

September 29, 2021

Mr. Riley Neumann
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Re: *Quarterly Groundwater Sampling Report*
(August 2021 Results)
BRRTS #: 02-41-576336 & 02-41-579429
FID #: 241828620
Sunrise Shopping Center
2410-2424 10th Avenue & 1009 Marquette Avenue
South Milwaukee, Wisconsin 53172

Mr. Neumann:

Please find enclosed the *Quarterly Groundwater Sampling Report* for the Sunrise Shopping Center facility located at the above-referenced address. Quarterly groundwater sampling of three (3) monitoring wells on-site continues to monitor any changes in Polynuclear Aromatic Hydrocarbon (PAH) and Tetrachloroethene (Perc) concentrations. PAH groundwater contaminant concentrations are monitored at MW-3 and MW-4 to assess if there is a need for remedial actions. Sampling for Perc concentrations in MW-5 continues to assess remedial progress and to determine plume stability.

A brief discussion of the quarterly sampling protocol and results of the August 2021 groundwater sampling are included in this quarterly report. As required, this quarterly report and all supporting documentation have also been submitted electronically to WDNR. If you have any questions or require additional information in regards to this submission, please contact me at (847) 9963-3580. Thank you for your time.

Sincerely,
DAI Environmental, Inc.



Christopher Cailles, P.E.
Project Engineer

Enclosure

**QUARTERLY GROUNDWATER SAMPLING REPORT
(AUGUST 2021 RESULTS)
SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE & 1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN 53172
WDNR BRRTS ACTIVITY #02-41-576336 & 02-41-579429
WDNR FID #241828620**

September 29, 2021

DAI Project Number: 6255

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TABLE OF CONTENTS

LIST OF TABLES	i
LIST OF FIGURES	i
LIST OF APPENDICES	i
1.0 INTRODUCTION.....	1
2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM.....	2
2.1 Quarterly Sampling Protocol	2
2.2 Groundwater Sampling Procedures and Chemical Analysis	2
3.0 QUARTERLY GROUNDWATER SAMPLING RESULTS	4
3.1 Static Groundwater Elevations.....	4
3.2 Groundwater Analytical Results	4
4.0 SUMP WATER SAMPLING RESULTS	7
5.0 SUMMARY AND SCHEDULE	8

LIST OF TABLES (APPENDIX A)

Groundwater Analytical Table for VOCs	Table A.1.A
Groundwater Analytical Table for PAHs.....	Table A.1.B
Ace Hardware Sump Water Analytical Table for Perc.....	Table A.5
Water Level Elevations	Table A.6

LIST OF FIGURES (APPENDIX B)

Detailed Site Map with Aerial View of Site and Surrounding Property.....	Figure B.1.b.1
Groundwater Isoconcentration (Perc)	Figure B.3.b.1a
Groundwater Isoconcentration (TCE).....	Figure B.3.b.1b
Groundwater Isoconcentration (Benzo(a)pyrene).....	Figure B.3.b.2a
Groundwater Isoconcentration (Benzo(b)fluoranthene)	Figure B.3.b.2b
Groundwater Isoconcentration (Chrysene).....	Figure B.3.b.2c
Groundwater Isoconcentration (Naphthalene).....	Figure B.3.b.2d
Groundwater Flow Direction (August 31, 2021).....	Figure B.3.c.18
Monitoring Wells	Figure B.3.d

LIST OF APPENDICES

TABLES	APPENDIX A
FIGURES	APPENDIX B
LABORATORY ANALYTICAL REPORTS.....	APPENDIX C.1.E

1.0 INTRODUCTION

Soil and groundwater Remedial Actions are being performed at the Sunrise Shopping Center facility, addressed as 2410-2424 10th Avenue and 1009 Marquette Avenue in South Milwaukee, Wisconsin (Site). Figure B.1.b.1 in Attachment B provides an aerial view of the Site and surrounding property. The Remedial Actions to address Volatile Organic Compound (VOC) contamination are being performed under BRRTS number 02-41-576336 and the Remedial Actions to address Polynuclear Aromatic Hydrocarbon (PAH) contamination are being performed under BRRTS number 02-41-579429. As part of the Remedial Actions, quarterly groundwater sampling has been conducted since January 2018. A brief discussion of the quarterly sampling protocol and results are provided below.

2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM

Quarterly groundwater sampling was first performed on January 5, 2018. The first quarterly sampling event included a complete round of sampling from each of the six (6) monitoring wells (MW-1 to MW-5 and MW-201) installed at the Site. Figure B.3.d provides the locations of the monitoring wells. As proposed in the December 28, 2017, *Site Investigation Work Plan*, the groundwater samples from all monitoring wells were submitted for analysis of PAHs, and a sample from MW-5 was also collected for VOC analysis. Results of the January 2018 groundwater sampling were provided to the Wisconsin Department of Natural Resources (WDNR) in the *Site Investigation Report Amendment Addendum* dated February 28, 2018. Results of subsequent 2018 quarterly sampling events were provided in *Quarterly Groundwater Sampling Reports*.

2.1 Quarterly Sampling Protocol

Quarterly groundwater sampling is being conducted at monitoring wells MW-3 to MW-5. The purpose of the quarterly groundwater sampling is to monitor any changes in groundwater contaminant concentrations and determine the need for any future remedial actions. The groundwater sampling has documented Tetrachloroethene (Perc) groundwater concentrations before, during, and following the chemical treatment Remedial Actions. The quarterly groundwater sampling has been performed as follows:

- Static water level measurements are collected from all accessible monitoring wells using an electronic water level indicator capable of detecting water depth with an accuracy of ± 0.01 ft;
- Groundwater samples are collected from monitoring wells MW-3 and MW-4 for laboratory analysis of PAHs; and
- A groundwater sample is collected from monitoring well MW-5 for laboratory analysis of VOCs.

2.2 Groundwater Sampling Procedures and Chemical Analysis

Consistent with sampling protocol followed during Site Investigation activities, the three (3) monitoring wells were purged prior to sample collection, to the extent practicable, to remove turbidity from the groundwater and allow the collection of a sediment-free sample that was representative of the surrounding groundwater conditions. Following purging, groundwater

samples were collected from MW-3 to MW-5. Monitoring wells MW-4 and MW-5 were sampled using disposable PVC bailers; a groundwater sample was obtained from MW-3 using a peristaltic pump with dedicated PVC tubing. Groundwater samples were distributed directly into the appropriate sample containers for subsequent laboratory analyses as follows:

- MW-5: VOCs via USEPA Method SW8260; and
- MW-3 and MW-4: PAHs via USEPA Method SW8270E by SIM.

The sample submitted for analysis of VOCs was dispensed into 40-mL vials preserved with hydrochloric acid, and the samples submitted for analysis of PAHs were dispensed into unpreserved 100-mL amber glass containers. New disposable nitrile gloves were used to collect each sample to limit cross contamination. The samples were stored on ice immediately after collection and were maintained at a temperature of 4°C or lower via a cooler with ice. Samples were ultimately transferred to Pace Analytical Services, LLC (Pace Analytical) of Green Bay, Wisconsin, an independent analytical laboratory following the standard chain-of-custody procedures.

3.0 QUARTERLY GROUNDWATER SAMPLING RESULTS

3.1 Static Groundwater Elevations

To evaluate potential seasonal fluctuation in static water elevation and/or groundwater flow direction, a complete round of static groundwater elevations was collected as part of the third quarter 2021 groundwater sampling event. The static water level elevations were collected from all monitoring wells on August 31, 2021. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that monitoring wells MW-1 through MW-4 indicate the highest quarterly variability, while MW-5 and MW-201 fluctuate less between quarters, in general. The highest static elevation differences are noted in monitoring wells MW-1 and MW-3, which are located in areas of the Site with known subsurface disturbance.

While there is much variability in elevation between quarters, the groundwater flow direction has remained generally consistent. The typical groundwater flow direction along the southern half of the Site is northwesterly, and a north-northeasterly groundwater flow direction is indicated along the northern half of the Site, though the most recent monitoring events have only indicated the northwesterly direction across the Site. The potentiometric surface map generated from the August 2021 data is included as Figure B.3.c.18 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the third quarter 2021 (i.e., July-September 2021) were collected on August 31, 2021, following the protocol described in Section 2.2. The groundwater sample collected from MW-5 was analyzed for VOCs, and the samples from MW-3 and MW-4 were analyzed for PAHs. A summary of all groundwater sampling data collected from monitoring wells MW-3 to MW-5 since the beginning of Site Investigations is provided Tables A.1.A-A.1.B (see Attachment A). The tables are compared to the Preventative Action Limits PAL (s) and Enforcement Standards listed in Table 1 of NR 140. A copy of the laboratory analytical report for the third quarter 2021 sampling is provided in this report as Attachment C.1.E.

Volatile Organic Compounds

Table A.1.A summarizes the results for Perc and Trichloroethene (TCE), the only VOCs of concern in the groundwater (previous quarterly reports include a full summary of VOC analyses). All results are for groundwater samples collected from MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location).

As noted in the table, since February 2016 Perc has been present consistently in monitoring well MW-5, with concentrations exceeding the Enforcement Standard of 0.005-mg/L. Concentrations were noted as increasing between November 2014 and October 2018, followed by an overall declining trend (though highly variable from quarter to quarter). The chemical injection activities conducted in July 2018 and August 2019 appear to have contributed to the declining concentrations. The results of the most recent groundwater from August 2021 sampling indicate a Perc concentration in MW-5 of 0.021-mg/L. The August 2021 concentration reflects a slight increase from the generally consistent concentrations observed each quarter between September 2019 (sampling following the second chemical injection) and May 2021. Overall the Perc concentrations in MW-5 are considered stable. The monthly sump samples are also relatively stable, although higher in concentration in 2021 than in preceding years. (The water collected in the sump is treated before discharge to the stormwater sewer system.) Quarterly monitoring of Perc concentrations in MW-5 and the monthly sump sampling will be continued. The quarterly groundwater sampling results from MW-5 are provided in Table A.1.A, and the monthly sump sample results are summarized in Table A.5. Figure B.3.b.1a provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination.

Since the groundwater sampling was initiated, the TCE concentration in MW-5 was observed at a level above the PAL on two (2) occasions: January 2019 (0.0027-mg/L) and April 2019 (0.00071-mg/L). All subsequent TCE concentrations have remained below the PAL, with the most recent result from August 2021 at a concentration of <0.00032-mg/L. Figure B.3.b.1b provides a historical summary of TCE groundwater concentrations.

Polynuclear Aromatic Hydrocarbons

Table A.1.B summarizes the results of the PAH analyses for MW-3 and MW-4. Figures B.3.b.2a to B.3.b.2d provide a historical summary of groundwater results for Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene, respectively.

A review of historical sampling results from MW-3 (which is installed in the southern portion of the property where contamination from historical petroleum and/or coal storage was identified) indicates the presence of PAH contamination in groundwater during each sampling event. Consistent with past sampling events, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene groundwater contamination was observed in MW-3. The most recent concentrations from August 2021 remain above the Enforcement Standards, although markedly lower than the previous sampling results. Excluding this latest result, the PAH results were considered stable, with consistent concentrations observed during each quarterly sampling event between May 2020 and May 2021. As previously noted, it appears that the groundwater concentrations are most influenced by fluctuations in the groundwater table elevation through the contaminated fill material, particularly in the area for MW-3. Additionally, the monitoring well has been damaged as a result of snow removal operations, so that the integrity of casing may be negatively impacting the PAH sampling results. The damage to the monitoring well casing and fluctuations in the groundwater table elevations contribute to the high variability in observed concentrations over time. However, these impacts are still limited to the area along the southern property boundary.

Sample results in MW-4 (installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST) typically indicate concentrations of Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene above the Enforcement Standards. The concentrations reported in the August 2021 were below the Method Detection Limit (MDL), but above the Enforcement Standards as a result of significant sample dilution by the laboratory. While concentrations reported below the MDL, but above the Enforcement Standard are not evaluated as an exceedance per NR140.14(3)(a), it is assumed that the reported concentrations would have been observed exceedances if not for the laboratory dilution. The previous concentrations for several quarterly sampling events have been generally stable. The Naphthalene groundwater

concentration continues to remain below the PAL. The variability of the PAH concentrations in MW-4 appears to be largely influenced by fluctuations in the groundwater table elevation.

4.0 SUMP WATER SAMPLING RESULTS

To address the Perc contamination identified in the sump water from the basement of the Ace Hardware building, an activated carbon treatment system was proposed to the WDNR. The proposed treatment system discharge was issued coverage under WPDES Permit Number WI-0046566-07-0 in a letter dated April 10, 2019, and the system began operation on May 14, 2019. As a condition of the permit approval, weekly discharge samples were required to be collected for a period of 4-weeks followed by monthly sampling thereafter. Weekly samples were collected on May 15th, 23rd, 29th, and June 6, 2019. The first monthly sample was collected on June 25, 2019. In addition to the required discharge samples, samples of the sump water have been collected for VOC analysis to both monitor the groundwater contaminant concentrations around the Ace Hardware building and verify the system is operating correctly.

While not strictly part of the quarterly sampling protocol, results of the sump water sampling are included with this submission as an indication of the groundwater contaminant concentrations below and around the Ace Hardware building. The results of the sump water samples are summarized in Table A.5. (Because all VOCs are reported below the Limit of Detection with the exception of Perc, Table A.5 only summarizes the Perc results.) The historical sump water sample results are also provided in Figure B.3.b.1a.

As noted in Table A.5, the Perc concentrations in the influent sump water are often above the Enforcement Standard, and always above the PAL. However, all corresponding discharge samples indicate that the treatment system has been fully effective in removing Perc from the water prior to discharge into the stormwater sewer system. None of the discharge samples are reported with a detectable concentration of Perc.

Monthly sampling of the sump water influent and system effluent discharge will continue. The discharge sample results are submitted electronically to WDNR, as required by the WPDES permit.

5.0 SUMMARY AND SCHEDULE

- Perc has been observed in monitoring well MW-5 at concentrations exceeding the Enforcement Standard since February 2016. The concentrations were observed to be increasing with time until chemical injection was performed in July 2018. Subsequently, Perc concentrations in MW-5, though highly variable, have shown an overall decline since October 2018. The additional chemical injection performed near MW-5 in August 2019 also helped reduce the mass of Perc contamination. However, because there is still Perc in the soil surrounding MW-5, the groundwater Perc concentrations in MW-5 remain at concentrations above the Enforcement Standard. The sampling data from September 2019 through May 2021 indicated relatively stable Perc concentrations in MW-5. The most recent sampling results from August 2021 show a slight increase in Perc concentration. The results from MW-5 and the monthly sump sampling (which are indicative of groundwater concentrations near MW-5) will continue to be monitored for any changes in contaminant concentration.
- Sampling of the Ace Hardware sump water indicates influent Perc concentrations above the Enforcement Standard, although all effluent discharge samples from the treatment system are below detectable concentrations. Sump water treatment and influent and effluent sampling will continue on a monthly basis.
- The PAH constituents Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene remain at concentrations above the Enforcement Standards in MW-3 and MW-4. Naphthalene concentrations remain below the PAL. PAH concentrations in MW-3 had remained nearly the same since May 2020 before indicating a decrease in August 2021. As a result of heavy laboratory dilution, concentrations in MW-4 were reported below the MDL, but at a level above those observed in May 2021 and therefore no clear trend can be determined from the August 2021 results. The quarterly sampling of MW-3 and MW-4 has indicated that groundwater concentrations are variable and are influenced by groundwater fluctuations through impacted backfill. The site-wide presence of fill material (including coal and cinders remaining from the historical use of the property) also likely contributes to the observed PAH groundwater concentrations. (A large portion of the Site exhibits low-level PAH soil contamination.) The most recent sampling data do not indicate an increase or spread of contamination.
- Quarterly groundwater sampling has been conducted since January 2018. The sampling results indicate levels of Perc, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene at concentrations above the Enforcement Standards. The concentrations of Perc in MW-5 are generally stable, and the PAH concentrations in MW-3 and MW-4, though variable, do not indicate an overall increase or further spread of contamination.

**APPENDIX A
TABLES**

**Table A.1.A. Groundwater Analytical Table for Volatile Organic Compounds (mg/L)
(Quarterly Groundwater Sampling Wells)**

Sample Location	Sample Date	Tetrachloroethene	Trichloroethene
MW-5	08/31/21	<u>0.021</u>	<0.00032
	05/09/21	<u>0.012</u>	<0.00032
	01/18/21	<u>0.01</u>	<0.00026
	10/12/20	<u>0.014</u>	0.00047
	07/14/20	<u>0.01</u>	<0.00026
	05/05/20	<u>0.0088</u>	<0.00026
	01/17/20	<u>0.0084</u>	0.00038 (J)
	10/24/19	<u>0.012</u>	0.00039 (J)
	09/05/19	<u>0.0153</u>	0.00038 (J)
	07/07/19	<u>0.0106</u>	0.00048 (J)
	04/29/19	<u>0.0114</u>	0.00071 (J)
	01/25/19	<u>0.0065</u>	0.0027
	10/11/18	<u>0.021</u>	0.00027 (J)
	07/30/18	<u>0.0086</u>	<0.00026
	04/07/18	<u>0.0203</u>	<0.00033
	01/05/18	<u>0.0181</u>	<0.00033
	05/30/17	<u>0.0124</u>	<0.00033
	02/23/16	<u>0.0083</u>	<0.00033
	01/27/15	<u>0.0026</u>	<0.00033
	11/12/14 (TW-2)	<u>0.0026</u>	<0.00033
PAL¹		0.0005	0.0005
Enforcement Standard²		0.005	0.005

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification VOCs via USEPA Method SW8260

**Table A.1.B. Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)						PAL ¹	ES ²
	TW-5 (11/13/14)	MW-3 (01/27/15)	MW-3 (05/30/17)	MW-3 (01/05/18)	MW-3 (04/07/18)	MW-3 (07/30/18)		
Acenaphthene	0.00076	0.0000043 (J)	0.000026 (J)	0.0000077 (J)	0.000029	0.000014 (J)	NL	NL
Acenaphthylene	0.00013	0.0000036 (J)	0.000016 (J)	<0.0000045	0.000053	0.000023	NL	NL
Anthracene	0.00056	<0.0000023	0.00013	0.000031 (J)	0.00015	0.000073	0.6	3
Benzo(a)anthracene	0.00069	<0.0000031	0.00073	0.0000069 (J)	0.001	0.00043	NL	NL
Benzo(a)pyrene	0.0006	0.000011 (J)	0.001	<0.0000096	0.0019	0.00068	0.00002	0.0002
Benzo(b)fluoranthene	0.00077	0.00002 (J)	0.002	0.000037	0.0039	0.0013	0.00002	0.0002
Benzo(g,h,i)perylene	0.0004	0.000016 (J)	0.0011	0.00018 (J)	0.0025	0.00082	NL	NL
Benzo(k)fluoranthene	0.00029	0.00001 (J)	0.00068	0.000014 (J)	0.0014	0.00041	NL	NL
Chrysene	0.00084	0.000028 (J)	0.0015	0.000047 (J)	0.003	0.00095	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000091	<0.0000032	0.00022	<0.0000091	0.00034	0.00015	NL	NL
Fluoranthene	0.0024	0.000041 (J)	0.0031	0.00021	0.0052	0.0019	0.08	0.4
Fluorene	0.0011	0.0000035 (J)	0.000052	0.000022 (J)	0.000048	0.00004	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0003	0.0000081 (J)	0.00086	<0.000016	0.0021	0.00089	NL	NL
1-Methylnaphthalene	0.002	0.0000091 (J)	0.00018	0.00016	0.000033	0.000033	NL	NL
2-Methylnaphthalene	0.00017	0.0000084 (J)	0.00013	0.00016	0.000024	0.000031	NL	NL
Naphthalene	0.00016	<0.0000056	0.00012	0.00046	0.000051	0.000053 (J)	0.017	0.1
Phenanthrene	0.0021	0.000043 (J)	0.00071	0.000085	0.0013	0.00047	NL	NL
Pyrene	0.0025	0.000059	0.002	0.00011	0.0037	0.0012	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270E by SIM

NOTE – MW-3 installed to duplicate TW-5

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)						PAL ¹	ES ²
	MW-3 (10/11/18)	MW-3 (01/25/19)	MW-3 (04/29/19)	MW-3 (07/07/19)	MW-3 (10/24/19)	MW-3 (01/17/20)		
Acenaphthene	0.00001 (J)	0.0000068 (J)	0.0015	0.000023 (J)	0.00016	0.0003	NL	NL
Acenaphthylene	<0.0000045	<0.0000047	0.0027	0.000084	0.00043	0.0002	NL	NL
Anthracene	0.00002 (J)	0.000027 (J)	0.0089	0.00013	0.00088	0.00028	0.6	3
Benzo(a)anthracene	0.000017 (J)	0.000053	0.11	0.00087	0.009	0.0042	NL	NL
Benzo(a)pyrene	0.000024 (J)	0.00017	0.115	0.0019	0.015	0.0063	0.00002	0.0002
Benzo(b)fluoranthene	0.000074	0.00034	0.209	0.0036	0.03	0.0104	0.00002	0.0002
Benzo(g,h,i)perylene	0.000037	0.00023	0.132	0.0025	0.018	0.0072	NL	NL
Benzo(k)fluoranthene	0.000026 (J)	0.00012	0.0643	0.0016	0.0095	0.004	NL	NL
Chrysene	0.000079	0.00028	0.13	0.0026	0.016	0.0013	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000009	0.000034 (J)	0.0258	0.00028	0.0034	0.0117	NL	NL
Fluoranthene	0.00026	0.00043	0.248	0.0035	0.025	0.0005	0.08	0.4
Fluorene	0.000031 (J)	0.000014 (J)	0.0028	0.000037	0.00022	0.00004	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.000027 (J)	0.00016	0.108	0.0019	0.014	0.0056	NL	NL
1-Methylnaphthalene	0.000019 (J)	0.000013 (J)	0.0003	0.000011 (J)	--	0.00039	NL	NL
2-Methylnaphthalene	0.000015 (J)	0.000012 (J)	0.00025	0.000014 (J)	--	0.000048	NL	NL
Naphthalene	0.000032 (J)	0.000022 (J)	0.00035	0.000019 (J)	0.00015	0.0001	0.017	0.1
Phenanthrene	0.000093	0.00011	0.066	0.00079	0.0061	0.003	NL	NL
Pyrene	0.0002	0.00031	0.21	0.0029	0.024	0.011	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270E by SIM

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)						PAL ¹	ES ²
	MW-3 (05/05/20)	MW-3 (07/14/20)	MW-3 (10/12/20)	MW-3 (01/18/21)	MW-3 (05/03/21)	MW-3 (08/31/21)		
Acenaphthene	0.00013 (J)	0.000026	0.00022	0.0028	0.00035	0.000044 (J)	NL	NL
Acenaphthylene	0.00002 (J)	0.00034	0.000075	0.000096	0.00012	0.000021 (J)	NL	NL
Anthracene	0.000086	0.00016	0.00016	0.00033	0.00065	0.00017	0.6	3
Benzo(a)anthracene	0.00066	0.00057	0.00076	0.0014	0.0013	0.0001	NL	NL
Benzo(a)pyrene	0.0011	0.0012	0.0013	0.0024	0.0024	0.00021	0.00002	0.0002
Benzo(b)fluoranthene	0.0023	0.0022	0.0027	0.005	0.0054	0.0005	0.00002	0.0002
Benzo(g,h,i)perylene	0.0015	0.0017	0.0017	0.0032	0.0028	0.00033	NL	NL
Benzo(k)fluoranthene	0.00078	0.00092	0.0009	0.0016	0.0021	0.00017	NL	NL
Chrysene	0.0012	0.0014	0.0015	0.0028	0.005	0.00036	0.00002	0.0002
Dibenzo(a,h)anthracene	0.00026	0.00027	0.00027	0.00058	0.00043	0.000047	NL	NL
Fluoranthene	0.0018	0.0028	0.0024	0.0045	0.015	0.00075	0.08	0.4
Fluorene	0.000014 (J)	0.00004	0.00025	0.00018	0.00065	0.000031 (J)	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0012	0.0014	0.0013	0.0025	0.0024	0.00024	NL	NL
1-Methylnaphthalene	<0.000057	0.000024	0.00027	0.00016	-	0.000019 (J)	NL	NL
2-Methylnaphthalene	<0.000048	0.000015	0.000091	0.00002 (J)	-	0.00002 (J)	NL	NL
Naphthalene	<0.000018	0.00003	0.0001	0.00013	0.0001 (J)	0.00005	0.017	0.1
Phenanthrene	0.00046	0.00038	0.00086	0.0012	0.013	0.00018	NL	NL
Pyrene	0.0015	0.0016	0.0021	0.0041	0.0095	0.00043	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270E by SIM

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)						PAL ¹	ES ²
	TW-6 (11/13/14)	MW-4 (01/27/15)	MW-4 (02/23/16)	MW-4 (05/30/17)	MW-4 (01/05/18)	MW-4 (04/07/18)		
Acenaphthene	0.00049	0.0000039 (J)	0.00056	0.0386	0.0246	0.0031	NL	NL
Acenaphthylene	0.00012	0.000084	0.000073	0.0166	0.0083	0.00073	NL	NL
Anthracene	0.00006	0.00006	0.00011	0.0018 (J)	0.0019	0.00051	0.6	3
Benzo(a)anthracene	0.000013 (J)	<0.0000032	0.0000082 (J)	0.00044 (J)	<0.00014	0.000012 (J)	NL	NL
Benzo(a)pyrene	0.0000053 (J)	0.000017 (J)	0.000006 (J)	<u><0.00049</u>	<u><0.0002</u>	<0.0000095	0.00002	0.0002
Benzo(b)fluoranthene	0.0000093 (J)	0.000043 (J)	0.000014 (J)	<u><0.00027</u>	0.00022 (J)	0.0000096 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000071 (J)	0.000025 (J)	0.0000081 (J)	<0.00031	<0.00013	<0.0000061	NL	NL
Benzo(k)fluoranthene	<0.000005	0.000021 (J)	<0.0000051	<0.00035	<0.00014	<0.0000068	NL	NL
Chrysene	0.000021 (J)	0.000042 (J)	0.000017 (J)	0.0018 (J)	0.001 (J)	0.000031 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000035	<0.0000033	<0.0000051	<0.00046	<0.00019	<0.000009	NL	NL
Fluoranthene	0.00004 (J)	0.000049	0.00003 (J)	0.0037	0.0046	0.0001	0.08	0.4
Fluorene	0.00061	0.000031 (J)	0.00051	0.0759	0.0504	0.0053	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0000044 (J)	0.000017 (J)	0.0000056 (J)	<0.00082	<0.00033	<0.000016	NL	NL
1-Methylnaphthalene	0.0087	0.000076	0.0041	0.357	0.183	0.0109	NL	NL
2-Methylnaphthalene	0.0065	0.000066	0.000037 (J)	0.0747	0.0126	0.00026	NL	NL
Naphthalene	0.0022	0.00027	0.00017	0.0243	0.0151	0.0022	0.017	0.1
Phenanthrene	0.00062	0.000033 (J)	0.00029	0.165	0.102	0.0033	NL	NL
Pyrene	0.00006	0.0001	0.000081	0.0165	0.0102	0.00032	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270E by SIM

NOTE – MW-4 installed to duplicate TW-6

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)						PAL ¹	ES ²
	MW-4 (07/30/18)	MW-4 (10/11/18)	MW-4 (01/25/19)	MW-4 (04/29/19)	MW-4 (07/07/19)	MW-4 (10/24/19)		
Acenaphthene	0.0021	0.004	0.0016	0.0033	0.0028	0.01	NL	NL
Acenaphthylene	0.00064	0.00091	0.00024	0.00059	0.0005	0.0029	NL	NL
Anthracene	0.00024	0.001	0.000093	0.00033	0.00044	0.0068	0.6	3
Benzo(a)anthracene	<0.000035	0.00004 (J)	0.0000076 (J)	0.000061	<0.000026	0.00069	NL	NL
Benzo(a)pyrene	<0.000048	<0.000029	<0.0000095	0.000041 (J)	<0.000037	0.00045	0.00002	0.0002
Benzo(b)fluoranthene	<0.000026	0.000022	0.000012 (J)	0.000093	<0.00002	0.00086	0.00002	0.0002
Benzo(g,h,i)perylene	<0.000031	<0.000018	<0.0000061	0.000045	<0.000024	0.00049	NL	NL
Benzo(k)fluoranthene	<0.000035	<0.000021	0.000016 (J)	0.00005	<0.000026	0.00038	NL	NL
Chrysene	<0.00006	0.000084 (J)	0.000033 (J)	0.00017	<0.000046	0.0016	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000046	<0.000027	<0.000009	0.0000091 (J)	<0.000035	0.000074 (J)	NL	NL
Fluoranthene	0.000061 (J)	0.00019	0.000091	0.0004	0.00011 (J)	0.0026	0.08	0.4
Fluorene	0.0035	0.0067	0.0022	0.0046	0.0044	0.019	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.000081	<0.000048	<0.000016	0.00004 (J)	<0.000062	0.00033 (J)	NL	NL
1-Methylnaphthalene	0.0395	0.0268	0.006	0.0151	0.0174	--	NL	NL
2-Methylnaphthalene	0.00051	0.00021	0.000048	0.00026	0.00048	--	NL	NL
Naphthalene	0.0015	0.00081	0.00078	0.0014	0.0034	0.0026	0.017	0.1
Phenanthrene	0.0031	0.0059	0.00077	0.0037	0.0013	0.026	NL	NL
Pyrene	0.00017 (J)	0.0001	0.00021	0.0014	0.00037	0.0096	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270E by SIM

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)						PAL ¹	ES ²
	MW-4 (01/17/20)	MW-4 (05/05/20)	MW-4 (07/14/20)	MW-4 (10/12/20)	MW-4 (01/18/21)	MW-4 (05/03/21)		
Acenaphthene	0.0357	0.097	0.047	0.016	0.012	0.015	NL	NL
Acenaphthylene	0.0114	0.029	0.011	0.0033	0.003	0.0053	NL	NL
Anthracene	0.0063	0.014	0.017	0.0057	0.0056	0.01	0.6	3
Benzo(a)anthracene	0.0036	0.0016 (J)	0.0014	0.00062 (J)	0.00029 (J)	0.00089	NL	NL
Benzo(a)pyrene	0.0031	0.0012 (J)	0.00046 (J)	0.00029 (J)	0.00013 (J)	0.0003 (J)	0.00002	0.0002
Benzo(b)fluoranthene	0.0056	0.0032	0.00098	0.00065	0.00029	0.00061	0.00002	0.0002
Benzo(g,h,i)perylene	0.0032	0.0019	0.00054	0.00035 (J)	0.00016 (J)	0.00033	NL	NL
Benzo(k)fluoranthene	0.0022	0.00089 (J)	0.00055	0.0003 (J)	0.000096 (J)	0.0002 (J)	NL	NL
Chrysene	0.0074	0.005	0.0038	0.0015	0.00082	0.0022	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000061 (J)	<0.00048	<0.00018	<0.00018	<0.00009	<0.00009	NL	NL
Fluoranthene	0.0128	0.015	0.008	0.0026	0.0016	0.0035	0.08	0.4
Fluorene	0.0576	0.15	0.055	0.017	0.014	0.029	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0025	0.00096 (J)	0.00036 (J)	<0.00032	<0.00016	0.00021 (J)	NL	NL
1-Methylnaphthalene	0.0947	0.24	0.087	0.03	0.021	-	NL	NL
2-Methylnaphthalene	0.0032	0.003	0.0018	0.00079	0.00052	-	NL	NL
Naphthalene	0.0074	0.035	0.025	0.007	0.0055	0.0091	0.017	0.1
Phenanthrene	0.0992	0.26	0.082	0.026	0.022	0.049	NL	NL
Pyrene	0.0344	0.049	0.028	0.01	0.0067	0.016	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270E by SIM

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)	PAL ¹	ES ²
	MW-4 (08/31/21)		
Acenaphthene	0.017	NL	NL
Acenaphthylene	0.0062	NL	NL
Anthracene	0.013	0.6	3
Benzo(a)anthracene	0.0013 (J)	NL	NL
Benzo(a)pyrene	<0.0017*	0.00002	0.0002
Benzo(b)fluoranthene	<0.0017*	0.00002	0.0002
Benzo(g,h,i)perylene	<0.0021	NL	NL
Benzo(k)fluoranthene	<0.002	NL	NL
Chrysene	<0.0024*	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0016	NL	NL
Fluoranthene	0.0047	0.08	0.4
Fluorene	0.031	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.0014	NL	NL
1-Methylnaphthalene	0.046	NL	NL
2-Methylnaphthalene	0.0022 (J)	NL	NL
Naphthalene	0.01	0.017	0.1
Phenanthrene	0.034	NL	NL
Pyrene	0.019	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

* – Limit of detection reported greater than most stringent applicable standard; “non-detect” concentration not taken as exceedance per NR140.14(3)(a)

NL – Not Listed in Wisconsin Administrative Code

PNAAs via USEPA Method SW8270E by SIM

Table A.5. Ace Hardware Sump Water Analytical Table for Tetrachlorethene (mg/L)

Sample Location	Sample Date	Tetrachloroethene
Sump	08/06/21	<u>0.016</u>
	07/02/21	<u>0.014</u>
	06/14/21	<u>0.013</u>
	05/03/21	<u>0.016</u>
	04/06/21	<u>0.012</u>
	03/08/21	<u>0.01</u>
	02/02/21	<u>0.014</u>
	01/12/21	<u>0.005</u>
	12/09/20	<u>0.0048</u>
	11/12/20	<u>0.0068</u>
	10/12/20	<u>0.009</u>
	09/03/20	<u>0.0065</u>
	08/17/20	<u>0.01</u>
	07/14/20	<u>0.0078</u>
	06/03/20	<u>0.0068</u>
	05/05/20	<u>0.0054</u>
	04/06/20	<u>0.005</u>
	03/10/20	<u>0.0063</u>
	02/03/20	<u>0.006</u>
	01/07/20	<u>0.0065</u>
	12/03/19	<u>0.0068</u>
	11/04/19	<u>0.008</u>
	10/02/19	<u>0.0069</u>
	09/05/19	<u>0.0076</u>
	08/02/19	<u>0.005</u>
	07/19/19	<u>0.0062</u>
06/25/19	<u>0.0054</u>	
06/06/19	<u>0.0069</u>	
05/29/19	<u>0.0043</u>	
05/23/19	<u>0.0042</u>	
05/15/19	<u>0.0093</u>	
02/04/19	<u>0.0064</u>	
01/05/18	<u>0.0082</u>	
06/04/17	<u>0.006</u>	
PAL¹		0.0005
Enforcement Standard²		0.005

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

NOTE – All other VOCs reported below the Limit of Detection
VOCs via USEPA Method SW8260

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-1	99.13	08/31/21	3.75	14.49	95.38
		05/03/21	2.97		96.16
		01/18/21	3.34		95.79
		10/12/20	Obstructed		--
		07/14/20	1.79		97.34
		05/05/20	1.80		97.33
		01/17/20	2.74		96.39
		10/24/19	3.07		96.06
		07/07/19	3.46		95.67
		04/29/19	2.35		96.78
		01/25/19	4.65		94.48
		10/11/18	1.66		97.47
		07/30/18	3.32		95.81
		04/08/18	2.24		96.89
		02/27/18	1.58		97.55
		05/30/17	2.17		96.96
		04/24/15	1.46		97.67
03/30/15	1.98	97.15			
01/27/15	3.93	95.20			
MW-2	100.75	08/31/21	7.70	14.41	93.05
		05/03/21	7.55		93.20
		01/18/21	8.12		92.63
		10/12/20	7.82		92.93
		07/14/20	6.36		94.39
		05/05/20	6.24		94.51
		01/17/20	6.83		93.92
		10/14/19	Obstructed		--
		07/07/19	7.51		93.24
		04/29/19	8.47		92.28
		01/25/19	8.42		92.33
		10/11/18	6.45		94.30
		07/30/18	7.45		93.30
		04/08/18	8.36		92.39
		02/27/18	8.54		92.21
		05/30/17	7.95		92.80
		04/24/15	7.21		93.54
03/30/15	8.01	92.74			
01/27/15	8.60	92.15			

Table A.6. Water Level Elevations

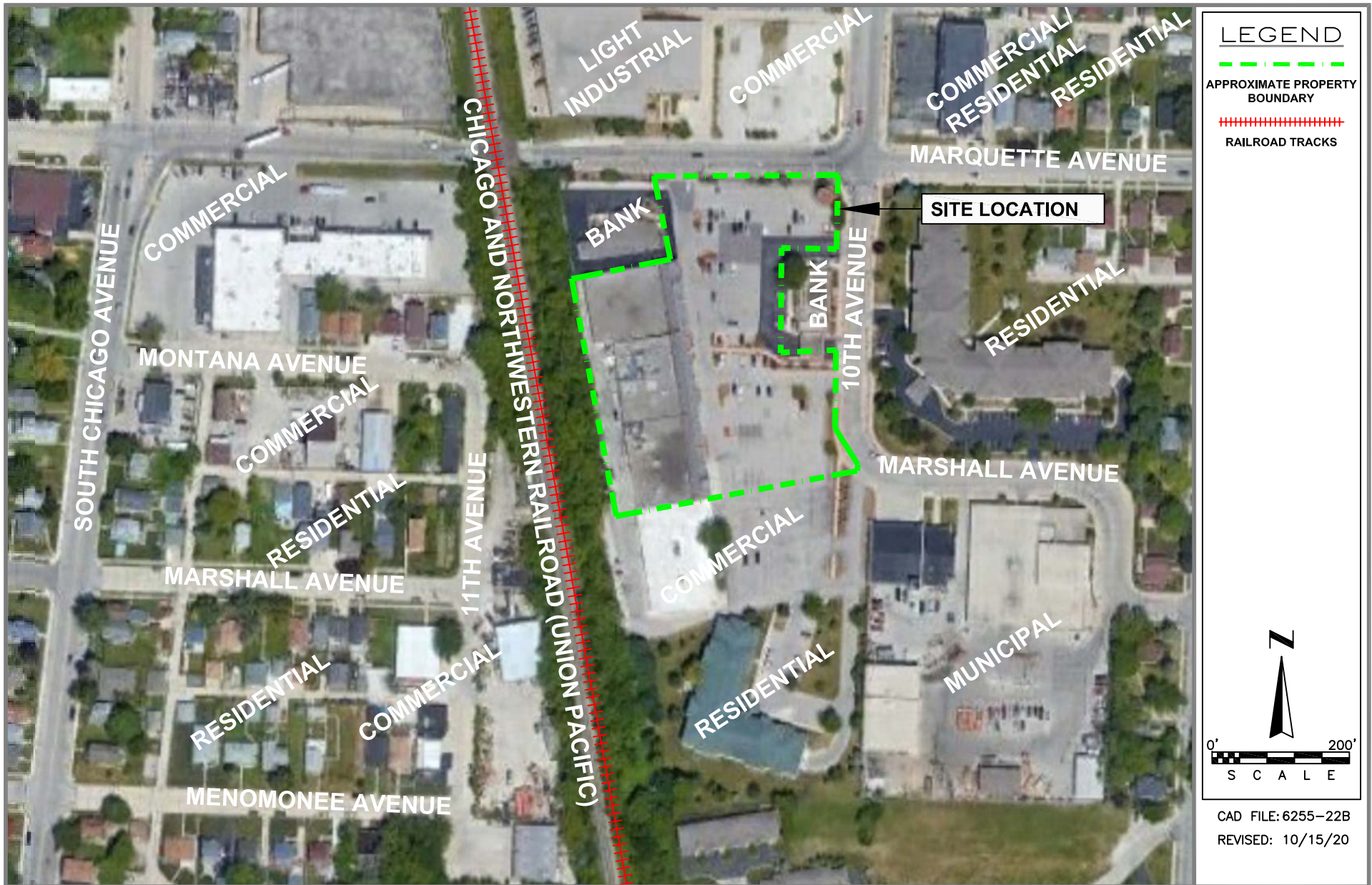
Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-3	100.05	08/31/21	4.37	14.46	95.68
		05/03/21	3.45		96.60
		01/18/21	4.50		95.55
		10/12/20	4.25		95.80
		07/14/20	3.37		96.68
		05/05/20	2.27		97.78
		01/17/20	3.20		96.85
		10/14/19	3.61		96.44
		07/07/19	3.73		96.32
		04/29/19	2.61		97.44
		01/25/19	4.44		95.61
		10/11/18	2.35		97.70
		07/30/18	3.62		96.43
		04/08/18	2.53		97.52
		02/27/18	2.43		97.62
		05/30/17	2.45		97.60
		04/24/15	2.27		97.78
03/30/15	2.73	97.32			
01/27/15	4.46	95.59			
MW-4	100.57	08/31/21	6.51	14.57	94.06
		05/03/21	6.19		94.38
		01/18/21	6.51		94.06
		10/12/20	6.65		93.92
		07/14/20	5.34		95.23
		05/05/20	5.07		95.50
		01/17/20	6.21		94.36
		10/24/19	6.14		94.43
		07/07/19	6.98		93.59
		04/29/19	7.30		93.27
		01/25/19	6.88		93.69
		10/11/18	5.43		95.14
		07/30/18	6.91		93.66
		04/08/18	7.26		93.31
		02/27/18	7.23		93.34
		05/30/17	6.38		94.19
		04/24/15	5.94		94.63
03/30/15	7.04	93.53			
01/27/15	6.53	94.04			

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-5	100.24	08/31/21	6.48	14.60	93.76
		05/03/21	6.25		93.99
		01/18/21	5.90		94.34
		10/12/20	6.30		93.94
		07/14/20	5.84		94.39
		05/05/20	5.83		94.41
		01/17/20	5.87		94.37
		10/24/19	5.98		94.26
		07/07/19	6.25		93.99
		04/29/19	6.33		93.91
		01/25/19	6.35		93.89
		10/11/18	5.85		94.39
		07/30/18	6.19		94.05
		04/08/18	6.27		93.97
		02/27/18	6.15		94.09
		05/30/17	5.96		94.28
		04/24/15	5.92		94.32
03/30/15	6.26	93.98			
01/27/15	6.50	93.74			
MW-201	100.10	08/31/21	7.78	14.57	92.32
		05/03/21	7.56		92.54
		01/18/21	8.24		91.86
		10/12/20	7.95		92.15
		07/14/20	7.11		92.29
		05/05/20	6.44		93.66
		01/17/20	7.00		93.10
		10/24/19	6.57		93.53
		07/07/19	6.72		93.38
		04/29/19	6.82		93.28
		01/25/19	6.88		93.22
		10/11/18	6.22		93.88
		07/30/18	6.69		93.41
		04/08/18	6.79		93.34
		02/27/18	6.46		93.64
		05/30/17	6.26		93.84
		04/24/15	5.91		94.19
03/30/15	6.28	93.82			
01/27/15	Not Installed	Not Installed			

* – Relative Elevation based upon generic 100-ft on-site datum and survey data collected on January 27, 2015, and March 30, 2015.

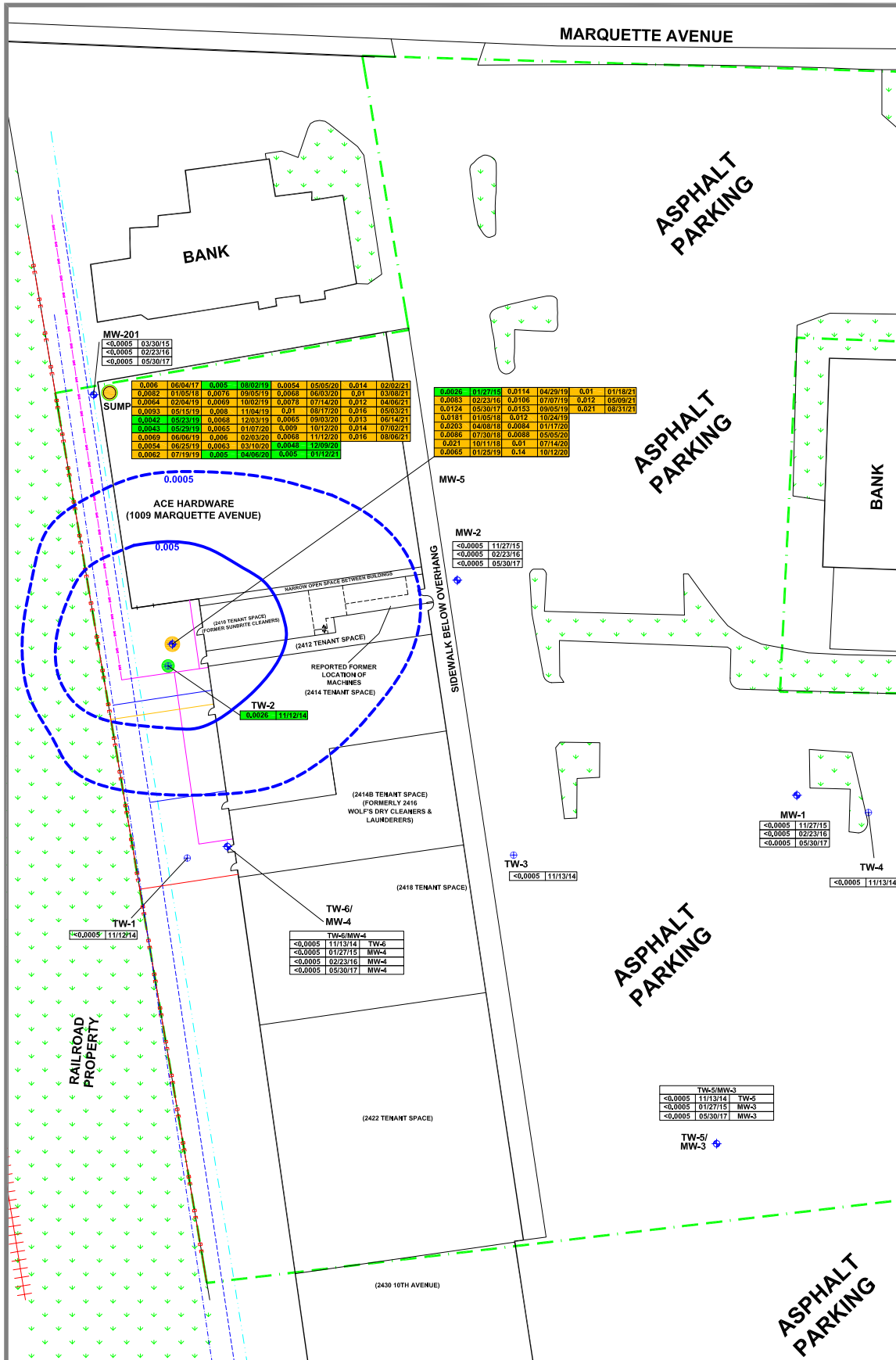
APPENDIX B
FIGURES



DAI
ENVIRONMENTAL

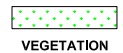
SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.1.b.1
DETAILED SITE MAP WITH AERIAL VIEW
OF SITE AND SURROUNDING PROPERTY
(2019 AERIAL TAKEN FROM GOOGLE EARTH)



LEGEND

APPROXIMATE PROPERTY BOUNDARY



VEGETATION
(2410)
UNIT ADDRESS

FIBER OPTICS UTILITY LINE

GAS UTILITY LINE

SANITARY UTILITY LINE

WATER UTILITY LINE (12")

WATER UTILITY LINE (4")

OVERHEAD ELECTRIC UTILITY LINE

MONITORING WELL LOCATION

SOIL BORING WITH TEMPORARY WELL LOCATION

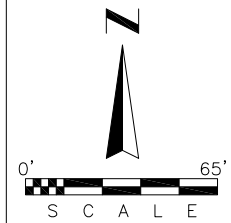
OBSERVED PAL EXCEEDANCE FOR PERC

OBSERVED PAL AND ES EXCEEDANCE FOR PERC

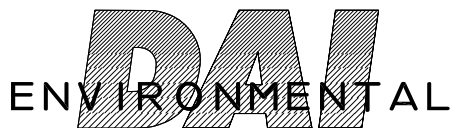
PERC CONC. mg/L	SAMPLE DATE
<0.0005	03/30/15
<0.0005	02/23/16
<0.0005	05/30/17

SITE INVESTIGATION DEFINED PERC ISOCONCENTRATION LINE (mg/L)

SITE INVESTIGATION ESTIMATED PERC ISOCONCENTRATION LINE (mg/L)

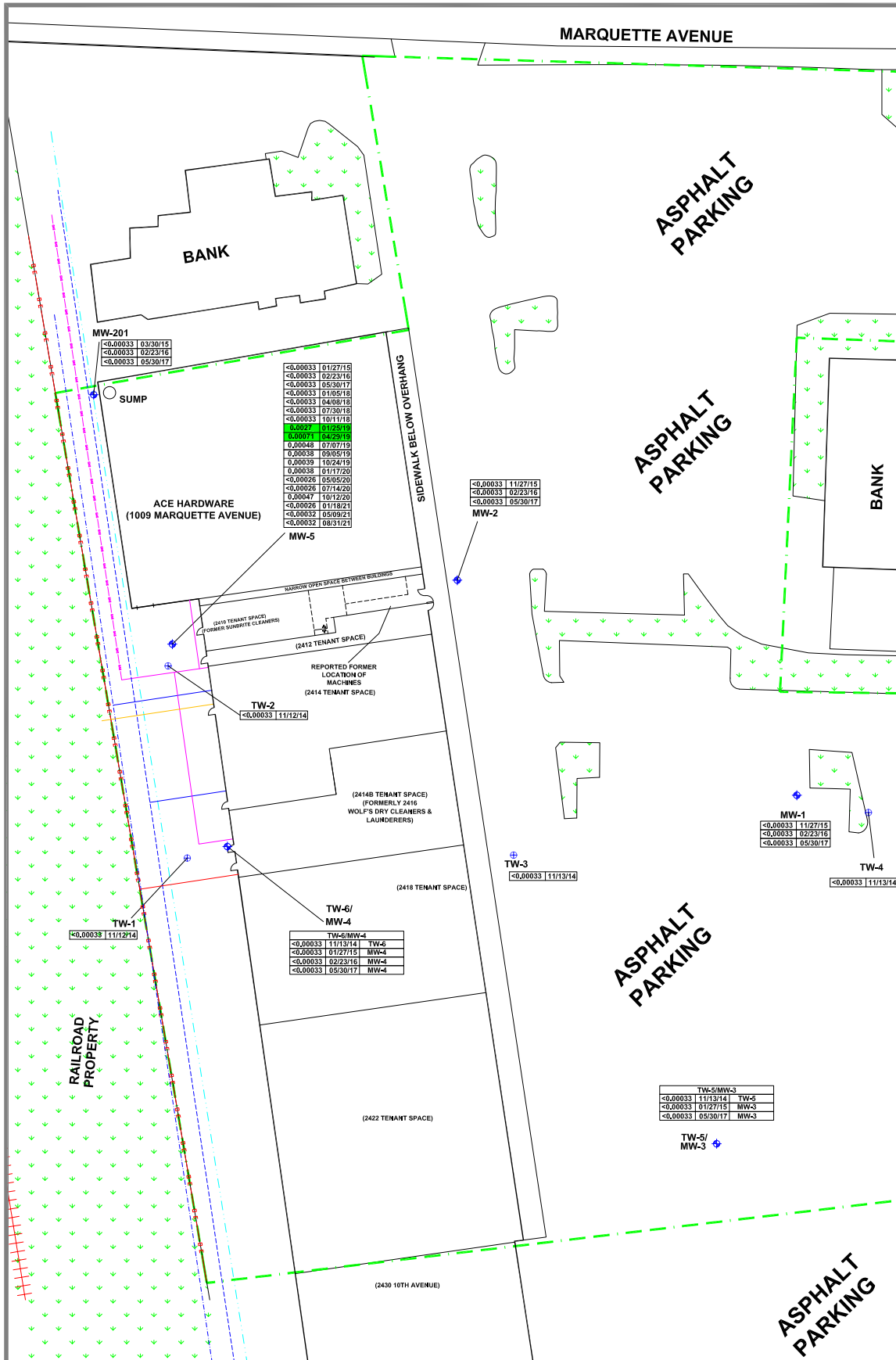


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REVISED: 09/27/21



SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

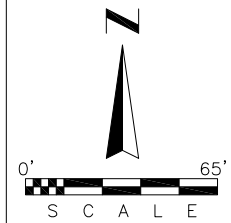
FIGURE B.3.b.1a
GROUNDWATER
ISOCONCENTRATION
(PERC)



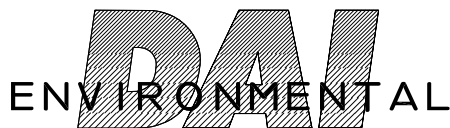
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED PAL EXCEEDANCE FOR TCE

TCE CONC. mg/L	SAMPLE DATE
-------------------	-------------

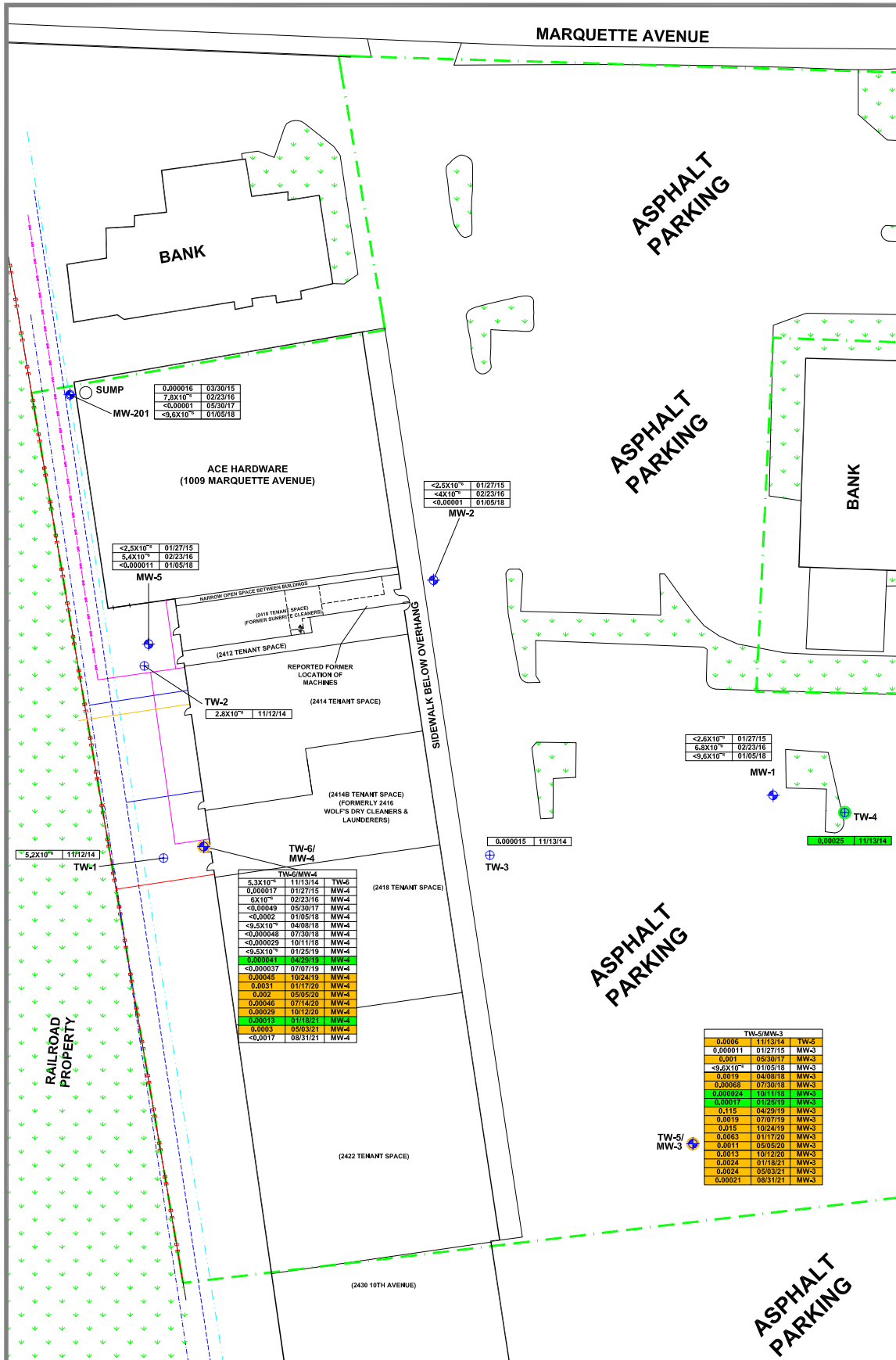


CAD FILE: 6255-177H
REVISED: 09/27/21



SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.1b
GROUNDWATER
ISOCONCENTRATION
(TCE)



LEGEND

APPROXIMATE PROPERTY BOUNDARY

VEGETATION
(2410)
UNIT ADDRESS

FIBER OPTICS UTILITY LINE

GAS UTILITY LINE

SANITARY UTILITY LINE

WATER UTILITY LINE (12")

WATER UTILITY LINE (4")

OVERHEAD ELECTRIC UTILITY LINE

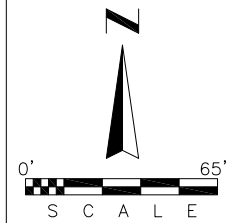
MONITORING WELL LOCATION

SOIL BORING WITH TEMPORARY WELL LOCATION

OBSERVED EXCEEDANCE OF PAL

OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
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CAD FILE: 6255-178H
REVISED: 09/27/21

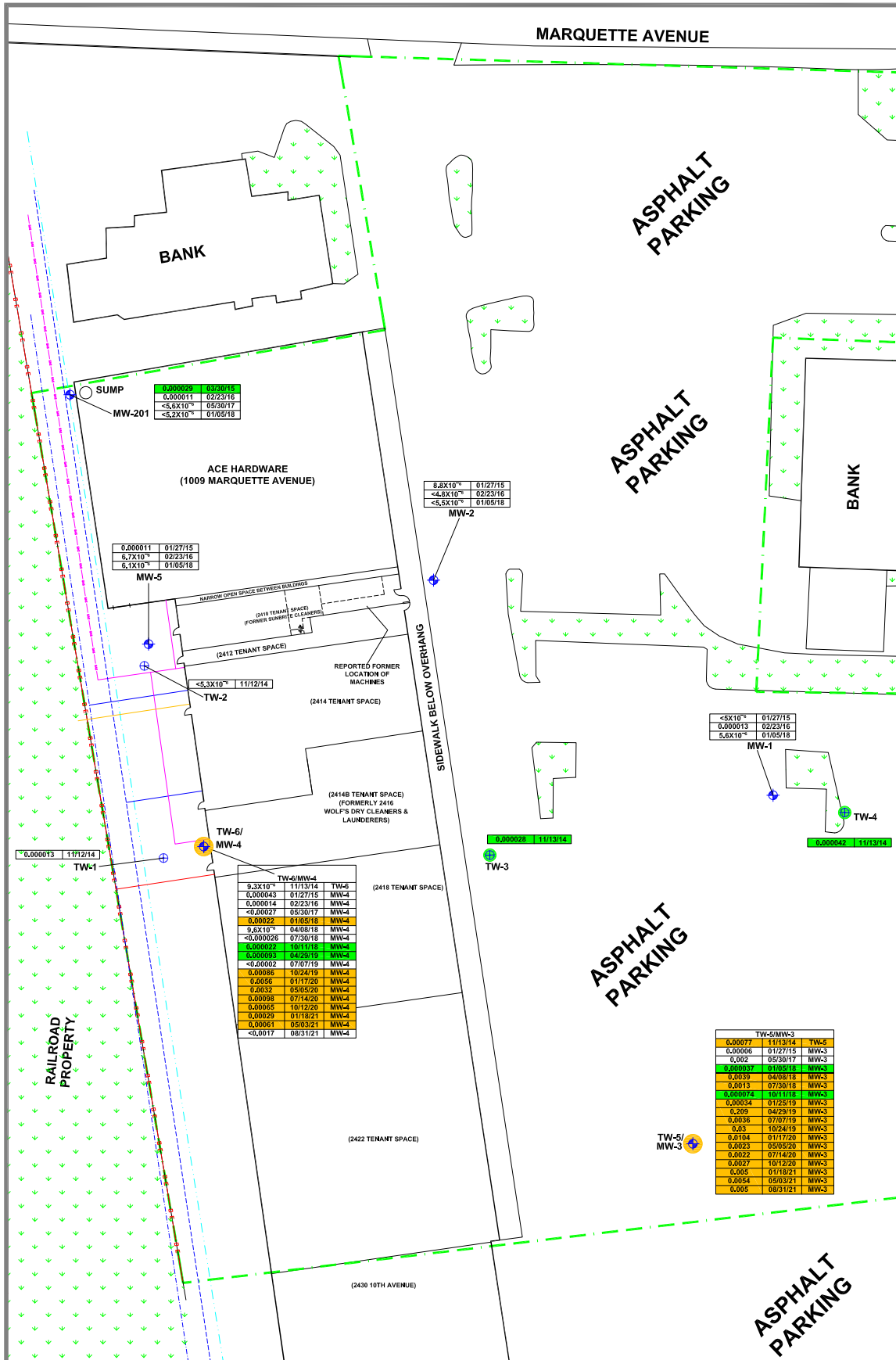
PAH CONC. (mg/L)	SAMPLE DATE	WELL ID
5.3X10 ⁻⁶	11/13/14	TW-6/MW-4
0.000017	01/27/15	MW-4
0.2X10 ⁻⁶	02/23/16	MW-4
<0.00049	05/30/17	MW-4
<0.0002	01/05/18	MW-4
<0.5X10 ⁻⁶	04/08/18	MW-4
<0.00048	07/30/18	MW-4
<0.00029	10/11/18	MW-4
<0.5X10 ⁻⁶	01/29/19	MW-4
0.00044	04/29/19	MW-4
<0.00037	07/07/19	MW-4
0.00048	10/24/19	MW-4
0.0051	01/17/20	MW-4
0.002	05/05/20	MW-4
0.00046	07/14/20	MW-4
0.00029	10/12/20	MW-4
0.00015	01/18/21	MW-4
0.0003	05/03/21	MW-4
<0.0017	08/31/21	MW-4

PAH CONC. (mg/L)	SAMPLE DATE	WELL ID
0.0006	11/13/14	TW-5
0.000011	01/27/15	MW-3
0.001	05/30/17	MW-3
<0.6X10 ⁻⁶	01/05/18	MW-3
0.0019	04/08/18	MW-3
0.00068	07/30/18	MW-3
0.000024	10/11/18	MW-3
0.00017	01/29/19	MW-3
0.115	04/29/19	MW-3
0.0019	07/07/19	MW-3
0.015	10/24/19	MW-3
0.0063	01/17/20	MW-3
0.0011	05/05/20	MW-3
0.0013	10/12/20	MW-3
0.0024	01/18/21	MW-3
0.0024	05/03/21	MW-3
0.0021	08/31/21	MW-3

DAI
ENVIRONMENTAL

SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.2a
GROUNDWATER
ISOCONCENTRATION
(BENZO(A)PYRENE)



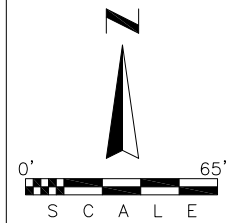
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
----------------	-------------

PAH CONC. mg/L	SAMPLE DATE	WELL
9.3X10 ⁻⁶	11/13/14	TW-6
0.000043	01/27/15	MW-4
0.000014	02/23/16	MW-4
<0.00027	05/30/17	MW-4
0.00022	01/05/18	MW-4
9.6X10 ⁻⁶	04/08/18	MW-4
<0.00026	07/30/18	MW-4
0.00022	10/11/18	MW-4
0.000083	04/29/19	MW-4
<0.00002	07/07/19	MW-4
0.00006	10/24/19	MW-4
0.00056	01/17/20	MW-4
0.00032	05/05/20	MW-4
0.00008	07/14/20	MW-4
0.00065	10/12/20	MW-4
0.00029	01/18/21	MW-4
0.00067	05/03/21	MW-4
<0.0017	08/31/21	MW-4

PAH CONC. mg/L	SAMPLE DATE	WELL
0.00077	11/13/14	TW-5
0.00006	01/27/15	MW-3
0.002	05/30/17	MW-3
0.000037	01/05/18	MW-3
0.00039	04/08/18	MW-3
0.0015	07/30/18	MW-3
0.000074	10/11/18	MW-3
0.00034	01/25/19	MW-3
0.209	04/29/19	MW-3
0.00036	07/07/19	MW-3
0.03	10/24/19	MW-3
0.0104	01/17/20	MW-3
0.0023	05/05/20	MW-3
0.0022	07/14/20	MW-3
0.0027	10/12/20	MW-3
0.005	01/18/21	MW-3
0.0054	05/03/21	MW-3
0.005	08/31/21	MW-3



CAD FILE: 6255-179H
REVISED: 09/27/21

DAI
ENVIRONMENTAL

SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.2b
GROUNDWATER
ISOCONCENTRATION
(BENZO(B)FLUORANTHENE)



LEGEND

APPROXIMATE PROPERTY BOUNDARY

VEGETATION
(2410)
UNIT ADDRESS

FIBER OPTICS UTILITY LINE

GAS UTILITY LINE

SANITARY UTILITY LINE

WATER UTILITY LINE (12")

WATER UTILITY LINE (4")

OVERHEAD ELECTRIC UTILITY LINE

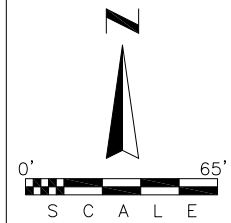
MONITORING WELL LOCATION

SOIL BORING WITH TEMPORARY WELL LOCATION

OBSERVED EXCEEDANCE OF PAL

OBSERVED EXCEEDANCE OF PAL AND ES

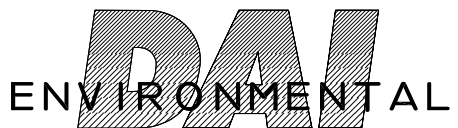
PAH CONC. mg/L	SAMPLE DATE
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CAD FILE: 6255-180H
REVISED: 09/27/21

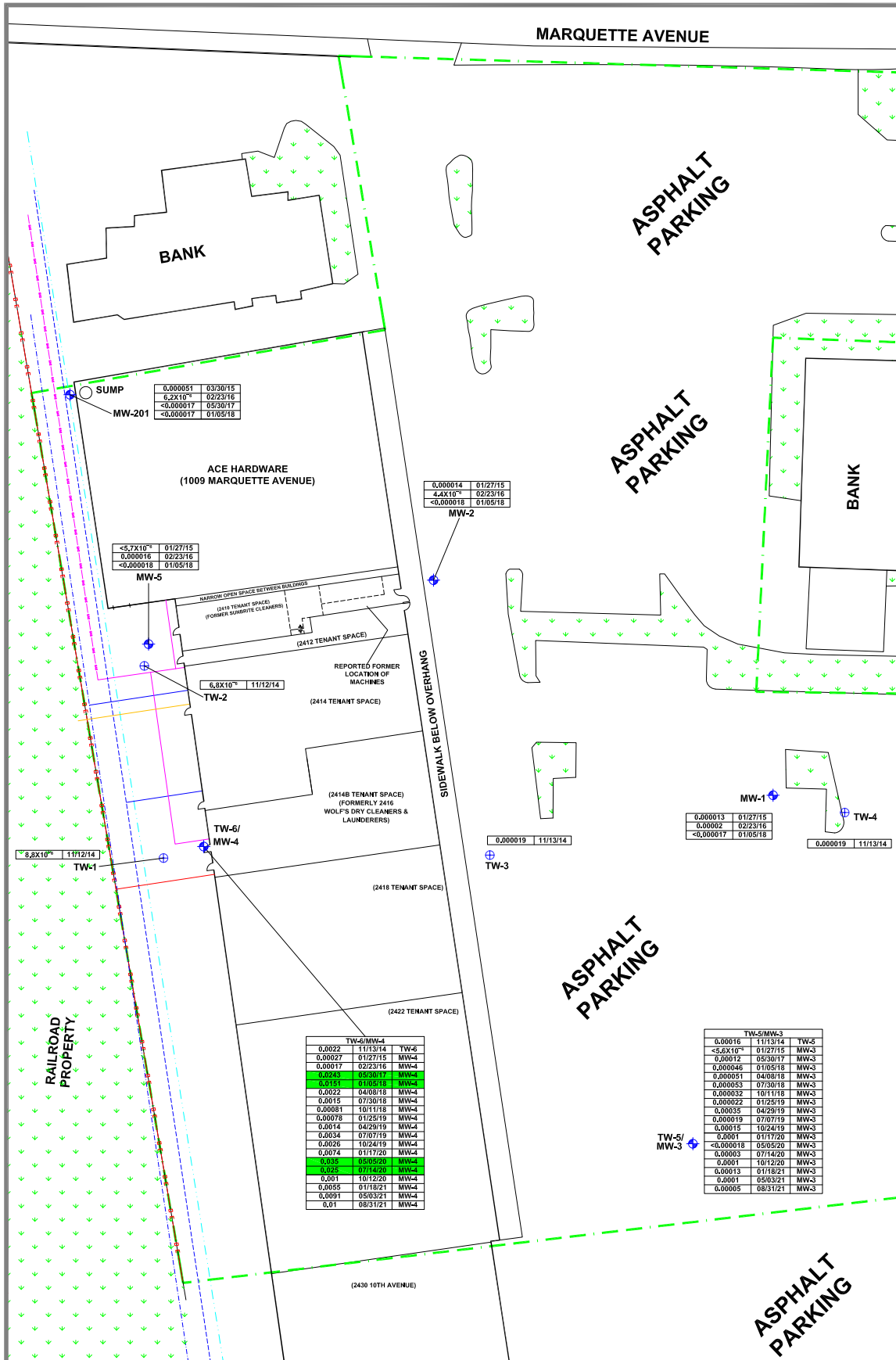
CONC.	DATE	WELL
0.000021	11/13/14	TW-2
0.000047	01/27/15	MW-4
0.000017	02/23/16	MW-4
0.0018	05/30/17	MW-4
0.001	01/05/18	MW-4
0.000031	04/08/18	MW-4
<0.00000	07/30/18	MW-4
0.000064	10/11/18	MW-4
0.000033	01/25/19	MW-4
0.00017	04/26/19	TW-2
<0.000046	07/07/19	MW-4
0.0016	10/24/19	MW-4
0.0074	01/17/20	MW-4
0.005	05/05/20	MW-4
0.0038	07/14/20	MW-4
0.0038	07/14/20	MW-4
0.00082	01/18/21	MW-4
0.0022	05/03/21	MW-4
<0.0024	08/31/21	MW-4

CONC.	DATE	WELL
0.00004	11/13/14	TW-3
0.000028	01/27/15	MW-3
0.0015	05/30/17	MW-3
0.000044	01/05/18	MW-3
0.003	04/08/18	MW-3
0.00095	07/30/18	MW-3
0.000978	10/11/18	MW-3
0.00028	01/25/19	MW-3
0.13	04/29/19	MW-3
0.0026	07/07/19	MW-3
0.016	10/24/19	MW-3
0.0013	01/17/20	MW-3
0.0012	05/05/20	MW-3
0.0014	07/14/20	MW-3
0.0015	10/12/20	MW-3
0.0028	01/18/21	MW-3
0.005	05/03/21	MW-3
0.00036	08/31/21	MW-3



SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.2c
GROUNDWATER
ISOCONCENTRATION
(CHRYSENE)



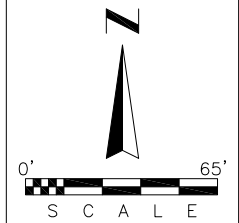
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL

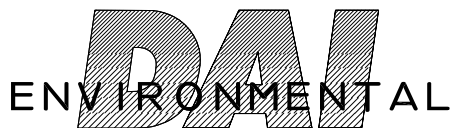
PAH CONC. mg/L	SAMPLE DATE
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TW-5/MW-4		
0.0022	11/13/14	TW-4
0.0022	01/27/15	MW-4
0.00017	02/23/16	MW-4
0.0249	05/30/17	MW-3
0.0151	01/05/18	MW-3
0.0022	04/08/18	MW-4
0.0015	07/30/18	MW-4
0.00081	10/11/18	MW-4
0.00078	01/25/19	MW-4
0.0014	04/29/19	MW-4
0.0034	07/07/19	MW-4
0.0026	10/24/19	MW-4
0.0074	01/17/20	MW-4
0.0039	04/05/20	MW-3
0.025	07/14/20	MW-2
0.001	10/12/20	MW-4
0.0025	01/18/21	MW-4
0.0091	05/03/21	MW-4
0.01	08/31/21	MW-4

TW-5/MW-3		
0.00016	11/13/14	TW-5
<0.0010*	01/27/15	MW-3
0.00012	05/30/17	MW-3
0.000046	01/05/18	MW-3
0.000051	04/08/18	MW-3
0.000053	07/30/18	MW-3
0.000032	10/11/18	MW-3
0.000022	01/25/19	MW-3
0.00035	04/29/19	MW-3
0.00019	07/07/19	MW-3
0.00015	10/24/19	MW-3
0.0001	01/17/20	MW-3
<0.000018	05/05/20	MW-3
0.00003	07/14/20	MW-3
0.0001	10/12/20	MW-3
0.00013	01/18/21	MW-3
0.0001	05/03/21	MW-3
0.00005	08/31/21	MW-3

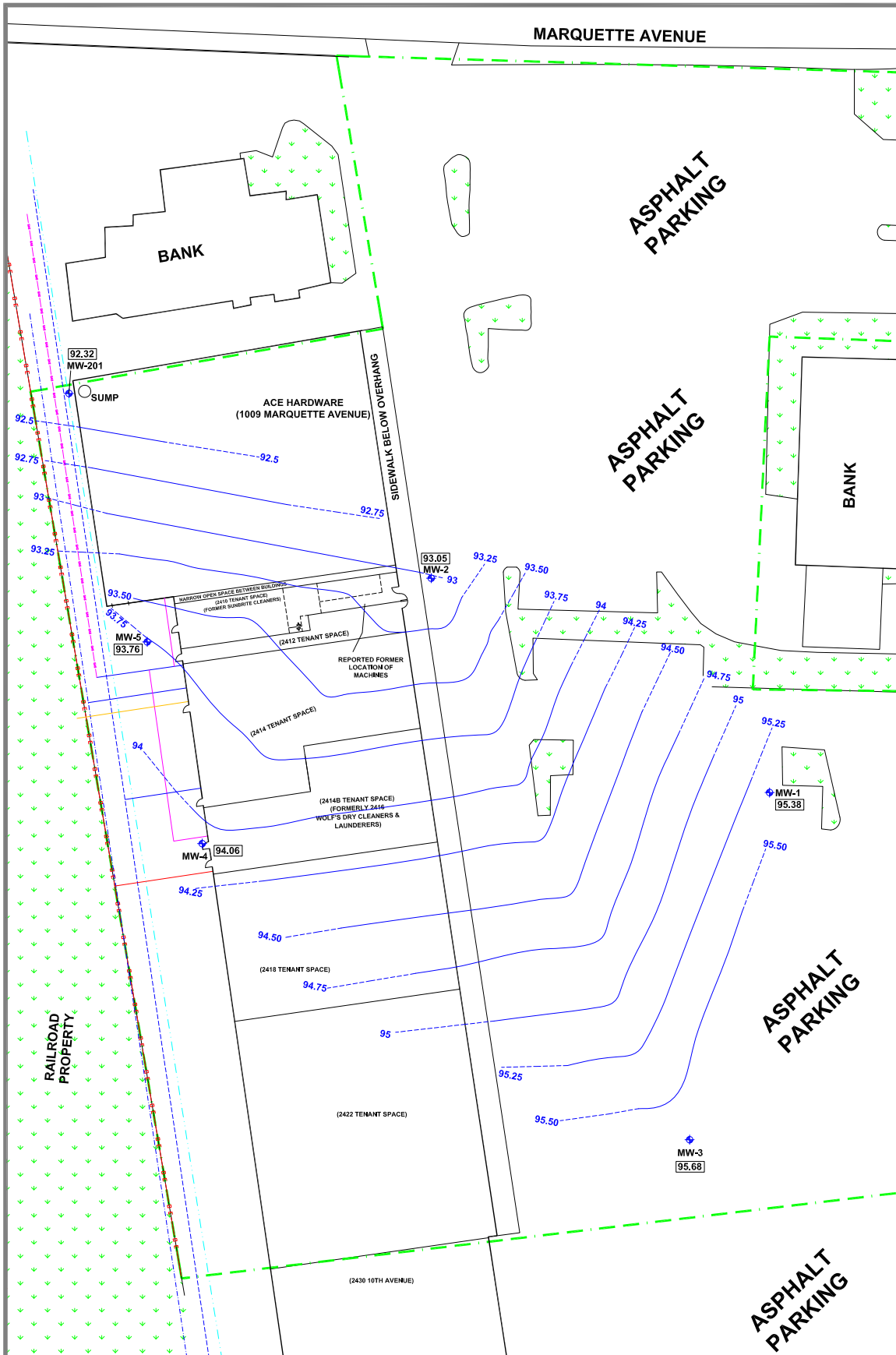


CAD FILE: 6255-181H
REVISED: 09/27/21




SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN


FIGURE B.3.b.2d
GROUNDWATER
ISOCONCENTRATION
(NAPHTHALENE)



LEGEND

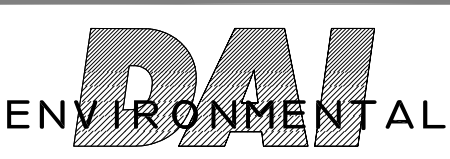
- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- + MONITORING WELL LOCATION
- 96.78 GROUNDWATER ELEVATION
- POTENTIOMETRIC SURFACE
- INFERRED POTENTIOMETRIC SURFACE





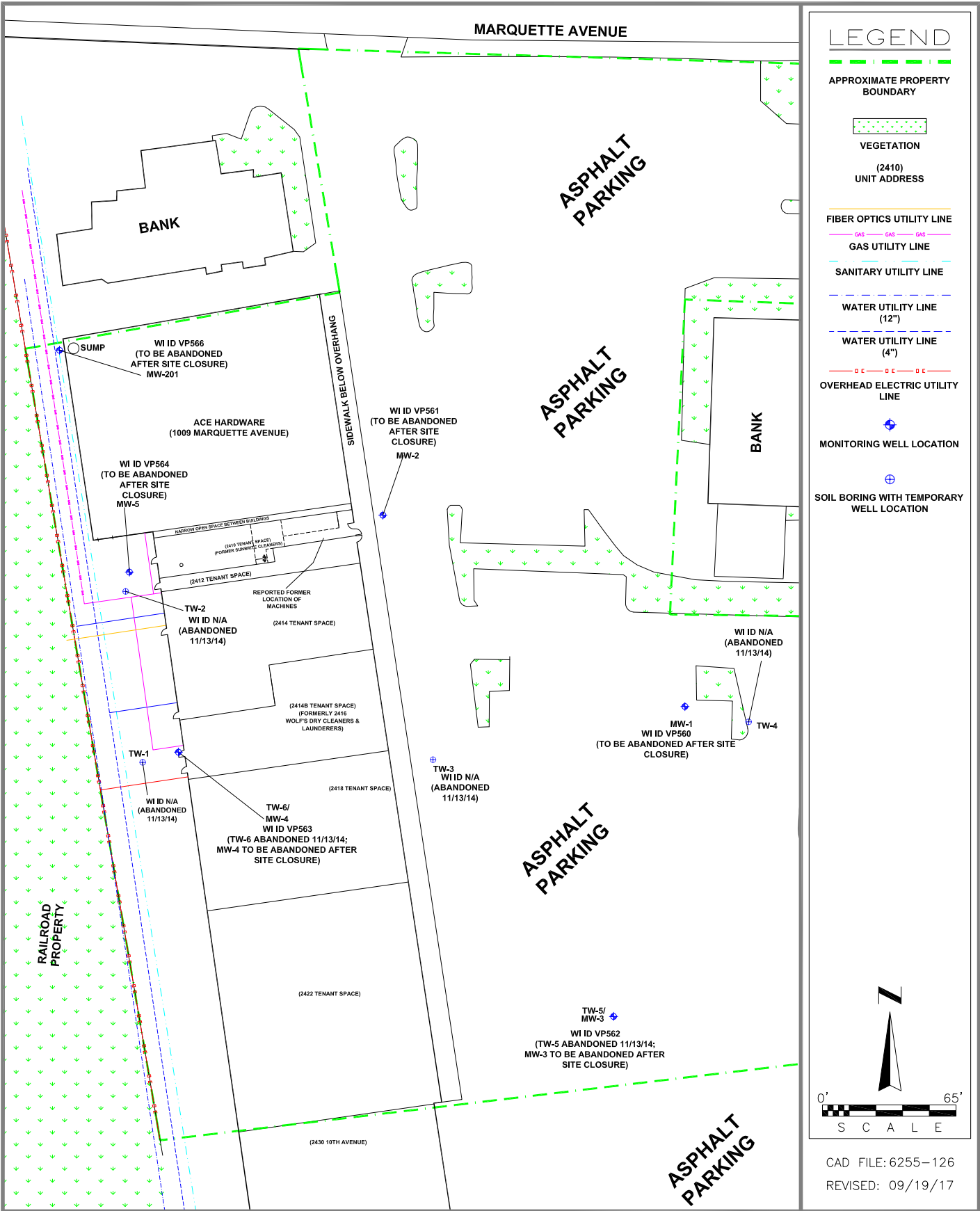
SCALE

CAD FILE: 6255-168K
 REVISED: 09/29/21



SUNRISE SHOPPING CENTER
 2410-2424 10TH AVENUE
 1009 MARQUETTE AVENUE
 SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.c.18
GROUNDWATER FLOW DIRECTION
(AUGUST 31, 2021)

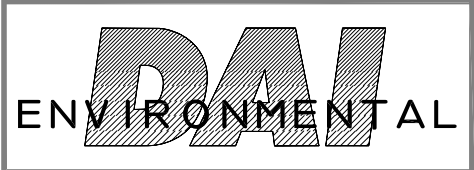


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION

0' 65'
SCALE

CAD FILE: 6255-126
REVISED: 09/19/17



SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.d
MONITORING WELLS

APPENDIX C.1.E
LABORATORY ANALYTICAL REPORTS
(THIRD QUARTER 2021)

September 09, 2021

Chris Cailles
DAI Environmental
Polo Park Business Center
27834 Irma Lee Circle
Lake Forest, IL 60045

RE: Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



Steven Mieczko
steve.mieczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232648001	MW-3	Water	08/31/21 11:00	09/02/21 08:40
40232648002	MW-4	Water	08/31/21 12:15	09/02/21 08:40
40232648003	MW-5	Water	08/31/21 14:00	09/02/21 08:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40232648001	MW-3	EPA 8270E by SIM	RJN	20
40232648002	MW-4	EPA 8270E by SIM	RJN	20
40232648003	MW-5	EPA 8260	LAP	64

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40232648001	MW-3					
EPA 8270E by SIM	Acenaphthene	0.000044J	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Acenaphthylene	0.000021J	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Anthracene	0.00017	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Benzo(a)anthracene	0.00010	mg/L	0.000046	09/08/21 11:18	L1
EPA 8270E by SIM	Benzo(a)pyrene	0.00021	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.00050	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.00033	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.00017	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Chrysene	0.00036	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.000047	mg/L	0.000046	09/08/21 11:18	L1
EPA 8270E by SIM	Fluoranthene	0.00075	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Fluorene	0.000031J	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.00024	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	1-Methylnaphthalene	0.000019J	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	2-Methylnaphthalene	0.000020J	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Naphthalene	0.000050	mg/L	0.000046	09/08/21 11:18	B
EPA 8270E by SIM	Phenanthrene	0.00018	mg/L	0.000046	09/08/21 11:18	
EPA 8270E by SIM	Pyrene	0.00043	mg/L	0.000046	09/08/21 11:18	
40232648002	MW-4					
EPA 8270E by SIM	Acenaphthene	0.017	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	Acenaphthylene	0.0062	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	Anthracene	0.013	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	Benzo(a)anthracene	0.0013J	mg/L	0.0044	09/08/21 11:36	L1
EPA 8270E by SIM	Fluoranthene	0.0047	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	Fluorene	0.031	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	1-Methylnaphthalene	0.046	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	2-Methylnaphthalene	0.0022J	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	Naphthalene	0.010	mg/L	0.0044	09/08/21 11:36	B,D3
EPA 8270E by SIM	Phenanthrene	0.034	mg/L	0.0044	09/08/21 11:36	
EPA 8270E by SIM	Pyrene	0.019	mg/L	0.0044	09/08/21 11:36	
40232648003	MW-5					
EPA 8260	Tetrachloroethene	0.021	mg/L	0.0010	09/07/21 17:31	
EPA 8260	1,1,1-Trichloroethane	0.00060J	mg/L	0.0010	09/07/21 17:31	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Sample: MW-3 **Lab ID: 40232648001** Collected: 08/31/21 11:00 Received: 09/02/21 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	0.00044J	mg/L	0.00046	0.00013	1	09/07/21 09:15	09/08/21 11:18	83-32-9	
Acenaphthylene	0.00021J	mg/L	0.00046	0.00012	1	09/07/21 09:15	09/08/21 11:18	208-96-8	
Anthracene	0.00017	mg/L	0.00046	0.00017	1	09/07/21 09:15	09/08/21 11:18	120-12-7	
Benzo(a)anthracene	0.00010	mg/L	0.00046	0.00012	1	09/07/21 09:15	09/08/21 11:18	56-55-3	L1
Benzo(a)pyrene	0.00021	mg/L	0.00046	0.00018	1	09/07/21 09:15	09/08/21 11:18	50-32-8	
Benzo(b)fluoranthene	0.00050	mg/L	0.00046	0.00018	1	09/07/21 09:15	09/08/21 11:18	205-99-2	
Benzo(g,h,i)perylene	0.00033	mg/L	0.00046	0.00021	1	09/07/21 09:15	09/08/21 11:18	191-24-2	
Benzo(k)fluoranthene	0.00017	mg/L	0.00046	0.00020	1	09/07/21 09:15	09/08/21 11:18	207-08-9	
Chrysene	0.00036	mg/L	0.00046	0.00024	1	09/07/21 09:15	09/08/21 11:18	218-01-9	
Dibenz(a,h)anthracene	0.00047	mg/L	0.00046	0.00016	1	09/07/21 09:15	09/08/21 11:18	53-70-3	L1
Fluoranthene	0.00075	mg/L	0.00046	0.00024	1	09/07/21 09:15	09/08/21 11:18	206-44-0	
Fluorene	0.00031J	mg/L	0.00046	0.00022	1	09/07/21 09:15	09/08/21 11:18	86-73-7	
Indeno(1,2,3-cd)pyrene	0.00024	mg/L	0.00046	0.00014	1	09/07/21 09:15	09/08/21 11:18	193-39-5	
1-Methylnaphthalene	0.00019J	mg/L	0.00046	0.00016	1	09/07/21 09:15	09/08/21 11:18	90-12-0	
2-Methylnaphthalene	0.00020J	mg/L	0.00046	0.00013	1	09/07/21 09:15	09/08/21 11:18	91-57-6	
Naphthalene	0.00050	mg/L	0.00046	0.00018	1	09/07/21 09:15	09/08/21 11:18	91-20-3	B
Phenanthrene	0.00018	mg/L	0.00046	0.00024	1	09/07/21 09:15	09/08/21 11:18	85-01-8	
Pyrene	0.00043	mg/L	0.00046	0.00021	1	09/07/21 09:15	09/08/21 11:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	10-113		1	09/07/21 09:15	09/08/21 11:18	321-60-8	
Terphenyl-d14 (S)	83	%	28-124		1	09/07/21 09:15	09/08/21 11:18	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Sample: MW-4 **Lab ID: 40232648002** Collected: 08/31/21 12:15 Received: 09/02/21 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	0.017	mg/L	0.0044	0.0012	100	09/07/21 09:15	09/08/21 11:36	83-32-9	
Acenaphthylene	0.0062	mg/L	0.0044	0.0011	100	09/07/21 09:15	09/08/21 11:36	208-96-8	
Anthracene	0.013	mg/L	0.0044	0.0016	100	09/07/21 09:15	09/08/21 11:36	120-12-7	
Benzo(a)anthracene	0.0013J	mg/L	0.0044	0.0012	100	09/07/21 09:15	09/08/21 11:36	56-55-3	L1
Benzo(a)pyrene	<0.0017	mg/L	0.0044	0.0017	100	09/07/21 09:15	09/08/21 11:36	50-32-8	
Benzo(b)fluoranthene	<0.0017	mg/L	0.0044	0.0017	100	09/07/21 09:15	09/08/21 11:36	205-99-2	
Benzo(g,h,i)perylene	<0.0021	mg/L	0.0044	0.0021	100	09/07/21 09:15	09/08/21 11:36	191-24-2	
Benzo(k)fluoranthene	<0.0020	mg/L	0.0044	0.0020	100	09/07/21 09:15	09/08/21 11:36	207-08-9	
Chrysene	<0.0024	mg/L	0.0044	0.0024	100	09/07/21 09:15	09/08/21 11:36	218-01-9	
Dibenz(a,h)anthracene	<0.0016	mg/L	0.0044	0.0016	100	09/07/21 09:15	09/08/21 11:36	53-70-3	L1
Fluoranthene	0.0047	mg/L	0.0044	0.0023	100	09/07/21 09:15	09/08/21 11:36	206-44-0	
Fluorene	0.031	mg/L	0.0044	0.0021	100	09/07/21 09:15	09/08/21 11:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0014	mg/L	0.0044	0.0014	100	09/07/21 09:15	09/08/21 11:36	193-39-5	
1-Methylnaphthalene	0.046	mg/L	0.0044	0.0016	100	09/07/21 09:15	09/08/21 11:36	90-12-0	
2-Methylnaphthalene	0.0022J	mg/L	0.0044	0.0012	100	09/07/21 09:15	09/08/21 11:36	91-57-6	
Naphthalene	0.010	mg/L	0.0044	0.0018	100	09/07/21 09:15	09/08/21 11:36	91-20-3	B,D3
Phenanthrene	0.034	mg/L	0.0044	0.0023	100	09/07/21 09:15	09/08/21 11:36	85-01-8	
Pyrene	0.019	mg/L	0.0044	0.0020	100	09/07/21 09:15	09/08/21 11:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	127	%	10-113		100	09/07/21 09:15	09/08/21 11:36	321-60-8	S4
Terphenyl-d14 (S)	90	%	28-124		100	09/07/21 09:15	09/08/21 11:36	1718-51-0	

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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Sample: MW-5 Lab ID: 40232648003 Collected: 08/31/21 14:00 Received: 09/02/21 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.00030	mg/L	0.0010	0.00030	1		09/07/21 17:31	71-43-2	
Bromobenzene	<0.00036	mg/L	0.0010	0.00036	1		09/07/21 17:31	108-86-1	
Bromochloromethane	<0.00036	mg/L	0.0050	0.00036	1		09/07/21 17:31	74-97-5	
Bromodichloromethane	<0.00042	mg/L	0.0010	0.00042	1		09/07/21 17:31	75-27-4	
Bromoform	<0.0038	mg/L	0.0050	0.0038	1		09/07/21 17:31	75-25-2	
Bromomethane	<0.0012	mg/L	0.0050	0.0012	1		09/07/21 17:31	74-83-9	
n-Butylbenzene	<0.00086	mg/L	0.0010	0.00086	1		09/07/21 17:31	104-51-8	
sec-Butylbenzene	<0.00042	mg/L	0.0010	0.00042	1		09/07/21 17:31	135-98-8	
tert-Butylbenzene	<0.00059	mg/L	0.0010	0.00059	1		09/07/21 17:31	98-06-6	
Carbon tetrachloride	<0.00037	mg/L	0.0010	0.00037	1		09/07/21 17:31	56-23-5	
Chlorobenzene	<0.00086	mg/L	0.0010	0.00086	1		09/07/21 17:31	108-90-7	
Chloroethane	<0.0014	mg/L	0.0050	0.0014	1		09/07/21 17:31	75-00-3	
Chloroform	<0.0012	mg/L	0.0050	0.0012	1		09/07/21 17:31	67-66-3	
Chloromethane	<0.0016	mg/L	0.0050	0.0016	1		09/07/21 17:31	74-87-3	
2-Chlorotoluene	<0.00089	mg/L	0.0050	0.00089	1		09/07/21 17:31	95-49-8	
4-Chlorotoluene	<0.00089	mg/L	0.0050	0.00089	1		09/07/21 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0024	mg/L	0.0050	0.0024	1		09/07/21 17:31	96-12-8	
Dibromochloromethane	<0.0026	mg/L	0.0050	0.0026	1		09/07/21 17:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.00031	mg/L	0.0010	0.00031	1		09/07/21 17:31	106-93-4	
Dibromomethane	<0.00099	mg/L	0.0050	0.00099	1		09/07/21 17:31	74-95-3	
1,2-Dichlorobenzene	<0.00033	mg/L	0.0010	0.00033	1		09/07/21 17:31	95-50-1	
1,3-Dichlorobenzene	<0.00035	mg/L	0.0010	0.00035	1		09/07/21 17:31	541-73-1	
1,4-Dichlorobenzene	<0.00089	mg/L	0.0010	0.00089	1		09/07/21 17:31	106-46-7	
Dichlorodifluoromethane	<0.00046	mg/L	0.0050	0.00046	1		09/07/21 17:31	75-71-8	
1,1-Dichloroethane	<0.00030	mg/L	0.0010	0.00030	1		09/07/21 17:31	75-34-3	
1,2-Dichloroethane	<0.00029	mg/L	0.0010	0.00029	1		09/07/21 17:31	107-06-2	
1,1-Dichloroethene	<0.00058	mg/L	0.0010	0.00058	1		09/07/21 17:31	75-35-4	
cis-1,2-Dichloroethene	<0.00047	mg/L	0.0010	0.00047	1		09/07/21 17:31	156-59-2	
trans-1,2-Dichloroethene	<0.00053	mg/L	0.0010	0.00053	1		09/07/21 17:31	156-60-5	
1,2-Dichloropropane	<0.00045	mg/L	0.0010	0.00045	1		09/07/21 17:31	78-87-5	
1,3-Dichloropropane	<0.00030	mg/L	0.0010	0.00030	1		09/07/21 17:31	142-28-9	
2,2-Dichloropropane	<0.0042	mg/L	0.0050	0.0042	1		09/07/21 17:31	594-20-7	
1,1-Dichloropropene	<0.00041	mg/L	0.0010	0.00041	1		09/07/21 17:31	563-58-6	
cis-1,3-Dichloropropene	<0.00036	mg/L	0.0010	0.00036	1		09/07/21 17:31	10061-01-5	
trans-1,3-Dichloropropene	<0.0035	mg/L	0.0050	0.0035	1		09/07/21 17:31	10061-02-6	
Diisopropyl ether	<0.0011	mg/L	0.0050	0.0011	1		09/07/21 17:31	108-20-3	
Ethylbenzene	<0.00033	mg/L	0.0010	0.00033	1		09/07/21 17:31	100-41-4	
Hexachloro-1,3-butadiene	<0.0027	mg/L	0.0050	0.0027	1		09/07/21 17:31	87-68-3	
Isopropylbenzene (Cumene)	<0.0010	mg/L	0.0050	0.0010	1		09/07/21 17:31	98-82-8	
p-Isopropyltoluene	<0.0010	mg/L	0.0050	0.0010	1		09/07/21 17:31	99-87-6	
Methylene Chloride	<0.00032	mg/L	0.0050	0.00032	1		09/07/21 17:31	75-09-2	
Methyl-tert-butyl ether	<0.0011	mg/L	0.0050	0.0011	1		09/07/21 17:31	1634-04-4	
Naphthalene	<0.0011	mg/L	0.0050	0.0011	1		09/07/21 17:31	91-20-3	
n-Propylbenzene	<0.00035	mg/L	0.0010	0.00035	1		09/07/21 17:31	103-65-1	
Styrene	<0.00036	mg/L	0.0010	0.00036	1		09/07/21 17:31	100-42-5	

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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

Sample: MW-5 **Lab ID: 40232648003** Collected: 08/31/21 14:00 Received: 09/02/21 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.00036	mg/L	0.0010	0.00036	1		09/07/21 17:31	630-20-6	
1,1,1,2-Tetrachloroethane	<0.00038	mg/L	0.0010	0.00038	1		09/07/21 17:31	79-34-5	
Tetrachloroethene	0.021	mg/L	0.0010	0.00041	1		09/07/21 17:31	127-18-4	
Toluene	<0.00029	mg/L	0.0010	0.00029	1		09/07/21 17:31	108-88-3	
1,2,3-Trichlorobenzene	<0.0010	mg/L	0.0050	0.0010	1		09/07/21 17:31	87-61-6	
1,2,4-Trichlorobenzene	<0.00095	mg/L	0.0050	0.00095	1		09/07/21 17:31	120-82-1	
1,1,1-Trichloroethane	0.00060J	mg/L	0.0010	0.00030	1		09/07/21 17:31	71-55-6	
1,1,2-Trichloroethane	<0.00034	mg/L	0.0050	0.00034	1		09/07/21 17:31	79-00-5	
Trichloroethene	<0.00032	mg/L	0.0010	0.00032	1		09/07/21 17:31	79-01-6	
Trichlorofluoromethane	<0.00042	mg/L	0.0010	0.00042	1		09/07/21 17:31	75-69-4	
1,2,3-Trichloropropane	<0.00056	mg/L	0.0050	0.00056	1		09/07/21 17:31	96-18-4	
1,2,4-Trimethylbenzene	<0.00045	mg/L	0.0010	0.00045	1		09/07/21 17:31	95-63-6	
1,3,5-Trimethylbenzene	<0.00036	mg/L	0.0010	0.00036	1		09/07/21 17:31	108-67-8	
Vinyl chloride	<0.00017	mg/L	0.0010	0.00017	1		09/07/21 17:31	75-01-4	
m&p-Xylene	<0.00070	mg/L	0.0020	0.00070	1		09/07/21 17:31	179601-23-1	
o-Xylene	<0.00035	mg/L	0.0010	0.00035	1		09/07/21 17:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		09/07/21 17:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		09/07/21 17:31	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		09/07/21 17:31	2037-26-5	

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QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

QC Batch: 394937 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232648003

METHOD BLANK: 2278987 Matrix: Water
Associated Lab Samples: 40232648003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	<0.00036	0.0010	09/07/21 10:02	
1,1,1-Trichloroethane	mg/L	<0.00030	0.0010	09/07/21 10:02	
1,1,2,2-Tetrachloroethane	mg/L	<0.00038	0.0010	09/07/21 10:02	
1,1,2-Trichloroethane	mg/L	<0.00034	0.0050	09/07/21 10:02	
1,1-Dichloroethane	mg/L	<0.00030	0.0010	09/07/21 10:02	
1,1-Dichloroethene	mg/L	<0.00058	0.0010	09/07/21 10:02	
1,1-Dichloropropene	mg/L	<0.00041	0.0010	09/07/21 10:02	
1,2,3-Trichlorobenzene	mg/L	<0.0010	0.0050	09/07/21 10:02	
1,2,3-Trichloropropane	mg/L	<0.00056	0.0050	09/07/21 10:02	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.0050	09/07/21 10:02	
1,2,4-Trimethylbenzene	mg/L	<0.00045	0.0010	09/07/21 10:02	
1,2-Dibromo-3-chloropropane	mg/L	<0.0024	0.0050	09/07/21 10:02	
1,2-Dibromoethane (EDB)	mg/L	<0.00031	0.0010	09/07/21 10:02	
1,2-Dichlorobenzene	mg/L	<0.00033	0.0010	09/07/21 10:02	
1,2-Dichloroethane	mg/L	<0.00029	0.0010	09/07/21 10:02	
1,2-Dichloropropane	mg/L	<0.00045	0.0010	09/07/21 10:02	
1,3,5-Trimethylbenzene	mg/L	<0.00036	0.0010	09/07/21 10:02	
1,3-Dichlorobenzene	mg/L	<0.00035	0.0010	09/07/21 10:02	
1,3-Dichloropropane	mg/L	<0.00030	0.0010	09/07/21 10:02	
1,4-Dichlorobenzene	mg/L	<0.00089	0.0010	09/07/21 10:02	
2,2-Dichloropropane	mg/L	<0.0042	0.0050	09/07/21 10:02	
2-Chlorotoluene	mg/L	<0.00089	0.0050	09/07/21 10:02	
4-Chlorotoluene	mg/L	<0.00089	0.0050	09/07/21 10:02	
Benzene	mg/L	<0.00030	0.0010	09/07/21 10:02	
Bromobenzene	mg/L	<0.00036	0.0010	09/07/21 10:02	
Bromochloromethane	mg/L	<0.00036	0.0050	09/07/21 10:02	
Bromodichloromethane	mg/L	<0.00042	0.0010	09/07/21 10:02	
Bromoform	mg/L	<0.0038	0.0050	09/07/21 10:02	
Bromomethane	mg/L	<0.0012	0.0050	09/07/21 10:02	
Carbon tetrachloride	mg/L	<0.00037	0.0010	09/07/21 10:02	
Chlorobenzene	mg/L	<0.00086	0.0010	09/07/21 10:02	
Chloroethane	mg/L	<0.0014	0.0050	09/07/21 10:02	
Chloroform	mg/L	<0.0012	0.0050	09/07/21 10:02	
Chloromethane	mg/L	<0.0016	0.0050	09/07/21 10:02	
cis-1,2-Dichloroethene	mg/L	<0.00047	0.0010	09/07/21 10:02	
cis-1,3-Dichloropropene	mg/L	<0.00036	0.0010	09/07/21 10:02	
Dibromochloromethane	mg/L	<0.0026	0.0050	09/07/21 10:02	
Dibromomethane	mg/L	<0.00099	0.0050	09/07/21 10:02	
Dichlorodifluoromethane	mg/L	<0.00046	0.0050	09/07/21 10:02	
Diisopropyl ether	mg/L	<0.0011	0.0050	09/07/21 10:02	

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

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QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

METHOD BLANK: 2278987 Matrix: Water
Associated Lab Samples: 40232648003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/L	<0.00033	0.0010	09/07/21 10:02	
Hexachloro-1,3-butadiene	mg/L	<0.0027	0.0050	09/07/21 10:02	
Isopropylbenzene (Cumene)	mg/L	<0.0010	0.0050	09/07/21 10:02	
m&p-Xylene	mg/L	<0.00070	0.0020	09/07/21 10:02	
Methyl-tert-butyl ether	mg/L	<0.0011	0.0050	09/07/21 10:02	
Methylene Chloride	mg/L	<0.00032	0.0050	09/07/21 10:02	
n-Butylbenzene	mg/L	<0.00086	0.0010	09/07/21 10:02	
n-Propylbenzene	mg/L	<0.00035	0.0010	09/07/21 10:02	
Naphthalene	mg/L	<0.0011	0.0050	09/07/21 10:02	
o-Xylene	mg/L	<0.00035	0.0010	09/07/21 10:02	
p-Isopropyltoluene	mg/L	<0.0010	0.0050	09/07/21 10:02	
sec-Butylbenzene	mg/L	<0.00042	0.0010	09/07/21 10:02	
Styrene	mg/L	<0.00036	0.0010	09/07/21 10:02	
tert-Butylbenzene	mg/L	<0.00059	0.0010	09/07/21 10:02	
Tetrachloroethene	mg/L	<0.00041	0.0010	09/07/21 10:02	
Toluene	mg/L	<0.00029	0.0010	09/07/21 10:02	
trans-1,2-Dichloroethene	mg/L	<0.00053	0.0010	09/07/21 10:02	
trans-1,3-Dichloropropene	mg/L	<0.0035	0.0050	09/07/21 10:02	
Trichloroethene	mg/L	<0.00032	0.0010	09/07/21 10:02	
Trichlorofluoromethane	mg/L	<0.00042	0.0010	09/07/21 10:02	
Vinyl chloride	mg/L	<0.00017	0.0010	09/07/21 10:02	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	09/07/21 10:02	
4-Bromofluorobenzene (S)	%	90	70-130	09/07/21 10:02	
Toluene-d8 (S)	%	97	70-130	09/07/21 10:02	

LABORATORY CONTROL SAMPLE: 2278988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.05	0.049	98	70-130	
1,1,2,2-Tetrachloroethane	mg/L	0.05	0.042	84	66-130	
1,1,2-Trichloroethane	mg/L	0.05	0.043	86	70-130	
1,1-Dichloroethane	mg/L	0.05	0.054	108	68-132	
1,1-Dichloroethene	mg/L	0.05	0.053	106	85-126	
1,2,4-Trichlorobenzene	mg/L	0.05	0.043	86	70-130	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.040	80	51-126	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.045	90	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.048	95	70-130	
1,2-Dichloroethane	mg/L	0.05	0.047	94	70-130	
1,2-Dichloropropane	mg/L	0.05	0.045	91	78-125	
1,3-Dichlorobenzene	mg/L	0.05	0.047	94	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.048	96	70-130	
Benzene	mg/L	0.05	0.044	88	70-132	
Bromodichloromethane	mg/L	0.05	0.046	91	70-130	
Bromoform	mg/L	0.05	0.047	93	65-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

LABORATORY CONTROL SAMPLE: 2278988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/L	0.05	0.035	69	44-128	
Carbon tetrachloride	mg/L	0.05	0.055	109	70-130	
Chlorobenzene	mg/L	0.05	0.047	94	70-130	
Chloroethane	mg/L	0.05	0.050	99	73-137	
Chloroform	mg/L	0.05	0.047	94	80-122	
Chloromethane	mg/L	0.05	0.063	126	27-148	
cis-1,2-Dichloroethene	mg/L	0.05	0.047	94	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.042	83	70-130	
Dibromochloromethane	mg/L	0.05	0.051	102	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.041	82	22-151	
Ethylbenzene	mg/L	0.05	0.044	87	80-123	
Isopropylbenzene (Cumene)	mg/L	0.05	0.048	97	70-130	
m&p-Xylene	mg/L	0.1	0.096	96	70-130	
Methyl-tert-butyl ether	mg/L	0.05	0.044	87	66-130	
Methylene Chloride	mg/L	0.05	0.045	91	70-130	
o-Xylene	mg/L	0.05	0.047	93	70-130	
Styrene	mg/L	0.05	0.048	96	70-130	
Tetrachloroethene	mg/L	0.05	0.050	100	70-130	
Toluene	mg/L	0.05	0.044	88	80-121	
trans-1,2-Dichloroethene	mg/L	0.05	0.051	101	70-130	
trans-1,3-Dichloropropene	mg/L	0.05	0.041	81	58-125	
Trichloroethene	mg/L	0.05	0.046	91	70-130	
Trichlorofluoromethane	mg/L	0.05	0.052	103	84-148	
Vinyl chloride	mg/L	0.05	0.054	108	63-142	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			89	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279039 2279040

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40232725016 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	mg/L	<0.30 ug/L	0.05	0.05	0.048	0.051	95	101	70-130	6	20	
1,1,2,2-Tetrachloroethane	mg/L	<0.38 ug/L	0.05	0.05	0.043	0.043	87	87	66-130	0	20	
1,1,2-Trichloroethane	mg/L	<0.34 ug/L	0.05	0.05	0.043	0.044	86	88	70-130	2	20	
1,1-Dichloroethane	mg/L	<0.30 ug/L	0.05	0.05	0.053	0.055	106	109	68-132	3	20	
1,1-Dichloroethene	mg/L	<0.58 ug/L	0.05	0.05	0.052	0.055	104	110	76-132	6	20	
1,2,4-Trichlorobenzene	mg/L	<0.95 ug/L	0.05	0.05	0.044	0.044	88	88	70-130	0	20	
1,2-Dibromo-3-chloropropane	mg/L	<2.4 ug/L	0.05	0.05	0.042	0.041	85	83	51-126	2	20	
1,2-Dibromoethane (EDB)	mg/L	<0.31 ug/L	0.05	0.05	0.046	0.048	93	97	70-130	4	20	
1,2-Dichlorobenzene	mg/L	<0.33 ug/L	0.05	0.05	0.048	0.049	96	97	70-130	2	20	
1,2-Dichloroethane	mg/L	<0.29 ug/L	0.05	0.05	0.047	0.049	94	99	70-130	5	20	
1,2-Dichloropropane	mg/L	<0.45 ug/L	0.05	0.05	0.046	0.047	93	94	77-125	2	20	
1,3-Dichlorobenzene	mg/L	<0.35 ug/L	0.05	0.05	0.047	0.048	94	96	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279039		2279040		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40232725016 Result	MS Spike Conc.	MSD Spike Conc.									
1,4-Dichlorobenzene	mg/L	<0.89 ug/L	0.05	0.05	0.048	0.048	96	97	70-130	1	20		
Benzene	mg/L	<0.30 ug/L	0.05	0.05	0.044	0.046	88	91	70-132	3	20		
Bromodichloromethane	mg/L	<0.42 ug/L	0.05	0.05	0.044	0.046	88	92	70-130	5	20		
Bromoform	mg/L	<3.8 ug/L	0.05	0.05	0.047	0.048	94	97	65-130	2	20		
Bromomethane	mg/L	<1.2 ug/L	0.05	0.05	0.037	0.041	74	82	44-128	10	21		
Carbon tetrachloride	mg/L	<0.37 ug/L	0.05	0.05	0.054	0.056	107	112	70-132	4	20		
Chlorobenzene	mg/L	<0.86 ug/L	0.05	0.05	0.047	0.049	94	98	70-130	4	20		
Chloroethane	mg/L	<1.4 ug/L	0.05	0.05	0.049	0.051	98	102	70-137	5	20		
Chloroform	mg/L	<1.2 ug/L	0.05	0.05	0.046	0.047	91	95	80-122	4	20		
Chloromethane	mg/L	<1.6 ug/L	0.05	0.05	0.062	0.063	124	127	17-149	2	20		
cis-1,2-Dichloroethene	mg/L	<0.47 ug/L	0.05	0.05	0.046	0.048	93	97	70-130	4	20		
cis-1,3-Dichloropropene	mg/L	<0.36 ug/L	0.05	0.05	0.041	0.043	82	86	70-130	5	20		
Dibromochloromethane	mg/L	<2.6 ug/L	0.05	0.05	0.050	0.051	100	102	70-130	2	20		
Dichlorodifluoromethane	mg/L	<0.46 ug/L	0.05	0.05	0.040	0.041	80	83	22-158	4	20		
Ethylbenzene	mg/L	<0.33 ug/L	0.05	0.05	0.044	0.045	88	90	80-123	2	20		
Isopropylbenzene (Cumene)	mg/L	<1.0 ug/L	0.05	0.05	0.047	0.050	95	99	70-130	5	20		
m&p-Xylene	mg/L	<0.70 ug/L	0.1	0.1	0.096	0.099	96	99	70-130	3	20		
Methyl-tert-butyl ether	mg/L	<1.1 ug/L	0.05	0.05	0.044	0.045	88	90	66-130	2	20		
Methylene Chloride	mg/L	<0.32 ug/L	0.05	0.05	0.044	0.047	88	95	70-130	7	20		
o-Xylene	mg/L	<0.35 ug/L	0.05	0.05	0.047	0.049	94	99	70-130	5	20		
Styrene	mg/L	<0.36 ug/L	0.05	0.05	0.048	0.050	95	100	70-130	5	20		
Tetrachloroethene	mg/L	21.9 ug/L	0.05	0.05	0.070	0.073	97	103	70-130	4	20		
Toluene	mg/L	<0.29 ug/L	0.05	0.05	0.044	0.046	88	92	80-121	4	20		
trans-1,2-Dichloroethene	mg/L	<0.53 ug/L	0.05	0.05	0.050	0.052	99	105	70-134	6	20		
trans-1,3-Dichloropropene	mg/L	<3.5 ug/L	0.05	0.05	0.041	0.042	82	84	58-130	2	20		
Trichloroethene	mg/L	<0.32 ug/L	0.05	0.05	0.046	0.048	91	96	70-130	5	20		
Trichlorofluoromethane	mg/L	<0.42 ug/L	0.05	0.05	0.051	0.054	102	107	82-151	5	20		
Vinyl chloride	mg/L	<0.17 ug/L	0.05	0.05	0.054	0.058	107	115	61-143	7	20		
1,2-Dichlorobenzene-d4 (S)	%						102	99	70-130				
4-Bromofluorobenzene (S)	%						89	89	70-130				
Toluene-d8 (S)	%						96	97	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40232648

QC Batch: 394965 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40232648001, 40232648002

METHOD BLANK: 2279078 Matrix: Water

Associated Lab Samples: 40232648001, 40232648002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/L	<0.000018	0.000050	09/08/21 07:55	
2-Methylnaphthalene	mg/L	<0.000014	0.000050	09/08/21 07:55	
Acenaphthene	mg/L	<0.000014	0.000050	09/08/21 07:55	
Acenaphthylene	mg/L	<0.000013	0.000050	09/08/21 07:55	
Anthracene	mg/L	<0.000018	0.000050	09/08/21 07:55	
Benzo(a)anthracene	mg/L	<0.000014	0.000050	09/08/21 07:55	
Benzo(a)pyrene	mg/L	<0.000020	0.000050	09/08/21 07:55	
Benzo(b)fluoranthene	mg/L	<0.000020	0.000050	09/08/21 07:55	
Benzo(g,h,i)perylene	mg/L	<0.000023	0.000050	09/08/21 07:55	
Benzo(k)fluoranthene	mg/L	<0.000022	0.000050	09/08/21 07:55	
Chrysene	mg/L	<0.000027	0.000050	09/08/21 07:55	
Dibenz(a,h)anthracene	mg/L	<0.000018	0.000050	09/08/21 07:55	
Fluoranthene	mg/L	<0.000026	0.000050	09/08/21 07:55	
Fluorene	mg/L	<0.000024	0.000050	09/08/21 07:55	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000016	0.000050	09/08/21 07:55	
Naphthalene	mg/L	<0.000020	0.000050	09/08/21 07:55	
Phenanthrene	mg/L	<0.000026	0.000050	09/08/21 07:55	
Pyrene	mg/L	<0.000023	0.000050	09/08/21 07:55	
2-Fluorobiphenyl (S)	%	85	10-113	09/08/21 07:55	
Terphenyl-d14 (S)	%	87	28-124	09/08/21 07:55	

LABORATORY CONTROL SAMPLE & LCSD: 2279079 2279080

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	mg/L	0.002	0.0016	0.0018	82	89	71-120	8	20	
2-Methylnaphthalene	mg/L	0.002	0.0016	0.0017	80	87	68-120	8	20	
Acenaphthene	mg/L	0.002	0.0017	0.0019	85	93	71-120	10	20	
Acenaphthylene	mg/L	0.002	0.0017	0.0019	87	95	68-120	9	20	
Anthracene	mg/L	0.002	0.0017	0.0019	87	95	51-99	10	20	
Benzo(a)anthracene	mg/L	0.002	0.0018	0.0019	88	96	52-92	9	20	L1
Benzo(a)pyrene	mg/L	0.002	0.0017	0.0019	85	94	61-105	11	20	
Benzo(b)fluoranthene	mg/L	0.002	0.0017	0.0019	87	95	57-102	8	20	
Benzo(g,h,i)perylene	mg/L	0.002	0.0018	0.0021	92	103	62-120	11	20	
Benzo(k)fluoranthene	mg/L	0.002	0.0018	0.0020	91	101	70-122	11	20	
Chrysene	mg/L	0.002	0.0018	0.0020	90	99	71-122	9	20	
Dibenz(a,h)anthracene	mg/L	0.002	0.0019	0.0021	95	106	41-101	11	20	L1
Fluoranthene	mg/L	0.002	0.0019	0.0021	94	105	67-116	11	20	
Fluorene	mg/L	0.002	0.0018	0.0019	88	97	71-120	10	20	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0018	0.0021	92	103	59-120	12	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Parameter	Units	2279079		2279080		% Rec	LCS	LCS	% Rec	Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec								
Naphthalene	mg/L	0.002	0.0016	0.0018	82	90	71-120	10	20				
Phenanthrene	mg/L	0.002	0.0017	0.0019	87	96	60-102	10	20				
Pyrene	mg/L	0.002	0.0017	0.0018	84	92	72-120	9	20				
2-Fluorobiphenyl (S)	%				75	81	10-113						
Terphenyl-d14 (S)	%				76	84	28-124						

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 395039

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] Two compounds failed high in the LCSD, there was either no hold time available for re-extraction, or there were no detects of offending compounds

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SOUTH MILWAUKEE ACE

Pace Project No.: 40232648

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232648001	MW-3	EPA 3510	394965	EPA 8270E by SIM	395039
40232648002	MW-4	EPA 3510	394965	EPA 8270E by SIM	395039
40232648003	MW-5	EPA 8260	394937		

REPORT OF LABORATORY ANALYSIS

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40232648



CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name: DAI Environmental
 Branch/Location: Lake Forest
 Project Contact: Chris Cailles
 Phone: 847-573-8900
 Project Number: 6255
 Project Name: South Milwaukee Ace
 Project State: Wisconsin
 Sampled By (Print): Marcus Gregorner
 Sampled By (Sign): *Marcus Gregorner*
 PO #:
 Regulatory Program:

Filtered? (YES/NO)	Y/N	Pick Letter	Analyses Requested
			NOGS
			X DNA
			X

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-3	8/3/21	11:00	GW
002	MW-4	"	12:15	GW
003	MW-5	"	2:00	GW

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>Marcus Gregorner</i>	Date/Time: 9-1-21 12:28	Received By: <i>[Signature]</i>	Date/Time: 9/1/21 12:28
Relinquished By: <i>[Signature]</i>	Date/Time: 9/1/21 1700	Received By: <i>GS Cooper</i>	Date/Time: 9/1/21
Relinquished By: <i>C. S. Logotetic</i>	Date/Time: 9/1/21 0840	Received By: <i>Susan Kelly</i>	Date/Time: 9/1/21 0840
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40232648
 Receipt Temp = 1 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact 18 of 20

Sample Preservation Receipt Form

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

Client Name: DAI

Project # 40232648

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed: _____ Date/Time: _____

Lab Lot# of pH paper: _____

Lab Std #ID of preservation (if pH adjusted): _____

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC								GN	
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
 Author:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: _____

DAI

Project #: _____

WO#: 40232648

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 105 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.5 / Corr: 1

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 9-2-21 / Initials: SRK
 Labeled By Initials: SRK

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <i>Filter, preserve, pg #, Mail to JNU Foto 9/2/21</i>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Dates "8/30/21" 9/2/21 SRK
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir