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QUARTERLY GROUNDWATER SAMPLING REPORT
(AUGUST 2022 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

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DAI Project Number: 6255

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TABLE OF CONTENTS

LIST OF TABLES (APPENDIX A)

LIST OF FIGURES (APPENDIX B)

LIST OF APPENDICES

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 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

Based upon the results of the January 2018 sampling event, quarterly groundwater sampling is conducted at monitoring wells MW-3 to MW-5. Since no contamination was observed in monitoring wells MW-1, MW-2, or MW-201, no groundwater samples are collected from these wells as part of the quarterly sampling protocol. However, four (4) additional groundwater monitoring wells (MW-600 to MW-603) were recently installed in January 2022 (see Figure B.3.d). Groundwater samples are not collected from these wells as part of the quarterly sampling event, although the new wells are gauged for static water elevation.

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^{o}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 2022 groundwater sampling event, including the four (4) recently installed monitoring wells. The static water level elevations were collected from all monitoring wells on August 2, 2022, and referenced to the top of casing elevations based upon the complete resurvey performed on February 1, 2022. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that there is relatively high variability in elevation between quarters. The highest quarterly variability is observed in monitoring wells MW-1 and MW-3, which are located in areas of the Site with known subsurface disturbance, while monitoring wells MW-5 and MW-201 generally fluctuate less between quarters. The recently installed monitoring wells also appear to indicate a lower variability, though less data are currently available.

Prior to installation of the 600-series monitoring wells, the consistently observed groundwater flow direction was northwesterly along the southern half of the Site and north-northeasterly along the northern half of the Site. However, with the addition of the 600-series monitoring wells and the exclusion of MW-1 and MW-3, which are influenced by large areas of backfill, a more east-northeasterly groundwater flow direction has been observed. The potentiometric surface map generated from the April 2022 data is included as Figure B.3.c.23 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the third quarter of 2022 (i.e., April-June 2022) were collected on August 5, 2022, 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 of Attachment A. The tables are compared to the Preventative Action Limits PAL (PALs) and

Enforcement Standards listed in Table 1 of NR 140. A copy of the laboratory analytical report for the third quarter 2022 sampling is provided in this report as Attachment C.1.E.

Volatile Organic Compounds

Table A.1.A summarizes the quarterly groundwater sampling results from MW-5 for Perc and Trichloroethene (TCE), which are the only VOCs of concern observed in the groundwater (previous quarterly reports include a full summary of VOC analyses). Results of groundwater sampling at MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location), have indicated Perc at concentrations exceeding the Enforcement Standard of 0.005-mg/L since February 2016. These Perc concentrations increased through October 2018, followed by a decline in concentration, and then a period of general stability between September 2019 and May 2021. The Perc concentrations between August 2021 and August 2022 have also remained rather stable, but at slightly increased concentrations than previously observed. Three (3) of the five (5) most recent Perc concentrations have been reported at 0.021-mg/L, the other concentrations being 0.24-mg/L (November 2021) and 0.011-mg/L (April 2022). Generally, the data indicate relatively stable Perc contaminant concentrations around MW-5. Figure B.3.b.1a provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination.

The monthly samples collected from the Ace Hardware sump, which continues to function for groundwater recovery, also indicates stable Perc concentrations. (The influent water in the sump is collected prior to treatment and final discharge to the stormwater sewer system). Table A.5 summarizes the monthly sump sample results, and Figure B.3.b.1a provides a summary of monthly Perc concentrations from the previous semi-annual period (i.e., July-December 2021) through August 2022.

Since the groundwater sampling was initiated, the TCE concentration in MW-5 was observed at a level above the PAL (0.0005-mg/L) on three (3) occasions: January 2019 (0.0027-mg/L), April 2019 (0.00071-mg/L), and most recently in January 2022 (0.00067). All other TCE concentrations were below the PAL, including the most recently collected August 2022 sample. Figure B.3.b.1b provides a historical summary of TCE groundwater concentrations.

Polynuclear Aromatic Hydrocarbons

Table A.1.B summarizes the results of Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene in MW-3 and MW-4, which are the PAH analyses of concern in the groundwater on the southern portion of the Site (previous quarterly reports include a full summary of PAH analyses). MW-3 is installed in the southern portion of the property where contamination from historical petroleum and/or coal storage was identified. MW-4 is installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST. 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 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 were observed in MW-3 at groundwater concentrations above the Enforcement Standard (other PAH constituents were also observed but at concentrations below PALs). Following a period of general stability in concentration between July 2019 and May 2021 (excluding a concentration spike in October 2019), groundwater concentrations decreased in August 2021, then followed by increased concentrations each quarter through April 2022. The August 2022 concentrations are slightly lower, but generally consistent with the April 2022 concentrations, both of which were comparable to October 2019 concentrations. The concentrations of Fluorene and Pyrene decreased to below the PAL; the April 2022 exceedances are considered an isolated occurrence, not a sign of increasing or spreading contamination. With no active PAH source, the variability in groundwater concentrations is believed to be associated with the fluctuations in the groundwater table elevation through the contaminated fill material and possible negative impact on sampling results due to the damaged monitoring well casing.

As discussed in the previous quarterly report, results of the PAH the February 2022 sampling of MW-601 and MW-602 (east and west MW-3) indicated Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene at concentrations above the PAL, but below the Enforcement Standards. Concentrations in MW-601 to the east were higher than those in MW-602, consistent with the location of the known PAH soil contamination. Considering the known PAH soil impacts

throughout the southern portion of the Site, low-level PAH concentrations in the groundwater at these locations was expected, but the results do indicate that the higher PAH groundwater impacts are limited to the area of contaminated fill material surrounding MW-3.

The results of August 2022 sampling indicate exceedances of the PALs in MW-4 for Benzo(b)fluoranthene and Chrysene. Both PAH constituents were reported with concentrations of 0.00014-mg/L, above the PAL of 0.00002-mg/L, but below the Enforcement Standards of 0.0002-mg/L. No detectable concentration of Benzo(a)pyrene was reported, and the Naphthalene concentration was below the PAL. Similar to MW-3, groundwater concentrations in MW-4 fluctuate, but data do not indicate any increasing trend in concentration. The period of more elevated concentrations observed in late 2021-early 2022 was attributed to the observation of free-product petroleum identified in MW-4. Manual recovery efforts were promptly implemented, resulting in the removal of that product (total volume of approximately 3.5-gallons) and the decline of groundwater concentrations to levels consistent with those historically observed. No additional product has been noted. (If observed, recovery efforts will be performed and the results reported to the WDNR in the quarterly groundwater sampling reports.)

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 LOD with the exception of Perc, Table A.5 only summarizes the Perc results.) The sump water sample results since July 2021 to the present are provided in Figure B.3.b.1a. (Previous reports included earlier sump data.)

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

- The Perc concentrations observed in monitoring well MW-5 have exceeded the Enforcement Standard since February 2016. Though the Perc concentrations have remained above the Enforcement Standard, the chemical injection activities performed in July 2018 and August 2019 in the vicinity of MW-5 have helped reduce the mass of Perc contamination. The Perc groundwater concentrations in MW-5 have remained relatively stable since that time. Quarterly monitoring of Perc concentrations in MW-5 will be continued until closure of the Site is approved.
- 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 influent and effluent sampling will continue on a monthly basis, as required.
- PAH contamination continues to be observed in MW-3 and MW-4, particularly the constituents Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene. All other PAH constituents are typically observed at concentrations below the PALs. The site-wide presence of coal and cinder fill material remaining from the historical use of the property are believed to contribute to the observed groundwater impact, since a large portion of the Site exhibits low-level PAH soil contamination. The February 2022 sampling of monitoring wells MW-601 and MW-602 (east and west of MW-3) verify low-level PAH concentrations in the groundwater within the southern portion of the Site, but that the elevated PAH in concentrations are isolated to monitoring well MW-3. The August 2022 sampling results indicate concentrations of Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene slightly lower than, but consistent with the concentrations observed in April 2022.
- A free-product petroleum layer was recently in MW-4 (which was installed near a former heating oil UST). Manual recovery efforts were promptly undertaken till all product was removed, which totaled approximately 3.5-gallons. No measureable product thickness was observed during the August 2022 sampling event. If product is again observed in MW-4, further manual bailing will be performed. The August 2022 sampling results indicated concentrations of Benzo(b)fluoranthene and Chrysene exceeding the PAL Benzo(a)pyrene, though the reported concentrations were actually lower than the “non-detect” concentrations reported in April 2022. The removal of the free-product appears to have contributed to the concentration decline, with the most recent concentrations consistent with historical low-level concentrations above the PALs, but below the Enforcement Standards.

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	08/05/22	**0.021**	0.00069 (J)
	04/11/22	**0.011**	<0.00032
	01/24/22	**0.021**	**0.00067**
	11/11/21	**0.024**	0.00034 (J)
	08/31/21	**0.021**	<0.00032
	05/09/21	**0.012**	<0.00032
	01/18/21	**0.01**	<0.00026
	10/12/20	**0.014**	0.00047
	07/14/20	**0.01**	<0.00026
	05/05/20	**0.0088**	<0.00026
	01/17/20	**0.0084**	0.00038 (J)
	10/24/19	**0.012**	0.00039 (J)
	09/05/19	**0.0153**	0.00038 (J)
	07/07/19	**0.0106**	0.00048 (J)
	04/29/19	**0.0114**	**0.00071 (J)**
	01/25/19	**0.0065**	**0.0027**
	10/11/18	**0.021**	0.00027 (J)
	07/30/18	**0.0086**	<0.00026
	04/07/18	**0.0203**	<0.00033
	01/05/18	**0.0181**	<0.00033
	05/30/17	**0.0124**	<0.00033
	02/23/16	**0.0083**	<0.00033
	01/27/15	**0.0026**	<0.00033
	11/12/14 (TW-2)	**0.0026**	<0.00033
PAL[1]		**0.0005**	**0.0005**
Enforcement Standard[2]		**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)

Sample Location	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Naphthalene
MW-3	08/05/22	**0.024**	**0.04**	**0.03**	<0.00036
	04/11/22	**0.026**	**0.061**	**0.056**	<0.00036
	01/24/22	**0.0095**	**0.017**	**0.013**	<0.00009
	11/11/21	**0.0008**	**0.0022**	**0.0015**	<0.000019
	08/31/21	**0.00021**	**0.0005**	**0.00036**	0.00005
	05/03/21	**0.0024**	**0.0054**	**0.005**	0.0001 (J)
	01/18/21	**0.0024**	**0.005**	**0.0028**	0.00013
	10/12/20	**0.0013**	**0.0027**	**0.0015**	0.0001
	07/14/20	**0.0012**	**0.0022**	**0.0014**	0.00003
	05/05/20	**0.0011**	**0.0023**	**0.0012**	<0.000018
	01/17/20	**0.0063**	**0.0104**	**0.0013**	0.0001
	10/24/19	**0.015**	**0.03**	**0.016**	0.00015
	07/07/19	**0.0019**	**0.0036**	**0.0026**	0.000019 (J)
	04/29/19	**0.115**	**0.209**	**0.13**	0.00035
	01/25/19	**0.00017**	**0.00034**	**0.00028**	0.000022 (J)
	10/11/18	**0.000024 (J)**	**0.000074**	**0.000079**	0.000032 (J)
	07/30/18	**0.00068**	**0.0013**	**0.00095**	0.000053 (J)
	04/07/18	**0.0019**	**0.0039**	**0.003**	0.000051
	01/05/18	<0.0000096	**0.000037**	**0.000047 (J)**	0.00046
	05/30/17	**0.001**	**0.002**	**0.0015**	0.00012
	01/27/15	0.000011 (J)	0.00002 (J)	**0.00005**	<0.0000056
	11/13/14 (TW-5)	**0.0006**	**0.00077**	**0.00084**	0.00016
PAL[1]		**0.00002**	**0.00002**	**0.00002**	**0.017**
Enforcement Standard[2]		**0.0002**	**0.0002**	**0.0002**	**0.1**

[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
PAHs via USEPA Method SW8270E by SIM
Note: Fluoranthene and Pyrene indicated an exceedance of the PALs during the April 29, 2019, and April 11, 2022, sampling events

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

Sample Location	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Naphthalene
MW-4	08/05/22	<0.00091	**0.00014**	**0.00014**	0.0015
	04/11/22	<0.00039	<0.00039	<0.00053	0.0022
	01/24/22	**<0.018**	**<0.018**	**<0.025**	**0.037**
	11/11/21	**0.0024 (J)**	**0.0035 (J)**	**0.016**	**0.089**
	08/31/21	**<0.0017**	**<0.0017**	**<0.0024**	0.01
	05/03/21	**0.0003 (J)**	**0.00061**	**0.0022**	0.0091
	01/18/21	**0.00013 (J)**	**0.00029**	**0.00082**	0.0055
	10/12/20	**0.00029 (J)**	**0.00065**	**0.0015**	0.007
	07/14/20	**0.00046 (J)**	**0.00098**	**0.0038**	**0.025**
	05/05/20	**0.0012 (J)**	**0.0032**	**0.005**	**0.035**
	01/17/20	**0.0031**	**0.0056**	**0.0074**	0.0074
	10/24/19	**0.00045**	**0.00086**	**0.0016**	0.0026
	07/07/19	<0.000037	<0.00002	<0.000046	0.0034
	04/29/19	**0.000041 (J)**	**0.000093**	**0.00017**	0.0014
	01/25/19	<0.0000095	0.000012 (J)	**0.000033 (J)**	0.00078
	10/11/18	**<0.000029**	**0.000022**	**0.000084 (J)**	0.00081
	07/30/18	**<0.000048**	**<0.000026**	**<0.00006**	0.0015
	04/07/18	<0.0000095	0.0000096 (J)	**0.000031 (J)**	0.0022
	01/05/18	**<0.0002**	**0.00022 (J)**	**0.001 (J)**	**0.0151**
	05/30/17	**<0.00049**	**<0.00027**	**0.0018 (J)**	**0.0243**
	02/23/16	0.000006	0.000014 (J)	0.000017 (J)	0.00047
	01/27/15	0.000017 (J)	**0.000043 (J)**	**0.000042 (J)**	0.00027
	11/13/14 (TW-6)	0.0000053 (J)	0.0000093 (J)	**0.000021 (J)**	0.0022
PAL[1]		**0.00002**	**0.00002**	**0.00002**	**0.017**
Enforcement Standard[2]		**0.0002**	**0.0002**	**0.0002**	**0.1**

[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
PAHs via USEPA Method SW8270E by SIM
Note: Fluorene indicated an exceedance of the PAL during the May 5, 2020; Fluorene and Pyrene indicated exceedances during the November 11, 2021, sampling event

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-601 (02/03/22)	MW-602 (02/04/22)		
Acenaphthene	0.000056	<0.000012	NL	NL
Acenaphthylene	0.000015	<0.000011	NL	NL
Anthracene	0.00012	<0.000017	0.6	3
Benzo(a)anthracene	0.00019	0.000025 (J)	NL	NL
Benzo(a)pyrene	**0.00015**	**0.000035 (J)**	0.00002	0.0002
Benzo(b)fluoranthene	**0.00016**	**0.000057**	0.00002	0.0002
Benzo(g,h,i)perylene	0.00018	0.000055	NL	NL
Benzo(k)fluoranthene	0.000064	0.00002	NL	NL
Chrysene	**0.00035**	**0.000073**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000048	0.000016	NL	NL
Fluoranthene	0.00032	0.00011	0.08	0.4
Fluorene	0.000068	0.000021	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.000081	0.000028 (J)	NL	NL
1-Methylnaphthalene	0.00013	0.000024 (J)	NL	NL
2-Methylnaphthalene	0.000093	0.000017 (J)	NL	NL
Naphthalene	0.000033	0.000018	0.017	0.1
Phenanthrene	0.0002	0.000087	NL	NL
Pyrene	0.00096	0.00011	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
PAHs 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	08/01/22	**0.01**
	07/14/22	**0.01**
	06/02/22	**0.012**
	05/06/22	**0.006**
	04/01/22	**0.0041**
	03/03/22	**0.01**
	02/01/22	**0.01**
	01/18/22	**0.013**
	12/06/21	**0.013**
	11/05/21	**0.014**
	10/04/21	**0.016**
	09/10/21	**0.015**
	08/06/21	**0.016**
	07/02/21	**0.014**
	06/14/21	**0.013**
	05/03/21	**0.016**
	04/06/21	**0.012**
	03/08/21	**0.01**
	02/02/21	**0.014**
	01/12/21	**0.005**
	12/09/20	**0.0048**
	11/12/20	**0.0068**
	10/12/20	**0.009**
	09/03/20	**0.0065**
	08/17/20	**0.01**
	07/14/20	**0.0078**
	06/03/20	**0.0068**
	05/05/20	**0.0054**
	04/06/20	**0.005**
	03/10/20	**0.0063**
	02/03/20	**0.006**
	01/07/20	**0.0065**
	12/03/19	**0.0068**
	11/04/19	**0.008**
	10/02/19	**0.0069**
	09/05/19	**0.0076**
	08/02/19	**0.005**
	07/19/19	**0.0062**
	06/25/19	**0.0054**
	06/06/19	**0.0069**
	05/29/19	**0.0043**
	05/23/19	**0.0042**
	05/15/19	**0.0093**
	02/04/19	**0.0064**
	01/05/18	**0.0082**
	06/04/17	**0.006**
PAL[1]		**0.0005**
Enforcement Standard[2]		**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)	Relative Groundwater Elevation (ft)
MW-1	98.08 (2022 survey)	08/02/22	2.69	95.39
		04/11/22	1.18	96.90
		02/03/22	5.52	92.56
		01/24/22	4.22	93.83
	99.13 (2015 survey)	11/11/21	3.97	95.16
		08/31/21	3.75	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	99.32 (2022 survey)	08/02/22	6.95	92.37
		04/11/22	6.57	92.75
		02/03/22	9.32	90.00
		01/24/22	8.20	91.12
	100.75 (2015 survey)	11/11/21	7.99	92.76
		08/31/21	7.70	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
		10/24/19	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)	Relative Groundwater Elevation (ft)
MW-3	98.97 (2022 survey)	08/02/22	<1	≈98.97
		04/11/22	1.85	91.12
		02/03/22	5.20	93.77
		01/24/22	4.90	94.07
	100.05 (2015 survey)	11/11/21	4.12	95.93
		08/31/21	4.37	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
		10/24/19	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	99.75 (2022 survey)	08/02/22	5.75	94.00
		04/11/22	5.20	94.55
		02/03/22	8.86	90.89
		01/24/22	7.75	92.00
	100.57 (2015 survey)	11/11/21	6.78	93.79
		08/31/21	6.51	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

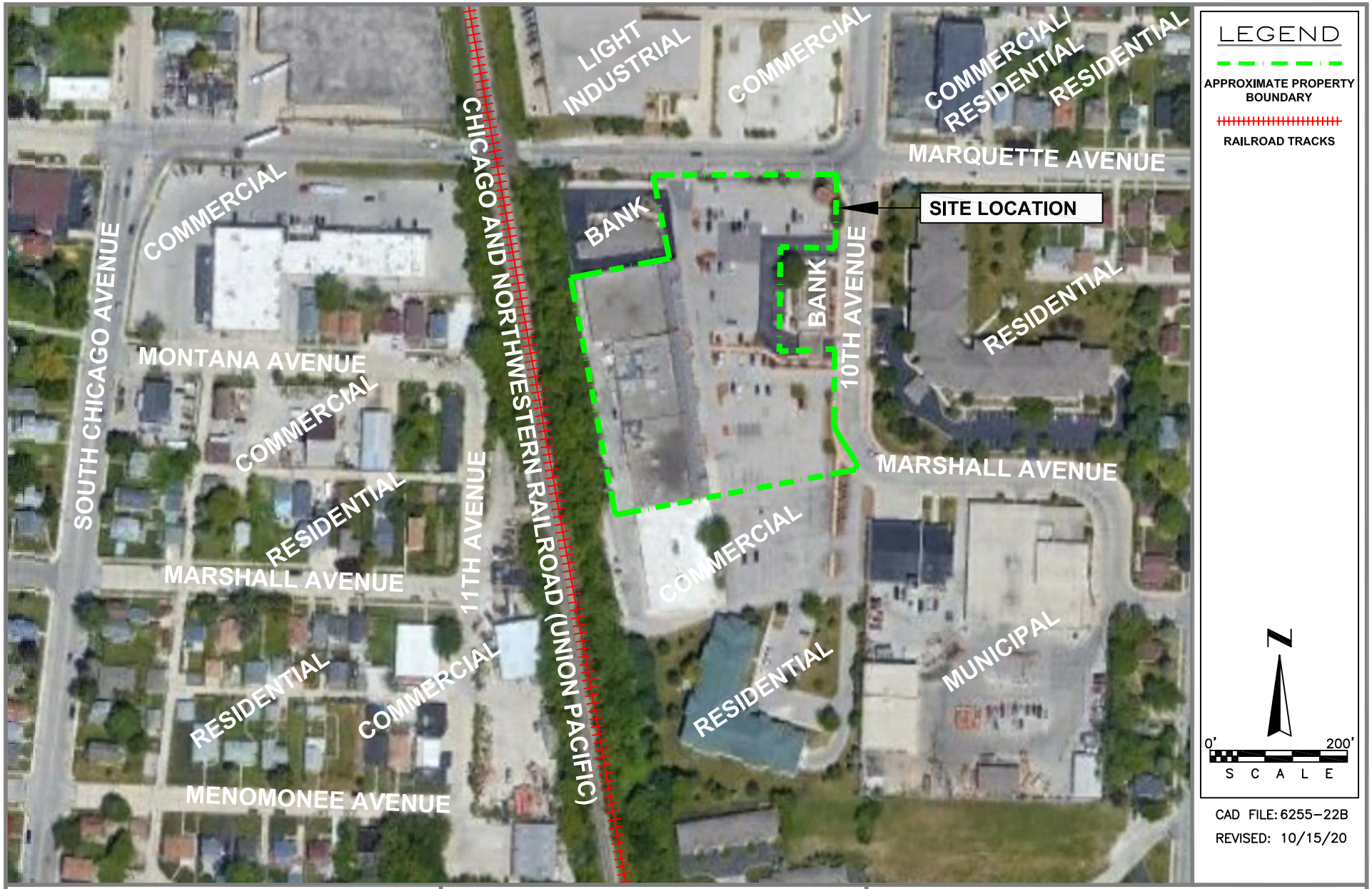
Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Relative Groundwater Elevation (ft)
MW-5	99.36 (2022 survey)	08/02/22	6.24	93.12
		04/11/22	5.96	93.40
		02/03/22	7.42	91.94
		01/24/22	7.13	92.23
	100.24 (2015 survey)	11/11/21	6.69	93.55
		08/31/21	6.48	93.76
		05/03/21	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	99.43 (2022 survey)	08/02/22	7.45	91.98
		04/11/22	6.48	92.96
		02/03/22	8.67	90.76
		01/24/22	8.48	90.95
	100.10 (2015 survey)	11/11/21	8.12	91.98
		08/31/21	7.78	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

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Relative Groundwater Elevation (ft)
MW-600	97.72 (2022 survey)	08/02/22	8.76	88.96
		04/11/22	Inaccessible	--
		02/03/22	9.60	88.12
		01/24/22	8.80	88.92
MW-601	98.11 (2022 survey)	08/02/22	9.09	89.02
		04/11/22	9.27	88.84
		02/03/22	10.41	87.70
		01/24/22	10.12	87.99
MW-602	99.18 (2022 survey)	08/02/22	9.22	89.96
		04/11/22	8.36	90.82
		02/03/22	10.30	88.88
		01/24/22	10.21	88.97
MW-603	99.52 (2022 survey)	08/02/22	5.52	94.00
		04/11/22	5.14	94.38
		02/03/22	6.54	92.98
		01/24/22	6.42	93.10

* – Relative Elevation compared to a generic 100-ft on-site datum. Static water level measurements collected prior to 2022 compared to survey data from on January 27 and March 30, 2015. Static water level measurements collected beginning in January 2022 compared to a complete resurvey performed on February 1, 2022.

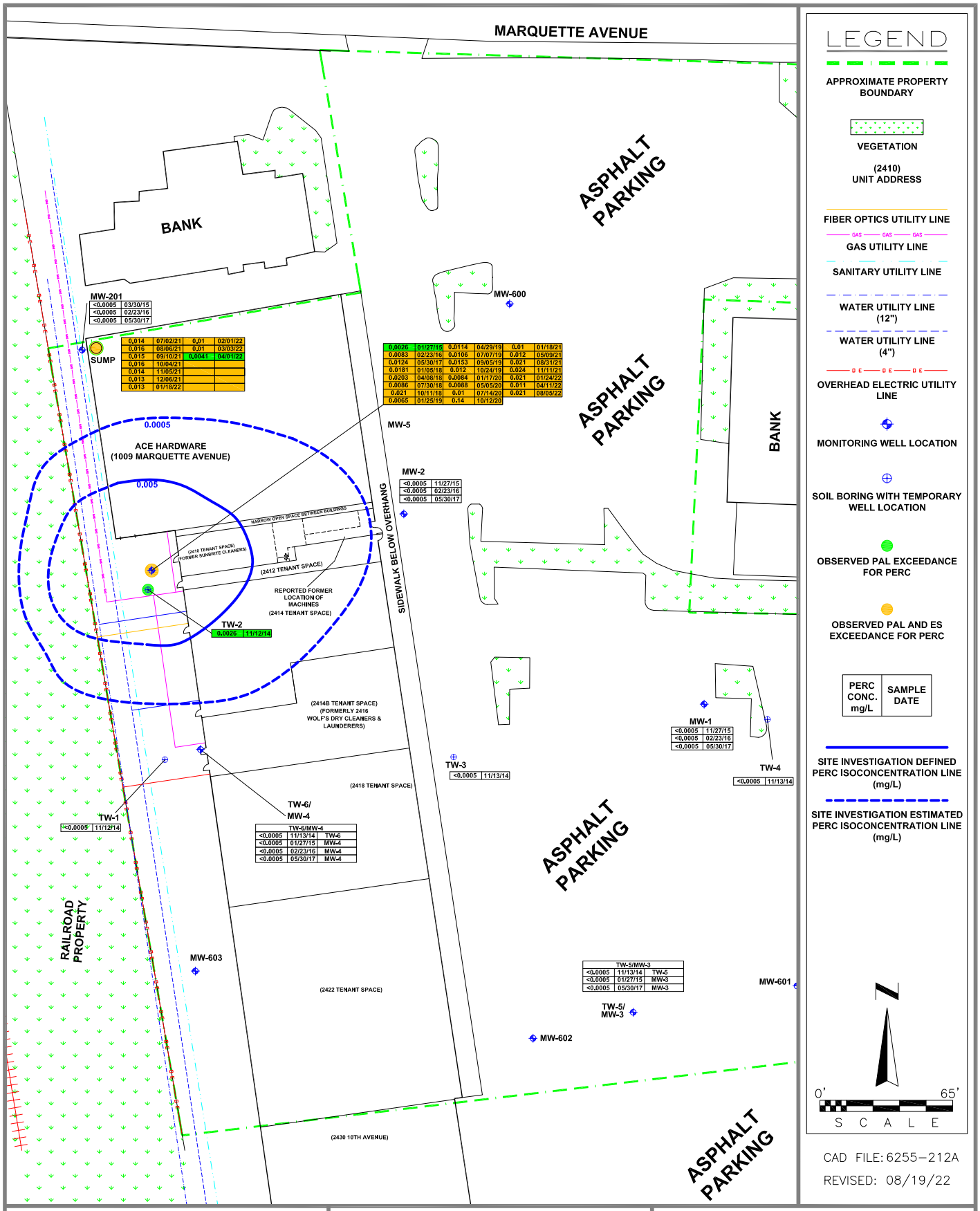
APPENDIX B
FIGURES



ENVIRONMENTAL DAI

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

SITE INVESTIGATION DEFINED PERC ISOCONCENTRATION LINE (mg/L)

SITE INVESTIGATION ESTIMATED PERC ISOCONCENTRATION LINE (mg/L)

N

0' 65'

S C A L E

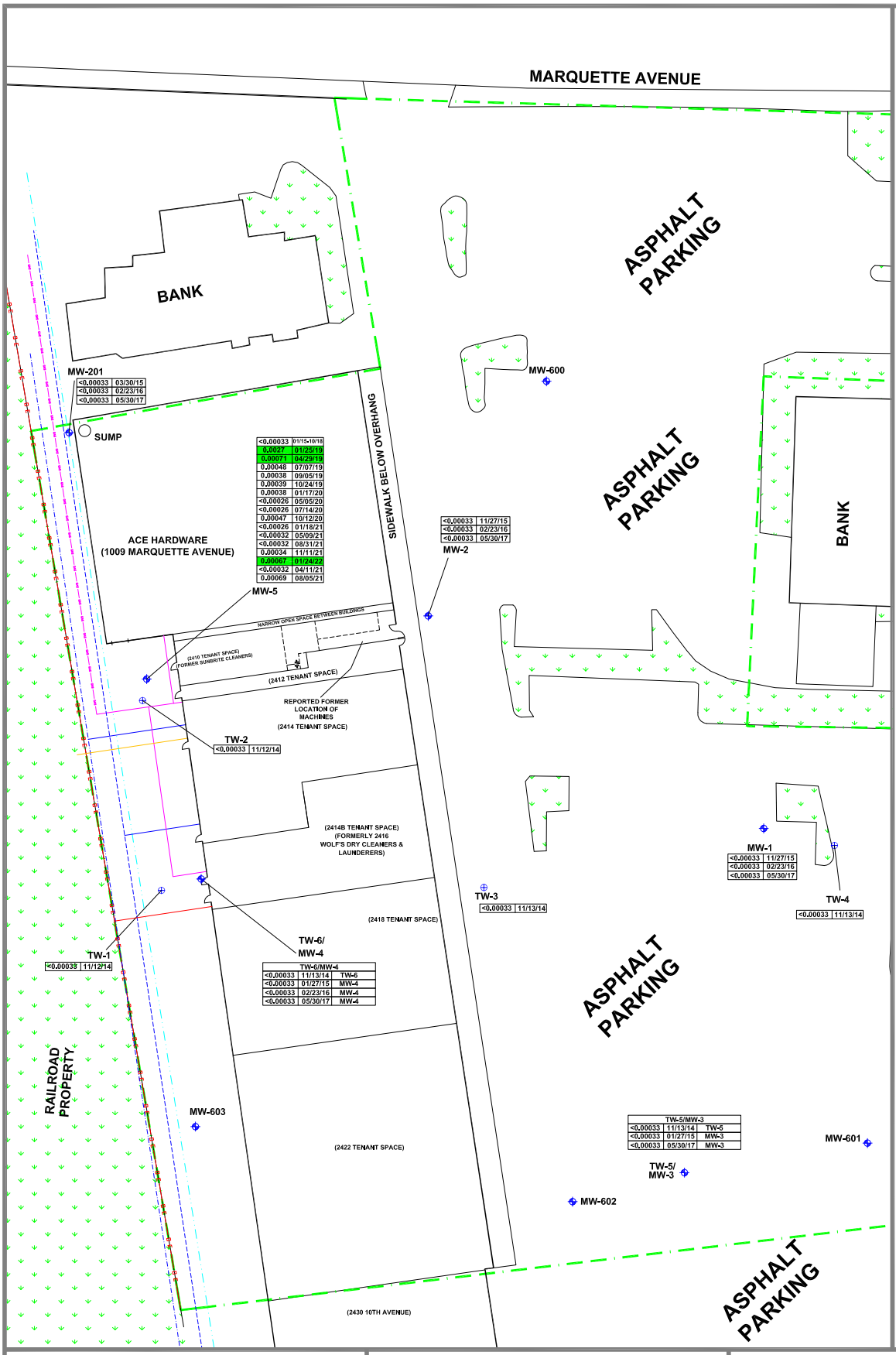
CAD FILE: 6255-212A

REVISED: 08/19/22

ENVIRONMENTAL

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

N

0' 65'

S C A L E

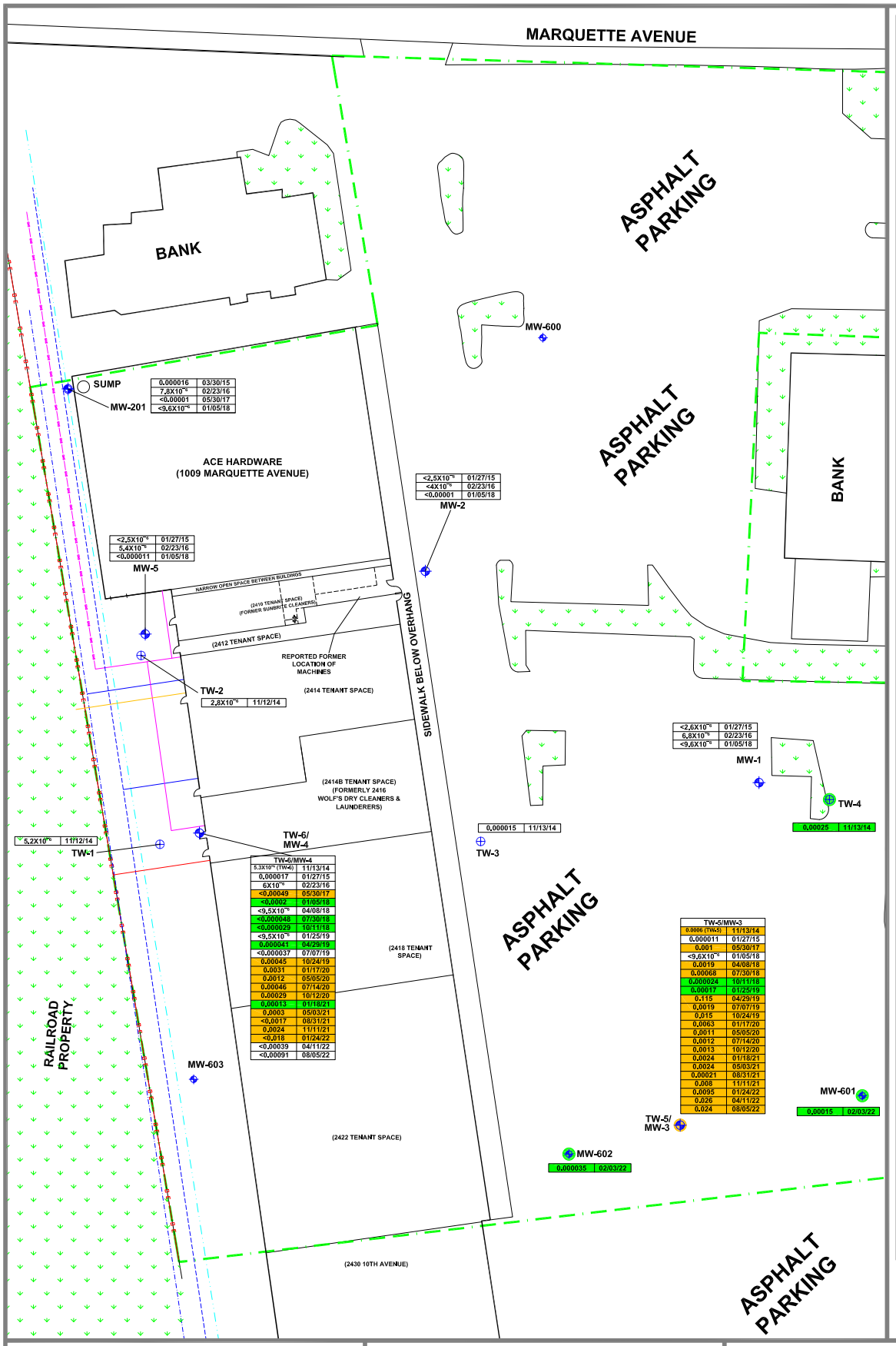
CAD FILE: 6255-214B

REVISED: 08/19/22

ENVIRONMENTAL DAL

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

N

0' 65'

S C A L E

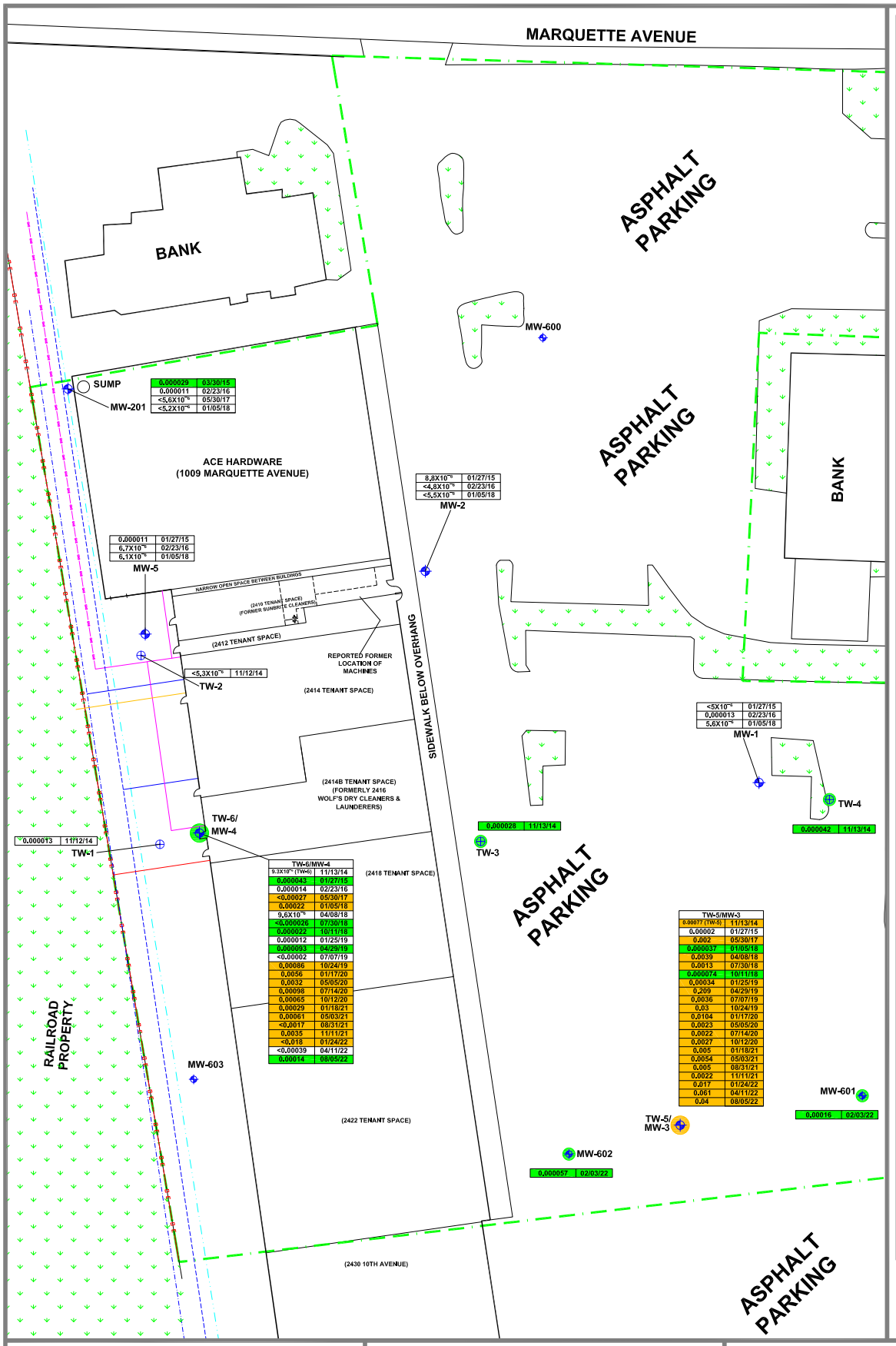
CAD FILE: 6255-215B

REVISED: 08/19/22

ENVIRONMENTAL DAI

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

N

0' 65'

S C A L E

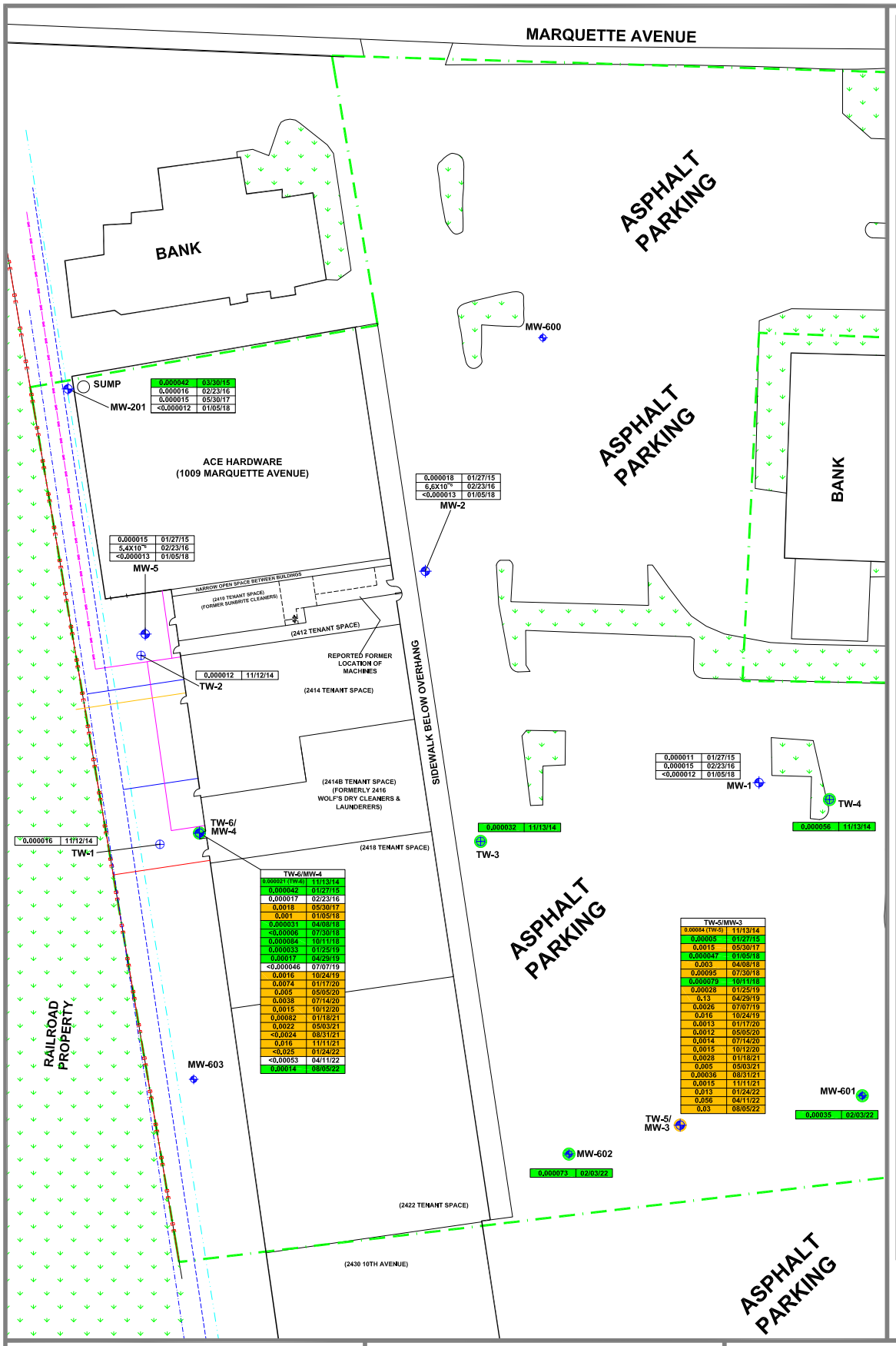
CAD FILE: 6255-216B

REVISED: 08/19/22

ENVIRONMENTAL DAI

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

N

0' 65'

S C A L E

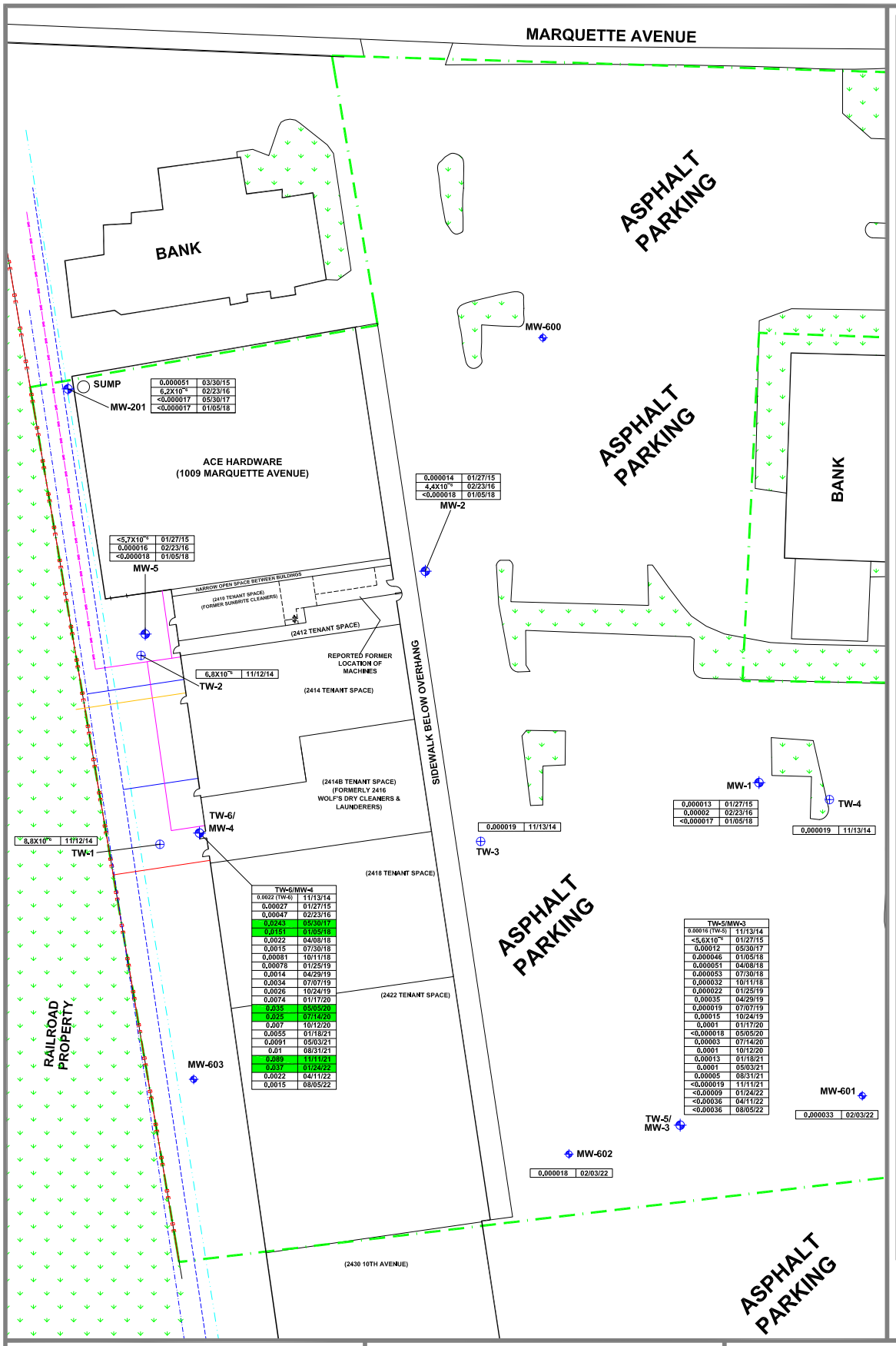
CAD FILE: 6255-217B

REVISED: 08/19/22

ENVIRONMENTAL DAI

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

N

0' 65'

S C A L E

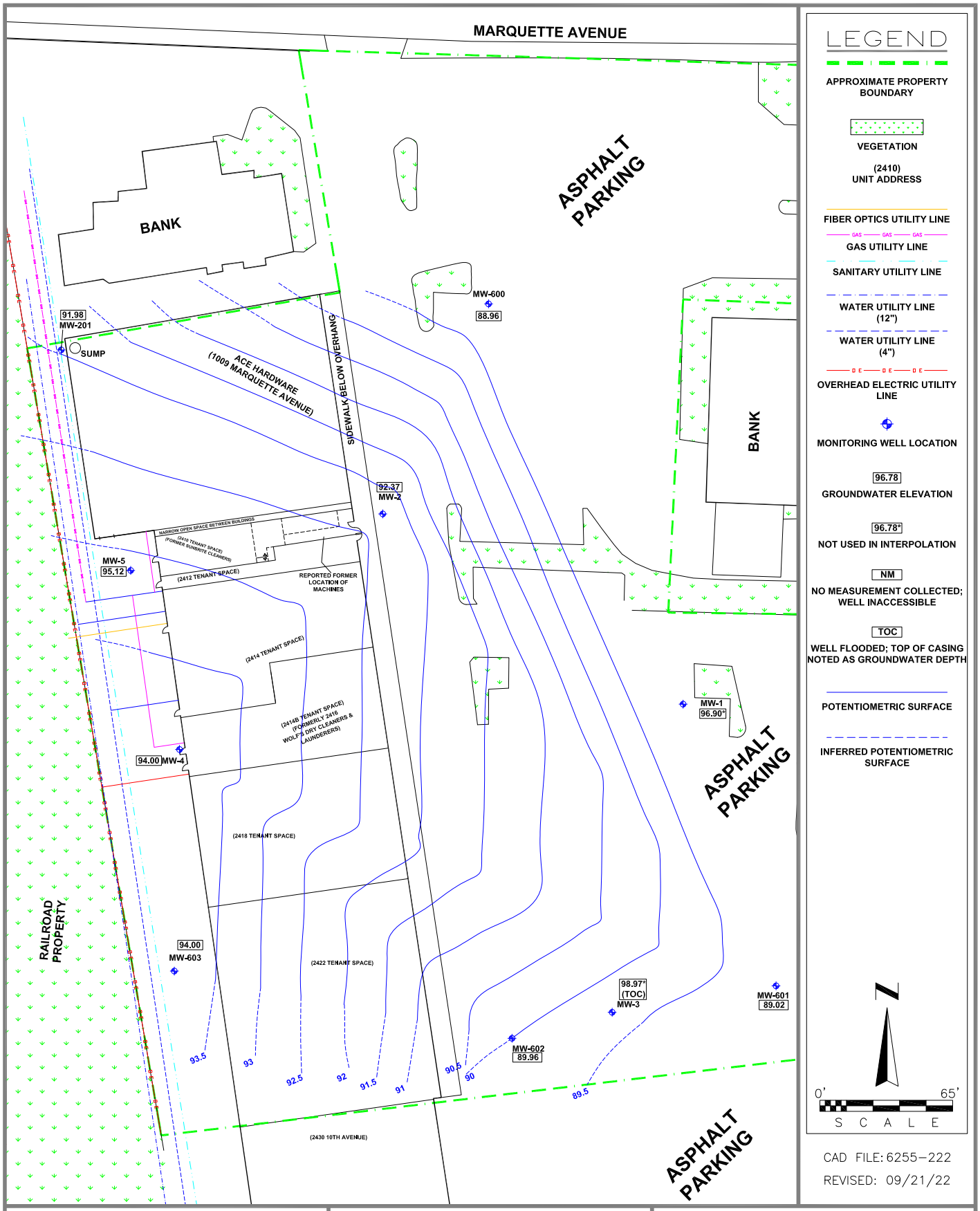
CAD FILE: 6255-218B

REVISED: 08/19/22

ENVIRONMENTAL

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

96.78* NOT USED IN INTERPOLATION

NM NO MEASUREMENT COLLECTED; WELL INACCESSIBLE

TOC WELL FLOODED; TOP OF CASING NOTED AS GROUNDWATER DEPTH

POTENTIOMETRIC SURFACE

INFERRED POTENTIOMETRIC SURFACE

N

0' 65'

S C A L E

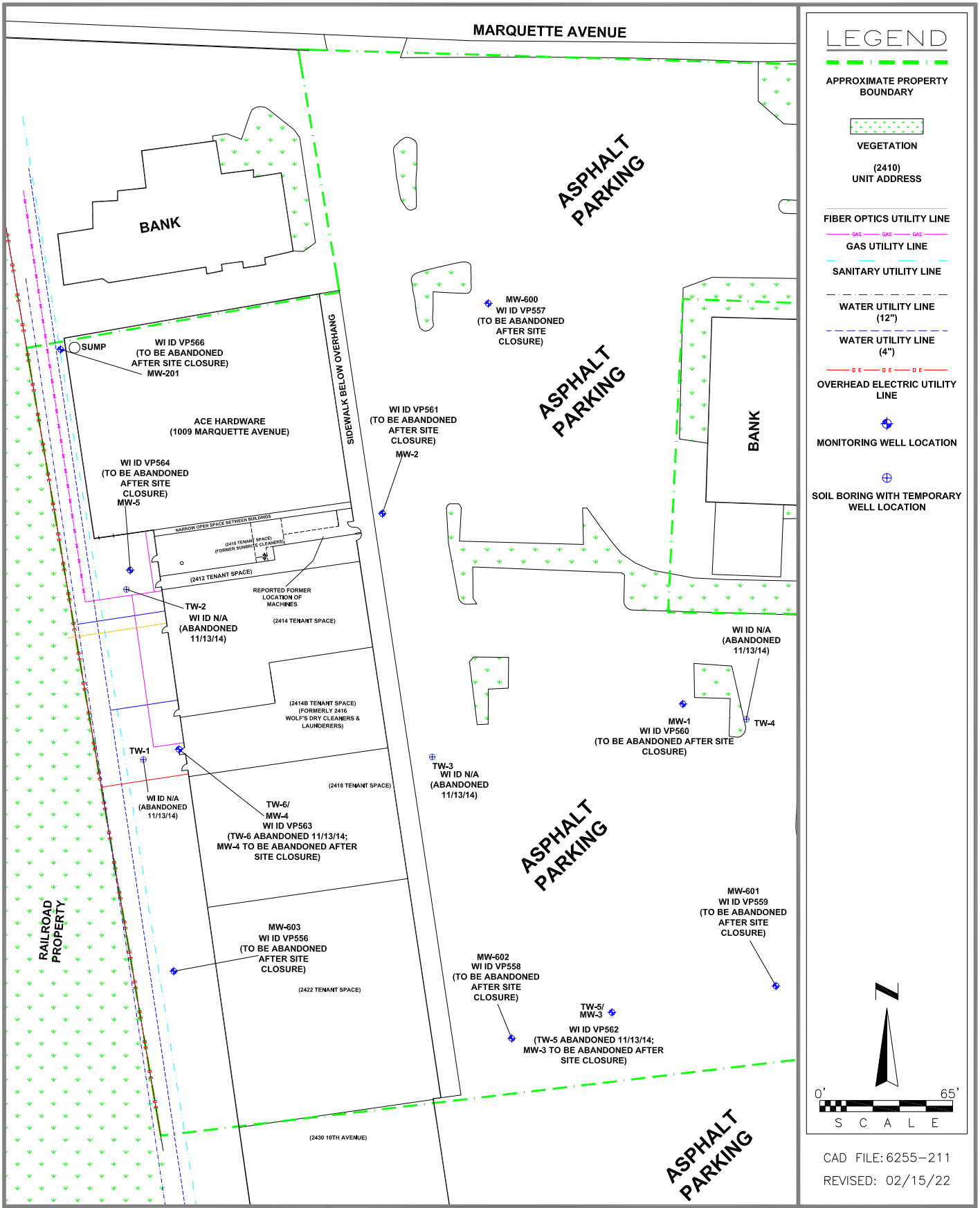
CAD FILE: 6255-222

REVISED: 09/21/22

DAI ENVIRONMENTAL

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

FIGURE B.3.c.23
GROUNDWATER FLOW DIRECTION
(AUGUST 2, 2022)



CAD FILE: 6255-211

REVISED: 02/15/22

DAI ENVIRONMENTAL

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 REPORT
(THIRD QUARTER 2022)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 16, 2022

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

RE: Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2022. 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 Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40249502001	**MW-3**	Water	08/05/22 10:00	08/09/22 08:00
40249502002	**MW-4**	Water	08/05/22 12:20	08/09/22 08:00
40249502003	**MW-5**	Water	08/05/22 13:20	08/09/22 08:00

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40249502001	**MW-3**	EPA 8270E by SIM	TPO	20
40249502002	**MW-4**	EPA 8270E by SIM	TPO	20
40249502003	**MW-5**	EPA 8260	SMT	64

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40249502001	**MW-3**					
EPA 8270E by SIM	Acenaphthene	0.00076J	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Acenaphthylene	0.00053J	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Anthracene	0.0026	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Benzo(a)anthracene	0.015	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Benzo(a)pyrene	0.024	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.040	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.023	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.014	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Chrysene	0.030	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.0046	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Fluoranthene	0.064	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Fluorene	0.0017	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.018	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Phenanthrene	0.026	mg/L	0.00091	08/15/22 16:34	
EPA 8270E by SIM	Pyrene	0.044	mg/L	0.00091	08/15/22 16:34	
40249502002	**MW-4**					
EPA 8270E by SIM	Acenaphthene	0.0027	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Acenaphthylene	0.00039	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.00014J	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Chrysene	0.00014J	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Fluoranthene	0.00054	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Fluorene	0.0036	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	1-Methylnaphthalene	0.0053	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Naphthalene	0.0015	mg/L	0.00036	08/15/22 15:34	D3
EPA 8270E by SIM	Phenanthrene	0.0017	mg/L	0.00036	08/15/22 15:34	
EPA 8270E by SIM	Pyrene	0.0016	mg/L	0.00036	08/15/22 15:34	
40249502003	**MW-5**					
EPA 8260	Tetrachloroethene	0.021	mg/L	0.0010	08/10/22 19:38	
EPA 8260	1,1,1-Trichloroethane	0.00069J	mg/L	0.0010	08/10/22 19:38	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Sample: MW-3 **Lab ID: 40249502001** Collected: 08/05/22 10:00 Received: 08/09/22 08:00 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	**0.00076J**	mg/L	0.00091	0.00025	20	08/12/22 13:21	08/15/22 16:34	83-32-9	
Acenaphthylene	**0.00053J**	mg/L	0.00091	0.00023	20	08/12/22 13:21	08/15/22 16:34	208-96-8	
Anthracene	**0.0026**	mg/L	0.00091	0.00034	20	08/12/22 13:21	08/15/22 16:34	120-12-7	
Benzo(a)anthracene	**0.015**	mg/L	0.00091	0.00025	20	08/12/22 13:21	08/15/22 16:34	56-55-3	
Benzo(a)pyrene	**0.024**	mg/L	0.00091	0.00023	20	08/12/22 13:21	08/15/22 16:34	50-32-8	
Benzo(b)fluoranthene	**0.040**	mg/L	0.00091	0.00016	20	08/12/22 13:21	08/15/22 16:34	205-99-2	
Benzo(g,h,i)perylene	**0.023**	mg/L	0.00091	0.00042	20	08/12/22 13:21	08/15/22 16:34	191-24-2	
Benzo(k)fluoranthene	**0.014**	mg/L	0.00091	0.00040	20	08/12/22 13:21	08/15/22 16:34	207-08-9	
Chrysene	**0.030**	mg/L	0.00091	0.00023	20	08/12/22 13:21	08/15/22 16:34	218-01-9	
Dibenz(a,h)anthracene	**0.0046**	mg/L	0.00091	0.00032	20	08/12/22 13:21	08/15/22 16:34	53-70-3	
Fluoranthene	**0.064**	mg/L	0.00091	0.00047	20	08/12/22 13:21	08/15/22 16:34	206-44-0	
Fluorene	**0.0017**	mg/L	0.00091	0.00043	20	08/12/22 13:21	08/15/22 16:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.018**	mg/L	0.00091	0.00028	20	08/12/22 13:21	08/15/22 16:34	193-39-5	
1-Methylnaphthalene	**<0.00032**	mg/L	0.00091	0.00032	20	08/12/22 13:21	08/15/22 16:34	90-12-0	
2-Methylnaphthalene	**<0.00025**	mg/L	0.00091	0.00025	20	08/12/22 13:21	08/15/22 16:34	91-57-6	
Naphthalene	**<0.00036**	mg/L	0.00091	0.00036	20	08/12/22 13:21	08/15/22 16:34	91-20-3	
Phenanthrene	**0.026**	mg/L	0.00091	0.00046	20	08/12/22 13:21	08/15/22 16:34	85-01-8	
Pyrene	**0.044**	mg/L	0.00091	0.00041	20	08/12/22 13:21	08/15/22 16:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	44-120		20	08/12/22 13:21	08/15/22 16:34	321-60-8	
Terphenyl-d14 (S)	73	%	49-120		20	08/12/22 13:21	08/15/22 16:34	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Sample: MW-4 **Lab ID: 40249502002** Collected: 08/05/22 12:20 Received: 08/09/22 08:00 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	**0.0027**	mg/L	0.00036	0.00010	8	08/12/22 13:21	08/15/22 15:34	83-32-9	
Acenaphthylene	**0.00039**	mg/L	0.00036	0.000091	8	08/12/22 13:21	08/15/22 15:34	208-96-8	
Anthracene	**<0.00013**	mg/L	0.00036	0.00013	8	08/12/22 13:21	08/15/22 15:34	120-12-7	
Benzo(a)anthracene	**<0.000098**	mg/L	0.00036	0.000098	8	08/12/22 13:21	08/15/22 15:34	56-55-3	
Benzo(a)pyrene	**<0.000091**	mg/L	0.00036	0.000091	8	08/12/22 13:21	08/15/22 15:34	50-32-8	
Benzo(b)fluoranthene	**0.00014J**	mg/L	0.00036	0.000065	8	08/12/22 13:21	08/15/22 15:34	205-99-2	
Benzo(g,h,i)perylene	**<0.00017**	mg/L	0.00036	0.00017	8	08/12/22 13:21	08/15/22 15:34	191-24-2	
Benzo(k)fluoranthene	**<0.00016**	mg/L	0.00036	0.00016	8	08/12/22 13:21	08/15/22 15:34	207-08-9	
Chrysene	**0.00014J**	mg/L	0.00036	0.000091	8	08/12/22 13:21	08/15/22 15:34	218-01-9	
Dibenz(a,h)anthracene	**<0.00013**	mg/L	0.00036	0.00013	8	08/12/22 13:21	08/15/22 15:34	53-70-3	
Fluoranthene	**0.00054**	mg/L	0.00036	0.00019	8	08/12/22 13:21	08/15/22 15:34	206-44-0	
Fluorene	**0.0036**	mg/L	0.00036	0.00017	8	08/12/22 13:21	08/15/22 15:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00011**	mg/L	0.00036	0.00011	8	08/12/22 13:21	08/15/22 15:34	193-39-5	
1-Methylnaphthalene	**0.0053**	mg/L	0.00036	0.00013	8	08/12/22 13:21	08/15/22 15:34	90-12-0	
2-Methylnaphthalene	**<0.000099**	mg/L	0.00036	0.000099	8	08/12/22 13:21	08/15/22 15:34	91-57-6	
Naphthalene	**0.0015**	mg/L	0.00036	0.00014	8	08/12/22 13:21	08/15/22 15:34	91-20-3	D3
Phenanthrene	**0.0017**	mg/L	0.00036	0.00018	8	08/12/22 13:21	08/15/22 15:34	85-01-8	
Pyrene	**0.0016**	mg/L	0.00036	0.00016	8	08/12/22 13:21	08/15/22 15:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	44-120		8	08/12/22 13:21	08/15/22 15:34	321-60-8	
Terphenyl-d14 (S)	70	%	49-120		8	08/12/22 13:21	08/15/22 15:34	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Sample: MW-5 **Lab ID: 40249502003** Collected: 08/05/22 13:20 Received: 08/09/22 08:00 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		08/10/22 19:38	71-43-2	
Bromobenzene	**<0.00036**	mg/L	0.0010	0.00036	1		08/10/22 19:38	108-86-1	
Bromochloromethane	**<0.00036**	mg/L	0.0050	0.00036	1		08/10/22 19:38	74-97-5	
Bromodichloromethane	**<0.00042**	mg/L	0.0010	0.00042	1		08/10/22 19:38	75-27-4	
Bromoform	**<0.0038**	mg/L	0.0050	0.0038	1		08/10/22 19:38	75-25-2	
Bromomethane	**<0.0012**	mg/L	0.0050	0.0012	1		08/10/22 19:38	74-83-9	
n-Butylbenzene	**<0.00086**	mg/L	0.0010	0.00086	1		08/10/22 19:38	104-51-8	
sec-Butylbenzene	**<0.00042**	mg/L	0.0010	0.00042	1		08/10/22 19:38	135-98-8	
tert-Butylbenzene	**<0.00059**	mg/L	0.0010	0.00059	1		08/10/22 19:38	98-06-6	
Carbon tetrachloride	**<0.00037**	mg/L	0.0010	0.00037	1		08/10/22 19:38	56-23-5	
Chlorobenzene	**<0.00086**	mg/L	0.0010	0.00086	1		08/10/22 19:38	108-90-7	
Chloroethane	**<0.0014**	mg/L	0.0050	0.0014	1		08/10/22 19:38	75-00-3	
Chloroform	**<0.0012**	mg/L	0.0050	0.0012	1		08/10/22 19:38	67-66-3	
Chloromethane	**<0.0016**	mg/L	0.0050	0.0016	1		08/10/22 19:38	74-87-3	
2-Chlorotoluene	**<0.00089**	mg/L	0.0050	0.00089	1		08/10/22 19:38	95-49-8	
4-Chlorotoluene	**<0.00089**	mg/L	0.0050	0.00089	1		08/10/22 19:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.0024**	mg/L	0.0050	0.0024	1		08/10/22 19:38	96-12-8	
Dibromochloromethane	**<0.0026**	mg/L	0.0050	0.0026	1		08/10/22 19:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.00031**	mg/L	0.0010	0.00031	1		08/10/22 19:38	106-93-4	
Dibromomethane	**<0.00099**	mg/L	0.0050	0.00099	1		08/10/22 19:38	74-95-3	
1,2-Dichlorobenzene	**<0.00033**	mg/L	0.0010	0.00033	1		08/10/22 19:38	95-50-1	
1,3-Dichlorobenzene	**<0.00035**	mg/L	0.0010	0.00035	1		08/10/22 19:38	541-73-1	
1,4-Dichlorobenzene	**<0.00089**	mg/L	0.0010	0.00089	1		08/10/22 19:38	106-46-7	
Dichlorodifluoromethane	**<0.00046**	mg/L	0.0050	0.00046	1		08/10/22 19:38	75-71-8	
1,1-Dichloroethane	**<0.00030**	mg/L	0.0010	0.00030	1		08/10/22 19:38	75-34-3	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		08/10/22 19:38	107-06-2	
1,1-Dichloroethene	**<0.00058**	mg/L	0.0010	0.00058	1		08/10/22 19:38	75-35-4	
cis-1,2-Dichloroethene	**<0.00047**	mg/L	0.0010	0.00047	1		08/10/22 19:38	156-59-2	
trans-1,2-Dichloroethene	**<0.00053**	mg/L	0.0010	0.00053	1		08/10/22 19:38	156-60-5	
1,2-Dichloropropane	**<0.00045**	mg/L	0.0010	0.00045	1		08/10/22 19:38	78-87-5	
1,3-Dichloropropane	**<0.00030**	mg/L	0.0010	0.00030	1		08/10/22 19:38	142-28-9	
2,2-Dichloropropane	**<0.0042**	mg/L	0.0050	0.0042	1		08/10/22 19:38	594-20-7	
1,1-Dichloropropene	**<0.00041**	mg/L	0.0010	0.00041	1		08/10/22 19:38	563-58-6	
cis-1,3-Dichloropropene	**<0.00036**	mg/L	0.0010	0.00036	1		08/10/22 19:38	10061-01-5	
trans-1,3-Dichloropropene	**<0.0035**	mg/L	0.0050	0.0035	1		08/10/22 19:38	10061-02-6	
Diisopropyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		08/10/22 19:38	108-20-3	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		08/10/22 19:38	100-41-4	
Hexachloro-1,3-butadiene	**<0.0027**	mg/L	0.0050	0.0027	1		08/10/22 19:38	87-68-3	
Isopropylbenzene (Cumene)	**<0.0010**	mg/L	0.0050	0.0010	1		08/10/22 19:38	98-82-8	
p-Isopropyltoluene	**<0.0010**	mg/L	0.0050	0.0010	1		08/10/22 19:38	99-87-6	
Methylene Chloride	**<0.00032**	mg/L	0.0050	0.00032	1		08/10/22 19:38	75-09-2	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		08/10/22 19:38	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		08/10/22 19:38	91-20-3	
n-Propylbenzene	**<0.00035**	mg/L	0.0010	0.00035	1		08/10/22 19:38	103-65-1	
Styrene	**<0.00036**	mg/L	0.0010	0.00036	1		08/10/22 19:38	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Sample: MW-5 **Lab ID: 40249502003** Collected: 08/05/22 13:20 Received: 08/09/22 08:00 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		08/10/22 19:38	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.00038**	mg/L	0.0010	0.00038	1		08/10/22 19:38	79-34-5	
Tetrachloroethene	**0.021**	mg/L	0.0010	0.00041	1		08/10/22 19:38	127-18-4	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		08/10/22 19:38	108-88-3	
1,2,3-Trichlorobenzene	**<0.0010**	mg/L	0.0050	0.0010	1		08/10/22 19:38	87-61-6	
1,2,4-Trichlorobenzene	**<0.00095**	mg/L	0.0050	0.00095	1		08/10/22 19:38	120-82-1	
1,1,1-Trichloroethane	**0.00069J**	mg/L	0.0010	0.00030	1		08/10/22 19:38	71-55-6	
1,1,2-Trichloroethane	**<0.00034**	mg/L	0.0050	0.00034	1		08/10/22 19:38	79-00-5	
Trichloroethene	**<0.00032**	mg/L	0.0010	0.00032	1		08/10/22 19:38	79-01-6	
Trichlorofluoromethane	**<0.00042**	mg/L	0.0010	0.00042	1		08/10/22 19:38	75-69-4	
1,2,3-Trichloropropane	**<0.00056**	mg/L	0.0050	0.00056	1		08/10/22 19:38	96-18-4	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		08/10/22 19:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.00036**	mg/L	0.0010	0.00036	1		08/10/22 19:38	108-67-8	
Vinyl chloride	**<0.00017**	mg/L	0.0010	0.00017	1		08/10/22 19:38	75-01-4	
m&p-Xylene	**<0.00070**	mg/L	0.0020	0.00070	1		08/10/22 19:38	179601-23-1	
o-Xylene	**<0.00035**	mg/L	0.0010	0.00035	1		08/10/22 19:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/10/22 19:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		08/10/22 19:38	2199-69-1	
Toluene-d8 (S)	108	%	70-130		1		08/10/22 19:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

QC Batch: 423014
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40249502003

METHOD BLANK: 2436241 Matrix: Water
Associated Lab Samples: 40249502003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	<0.00036	0.0010	08/10/22 08:36	
1,1,1-Trichloroethane	mg/L	<0.00030	0.0010	08/10/22 08:36	
1,1,2,2-Tetrachloroethane	mg/L	<0.00038	0.0010	08/10/22 08:36	
1,1,2-Trichloroethane	mg/L	<0.00034	0.0050	08/10/22 08:36	
1,1-Dichloroethane	mg/L	<0.00030	0.0010	08/10/22 08:36	
1,1-Dichloroethene	mg/L	<0.00058	0.0010	08/10/22 08:36	
1,1-Dichloropropene	mg/L	<0.00041	0.0010	08/10/22 08:36	
1,2,3-Trichlorobenzene	mg/L	<0.0010	0.0050	08/10/22 08:36	
1,2,3-Trichloropropane	mg/L	<0.00056	0.0050	08/10/22 08:36	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.0050	08/10/22 08:36	
1,2,4-Trimethylbenzene	mg/L	<0.00045	0.0010	08/10/22 08:36	
1,2-Dibromo-3-chloropropane	mg/L	<0.0024	0.0050	08/10/22 08:36	
1,2-Dibromoethane (EDB)	mg/L	<0.00031	0.0010	08/10/22 08:36	
1,2-Dichlorobenzene	mg/L	<0.00033	0.0010	08/10/22 08:36	
1,2-Dichloroethane	mg/L	<0.00029	0.0010	08/10/22 08:36	
1,2-Dichloropropane	mg/L	<0.00045	0.0010	08/10/22 08:36	
1,3,5-Trimethylbenzene	mg/L	<0.00036	0.0010	08/10/22 08:36	
1,3-Dichlorobenzene	mg/L	<0.00035	0.0010	08/10/22 08:36	
1,3-Dichloropropane	mg/L	<0.00030	0.0010	08/10/22 08:36	
1,4-Dichlorobenzene	mg/L	<0.00089	0.0010	08/10/22 08:36	
2,2-Dichloropropane	mg/L	<0.0042	0.0050	08/10/22 08:36	
2-Chlorotoluene	mg/L	<0.00089	0.0050	08/10/22 08:36	
4-Chlorotoluene	mg/L	<0.00089	0.0050	08/10/22 08:36	
Benzene	mg/L	<0.00030	0.0010	08/10/22 08:36	
Bromobenzene	mg/L	<0.00036	0.0010	08/10/22 08:36	
Bromochloromethane	mg/L	<0.00036	0.0050	08/10/22 08:36	
Bromodichloromethane	mg/L	<0.00042	0.0010	08/10/22 08:36	
Bromoform	mg/L	<0.0038	0.0050	08/10/22 08:36	
Bromomethane	mg/L	<0.0012	0.0050	08/10/22 08:36	
Carbon tetrachloride	mg/L	<0.00037	0.0010	08/10/22 08:36	
Chlorobenzene	mg/L	<0.00086	0.0010	08/10/22 08:36	
Chloroethane	mg/L	<0.0014	0.0050	08/10/22 08:36	
Chloroform	mg/L	<0.0012	0.0050	08/10/22 08:36	
Chloromethane	mg/L	<0.0016	0.0050	08/10/22 08:36	
cis-1,2-Dichloroethene	mg/L	<0.00047	0.0010	08/10/22 08:36	
cis-1,3-Dichloropropene	mg/L	<0.00036	0.0010	08/10/22 08:36	
Dibromochloromethane	mg/L	<0.0026	0.0050	08/10/22 08:36	
Dibromomethane	mg/L	<0.00099	0.0050	08/10/22 08:36	
Dichlorodifluoromethane	mg/L	<0.00046	0.0050	08/10/22 08:36	
Diisopropyl ether	mg/L	<0.0011	0.0050	08/10/22 08:36	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

METHOD BLANK: 2436241 Matrix: Water
Associated Lab Samples: 40249502003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/L	<0.00033	0.0010	08/10/22 08:36	
Hexachloro-1,3-butadiene	mg/L	<0.0027	0.0050	08/10/22 08:36	
Isopropylbenzene (Cumene)	mg/L	<0.0010	0.0050	08/10/22 08:36	
m&p-Xylene	mg/L	<0.00070	0.0020	08/10/22 08:36	
Methyl-tert-butyl ether	mg/L	<0.0011	0.0050	08/10/22 08:36	
Methylene Chloride	mg/L	<0.00032	0.0050	08/10/22 08:36	
n-Butylbenzene	mg/L	<0.00086	0.0010	08/10/22 08:36	
n-Propylbenzene	mg/L	<0.00035	0.0010	08/10/22 08:36	
Naphthalene	mg/L	<0.0011	0.0050	08/10/22 08:36	
o-Xylene	mg/L	<0.00035	0.0010	08/10/22 08:36	
p-Isopropyltoluene	mg/L	<0.0010	0.0050	08/10/22 08:36	
sec-Butylbenzene	mg/L	<0.00042	0.0010	08/10/22 08:36	
Styrene	mg/L	<0.00036	0.0010	08/10/22 08:36	
tert-Butylbenzene	mg/L	<0.00059	0.0010	08/10/22 08:36	
Tetrachloroethene	mg/L	<0.00041	0.0010	08/10/22 08:36	
Toluene	mg/L	<0.00029	0.0010	08/10/22 08:36	
trans-1,2-Dichloroethene	mg/L	<0.00053	0.0010	08/10/22 08:36	
trans-1,3-Dichloropropene	mg/L	<0.0035	0.0050	08/10/22 08:36	
Trichloroethene	mg/L	<0.00032	0.0010	08/10/22 08:36	
Trichlorofluoromethane	mg/L	<0.00042	0.0010	08/10/22 08:36	
Vinyl chloride	mg/L	<0.00017	0.0010	08/10/22 08:36	
1,2-Dichlorobenzene-d4 (S)	%	97	70-130	08/10/22 08:36	
4-Bromofluorobenzene (S)	%	101	70-130	08/10/22 08:36	
Toluene-d8 (S)	%	107	70-130	08/10/22 08:36	

LABORATORY CONTROL SAMPLE: 2436242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.05	0.056	111	70-134	
1,1,2,2-Tetrachloroethane	mg/L	0.05	0.045	90	69-130	
1,1,2-Trichloroethane	mg/L	0.05	0.048	96	70-130	
1,1-Dichloroethane	mg/L	0.05	0.050	100	70-130	
1,1-Dichloroethene	mg/L	0.05	0.055	111	74-131	
1,2,4-Trichlorobenzene	mg/L	0.05	0.046	92	68-130	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.043	87	64-137	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.048	96	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.048	97	70-130	
1,2-Dichloroethane	mg/L	0.05	0.053	107	70-137	
1,2-Dichloropropane	mg/L	0.05	0.045	91	80-121	
1,3-Dichlorobenzene	mg/L	0.05	0.050	99	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.046	92	70-130	
Benzene	mg/L	0.05	0.051	101	70-130	
Bromodichloromethane	mg/L	0.05	0.051	103	70-130	
Bromoform	mg/L	0.05	0.051	102	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

LABORATORY CONTROL SAMPLE: 2436242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/L	0.05	0.040	79	21-147	
Carbon tetrachloride	mg/L	0.05	0.059	117	80-146	
Chlorobenzene	mg/L	0.05	0.050	101	70-130	
Chloroethane	mg/L	0.05	0.051	103	52-165	
Chloroform	mg/L	0.05	0.055	110	80-123	
Chloromethane	mg/L	0.05	0.042	84	51-122	
cis-1,2-Dichloroethene	mg/L	0.05	0.049	99	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.050	99	70-130	
Dibromochloromethane	mg/L	0.05	0.050	101	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.035	70	25-121	
Ethylbenzene	mg/L	0.05	0.053	105	80-120	
Isopropylbenzene (Cumene)	mg/L	0.05	0.051	103	70-130	
m&p-Xylene	mg/L	0.1	0.10	101	70-130	
Methyl-tert-butyl ether	mg/L	0.05	0.052	104	70-130	
Methylene Chloride	mg/L	0.05	0.054	109	70-130	
o-Xylene	mg/L	0.05	0.050	100	70-130	
Styrene	mg/L	0.05	0.051	102	70-130	
Tetrachloroethene	mg/L	0.05	0.049	97	70-130	
Toluene	mg/L	0.05	0.051	102	80-120	
trans-1,2-Dichloroethene	mg/L	0.05	0.053	106	70-130	
trans-1,3-Dichloropropene	mg/L	0.05	0.049	99	70-130	
Trichloroethene	mg/L	0.05	0.051	103	70-130	
Trichlorofluoromethane	mg/L	0.05	0.055	110	65-160	
Vinyl chloride	mg/L	0.05	0.049	97	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

QC Batch: 423350
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40249502001, 40249502002

METHOD BLANK: 2438429 Matrix: Water
Associated Lab Samples: 40249502001, 40249502002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/L	<0.000018	0.000050	08/12/22 18:28	
2-Methylnaphthalene	mg/L	<0.000014	0.000050	08/12/22 18:28	
Acenaphthene	mg/L	<0.000014	0.000050	08/12/22 18:28	
Acenaphthylene	mg/L	<0.000013	0.000050	08/12/22 18:28	
Anthracene	mg/L	<0.000018	0.000050	08/12/22 18:28	
Benzo(a)anthracene	mg/L	<0.000014	0.000050	08/12/22 18:28	
Benzo(a)pyrene	mg/L	<0.000013	0.000050	08/12/22 18:28	
Benzo(b)fluoranthene	mg/L	<0.0000091	0.000050	08/12/22 18:28	
Benzo(g,h,i)perylene	mg/L	<0.000023	0.000050	08/12/22 18:28	
Benzo(k)fluoranthene	mg/L	<0.000022	0.000050	08/12/22 18:28	
Chrysene	mg/L	<0.000013	0.000050	08/12/22 18:28	
Dibenz(a,h)anthracene	mg/L	<0.000018	0.000050	08/12/22 18:28	
Fluoranthene	mg/L	<0.000026	0.000050	08/12/22 18:28	
Fluorene	mg/L	<0.000024	0.000050	08/12/22 18:28	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000016	0.000050	08/12/22 18:28	
Naphthalene	mg/L	<0.000020	0.000050	08/12/22 18:28	
Phenanthrene	mg/L	<0.000026	0.000050	08/12/22 18:28	
Pyrene	mg/L	<0.000023	0.000050	08/12/22 18:28	
2-Fluorobiphenyl (S)	%	77	44-120	08/12/22 18:28	
Terphenyl-d14 (S)	%	84	49-120	08/12/22 18:28	

LABORATORY CONTROL SAMPLE: 2438430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/L	0.002	0.0016	81	51-120	
2-Methylnaphthalene	mg/L	0.002	0.0016	80	50-120	
Acenaphthene	mg/L	0.002	0.0016	82	65-120	
Acenaphthylene	mg/L	0.002	0.0016	81	61-120	
Anthracene	mg/L	0.002	0.0016	78	61-104	
Benzo(a)anthracene	mg/L	0.002	0.0016	79	51-96	
Benzo(a)pyrene	mg/L	0.002	0.0016	79	68-120	
Benzo(b)fluoranthene	mg/L	0.002	0.0016	78	55-97	
Benzo(g,h,i)perylene	mg/L	0.002	0.0017	84	69-120	
Benzo(k)fluoranthene	mg/L	0.002	0.0016	81	73-120	
Chrysene	mg/L	0.002	0.0017	83	72-126	
Dibenz(a,h)anthracene	mg/L	0.002	0.0018	90	57-115	
Fluoranthene	mg/L	0.002	0.0017	84	58-111	
Fluorene	mg/L	0.002	0.0016	82	62-120	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0017	86	66-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

LABORATORY CONTROL SAMPLE: 2438430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/L	0.002	0.0016	79	53-120	
Phenanthrene	mg/L	0.002	0.0016	82	59-120	
Pyrene	mg/L	0.002	0.0015	74	59-120	
2-Fluorobiphenyl (S)	%			83	44-120	
Terphenyl-d14 (S)	%			87	49-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2438432 2438433

Parameter	Units	40249534001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/L	<0.017 ug/L	0.0019	0.002	0.0014	0.0014	72	73	22-120	5	20	
2-Methylnaphthalene	mg/L	<0.013 ug/L	0.0019	0.002	0.0013	0.0014	71	72	18-120	5	20	
Acenaphthene	mg/L	<0.013 ug/L	0.0019	0.002	0.0014	0.0015	73	74	26-120	4	20	
Acenaphthylene	mg/L	<0.012 ug/L	0.0019	0.002	0.0014	0.0014	72	73	28-120	5	20	
Anthracene	mg/L	<0.017 ug/L	0.0019	0.002	0.0014	0.0015	72	74	19-124	6	20	
Benzo(a)anthracene	mg/L	<0.013 ug/L	0.0019	0.002	0.0014	0.0014	71	73	10-125	6	20	
Benzo(a)pyrene	mg/L	<0.012 ug/L	0.0019	0.002	0.0014	0.0015	72	75	11-134	8	20	
Benzo(b)fluoranthene	mg/L	<0.0085 ug/L	0.0019	0.002	0.0014	0.0015	73	74	10-118	5	20	
Benzo(g,h,i)perylene	mg/L	<0.022 ug/L	0.0019	0.002	0.0014	0.0015	76	78	10-135	6	20	
Benzo(k)fluoranthene	mg/L	<0.021 ug/L	0.0019	0.002	0.0014	0.0016	75	79	17-136	8	20	
Chrysene	mg/L	<0.012 ug/L	0.0019	0.002	0.0014	0.0015	76	77	27-144	5	20	
Dibenz(a,h)anthracene	mg/L	<0.017 ug/L	0.0019	0.002	0.0016	0.0017	82	84	10-142	6	20	
Fluoranthene	mg/L	<0.024 ug/L	0.0019	0.002	0.0015	0.0016	77	80	26-129	8	20	
Fluorene	mg/L	<0.022 ug/L	0.0019	0.002	0.0014	0.0015	75	76	27-120	5	20	
Indeno(1,2,3-cd)pyrene	mg/L	<0.014 ug/L	0.0019	0.002	0.0014	0.0015	76	78	10-134	7	20	
Naphthalene	mg/L	<0.019 ug/L	0.0019	0.002	0.0014	0.0014	71	72	11-120	5	20	
Phenanthrene	mg/L	<0.024 ug/L	0.0019	0.002	0.0014	0.0015	73	76	23-120	8	20	
Pyrene	mg/L	<0.021 ug/L	0.0019	0.002	0.0013	0.0014	69	72	24-120	7	20	
2-Fluorobiphenyl (S)	%						76	77	44-120			
Terphenyl-d14 (S)	%						78	80	49-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

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.

ANALYTE QUALIFIERS

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 S. MILWAUKEE
Pace Project No.: 40249502

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40249502001	**MW-3**	EPA 3510	423350	EPA 8270E by SIM	423367
40249502002	**MW-4**	EPA 3510	423350	EPA 8270E by SIM	423367
40249502003	**MW-5**	EPA 8260	423014		

L1024950 2

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

Pace Analytical®
www.pacelabs.com

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:	S. Milwaukee
Project State:	WI
Sampled By (Print):	Marcus Carpenter
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	00115035
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	mw-3	8/5/22	10:00	GW				X			
002	mw-4	"	12:20	"				X			
003	mw-5	"	1:20	"			X				

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

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

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Marcus Carpenter	8/8/22 12:10	Jake	8/8/22 12:10
Jake	8/8/22 5:00	CS Logistics	8/8/22 8:00
CS Logistics	8/9/22 0800		8/9/22 0800

PACE Project No.
L1024950

Receipt Temp = 3 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present / Intact / Not Intact

Version 6.0 06/14/06 NH 8/9/22

ORIGINAL

C019a(27Jun2006)

Sample Preservation Receipt Form

Client Name: DA1 Project # 40249502

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

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

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	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN						
001						2																										2.5 / 5 / 10
002						2																										2.5 / 5 / 10
003																	3															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				MA 8/9/22																												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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40249502

40249502

Client Name: DAI

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 Ziploc

Thermometer Used SR - 120 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice

Cooler Temperature Uncorr: 3 /Corr: 3

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 8/9/22 /Initials: mtt

Labeled By Initials: R

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:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. NO mail or invoice mtt 8/9/22
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☒No ☐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

Page 2 of 2

ENVIRONMENTAL

Environmental Engineers, Geologists and Scientists

Tel 847.573.8900
Fax 847.573.8953

Polo Park Business Center
27834 N. Irma Lee Circle
Lake Forest, Illinois 60045-5130

September 26, 2022

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 2022 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 2022 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 regard to this submission, please contact me at (847) 9963-3580. Thank you for your time.

Sincerely,
DAI Environmental, Inc.

Christopher Cailles

Christopher Cailles, P.E.
Project Engineer

Enclosure