 1)
- Fieldwork Documentation SOP

Soil Sampling Using Direct Push SOP

Attachment 1 Boring Log

Mr. John Hunt, WDNR
Site Investigation Report
Former Amoco Terminal



Appendix B – Annual Site History Summary

Mr. John Hunt, WDNR
Site Investigation Report Addendum
Former Amoco Terminal
October 18, 2023



Appendix A – Annual Site History Summary

APPENDIX A

Terminal Annual Site History Summary

1988 –

- Wells Installed
 - February, 1988: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13
 - Note: These wells are also referred to as OW1, OW2, OW3, OW4, OW5, OW6, OW7, OW8, OW9, OW10, OW11, OW12, OW13
 - September, 1988: MW-14, MW-15, MW-16, MW-17, MW-18
- Soil Borings Completed
 - None other than those associated with well installations.
- Remediation System in Use/Installed
 - None
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: March, 1988 (MW-1 through MW-18); September, 1988 (MW-1 through MW-18)
 - Product: September, 1988 - Product samples collected from each MW-1, MW-2, MW-12, and MW-14
- Remediation Investigation
 - Gauged wells and determined product thickness with interface probe where product was present in wells.
- Other Remedial Activities
 - None
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - None
- Reports Submitted
 - Unknown
- WDNR Correspondence
 - Unknown

1989 –

- Wells Installed
 - June, 1989: MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-30, MW-31
 - December, 1989: RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7
- Soil Borings Completed
 - None other than those associated with well installations.
- Remediation System in Use/Installed

- None
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: April, 1989 (MW-1 through MW-18); July, 1989 (New wells, MW-19 through MW-31)
 - Product: July, 1989 - Product samples collected from each MW-1, MW-2, MW-12, MW-14, MW-22, MW-23, MW-24, MW-25, MW-26, and MW-27
- Remediation Investigation
 - Gauged wells and determined product thickness with interface probe where product was present in wells.
- Other Remedial Activities
 - July, 1989: Pump test (pumped RW-1) completed to characterize the transmissivity, storage coefficient, and the hydraulic conductivity of the surficial aquifer. This data was then used to calculate groundwater velocity.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - None
- Reports Submitted
 - Remedial Investigation Report, Delta Environmental Consultants, Inc., May 18, 1989.
- WDNR Correspondence
 - Report submittals

1990 –

- Wells Installed
 - None
- Soil Borings Completed
 - Hand-augered, shallow (range in depth from 3 to 8 ft bgs): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41
- Remediation System in Use/Installed
 - None
- Issues Encountered
 - Potential secondary source identified through groundwater chemistry results at MW-30, possibly from railroad or manufacturing facility.
- Sampling Dates
 - Soil: August, 1990 - SROS-1 and SROS-2 are soil/sediment samples collected from the base of the drainage ditch immediately below the locations where the surface water runoff samples (SWRO-1, SWRO-2) were collected.
 - Groundwater: August, 1990 (MW-1 through MW-31, where no product in well)
 - Surface Water Runoff: August, 1990 - Collected SWRO-1 and SWRO-2 from drainage ditch leading from terminal to St. Louis Bay
 - Waste stream characterization samples: from LNAPL recovery field tests in July, 1990 (liquid), August, 1990 (off-gas) and September, 1990 (liquid and off-gas)

- Remediation Investigation
 - June, 1990 - Conducted product bail-down tests for RW-5, MW-1, MW-14, MW-22, MW-24, MW-25, and MW-27 to determine the actual thickness of free petroleum product in selected monitoring wells.
 - July-August, 1990 - Field test performed to evaluate alternatives for the recovery of petroleum product from the surficial water table. Two wells, RW-4 and RW-6, were used for conducting field tests. Evaluated two methods:
 - Through use of conventional liquid extraction wells, each equipped with a single recovery pump;
 - Through use of conventional liquid extraction wells with a vacuum enhancement (VE) system.
 - Gauged wells and determined product thickness with interface probe where product was present in wells.
- Other Remedial Activities
 - None
- Manual LNAPL Recovery Methods
 - Field tests on RW-4 and RW-6.
- Cumulative Product Recovered
 - 212 gallons liquid product (1272 lbs – 11 lbs dissolved) from RW-4 and 1544 gallons liquid product (9264 lbs – 114 lbs dissolved) from RW-6 during field tests.
 - 720 lbs and 185 lbs of volatile petroleum hydrocarbons were removed from RW-4 and RW-6, respectively (by vacuum blower off-gas).
- Reports Submitted
 - Supplemental Site Investigation Report, Delta Environmental Consultants, Inc., November 1, 1990.
- WDNR Correspondence
 - Closure Response Document
 - Report submittals

1991 –

- Wells Installed
 - MW-32, MW-33, MW-34, MW-35
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - January, 1991 - Interim Product Recovery System (IPRS) was started up.
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: January (excluding MW-5), July, and August, 1991
- Remediation Investigation
 - January, April, June, July, August, September, October, November, and December, 1991 - Gauged wells and measured product thickness where LNAPL present in well.
- Other Remedial Activities
 - None

- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - None
- Reports Submitted
 - Supplemental Site Investigation Report, Delta Environmental Consultants, Inc., March 14, 1991
 - Product Recovery Field Test, Delta Environmental Consultants, Inc., April 19, 1991
- WDNR Correspondence
 - Report submittals

1992 –

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - IPRS (started Jan, 1991)
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: January and October (excluding MW-16, MW-21), 1992
- Remediation Investigation
 - January, February, March, September, and October, 1992 - Gauged wells and measured product thickness where LNAPL present in well.
- Other Remedial Activities
 - None
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - None
- Reports Submitted
 - Product Recovery Field Test, Delta Environmental Consultants, Inc., March 30, 1992.
- WDNR Correspondence
 - Report submittals.

1993 –

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - IPRS (started Jan, 1991)

- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: June and October, 1993 (excluding MW-3, MW-5, MW-9, MW-10, MW-11, MW-16, MW-18, MW-21)
- Remediation Investigation
 - August and October, 1993 - Gauged wells and measured product thickness where LNAPL present in well
- Other Remedial Activities
 - None
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - None
- Reports Submitted
 - 1992 Semi-Annual Groundwater Monitoring Report, Delta Environmental Consultants, Inc., February 1993.
 - 1993 Semi-Annual Groundwater Monitoring Report, Delta Environmental Consultants, Inc., September 1993.
 - 1993 Semi-Annual Groundwater Monitoring Report, Delta Environmental Consultants, Inc., October 1993.
 - Work Plan Amoco Superior Terminal. Delta Environmental Consultants, Inc., June 30, 1993.
- WDNR Correspondence
 - Raza Amjad (WDNR) Letter Request for Additional Information and Site Work Plan. May 14, 1993.

1994 –

- Wells Installed
 - June, 1994 - 3 deep monitoring wells, MW-4D, MW-15D, and MW-30D were installed
- Soil Borings Completed
 - December, 1994 - SB-1 through SB-19 were completed to delineate the free-phase hydrocarbon plume in the area of Tank 37 and SB-20 through SB-22 were completed to delineate the free-phase hydrocarbon plume in the area of Tank 38.
- Remediation System in Use/Installed
 - Interim Product Recovery System (IPRS) – monthly visits to record operational data and make adjustments.
 - In August, 1994, the 3 recovery pumps were disconnected so the free-phase hydrocarbon storage tanks at RW-1, RW-2, and RW-6 could be replaced with double-walled tanks.
 - The pumps in RW-1 and RW-6 were replaced with product skimmer pumps.
 - A product skimmer pump was installed in MW-16.
 - The pump in MW-2 was removed, but not replaced, due to the water/free-phase hydrocarbon interface being above the top of the screen.

- Construction of upgraded/expanded SVE and Product Recovery systems initiated on Nov. 8, 1994. System start-up procedure was performed on December 30, 1994.
 - SVE system consists of 12 SVE points.
 - Product Recovery system consists of 3 product recovery pumps in RW-1, MW-16, and RW-6.
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: April and October, 1994 (excluding MW-3, MW-5, MW-9, MW-10, MW-11, MW-16, MW-18, MW-21)
 - Note, as of October, 1994, 17 wells were in the monitoring program and sampled.
 - Soil: June, 1994 - select samples from installation of MW-4D, MW-15D, and MW-30D and December, 1994 - select samples from the 22 soil borings (December, 1994)
 - Product: December, 1994 - 3 Free phase hydrocarbon samples
 - Air: December, 1994 - SVE system samples collected
- Remediation Investigation
 - October, 1994 - Conducted free-phase hydrocarbon baildown tests in MW-1, MW-2, MW-12, MW-14, MW-16, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-32, RW-4, and RW-5.
 - Collected bioparameters (e.g. pH, conductivity, etc.) in other wells – MW-3, MW-4, MW-4D, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13, MW-15, MW-15D, MW-17, MW-18, MW-19, MW-20, MW-28, MW-30, MW-30D, MW-31, MW-33, MW-34, and MW-35.
- Other Remedial Activities
 - January, April, July, October, and November 1994 - Gauged wells and measured product thickness where LNAPL present in well.
 - July, 1994 - Hydraulic conductivity tests performed in MW-4D, MW-15D, and MW-30D
 - December, 1994 - Tank bottom/pipeline sludge investigated in area of Tank 38. Sludge was thin spread in area of Tank 38.
 - File search conducted at terminal to locate any info on tank bottoms which were potentially buried on site. No records found.
 - Monitoring wells with fluid above the top of the screen were evaluated for continued use in the monitoring program or potential replacement. Wells considered for replacement: MW-4S, MW-30S, and MW-32.
 - Utility conduits and potential receptors were re-evaluated.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - From April 28-Aug 30, 1994, recovery wells RW-1, RW-2, and RW-6 recovered approx. 103, 0, and 17 gallons of free-phase hydrocarbons, respectively.
 - Since IPRS start-up in Jan, 1991, the IPRS has recovered approximately 2,592, 102, and 815 gallons of free-phase hydrocarbons from RW-1, RW-2, and RW-6, respectively.
- Reports Submitted
 - 1994 Semi-Annual Groundwater Monitoring Report, Delta Environmental Consultants, Inc., April 1994.

- 1994 Semi-Annual Groundwater Monitoring Report, Delta Environmental Consultants, Inc., October 1994.
- Supplemental Remedial Action Plan Pilot Test, Delta Environmental Consultants, July 14, 1994.
- WDNR Correspondence
 - Report submittals.

1995 –

- Wells Installed
 - MW-30DD
- Soil Borings Completed
 - GP-1 through GP-5
- Remediation System in Use/Installed
 - IPRS and SVE system
- Issues Encountered
 - None
- Sampling Dates
 - Soil: from excavation material after Murphy pipeline release, two soil samples collected.
 - Soil: from soil borings after excavation had been backfilled.
 - Soil: 3 in-situ soil samples collected within brass liners during drilling of MW-30DD.
 - Air: Samples from SVE system collected monthly, except June and August.
 - Groundwater: April and November, 1995 (Semi-annual groundwater sampling).
 - Product: April, 1995 – 16 free phase hydrocarbon samples collected.
- Remediation Investigation
 - Dec. 28, 1995 - investigation documented removal of all soil impacted by a diesel fuel release from the Murphy Pipeline (along Maryland Ave, by MW-24).
 - Soil removal extended beyond the point of visible contamination about 45 feet north and south along the pipeline; about 1.5 feet east and west of the pipeline, to within 1 foot of Maryland Avenue and 1 foot of Amoco's fence, respectively; and about 2.5 feet deeper than the pipeline.
- Other Remedial Activities
 - February, April, and July, 1995 - Gauged wells and measured product thickness where LNAPL present in well.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - None
- Reports Submitted
 - 1995 Semi-Annual Ground Water Monitoring Report October 1994, Delta Environmental Consultants, Inc., April 6, 1995.
 - 1995 Semi-Annual Ground Water Monitoring Report October 1994, Delta Environmental Consultants, Inc., November 1995.
 - Construction Record and Operation Manual Interim Remediation System Upgrade and Expansion, Delta Environmental Consultants, Inc., April 12, 1995.

- Letter report submitted to WDNR: Deep Investigation Results and Workplan for Supplemental Investigation. Delta Environmental Consultants, Inc., October 20, 1995.
- WDNR Correspondence
 - Report submittals

1996 –

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - IPRS and SVE system
 - IPRS skimming systems operational from May-Dec, 1996
 - October, 1996 - Conducted pilot test of enhanced fluid recovery (EFR) system. The 3 extraction points were RW-1, RW-4, and MW-27.
- Issues Encountered
 - Single well skimmer (RW-06) did not recover any significant volume of free phase hydrocarbons, presumably due to a submerged well screen.
 - First pilot test of EFR system had problems with equipment and weather-related problems. Therefore, a 2nd pilot test was scheduled for 1997.
- Sampling Dates
 - Groundwater: April and October (excluding MW-4D, MW-4S, MW-6, MW-7), 1996
 - Air: Monthly air sampling of SVE system (except June and October)
- Remediation Investigation
 - None
- Other Remedial Activities
 - March and October 1996 - Gauged wells and measured product thickness where LNAPL present in well.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - SVE System - 2,100 equivalent gallons of gasoline recovered in 1996
 - IPRS multi-well skimming system (RW-01 and MW-16) recovered approximately 208 gallons of free phase hydrocarbons in 1996. Single well skimmer (RW-06) did not recover any significant volume of free phase hydrocarbons.
 - From EFR pilot test, recovered: 10 gallons free phase hydrocarbon, 450 gallons hydrocarbon-impacted groundwater, and 39 lbs of vapor phase-hydrocarbon (6-7 equivalent gallons of gasoline) over an 11-hour period.
- Reports Submitted
 - Letter Report: Investigation of Diesel Fuel-Impacted Soils from Murphy Oil Pipeline Near Amoco Terminal, Eder Associates, May 29, 1996.
 - Work Plan for Supplemental Investigation. Delta Environmental Consultants, Inc., October 9, 1996.
 - Pilot Test Work Plan, Delta Environmental Consultants, Inc., October 16, 1996
- WDNR Correspondence

- Report submittals

1997 –

- Wells Installed
 - None
- Soil Borings Completed
 - July, 1997 (to delineate dissolved phase plume off-site) - GP-MW17D, GP-101 through GP-103 and GP-105 (NW of MW-30), GP-104 (MW-19), GW-1.
- Remediation System in Use/Installed
 - Combined IPRS and SVE system
 - IPRS skimming systems operational from April-Nov, 1997
 - In July, 1997, the single well unit was installed at MW-02 whose screen was exposed to the free phase hydrocarbon layer.
 - Conducted 2nd pilot test in July, 1997 of enhanced fluid recovery (EFR) system. 3 extraction points were MW-2, MW-16, and MW-24.
 - Concluded EFR was not a cost-effective means of recovering free phase hydrocarbon at the Site.
- Issues Encountered
 - Single well skimmer (RW-06) did not recover any significant volume of free phase hydrocarbons, presumably due to a submerged well screen.
 - Due to operational problems with the skimmer pump, no significant volume of free phase hydrocarbon was recovered from MW-02.
- Sampling Dates
 - Groundwater: April and November, 1997 (Semi-annual groundwater sampling)
 - Groundwater: from soil borings GP-MW17D, GP-101, GP-102 (screened for PVOC on-site, but not submitted to lab), GP-104, GP-105
 - Air: Monthly air sampling of SVE system until June, 1997 (except January). Quarterly thereafter – July, August, and October, 1997.
 - Product: Free phase hydrocarbon sample collected from soil boring GP-103.
 - Summary of Historic free phase hydrocarbon samples total 33 samples – 4 from September, 1988; 10 from July, 1989; 3 from December, 1994; and 16 from April, 1995.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April and June, 1997 - Gauged wells and measured product thickness where LNAPL present in well.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - SVE System - 393 equivalent gallons of gasoline were recovered in 1997.
 - IPRS multi-well skimming system (RW-01 and MW-16) recovered:
 - In 1997: approximately 401 gallons of free phase hydrocarbons in 1997. Single well skimmer (RW-06) did not recover any significant volume of free phase hydrocarbons.

- None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - Combined IPRS and SVE system
 - In March, 1999, new free phase hydrocarbon recovery skimmer pump systems were installed in RW-01 and RW-06.
- Issues Encountered
 - None
- Sampling Dates:
 - Groundwater: March and August of 1999.
- Remediation Investigation
 - None
- Other Remedial Activities
 - Depths to groundwater and thickness of free product measured in MW-02, MW-14 and MW-27 before installing new IPRS skimmer pumps.
 - March and August, 1999 - Groundwater elevation measurements were collected.
- Manual LNAPL Recovery Methods
 - Bailing
- Cumulative Product Recovered
 - Using new pumps, during period of March 4-April 20, 1999, volumes of approximately 266 gallons and 14 gallons of free phase hydrocarbons were recovered from RW-01 and RW-06, respectively.
- Reports Submitted
 - Site Investigation and Interim Response Actions Report, Delta Environmental Consultants, Inc., June 17, 1999.
- WDNR Correspondence
 - Report submittal

2000 –

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - Combined IPRS and SVE system
 - Two skimmer pumps located in RW-1 and RW-6.
 - Approximately 17,856 pounds of vapor-phase hydrocarbons were recovered from December, 1998 through June, 2000.
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: April, 2000.
- Remediation Investigation
 - None

- Other Remedial Activities
 - April and October, 2000 - Groundwater elevation measurements were collected.
 - May, 2000 - Free phase hydrocarbon thicknesses in the wells were measured.
- Manual LNAPL Recovery Methods
 - Bailing – monthly from July, 2000 through April, 2001.
- Cumulative Product Recovered
 - Manual Bailing: Approximately 190.7 gallons of free phase hydrocarbons have been recovered from December, 1998 through June, 2000.
 - Skimmer Pumps (RW-1, RW-6, and MW-2): Approximately 445.3 gallons of free phase hydrocarbons have been removed.
 - Interim Recovery Measures: To date (August 10, 2000), a total of 1,956 gallons of free phase hydrocarbon has been recovered through interim recovery measures.
 - SVE System: To date (August 10,2000), the SVE system has recovered a total of 64,658 pounds of vapor-phase hydrocarbons, equivalent to approximately 10,992 gallons of gasoline.
 - During the period of December, 1998 through June, 2000, a total of 636 gallons of free phase hydrocarbon product has been recovered.
- Reports Submitted
 - Letter Report: Interim Action and Groundwater Monitoring Report, Delta Environmental Consultants, Inc., August 10, 2000.
 - Summary of Activities and Recommendations for Additional Investigation, Delta Environmental Consultants, Inc., September 27, 2000.
 - Remedial Operations – Air Emissions Summary Report First, Second, and Third Quarters Year 2000. Delta Environmental Consultants, Inc., November 3, 2000.
- WDNR Correspondence
 - Report submittals

2001 –

- Wells Installed
 - None
- Soil Borings Completed:
 - None
- Remediation System in Use/Installed
 - Combined IPRS and SVE system
 - Two skimmer pumps in RW-1 and RW-6.
- Issues Encountered
 - July 5, 2001 – WDNR associates free product discovered on ABC rail property with Amoco.
 - Temporary down time of SVE system due to trenching at the site to install a new water line to the former terminal building.
- Sampling Dates
 - Air: Effluent air from SVE system sampled quarterly.
 - Groundwater: Semi-annual sampling in April, August, and October 2001.
 - Soil: push-probe samples collected in November 2001 in Barge Dock Area and in Oil-Water Separator Area.

- Soil: Confirmation soil samples from excavation in Barge Dock Area.
 - Soil: from bottom of excavation in Oil Water Separator Area.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April, August, and October, 2001 - Groundwater elevation measurements were collected and wells with free phase hydrocarbon were gauged.
- Manual LNAPL Recovery Methods
 - Bailing – monthly from July, 2000 through April, 2001.
- Cumulative Product Recovered
 - Bailing: From July, 2000 through January, 2002, 223 gallons of free phase hydrocarbon were removed.
 - Skimmer Pumps: removed approximately 405 gallons of free phase hydrocarbon
 - Interim Recovery Measures: To date (April 1, 2002), a total of 2,672 gallons of free phase hydrocarbon has been recovered through interim recovery measures.
 - SVE system: to date (April 1, 2002), 61,071 pounds of vapor phase hydrocarbons have been recovered.
 - From July, 2000 through January, 2002 recovered a total of 716 gallons of free phase hydrocarbon product.
- Reports Submitted
 - Environmental Project Review, Former Amoco Terminal, Delta Environmental Consultants, Inc., August 16, 2001.
 - Remedial Operations – Air Emissions Summary Report Fourth Quarter Year 2000. Delta Environmental Consultants, Inc., January 8, 2001.
 - Remedial Operations – Air Emissions Summary Report Semi Annual July 2001. Delta Environmental Consultants, Inc., July 11, 2001.
- WDNR Correspondence
 - Report submittals

2002 –

- Wells Installed
 - None
- Soil Borings Completed
 - October, 2002 – 43 borings (31 CPT and 12 Geoprobe) in previously identified areas of concern including the Barge Dock Area, Oil-Water Separator Area, Railroad Loading Rack Area, Manifold Area, AST Area, and the Former Terminal.
 - In Former Terminal Property: CPT borings TWT-1, TWT-2, T-4, T-5 TWT-6, T-8, and TWT-9. Geoprobe borings TWT-8, TWT-10, and TWT-11.
- Remediation System in Use/Installed
 - Combined IPRS and SVE system
 - Two skimmer pumps in RW-1 and RW-6 at the Former Terminal Property.
 - Approximately 1,226 pounds of vapor-phase hydrocarbons were recovered in 2002.
- Issues Encountered
 - None

- Sampling Dates
 - Soil: October, 2002 – samples collected from soil borings.
 - Groundwater: November, 2002 – samples collected from temporary wells in soil borings TWT-2(s), TWT-2(d), TWT-9, TWT-10, and TWT-11.
 - Groundwater: April and November, 2002
 - Product: October, 2002 – Free-phase hydrocarbon samples collected from temporary wells in soil borings.
 - Soil core: a soil core sample was collected from boring TWT-6 at 14.8 to 15.5 feet bgs within the zone of high UVF readings for physical parameter analysis, including hydraulic conductivity.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April and November, 2002 - Depth to ground water measurements and free-phase hydrocarbon thicknesses were measured.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - Interim Recovery Measures: To date (April 1, 2002), a total of 2,672 gallons of free phase hydrocarbon has been recovered through interim recovery measures.
 - SVE system: to date (April 1, 2002), 61,071 pounds of vapor phase hydrocarbons have been recovered.
 - To date (June 24, 2003), approximately 63,800 pounds of vapor-phase hydrocarbons have been recovered by the SVE system.
 - Skimmer Pumps: Approximately 542 gallons of free-phase hydrocarbon removed in 2002.
 - To date (June 24, 2003), approximately 3,122 gallons of free-phase hydrocarbon have been recovered.
- Reports Submitted
 - Letter Report: Status Report, Delta Environmental Consultants, Inc., April 1, 2002.
 - UST Removal and Soil Excavation, Delta Environmental Consultants, Inc., October 2002.
 - Subsurface Investigation Work Plan and Interim Remedial Response, Delta Environmental Consultants, Inc. September 20, 2002.
 - Remedial Operations – Air Emissions Summary Report Semi Annual January 2002. Delta Environmental Consultants, Inc., January 11, 2002.
 - Remedial Operations – Air Emissions Summary Report Semi Annual. Delta Environmental Consultants, Inc., September 17, 2002.
- WDNR Correspondence
 - Report submittals

2003

- Wells Installed
 - August, 2003 – 22 borings advanced and completed as groundwater monitoring wells.
 - October, 2003 – Well MW-9 and MW-19 were abandoned and later replaced due to road construction.

- Soil Borings Completed
 - August, 2003 – 22 borings advanced and completed as groundwater monitoring wells.
 - October, 2003 – 30 soil borings were advanced as part of a subsurface soil exploration project conducted by Twin Ports Testing, Inc. for the proposed Halvor Lines site development project. Refer to 'Subsurface Soil Exploration Report' prepared by Twin Ports Testing, Inc. dated January 21, 2004.
- Remediation System in Use/Installed
 - Combined IPRS and SVE system
 - Skimmer pumps in RW-1 and RW-2, temporarily at RW-6. The pump located in RW-6 at the beginning of 2003 was moved to RW-2 in July, 2003.
 - September, 2003 – dual-phase product extraction test conducted at RW-1 and RW-2 of the Former Terminal Property and at MRW-3 of the Barge Dock Property. Test was to evaluate product recovery effectiveness with the intention of increasing it through vacuum-enhanced technology. The pilot tests included groundwater drawdown via pumping, vapor extraction, and free phase hydrocarbon accumulation.
 - Test points TP-1 through TP-4 located on former Amoco Terminal Property. Test points installed in August, 2003.
- Issues Encountered
 - The IPRS was intermittently out of service from January, 2003 through June, 2004 due to malfunctioning pumps.
- Sampling Dates
 - Groundwater: April and October, 2003 as part of semi—annual groundwater sampling.
 - Groundwater: April, 2003 – temporary wells sampled then abandoned in August, 2003.
 - Soil: October, 2003 – soil samples collected using "Shelby" tubes from Twin Ports Testing, Inc. exploration project borings.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April and October, 2003 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
 - August, 2003 – 7 wells (MW-5, MW-7, MW-8, MW-11, MW-13, MW-18, and MW-20) on former Terminal Property were abandoned because they no longer provided pertinent information to the investigation. (They demonstrated consistent water quality below NR 140 Enforcement Standards).
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - Skimmer Pumps: During reporting period (January, 2003 through June, 2004), skimmer pumps have removed approximately 536 gallons of free phase hydrocarbon.
 - SVE System: During reporting period (January, 2003 through June, 2004), SVE system has recovered at least 5,042 pounds (approx. 775 gallons) of vapor-phase hydrocarbons were removed.
- Reports Submitted
 - Letter Report: Annual Status Report, 2002, Delta Environmental Consultants, Inc., June 24, 2003.
 - Report on Ground Water Quality, Hydrostratigraphy, and Free-Phase Hydrocarbon Delineation October 2002, Delta Environmental Consultants, Inc., May 20, 2003.

- Dual-Phase Product Extraction Pilot Testing Completion Report, Delta Environmental Consultants, Inc., September 2003.
- Underground Piping Removal Work Plan, Delta Environmental Consultants, Inc., October 16, 2003.
- Remedial Operations – Air Emissions Summary Report Semi Annual. Delta Environmental Consultants, Inc., February 28, 2003.
- WDNR Correspondence
 - Report submittals

2004 –

- Wells Installed
 - August and September, 2004 – new recovery wells EW-1, EW-3, EW-4, and EW-5 were installed as part of the treatment system expansion in the Northeast Terminal Plume Area.
- Soil Borings Completed
 - September, 2004 – investigative soil probes were advanced at Terminal and Barge Dock properties using cone penetration testing (CPT) utilizing a laser-induced fluorescence (LIF) technology.
 - 5 probes were on the former Amoco Terminal Property, LIF-22 through LIF-26
 - A Clay-Sand Interface Model was developed.
- Remediation System in Use/Installed
 - Combined IPRS and SVE system prior to new system install
 - SVE system was permanently shut down in September, 2004.
 - A system which utilizes vacuum enhanced total fluids recovery technology (VE-TFRT) and five recovery wells (EW-1, RW-2, EW-3, EW-4, and EW-5) was installed at the Terminal Property in December, 2004.
 - Total fluids are pumped from wells to oil/water separator tank. Vacuum is applied to extraction wells to further increase FPH recovery rates and remove hydrocarbons present in the unsaturated soil in the area of the recovery wells. Vapor is discharged to atmosphere – air quality monitoring ensures discharges are within allowable limits.
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: April and November, 2004 as part of semi—annual groundwater sampling.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April, July, and November, 2004 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered

- SVE System: As of April, 2004, the SVE system has recovered 8,842 pounds of vapor-phase hydrocarbons.
- Approximately 3,511 gallons of free phase hydrocarbons have been recovered through April 19, 2004.
- Reports Submitted
 - Annual Status Report-January 2003 through June 2004, Delta Environmental Consultants, Inc., August 31, 2004.
 - Work Plan for Limited Removal of Underground Product Piping, Delta Environmental Consultants, Inc., September 2, 2004.
 - Underground Product Piping Removal Report (Barge Dock Property), Delta Environmental Consultants, Inc., February 23, 2004.
 - Equipment Plans for Vacuum-Enhanced Total-Fluids Recovery and Groundwater Treatment System, Delta Environmental Consultants, Inc., August 30, 2004.
 - Remedial Operations – Air Emissions Summary Report. Delta Environmental Consultants, Inc., January 9, 2004.
 - Remedial Operations – Air Emissions Summary Report. Delta Environmental Consultants, Inc., May 25, 2004.
 - Subsurface Investigation (CPT-LIF) Work Plan. Delta Environmental Consultants, Inc., July 15, 2004.
- WDNR Correspondence
 - Report submittals

2005 –

- Wells Installed
 - September, 2005 – Monitoring well MW-19 was abandoned and replaced with MW-19R due to road and retention basin construction.
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - A new free phase hydrocarbon recovery and groundwater treatment system was installed in 2005. Started operation in January, 2005.
 - Utilizes vacuum enhanced total fluids recovery technology and five recovery wells at the Terminal Property.
 - The previous FPH remedial systems at the former Terminal property (AKA Lake City Towing parcel) were shut down permanently in September, 2004, and replaced with this new FPH recovery system.
 - Delta operates and maintains a petroleum recovery and groundwater treatment system.
 - Operation and subsequent discharge of treated groundwater (wastewater) began on January 4, 2005 to the on-site LCT sanitary pump.
 - Discharge of the treated groundwater was intermittent or cyclic depending on the total liquids (petroleum constituents and groundwater) recovery during each daily system operational cycle.
- Issues Encountered
 - None
- Sampling Dates

- Wastewater: From groundwater treatment system – January (3 times), April, July, and October, 2005.
- Groundwater: April and October, 2005 as part of semi—annual groundwater sampling.
- Air: Quarterly monitoring of hydrocarbon vapor emissions from the treatment systems – air samples from the vacuum enhancement system of the VE-TFRT area analyzed for BTEX/GRO.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April and October, 2005 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - Through 2005, the remediation systems at the Terminal and Barge Dock properties have a combined recovery total of more than 14,000 gallons of FPH.
- Reports Submitted
 - Investigation Report of Free-Phase Hydrocarbon Extent and Hydrostratigraphy September 2004, Delta Environmental Consultants, Inc., February 2005.
 - Letter Report: Wastewater Compliance Report for Industrial User Permit No. 2004LCT3 July 2005 to December 2005, Delta Environmental Consultants, Inc., December 29, 2005.
 - Discharge monitoring reports were submitted to comply with air and treated ground water emissions regulations to the City of Superior and the WDNR.
- WDNR Correspondence
 - Report submittals

2006 –

- Wells Installed
 - None
- Soil Borings Completed
 - August/September, 2006 – investigative soil probes were advanced at Terminal and Barge Dock properties using con penetration testing (CPT) utilizing a laser-induced fluorescence (LIF) technology.
 - Performed to further define the extent of free-phase or residual hydrocarbon in the Manifold area, Northeast Terminal area and West Terminal area.
- Remediation System in Use/Installed
 - Combined IPRS and SVE system.
- Issues Encountered
 - VE-TFRT system was intermittently out of service (for short periods of time) for pump replacement, routine maintenance, and ice build-up on the SVE intake pipe. It was also shut down to avoid influencing the soil gas survey activities.
- Sampling Dates:
 - Groundwater: May and October, 2006 as part of semi—annual groundwater sampling.
 - Soil Gas: September and December, 2006. Samples collected from 19 probe locations.

- Air: Quarterly monitoring of hydrocarbon vapor emissions from the treatment systems – air samples from the vacuum enhancement system of the VE-TFRT area analyzed for BTEX/GRO.
- Remediation Investigation
 - None
- Other Remedial Activities
 - May and October, 2006-Depth to groundwater and free-phase hydrocarbon thicknesses measured.
 - September and December, 2006 – Soil gas survey performed to delineate the western extent of the hydrocarbon vapor and methane plume along the north side of Winter St.
 - Used pneumatic-push rig (Geoprobe) to collect soil gas samples in the near-surface soil of the referenced area and a mobile on-site lab was used for air sample analysis.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - SVE: through 2006, the system (VE-TFRT) has extracted 3,800 pounds (equivalent to 610 gallons) of hydrocarbons from the subsurface via SVE.
 - VE-TFRT System: From start up in January, 2005 through 2006, the VE-TFRT system has removed 1,701 gallons (equivalent to 10,650 lbs) of free product.
- Reports Submitted
 - System Operational Assessment Report: Barge Dock Property, Delta Environmental Consultants, Inc., January 16, 2006.
 - Letter Report: Wastewater Compliance Report for Industrial User Permit No. 2004LCT3 June 2006 to December 2006, Delta Environmental Consultants, Inc., December 29, 2006.
 - Draft Work Plan for LNAPL and Stratigraphic Investigations and Soil Gas Survey, Delta Environmental Consultants, Inc., July 14, 2006.
 - Report of Passive Venting in 2005 for Air Emissions Compliance. Delta Environmental Consultants, Inc., January 17, 2006.
 - Report of Passive Venting in 2006 for Air Emissions Compliance. Delta Environmental Consultants, Inc., December 18, 2006.
 - Report of 2005 Air Emissions from VE-TFRT System. Delta Environmental Consultants, Inc., February 15, 2006.
- WDNR Correspondence
 - Report submittals

2007 –

- Wells Installed
 - None
- Soil Borings Completed:
 - None
- Remediation System in Use/Installed
 - VE-TFRT System (uses 5 recovery wells)
- Issues Encountered

- VE-TFRT system was intermittently out of service for pump replacement, routine maintenance, and ice build-up on the SVE intake pipe. It was also shut down to avoid influencing the soil gas survey activities.
- Sampling Dates
 - Soil Gas: October, 2007 - 26 soil gas samples collected (multiple depths within same probe) from 12 probe locations as part of soil gas survey.
 - Groundwater: May and September, 2007 as part of semi—annual groundwater sampling.
 - Air: Quarterly monitoring of hydrocarbon vapor emissions from the treatment systems – air samples from the vacuum enhancement system of the VE-TFRT area analyzed for BTEX/GRO.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April and September, 2007 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
 - June, 2007 – Recovery well RW-7 and monitoring well MW-21 were abandoned. The recovery well was abandoned due to its location in a swampy area and the well screen was set too low for any potential FPH recovery. The monitoring well was damaged by construction activities and could not be repaired.
 - June, 2007 – Repairs were made to 27 wells.
 - September, 2007 – Monitoring well MW-2 was abandoned because it was damaged during construction activities and could not be repaired.
 - October, 2007 – soil gas survey performed to delineate the western extent of the hydrocarbon vapor plume along the south side of Winter Street and east side of Susquehanna Avenue.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - VE-TFRT has recovered the following from 2005 through Dec. 2007:
 - 466,000 gallons groundwater
 - 2,875 gallons of liquid FPH
 - Air stripper has removed 95 lbs (15 gallons) of hydrocarbons from the recovered groundwater since startup.
 - SVE has recovered 5,886 lbs (942 gallons) of hydrocarbon vapor through Dec. 2007.
- Reports Submitted
 - Letter Report: Progress Report – June 2004 through December 2006, Delta Environmental Consultants, Inc., March 7, 2007.
 - Report of 2006 Air Emissions from the VE-TFRT System. Delta Environmental Consultants, Inc., January 23, 2007.
- WDNR Correspondence
 - Report submittals

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - VE-TFRT System – 5 extraction wells (EW-1, RW-2, EW-3, EW-4, and EW-5), each equipped with a pneumatic pump and is vacuum enhanced with an SVE system.
 - System maintenance in September, 2008 produced a significant increase in groundwater recovery between September and December, 2008.
- Issues Encountered
 - VE-TFRT System shut down between April and July, 2008 due to programmable logic controller (PLC) failure.
- Sampling Dates
 - Air: Quarterly monitoring of hydrocarbon vapor emissions from the treatment systems – air samples from the vacuum enhancement system of the VE-TFRT area analyzed for BTEX/GRO.
 - Groundwater: May and October, 2008 as part of semi—annual groundwater sampling.
- Remediation Investigation
 - None
- Other Remedial Activities
 - May and October, 2008 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - From VE-TFRT system:
 - Total fluids (including groundwater) removed from 2005 through 2008: 646,000 gallons
 - Total fluids (including groundwater) removed in 2008: 180,565 gallons
 - Liquid FPH removed from 2005 through 2008: 4,830 gallons
 - Liquid FPH removed in 2008: 1,979 gallons
 - Air stripper has removed 110 lbs (18 gallons) of hydrocarbon from the recovered groundwater since startup and 3 gallons in 2008.
 - SVE system has recovered 7,860 pounds (1,258 gallons) of hydrocarbon vapor through December 2008. During 2008, air emissions total 315 gallons of hydrocarbon vapor.
 - Combined totals (liquid and vapor) during 2008: 2,297 gallons petroleum hydrocarbons.
 - Combined totals (liquid and vapor) since startup: 6,136 gallons petroleum hydrocarbons.
- Reports Submitted
 - Letter Report: Progress Report – June 2004 through December 2007, Delta Environmental Consultants, Inc., May 13, 2008.
- WDNR Correspondence
 - July 25, 2008 – WDNR submitted a letter to Atlantic Richfield (a BP affiliated company).
 - Report submittals

2009 –

- Wells Installed:
 - None
- Soil Borings Completed:
 - None
- Remediation System in Use/Installed
 - VE-TFRT System – 5 extraction wells (EW-1, RW-2, EW-3, EW-4, and EW-5), each equipped with a pneumatic pump and is vacuum enhanced with an SVE system.
 - Mobile, trailer based, LNAPL skimming systems, Trailer #1 and Trailer #2. These are designed to recover liquid LNAPL from a variety of locations, including the Terminal property.
 - Skimming system #1 operated at RW-5 from May 19 through August 3, 2009.
 - Skimming system #1 operated at RW-6 from August 3 through November 2, 2009. Then moved to storage for winter.
 - SVE system – installed in 1994 and operated through 2004 when it was shut down to accommodate the VE-TFRT System. This system was restarted in August, 2009 to recover hydrocarbon vapor and control subsurface vapors and methane along Winter Street.
 - Consists of 10 dedicated soil vapor extraction points and is connected to RW-1 and RW-4. HOWEVER, only 4 of the 10 SVE points (SV-2, SV-3, SV-5, and RW-1) were used upon startup.
 - In July, 2009, the system was modified to bring it into compliance with current system integrity requirements.
 - Prior to restarting the SVE system, a soil vapor survey was completed to provide a base line benchmark to evaluate the effect of operating the SVE system.
- Issues Encountered
 - VE-TFRT system was intermittently out of service for short periods of time for routine maintenance and occasional system alarm conditions.
- Sampling Dates
 - Groundwater: April and October, 2009 as part of semi—annual groundwater sampling.
 - Vapor: August, 2009 – Vapor samples collected as part of soil vapor survey to evaluate the effect of operating the SVE system. Samples collected from 4 locations (MW-14, MW-27, MWT-6, and RW-1). Samples collected both before and 24 hours after SVE system startup.
 - Vapor: September, 2009 – Vapor samples collected from same 4 locations as in August.
 - Vapor: November, 2009 - Vapor samples collected from same 4 locations as in August.
- Remediation Investigation
 - August, 2009 – in northeast portion of former Terminal property, a CPT/LIF investigation was conducted to further define the extent of free phase or residual hydrocarbon plumes (also conducted at Barge Dock property). Location names were LIF-27 through LIF-53.
- Other Remedial Activities
 - July 29, 2009 – MW-6 was abandoned as the subsurface well casing was bent and replaced with MW-6R.

- April and October, 2009 - Depth to groundwater and free-phase hydrocarbon thicknesses measured
- Manual LNAPL Recovery Methods
 - Product was removed from MW-24 and MW-19R by applying a suction from a vacuum truck that was on-site to empty system LNAPL tanks. LNAPL was removed from MW-19R twice, in June and November 2009, and from MW-24 once in November, 2009.
- Cumulative Product Recovered
 - From VE-TFRT System:
 - During 2009 reporting period: 253,000 gallons of total fluids, of which 1,422 gallons were LNAPL.
 - Total recovery since startup (2005): 1,126,579 gallons of groundwater and 6,160 gallons of LNAPL.
 - Dissolved Phase Recovery: during 2009 reporting period, approximately 41 lbs of hydrocarbon was removed from the recovered groundwater. Since startup (2005), 125 lbs (20 gallons of LNAPL) of dissolved hydrocarbons were recovered.
 - Vapor Phase Recovery: during 2009 reporting period, the system removed 432 lbs of total hydrocarbons in the vapor phase, equivalent to 69 gallons of LNAPL. Since startup, the system has removed 8,309 lbs of total hydrocarbons in the vapor phase, equivalent to 1,329 gallons of LNAPL.
 - Estimated hydrocarbon recovery in all phases in 2009 was the equivalent of 1,498 gallons of LNAPL.
 - Estimated hydrocarbon recovery in all phases since system startup is the equivalent of 7,509 gallons of LNAPL.
 - From SVE system: After 4 months of operation (Aug-Dec 2009), the system removed 347 lbs of methane and 114 lbs (18 gallons) of total hydrocarbon as vapor.
 - From skimming system #1 in 2009:
 - RW-5: Recovered 15.3 gallons of LNAPL while operating in May and did not recover any more LNAPL thereafter.
 - RW-6: Recovered 31.8 gallons of LNAPL.
- Reports Submitted
 - Letter Report: Progress Report for Calendar Year 2008, Delta Environmental Consultants, Inc., May 4, 2009.
 - Letter Report: Soil Vapor Abatement Activities Along Winter Street, Delta Environmental Consultants, Inc., October 5, 2009.
- WDNR Correspondence
 - January 27, 2009 – Report presenting air quality sampling data was submitted to the WDNR.
 - Report submittals

2010 –

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - VE-TFRT System – 5 extraction wells (EW-1, RW-2, EW-3, EW-4, and EW-5)
 - SVE System (restarted in August, 2009) – operated continuously in 2010 utilizing air extraction wells RW-1, SV-2, SV-3, and SV-5.
 - Mobile, trailer based, LNAPL skimming systems, Trailer #1 and Trailer #2 NOT OPERATED during 2010.
- Issues Encountered
 - VE-TFRT system was intermittently out of service for short periods of time for routine maintenance and occasional system alarm conditions.
- Sampling Dates
 - Groundwater: April and October, 2010 as part of semi—annual groundwater sampling.
- Remediation Investigation
 - None
- Other Remedial Activities
 - April and October, 2010 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - VE-TFRT System:
 - Liquid Phase Recovery: During 2010 reporting period – 322,000 gallons of total fluids of which 824 gallons were LNAPL; Total recovery since start up in 2005 – 1,223,773 gallons of ground water and 6,984 gallons of LNAPL.
 - Dissolved Phase Recovery: During 2010 reporting period – approximately 7 lbs (1.1 gallons) of hydrocarbon was removed from the recovered ground water; Total dissolved hydrocarbon recovery since startup – 132 lbs (21 gallons) of LNAPL.
 - Vapor Phase Recovery: During 2010 reporting period – system removed 367 lbs of total hydrocarbons in the vapor phase, equivalent to 59 gallons of LNAPL; Since system startup – 8,676 lbs of vapor phase hydrocarbons recovered, equivalent to 1,388 gallons of LNAPL.
 - Total Recovery ALL Phases: During 2010 – equivalent of 884 gallons of LNAPL; Since system startup – equivalent of 8,393 gallons of LNAPL.
 - SVE System:
 - During 2010, the system has removed 988 lbs of methane and 309 lbs of total hydrocarbon as vapor.
 - Since system re-start in 2009, the system has recovered 1,335 lbs of methane and 424 lbs (68 gallons) of total hydrocarbons as vapor.
- Reports Submitted
 - Letter Report: Progress Report for Calendar Year 2009, Delta Environmental Consultants, Inc., October 29, 2010.

- WDNR Correspondence
 - Report submittals

2011 –

- Wells Installed
 - July, 2011 – Monitoring/Recovery wells were installed at 6 locations (EW-6 through EW-11) on the former Terminal property at locations suspected of containing LNAPL based on previously obtained LIF data.
 - July, 2011 – Vapor extraction wells were installed at 4 locations, VE-1 through VE-4.
- Soil Borings Completed
 - Two separate major drilling events occurred in June/July and September/October of 2011. Only things on Terminal property included:
 - September, 2011 – P-34D, P-17DD, P-31D
- Remediation System in Use/Installed
 - VE-TFRT System - 5 extraction wells: EW-1, RW-2, EW-3, EW-4, and EW-5 until shut down (Aug 31, 2011). As of Dec 1, 2011, only used EW-4 and EW-5.
 - SVE System – 4 new vapor extraction wells installed in July, 2011. Operated nearly continuously during 2011 utilizing extraction wells RW-1, SV-2, SV-3, and SV-5.
 - Portable, trailer-based, LNAPL skimming systems (Trailer #1 and Trailer #2). In 2011, these were only used within manifold area flume from September to December. NOT USED ON TERMINAL PROPERTY IN 2011.
- Issues Encountered
 - VE-TFRT system was shut down from August 31-November 30, 2011 for recovery well testing and system maintenance. It was also intermittently out of service for short periods of time for routine maintenance and occasional system alarm conditions.
- Sampling Dates
 - Groundwater: April and October, 2011 as part of semi—annual groundwater sampling.
 - Soil: July, 2011 – soil samples were collected from each soil boring during monitoring/recovery well installation activities. Soil samples were collected for laboratory analysis from each soil boring starting at just above the water table (13 to 18 feet bgs) to several feet below the water table (21 to 27 feet bgs).
 - Soil samples from EW-6, EW-9, and EW-11 were submitted to PTS Laboratories for geotechnical testing for pore fluid saturation and air/water drainage capillary testing.
 - Soil: July, 2011 – soil samples were collected from each soil boring during vapor extraction well installation activities. Soil samples were collected for laboratory analysis from each soil boring starting at just above the water table (14 to 16 feet bgs) to several feet below the water table (21 to 23 feet bgs).
 - Groundwater: July, 2011 – groundwater samples collected from new wells EW-6 through EW-10.
 - Soil: September, 2011 – soil samples from P-17DD, P-31D, and P-34D analyzed for BTEX and MTBE.
- Remediation Investigation
 - During system shut down of VE-TFRT System:

- Recovery wells were gauged periodically for the presence of LNAPL. It was not present in EW-1, EW-3, or RW-2.
 - To optimize system recovery after system restart (Dec. 1, 2011), the recovery pumps and SVE vacuum was shut down at wells EW-1, EW-3, and RW-2. System then only used wells EW-4 and EW5.
 - LNAPL Bail Down Tests – conducted on 16 monitoring/recovery wells in August and September, 2011 (9 on Terminal property) to determine LNAPL transmissivity in each well. Wells on former Terminal property with good fluid recovery included MW-24, MW-25, MW-26, MW-27, and MW-32 while those with poor fluid recovery included MW-14, MW-16, MW-22, and MW-23.
- Other Remedial Activities
 - July, 2011 – following well development of 6 new wells, they were gauged multiple times for the presence of LNAPL.
 - October, 2011 – a survey of all wells and borings installed in 2011 was completed.
 - April and October, 2011 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
- Manual LNAPL Recovery Methods
 - November, 2011 – vacuum truck used to conduct enhanced fluid recovery (EFRT) on select wells, one of which, EW-11, was located on the former Terminal property.
- Cumulative Product Recovered
 - VE-TFRT System:
 - Liquid Phase Recovery: During 2011 reporting period – 235,102 gallons of total fluids of which 295 gallons were LNAPL; Total recovery since start up in 2005 – 1,458,720 gallons of ground water and 7,300 gallons of LNAPL.
 - Dissolved Phase Recovery: During 2011 reporting period – approximately 10 lbs (1.6 gallons) of hydrocarbon was removed from the recovered ground water; Total dissolved hydrocarbon recovery since startup – 142 lbs (23 gallons) of LNAPL.
 - Vapor Phase Recovery: During 2011 reporting period – system removed 516 lbs of total hydrocarbons in the vapor phase, equivalent to 83 gallons of LNAPL; Since system startup – 9,192 lbs of vapor phase hydrocarbons recovered, equivalent to 1,471 gallons of LNAPL.
 - Total Recovery ALL Phases: During 2011 – equivalent of 380 gallons of LNAPL; Since system startup – equivalent of 8,794 gallons of LNAPL.
 - SVE System:
 - During 2011, the system removed 2,163 lbs of methane and 645 lbs of total hydrocarbon as vapor.
 - Since system re-start in 2009 through 2011, the system recovered 3,498 lbs of methane and 1,069 lbs (171 gallons) of total hydrocarbons as vapor.
- Reports Submitted
 - Progress Report for Calendar Year 2010, Antea USA, Inc., April 12, 2011.
 - Report of 2010 Air Emissions from VE-TFRT and SVE-only Systems. Delta Environmental Consultants, Inc., January 3, 2011.
- WDNR Correspondence
 - Report submittals
 - Letter: Reminder to Evaluate Vapor Intrusion Pathways. WDNR Bureau for Remediation and Redevelopment. September 7, 2011.

2012 –

- Wells Installed
 - None
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - VE-TFRT System – 2 extraction wells (EW-4 and EW-5).
 - Between February and July, 2012, fluid extraction was limited to only EW-4 due to recovery issues at EW-5.
 - Shut down on July 12, 2012 in order to conduct soil vapor pilot testing and remained off through the end of 2012.
 - SVE System operated until 4th quarter of 2012, when it was shut down to perform pilot test of passive ventilation. It operated nearly continuously between January and July 12, 2012. Used wells RW-1, SV-2, SV-3, and SV-5. It was turned off from July 12-August 9, 2012 and then turned on from August 9 – August 15, 2012 as part of soil gas monitoring and mitigation testing. It was turned off August 15, 2012 and then restarted on December 21, 2012 following completion of the passive venting test.
 - Portable, trailer based, LNAPL skimming systems (Trailer #1 and Trailer #2) – used on former Terminal property in October, 2012 only, at EW-11.
- Issues Encountered
 - February-July 2012 – recovery issues at EW-4 for VE-TFRT System.
 - The VE-TFRT system was intermittently out of service for short periods of time prior to July 2012 for routine maintenance and occasional system alarm conditions.
- Sampling Dates
 - Air: September, 2012 (as part of pilot test), then again in October, 2012, then again in December, 2013 [3 sampling events of the same wells] – air samples collected from VE-1 through VE-4 and 4 other monitoring points (SG-2D, EW-6, EW-7, and MW-27) on the Lake City Towing property.
- Remediation Investigation
 - June, 2012 – 4 soil gas monitoring points (SGS-1S, SGS-1D, SGS-2S, and SGS2D) were installed in 2 nests immediately north the Lake City Towing building to monitor soil gas conditions near the building.
 - Fall, 2012 – Pilot test to determine the effectiveness of passive ventilation to control the accumulation of BTEX vapor and methane below in the sandy aquifer zone. SVE system was shut down.
 - VE-1 through VE-4 removed and wells capped. Air samples collected 3 times - Monitoring/recovery/VE wells where air samples were collected were gauged for water level and LNAPL thickness during each sampling event, except VE-1 and VE-3 which were not gauged in October, 2012. Following sampling, VE wells were re-installed.
- Other Remedial Activities
 - April and October, 2012 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
 - Additional well gauging was conducted throughout the year on wells which have historically exhibited LNAPL.

- Spill Buddy LNAPL skimmer pump was used to recover LNAPL from 17 wells located on the former Terminal property in 2012.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - VE-TFRT System:
 - Liquid Phase Recovery: During 2012 reporting period – 5,740 gallons of total fluids of which 219 gallons were LNAPL; Total recovery since start up in 2005 – 1,464,026 gallons of ground water and 7,536 gallons of LNAPL.
 - Dissolved Phase Recovery: During 2012 reporting period – approximately 0.012 lbs (0.002 gallons) of hydrocarbon was removed from the recovered ground water; Total dissolved hydrocarbon recovery since startup – 142 lbs (23 gallons) of LNAPL.
 - Vapor Phase Recovery: During 2012 reporting period – system removed 327 lbs of total hydrocarbons in the vapor phase (6 lbs of this was estimated to be benzene), equivalent to 52 gallons of LNAPL; Since system startup – 9,519 lbs of vapor phase hydrocarbons recovered, equivalent to 1,523 gallons of LNAPL.
 - Total Recovery ALL Phases: During 2012 – equivalent of 289 gallons of LNAPL; Since system startup – equivalent of 9,082 gallons of LNAPL.
 - SVE System – recovered approximately 10,600 equivalent gallons of LNAPL in the vapor phase from startup through August, 2004 based on air flow rates and quarterly air sample analytical results.
 - During 2012 – removed an estimated 279 lbs of methane and 114 lbs of totally hydrocarbon as vapor.
 - Since system re-start in 2009 – system has recovered 3,777 lbs of methane and 1,183 lbs (equivalent of 189 gallons) of total vapor phase hydrocarbons.
 - Portable Skimming System at EW-11 – Recovered 33 gallons of LNAPL.
 - Spill Buddy LNAPL skimmer pump used at 17 Terminal wells – removed approximately 176 gallons of LNAPL (combined) from the wells on the former Terminal property.
- Reports Submitted
 - 2011 Progress Report, Antea Group, February 10, 2012.
- WDNR Correspondence
 - Report submittals

2013 –

- Wells Installed
 - None
- Soil Borings Completed
 - October-November, 2013 – 49 hand auger borings (SB-1 through SB-49) were advanced on the Terminal to evaluate direct contact (0-4') soil conditions. Borings were advanced to 4 feet bgs.
 - October, 2013 – 10 soil probes (TPH-01 through TPH-10) were advanced on the Terminal (4 soil probes) and Barge Dock (6 soil probes) parcels to evaluate the thickness of the smear zone and the migration potential of LNAPL. Probes were advanced to approx. 25 feet bgs.

- Remediation System in Use/Installed
 - VE-TFRT System
 - Did not operate in 2013.
 - Decommissioned and removed from site in October, 2013.
 - LNAPL generated during hand bailing was removed from AST in August, 2013.
 - SVE System – consists of 10 dedicated SVE points and 2 recovery wells. However, in 2013, only 4 extraction points were used (RW-1, SV-2, SV-3, SV-5).
 - Operated continuously through August, 2013, when it was shut down.
 - Spill Buddy LNAPL skimmer pump
 - Used to remove LNAPL from 6 wells on the Terminal (RW-1, RW-4, RW-6, EW-4, EW-6, EW-11) in April and May, 2013.
- Issues Encountered
 - SVE System was experiencing limited vapor-phase hydrocarbon recovery which is why it was shut down in August, 2013.
- Sampling Dates
 - Groundwater: May and October, 2013
 - Soil: October-November, 2013 – Soil samples from 49 hand auger borings submitted for laboratory analysis for PVOCs and PAHs.
 - Soil: October, 2013 – Soil samples from 8 soil probes (2 were unusable, 4 from Barge Dock, and 4 from Terminal) submitted for laboratory analysis for TPH fractions TPH C6-C10 and TPH C10-C40.
 - Air: Quarterly sampling from SVE system in January, May, and August.
- Remediation Investigation
 - June-July, 2013 – storm sewer catch basins and manholes on and around the Terminal were screened for petroleum vapors.
- Other Remedial Activities
 - March, May, and October, 2013 - Depth to groundwater and free-phase hydrocarbon thicknesses measured.
 - October, 2013 – 13 monitoring and recovery wells were abandoned, including MW-4D, MW-4S, MW-9, MW-12, MW-15D, MW-15S, MW-19R, MW-28, EW-3, MW-1, EW-4, RW-2, and EW-1.
 - Investigative-derived waste (purge water and LNAPL system recovered groundwater) was removed from the Terminal in July, 2013 (1,400 gallons) and in October, 2013 (1,000 gallons).
 - Investigative-derived waste (2 soil cuttings drums) removed in December, 2013.
- Manual LNAPL Recovery Methods
 - Hand bailing from VE-TFRT AST in 2013 as part of decommissioning process.
- Cumulative Product Recovered
 - VE-TFRT
 - 330 gallons of LNAPL was removed through hand bailing form the VE-TFRT AST in August, 2013. This was part of decommissioning process.
 - SVE System
 - During 2013 – system removed 0.6 lbs of benzene.
 - Spill Buddy Skimming
 - During 2013 – Approximately 159 gallons of LNAPL was recovered from the Terminal.
- Reports Submitted

- 2012 Progress Report, Antea USA, Inc., May 17, 2013.
- Wastewater Compliance Report for Industrial User Permit No. 2011ANT5 – January through June 2013, Antea USA, Inc., July 8, 2013.
- System and Well Abandonment Work Plan, Antea Group, August 1, 2013.
- Wastewater Discharge Permit Withdrawal, Antea Group, November 8, 2013.
- Report of 2013 Air Emissions from VE-TFRT and SVE-only Systems, Antea Group, December 11, 2013.
- WDNR Correspondence
 - Report submittals

2014 –

- Wells Installed
 - None
- Soil Borings Completed
 - June, 2014 – 82 hand auger and Geoprobe borings were advanced on multiple Terminal parcels to evaluate direct contact (0-4') soil conditions. The objective was to delineate the previous soil exceedance locations as noted in the 2013 Annual Report.
 - July, 2014 – 110 Geoprobe borings were advanced on multiple Terminal parcels and the Barge Dock to evaluate direct contact (0-4') soil conditions and further refine the excavation recommendations on the Terminal.
 - Samples on the Terminal were collected to further delineate the previous soil exceedance results as noted in the 2014 Progress Report (July 11, 2014) at locations SB-18, SB-24, and SB-40.
 - August, 2014 – 45 Geoprobe borings were advanced on the Terminal and Barge Dock parcels to further evaluation direct contact (0-4') soil conditions and refine the excavation recommendations on both the former Terminal and Barge Dock site areas.
 - Borings advanced on the Terminal were collected to further delineate soil exceedances north of SB-40. 4 soil borings were completed to the north of SB-40 (SB-40, North, F-I).
- Remediation System in Use/Installed
 - None
- Issues Encountered
 - None
- Sampling Dates
 - Groundwater: May and October, 2014 – Semi-annual groundwater sampling from site wells.
 - Soil: June, 2014 – Soil samples were collected from the 82 hand auger and Geoprobe borings.
 - Groundwater: July, 2014 – collected groundwater sample from well MW-17.
 - Soil: July, 2014 - Soil samples were collected from the 110 Geoprobe borings.
 - Soil: August, 2014 - Soil samples were collected from the 145 Geoprobe borings.
- Remediation Investigation
 - March, June, September, and November, 2014 – storm sewer catch basins and manholes on and around the Terminal were screened for petroleum vapors.

- June, 2014 – LNAPL skimmer recovery tests performed on MW-25, MW-26, and MW-32 as part of the ongoing LNAPL modeling evaluation. LNAPL thickness was measured in each well prior to and during the tests.
- August, 2014 – LNAPL skimmer recovery test performed on MW-24.
- September, 2014 – LNAPL skimmer recovery test performed on MW-27.
- Manual skimming and single-event baildown tests were performed during the period 2011 through 2014 on 17 monitoring wells on both the Terminal and Barge Dock sites to determine transmissivity.
- Developed LNAPL Distribution and Recovery Model (LDRM) in 2014 Progress Report-July through December, 2014.
- Other Remedial Activities
 - May and October, 2014 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
 - June, 2014 – MW-17 was repaired after having been damaged by a snow plot during the winter of 2013-2014.
 - July, 2014 – resurveyed MW-17 after it was repaired.
 - July, 2014 – Monitoring well MW-6R was abandoned.
 - July, 2014 – gauged MW-17 (and 5 Barge Dock area wells)
 - November-December, 2014 – Six excavations (SB-1, SB-2, SB-15, SB-18, North B, and South B) took place on the Terminal area of the Site.
 - 4,501 cubic yards (5,401 tons) were removed from the Terminal area.
- Manual LNAPL Recovery Methods
 - June-September, 2014 – during LNAPL skimmer recovery tests, product was bailed from MW-25, MW-26, MW-32, MW-24, and MW-27. LNAPL was transferred to an AST for storage and recycling.
- Cumulative Product Recovered
 - None
- Reports Submitted
 - 2013 Progress Report, Antea Group, May 15, 2014.
 - 2014 Progress Report, Antea Group, July 11, 2014.
 - 2014 Progress Report-Soil Delineation, Former Amoco Terminal, Antea Group, August 18, 2014.
 - 2014 Progress Report-Excavation Recommendations, Antea Group, September 10, 2014.
- WDNR Correspondence
 - Report submittals

2015 –

- Wells Installed:
 - August, 2015 – two new recovery wells, RW-8 and RW-9, were installed on the northern Terminal parcel near MW-32 as part of a proposed recovery system around MW-32.
- Soil Borings Completed:
 - None
- Remediation System in Use/Installed
 - None
- Issues Encountered

- None
- Sampling Dates:
 - Groundwater: May and October, 2015 – Semi-annual groundwater sampling from site wells.
- Remediation Investigation
 - June, 2015 – LNAPL skimmer recovery tests performed on MW-16, MW-26, MW-27, and RW-4.
 - July, 2015 – LNAPL skimmer recovery tests performed at MW-14, RW-1, and MW-32.
 - August and Sept-Nov, 2015 – Extended duration LNAPL recovery tests were performed on MW-32. A seasonal skimming pump was installed in the well.
 - LNAPL Site Conceptual Model updated in both 2015 Progress Reports.
- Other Remedial Activities
 - May and October, 2015 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
 - May, 2015 – 1,300 gallons of investigation-derived waste (purge water and LNAPL system recovered groundwater) were removed from the Terminal.
 - October, 2015 – 10 drums of petroleum contaminated soil produced during recovery well installation were removed from the Terminal.
 - July, 2015 – 2,450 gallons of investigation-derived waste (purge water, LNAPL, and LNAPL system recovered groundwater) were removed from the Terminal.
 - November, 2015 – 2,650 gallons of investigation-derived waste were removed from the Terminal.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - MW-32 Extended Duration Test – total volume of LNAPL recovered during the first and second long duration tests was approximately 7.8 gallons and 49.4 gallons, respectively.
- Reports Submitted
 - 2014 Progress Report July-December 2014, Antea Group, January 14, 2015.
 - 2015 Progress Report January-June, 2015, Antea Group, July 9, 2015.
- WDNR Correspondence
 - Report submittals

2016 –

- Wells Installed
 - September, 2016 – Monitoring well MW-47 was installed on the northeastern corner of the AMSOIL property to delineate groundwater impact west of the Terminal.
- Soil Borings Completed
 - None
- Remediation System in Use/Installed
 - None
- Issues Encountered
 - July and August, 2016 – At RW-09, operation of skimming pump was interrupted for maintenance in July and due to a storage tank high float alarm in August.

- August, 2016 – At MW-32, operation of skimming pump was interrupted due to a high float alarm.
- Sampling Dates
 - Groundwater: May and October, 2016 – Semi-annual groundwater sampling from site wells.
 - Vapor: September and October, 2016 – Vapor samples were collected from VP-1 (Lake City Towing building).
- Remediation Investigation
 - July-September, 2016 – LNAPL recovery test performed at RW-09 using seasonal skimming pump. System data was collected during 14 monitoring events.
 - July-November, 2016 – As part of extended duration LNAPL recovery test in MW-32, which began in August, 2015, a skimming pump once again operated. System data was collected during 19 monitoring events.
 - September, 2016 – A vapor pin, VP-1, was installed in the concrete sub slab in the Lake City Towing building.
 - In 2016 Progress Report for July-December, 2016, Antea Group analyzed a 2004 report on Phase II Assessment of the AMSOIL property.
 - In 2016 Progress Report for July-December, 2016, Antea Group presents a remedial analysis evaluating options for the remaining mass of petroleum contamination at the site.
- Other Remedial Activities
 - May and October, 2016 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
 - November, 2016 – 20 drums of petroleum contaminated soil produced during monitoring well installations from the Terminal and Barge Dock were removed.
 - August, 2016 – 4,650 gallons of investigation derived waste (purge water, LNAPL, and LNAPL system recovered groundwater from the Terminal and Barge Dock) were removed.
 - November, 2016 - 2,400 gallons of investigation derived waste (purge water, LNAPL, and LNAPL system recovered groundwater from the Terminal and Barge Dock) were removed.
- Manual LNAPL Recovery Methods
 - None
- Cumulative Product Recovered
 - RW-09 Long Duration Test – recovered approximately 53.6 gallons of LNAPL.
 - MW-32 Extended Duration Test – total volume of LNAPL recovered during the first, second, and third long duration tests was approximately 4.7, 43, and 562.7 gallons, respectively.
 - Approximately 9,115 gallons of LNAPL (7,536 of liquid phase LNAPL, 23 gallons of dissolved phase LNAPL, 1,523 gallons of vapor phase LNAPL, 33 gallons from portable LNAPL recovery systems) have been recovered from the Terminal through the former Terminal VETFRT system and portable LNAPL recovery systems (through 2016).
- Reports Submitted
 - 2015 Progress Report & Site Closure Request July-December, 2015, Antea Group, January 25, 2016.
 - 2016 Progress Report January 2016 – June 2016, Antea Group, July 29, 2016.
- WDNR Correspondence

- Report submittals
- Closure Request Not Approved. WDNR. July 15, 2016.

2017 –

- Wells Installed
 - None.
- Soil Borings Completed
 - None.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: June and October, 2017 - Semi-annual groundwater sampling from site wells.
- Remediation Investigation
 - May-June, 2017 – A portable LNAPL skimming system operated in MW-32 as part of an extended duration LNAPL recovery test. System data was collected during 10 monitoring events.
- Other Remedial Activities
 - May-June, 2017 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
- Manual LNAPL Recovery Methods
 - None.
- Cumulative Product Recovered
 - Extended Duration LNAPL Recovery Test at MW-32:
 - from May 3 – June 30, 2017, approximately 241 gallons of LNAPL was recovered from MW-32.
 - As of June 29, 2017, a total of approximately 846.7 gallons of LNAPL has been recovered from MW-32.
- Reports Submitted
 - 2016 Progress Report & Site Closure Request July-December, 2016, Antea Group, January 24, 2017.
 - 2017 Progress Report January 2017 – June 2017, August 4, 2017.
- WDNR Correspondence
 - Report submittals
 - Closure Request Not Approved. WDNR. July 28, 2017.

2018 –

- Wells Installed
 - June, 2018 – Monitoring wells were installed at 11 locations (MWBD-1DD, MWRR-1D, MWOW-2D, MW-38DD, MW-41DD, MW-37DDD, MW-50D, MW-51D, MW-30DDD, MW-52D, and MW-52DD) on C. Reiss Coal and Hallett Dock parcels to further delineate dissolved phase deep groundwater impacts.

- July, 2019 - MWRR-1D was reinstalled (renamed MWRR-1DR) to fix the bent well casing.
- Soil Borings Completed
 - None.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: June and October, 2018 - Semi-annual groundwater sampling from site wells.
- Remediation Investigation
 - None.
- Other Remedial Activities
 - June and October, 2018 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
- Manual LNAPL Recovery Methods
 - None.
- Cumulative Product Recovered
 - None.
- Reports Submitted
 - 2017 Progress Report July 2017 - December 2017, Antea Group, January 16, 2018.
 - 2018 Progress Report January 2018 – June 2018, August 14, 2018.
- WDNR Correspondence
 - Report submittals

2019 –

- Wells Installed
 - None.
- Soil Borings Completed
 - None.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: June and October, 2019 - Semi-annual groundwater sampling from site wells.
 - LNAPL: July, 2019 – LNAPL samples collected from MW-32, RW-4, MR-6, RW-5, and MW-27 to evaluate changes in LNAPL composition over time.
- Remediation Investigation
 - May-June, 2019 – A portable LNAPL skimming system operated in MW-32 as part of an extended duration LNAPL recovery test. System data was collected during 4 monitoring events.
- Other Remedial Activities
 - June and October, 2019 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.

- June 6, 2019 - Bio-trap samplers were installed in ten monitoring wells within and around the dissolved phase benzene plume (MW-36S, MWT-2S, MW-52D, MW-34, MWM-9R-S, MW-30(S), MW-36(D), MW-30(D), MWM-9R-D, and MWT-2D) to evaluate each well for total microbial populations, sulfate degrader populations, and various aerobic and anaerobic gene functions that code for BTEX, MTBE and polycyclic aromatic hydrocarbon (PAH) degradation.
- Manual LNAPL Recovery Methods
 - May - June, 2019 – during LNAPL skimmer recovery tests, product was bailed from MW-32. LNAPL was transferred to an AST for storage and recycling.
- Cumulative Product Recovered
 - Extended Duration LNAPL Recovery Test at MW-32:
 - From May 7 – June 4, 2019, approximately 87 gallons of LNAPL was recovered from MW-32.
- Reports Submitted
 - 2018 Progress Report July 2018 – December 2018, Antea Group, January 21, 2019.
 - Remedial Action Options Report, March 14, 2019.
 - Technical Memorandum - Analysis of Benzene Plumes and Assessment of Co-mingling, October 11, 2019.
 - Technical Memorandum - Boring Logs, Well Construction, and LIF/CPT Compilation Part I: Former Amoco Terminal, October 25, 2019.
 - Technical Memorandum – Evidence for and Quantification of LNAPL Mass Depletion, November 1, 2019.
- WDNR Correspondence
 - Report submittals
 - Site Investigation Report (SIR) Not Approved. WDNR. June 27, 2019.
 - Remedial Action Options Report (RAOR) Not Approved. WDNR. June 27, 2019.
 - Technical Assistance Meeting Summary. WDNR. October 14, 2019.

2020 –

- Wells Installed
 - None.
- Soil Borings Completed
 - September 28 – October 30, 2020 – 53 pipeline excavation trench sidewall samples and 17 geoprobe samples as part of the abandonment of the out of service petroleum pipelines under Winter Street.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: May and October, 2020 - Semi-annual groundwater sampling from site wells.
- Remediation Investigation
 - None.
- Other Remedial Activities

- March - October, 2020 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
- September 28 - October 30, 2020 - Investigation and abandonment of the out of service petroleum pipelines that formerly connected the Terminal to the Barge Dock north under Winter Street and BNSF railways was completed.
- Manual LNAPL Recovery Methods
 - March – October, 2020 - Hand-bailed MW-32.
- Cumulative Product Recovered
 - MW-32 – 8.65 gallons.
- Reports Submitted
 - 2019 Progress Report January 2019 - December 2019, Antea Group, January 23, 2020.
 - Semi Annual Report Submittal, July 24, 2020.
 - Superior Terminal Pipeline Abandonment, December 8, 2020.
- WDNR Correspondence
 - Report submittals
 - Reminder to Include Evaluation of Emerging Contaminants in Site Investigation WDNR. August 17, 2020.

2021 –

- Wells Installed
 - None.
- Soil Borings Completed
 - None.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: May and October, 2021 - Semi-annual groundwater sampling from site wells.
- Remediation Investigation
 - None.
- Other Remedial Activities
 - May and October, 2021 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
 - August 31, 2021 – Abandonment of five monitoring/recovery wells on FedEx property: MW-3, MW-23, RW-06, EW-09, and EW-10 to accommodate property development.
- Manual LNAPL Recovery Methods
 - April – October, 2021 - Hand-bailed MW-32, EW-11, RW-06, and MW-23.
- Cumulative Product Recovered
 - MW-32 – 1.05 gallons.
 - EW-11 – 32.25 gallons.
 - RW-06 – 1.65 gallons.
 - MW-23 – 2.5 gallons.
- Reports Submitted
 - 2020 Progress Report January - December 2020, Antea Group, January 29, 2021.

- Well Abandonment Work Plan, March 12, 2021.
- Addendum to Well Abandonment Work Plan, June 14, 2021.
- Semi Annual Report Submittal, July 27, 2021.
- WDNR Correspondence:
 - Report submittals.

2022 –

- Wells Installed
 - None.
- Soil Borings Completed
 - September, 2022 – 10 soil probes (TPH-1A through TPH-10A, same locations as 2013 soil borings) were advanced on the Terminal (4 soil probes) and Barge Dock (6 soil probes) parcels to evaluate the thickness of the smear zone and the migration potential of LNAPL.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: May and November, 2022 - Semi-annual groundwater sampling from site wells.
 - LNAPL: August 15, 2022 – LNAPL samples collected from MW-27, MW-32, and RW-4.
- Remediation Investigation
 - None.
- Other Remedial Activities
 - May and November, 2022 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
- Manual LNAPL Recovery Methods:
 - May – November, 2022 - Hand-bailed MW-32.
- Cumulative Product Recovered
 - MW-32 – 1.20 gallons.
- Reports Submitted
 - 2021 Progress Report January - December 2021, Antea Group, February 8, 2022.
 - Request for Technical Assistance Meeting, March 23, 2022.
 - Former Amoco Terminal (Superior, WI) – Supplemental Investigative and Sampling Work Plan, September 1, 2022.
 - Well Installation Work Plan, December 15, 2022.
- WDNR Correspondence
 - Report submittals.
 - Technical Assistance Meeting Summary, August 4, 2022.

Through July 2023 –

- Wells Installed
 - EW-10R.
 - RW-06R.

- Soil Borings Completed
 - None.
- Remediation System in Use/Installed
 - None.
- Issues Encountered
 - None.
- Sampling Dates
 - Groundwater: May, 2023 - Semi-annual groundwater sampling from site wells.
- Remediation Investigation
 - None.
- Other Remedial Activities
 - May, 2023 - Depth to groundwater and free-phase hydrocarbon thicknesses measured as part of semi-annual groundwater sampling activities.
 - April, 2023 – Abandonment of 24 monitoring wells: MW-17, MW-31, MW-33, MW-49S, MW-49D, MWM-6, MRW-5, MRW-7, MRW-8, MRW-9, MRW-10, MWM-2, MWM-2D, MWM-3, MWASt-3, MWASt-4, MWASt-9, MWRR-1, MWRR-1D, MWOW-2, MWOW-2D, MWBD-1, MWBD-1D, MWBD-1DD
- Manual LNAPL Recovery Methods
 - None.
- Cumulative Product Recovered
 - None.
- Reports Submitted
 - 2022 Progress Report January - December 2022, Antea Group, January 31, 2023.
 - Results and Analysis of Updated LNAPL Investigation, March 2, 2023.
 - Well Abandonment Work Plan, March 22, 2023.
 - Semi Annual Report Submittal, July 27, 2021.
- WDNR Correspondence
 - Report submittals.
 - Technical Assistance – Monitoring Well Abandonment Request, May 4, 2023.

Mr. John Hunt, WDNR
Site Investigation Report
Former Amoco Terminal



Appendix C – MW-32 Hydrograph

Mr. John Hunt, WDNR
Site Investigation Report Addendum
Former Amoco Terminal
October 18, 2023



Appendix B – MW-32 Hydrograph

MW-32
 Depth to LNAPL/Groundwater
 Former Amoco Terminal
 Superior, Wisconsin

