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March 3, 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
(January 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 January 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

Christopher Cailles, P.E.
Project Engineer

Enclosure

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QUARTERLY GROUNDWATER SAMPLING REPORT (JANUARY 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

March 3, 2021

DAI Project Number: 6255

Prepared For:
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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 SW8270 by HVI.

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 first quarter 2021 groundwater sampling event. The static water level elevations were collected from all monitoring wells on January 18, 2021. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that at certain well locations the groundwater elevations are higher than were observed in October 2020 and at other locations the groundwater elevations were lower. In general, monitoring wells MW-1 through MW-4 indicate the highest quarterly variability, while MW-5 and MW-201 fluctuate less between quarters. 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 is generally consistent. The groundwater flow direction along the southern half of the Site remains northwesterly, and a north-northeasterly groundwater flow direction is indicated along the northern half of the Site. The potentiometric surface map generated from the January 2021 data is included as Figure B.3.c.16 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the first quarter 2021 (i.e., January-March 2021) were collected on January 18, 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 first 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 January 2021 sampling indicate a Perc concentration in MW-5 of 0.01-mg/L. Evaluating the data more broadly, the observed Perc concentrations have been generally consistent each quarter since September 2019 (sampling following the second chemical injection) and can be considered stable. 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 concentration from January 2021 of <0.00026-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 is 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 January 2021 remain above the Enforcement Standards, although the results continue to be stable, with concentrations nearly identical to those observed during the quarterly sampling events of May, July, and October 2020. 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.

Similar to the results from MW-3, the Benzo(b)fluoranthene and Chrysene concentrations in MW-4 (installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST) are also above the Enforcement Standards in January 2021, but have decreased for the fourth consecutive quarter. In January 2021 the Benzo(a)pyrene concentration decreased to a level below the Enforcement Standard (but still above the PAL). The Naphthalene groundwater concentration also declined, and 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 the most recent sampling of January 2021 indicate relatively stable Perc concentrations in MW-5.
- During the second quarter sampling event, MW-3 and MW-5 will be evaluated for emerging contaminants as proposed in the *Emerging Contaminant Evaluation Work Plan* dated January 25, 2021, (and approved by WDNR in an email dated January 29, 2021.) Any further sampling beyond the second quarter 2021 will be determined based upon the results obtained in April 2021.
- 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, as do the Benzo(b)fluoranthene and Chrysene concentrations in MW-4. The Benzo(a)pyrene concentration in MW-4 decreased to a level below the Enforcement Standard (but still above the PAL). PAH concentrations observed in MW-3 in January 2020 are nearly identical to results of both the May and July 2020 sampling events. Concentrations in MW-4 have declined for the fourth consecutive quarter. 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	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)

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 SW8270SIM
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 SW8270SIM

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)		
Acenaphthene	0.000013 (J)	0.000026	0.00022	0.0028	NL	NL
Acenaphthylene	0.00002 (J)	0.00034	0.000075	0.000096	NL	NL
Anthracene	0.000086	0.00016	0.00016	0.00033	0.6	3
Benzo(a)anthracene	0.00066	0.00057	0.00076	0.0014	NL	NL
Benzo(a)pyrene	**0.0011**	**0.0012**	**0.0013**	**0.0024**	0.00002	0.0002
Benzo(b)fluoranthene	**0.0023**	**0.0022**	**0.0027**	**0.005**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0015	0.0017	0.0017	0.0032	NL	NL
Benzo(k)fluoranthene	0.00078	0.00092	0.0009	0.0016	NL	NL
Chrysene	**0.0012**	**0.0014**	**0.0015**	**0.0028**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.00026	0.00027	0.00027	0.00058	NL	NL
Fluoranthene	0.0018	0.0028	0.0024	0.0045	0.08	0.4
Fluorene	0.000014 (J)	0.00004	0.00025	0.00018	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0012	0.0014	0.0013	0.0025	NL	NL
1-Methylnaphthalene	<0.0000057	0.000024	0.00027	0.00016	NL	NL
2-Methylnaphthalene	<0.0000048	0.000015	0.000091	0.00002 (J)	NL	NL
Naphthalene	<0.000018	0.00003	0.0001	0.00013	0.017	0.1
Phenanthrene	0.00046	0.00038	0.00086	0.0012	NL	NL
Pyrene	0.0015	0.0016	0.0021	0.0041	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 SW8270SIM

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)	**<0.00049**	**<0.0002**	<0.0000095	0.00002	0.0002
Benzo(b)fluoranthene	0.0000093 (J)	**0.000043 (J)**	0.000014 (J)	**<0.00027**	**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 SW8270SIM
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 SW8270SIM

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)		
Acenaphthene	0.0357	0.097	0.047	0.016	0.012	NL	NL
Acenaphthylene	0.0114	0.029	0.011	0.0033	0.003	NL	NL
Anthracene	0.0063	0.014	0.017	0.0057	0.0056	0.6	3
Benzo(a)anthracene	0.0036	0.0016 (J)	0.0014	0.00062 (J)	0.00029 (J)	NL	NL
Benzo(a)pyrene	**0.0031**	**0.0012 (J)**	**0.00046 (J)**	**0.00029 (J)**	**0.00013 (J)**	0.00002	0.0002
Benzo(b)fluoranthene	**0.0056**	**0.0032**	**0.00098**	**0.00065**	**0.00029**	0.00002	0.0002
Benzo(g,h,i)perylene	0.0032	0.0019	0.00054	0.00035 (J)	0.00016 (J)	NL	NL
Benzo(k)fluoranthene	0.0022	0.00089 (J)	0.00055	0.0003 (J)	0.000096 (J)	NL	NL
Chrysene	**0.0074**	**0.005**	**0.0038**	**0.0015**	**0.00082**	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000061 (J)	<0.00048	<0.00018	<0.00018	<0.00009	NL	NL
Fluoranthene	0.0128	0.015	0.008	0.0026	0.0016	0.08	0.4
Fluorene	0.0576	**0.15**	0.055	0.017	0.014	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0025	0.00096 (J)	0.00036 (J)	<0.00032	<0.00016	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	0.017	0.1
Phenanthrene	0.0992	0.26	0.082	0.026	0.022	NL	NL
Pyrene	0.0344	0.049	0.028	0.01	0.0067	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 SW8270SIM

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

Sample Location	Sample Date	Tetrachloroethene
Sump	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

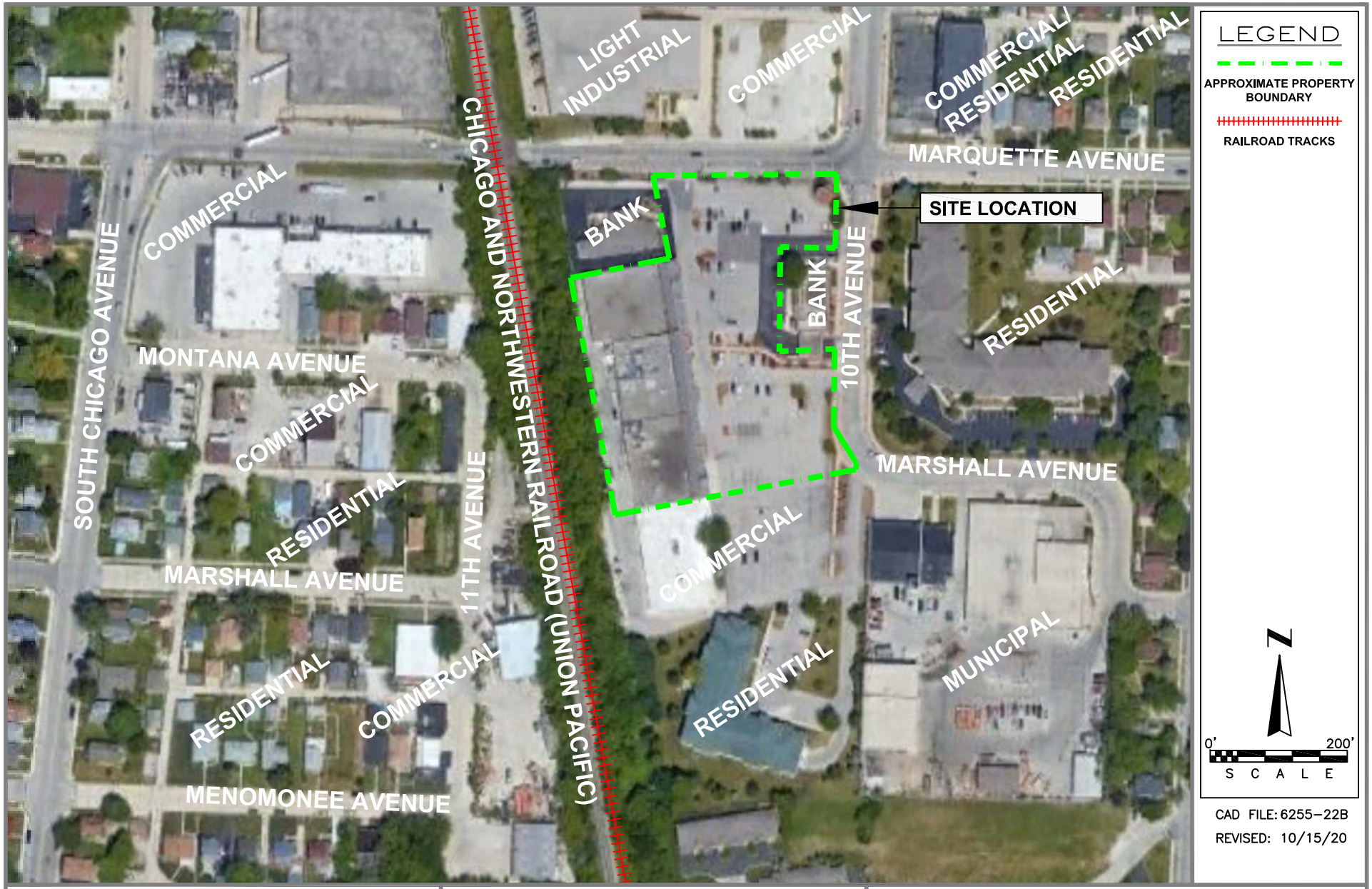
Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-1	99.13	01/18/21	3.34	14.49	95.79
		10/12/20	Obstructed		--
		07/14/20	1.79		97.34
		05/05/20	1.80		97.33
		01/17/20	2.74		96.39
		10/24/19	3.07		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	01/18/21	8.12	14.41	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
MW-3	100.05	01/18/21	4.50	14.46	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

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-4	100.57	01/18/21	6.51	14.57	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
MW-5	100.24	01/18/21	5.90	14.60	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	01/18/21	8.24	14.57	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.

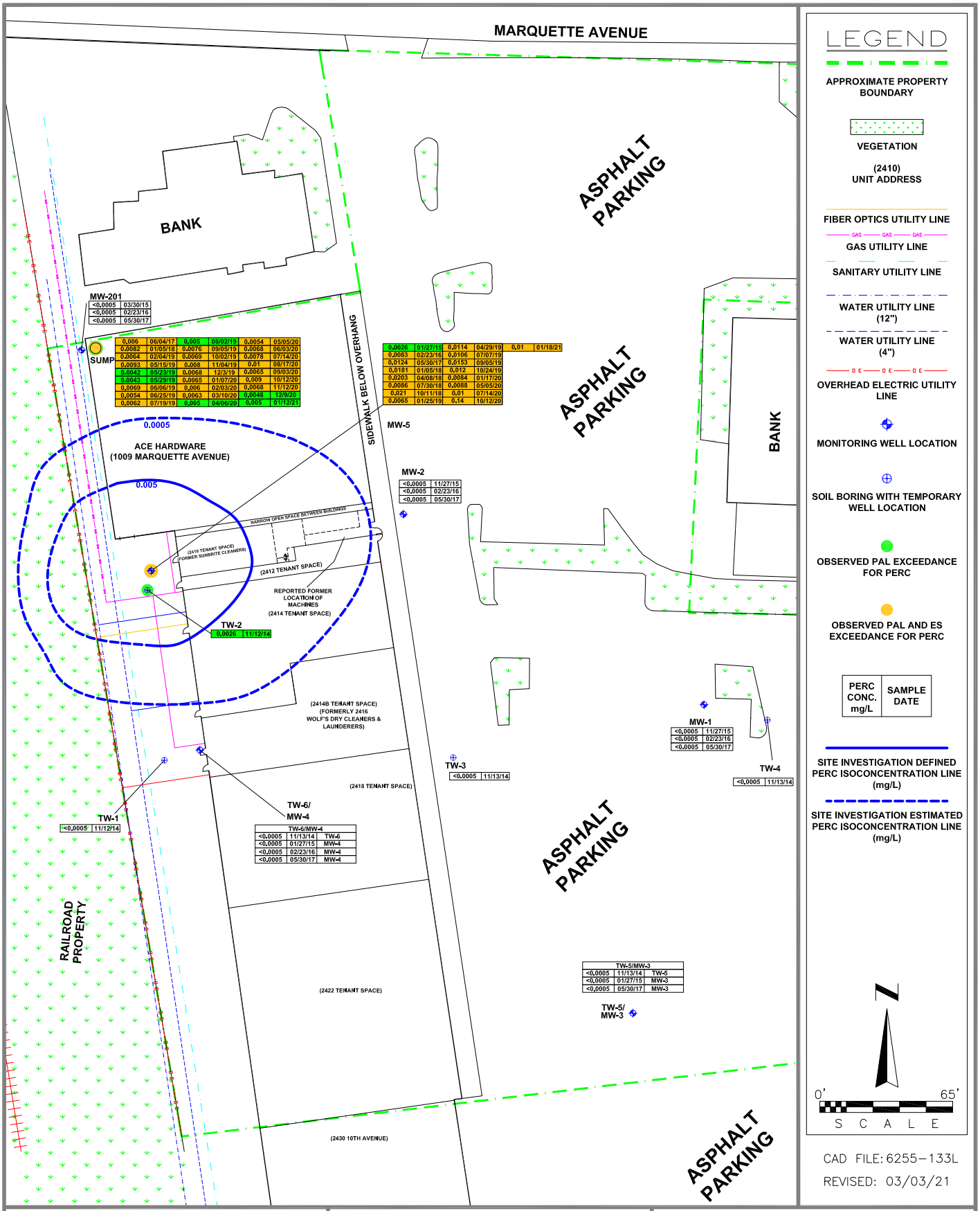
APPENDIX B
FIGURES



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

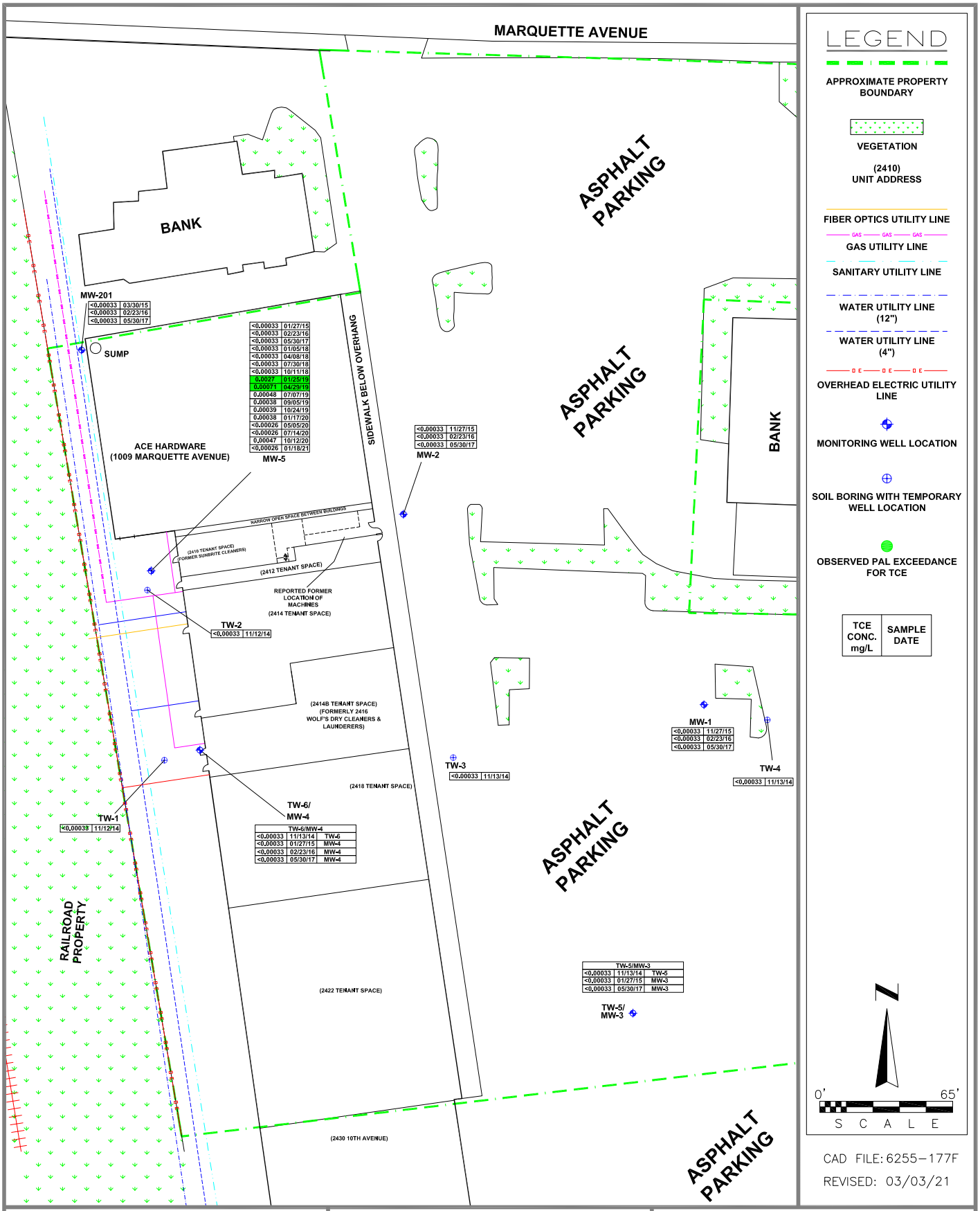
CAD FILE: 6255-133L

REVISED: 03/03/21

DAI 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

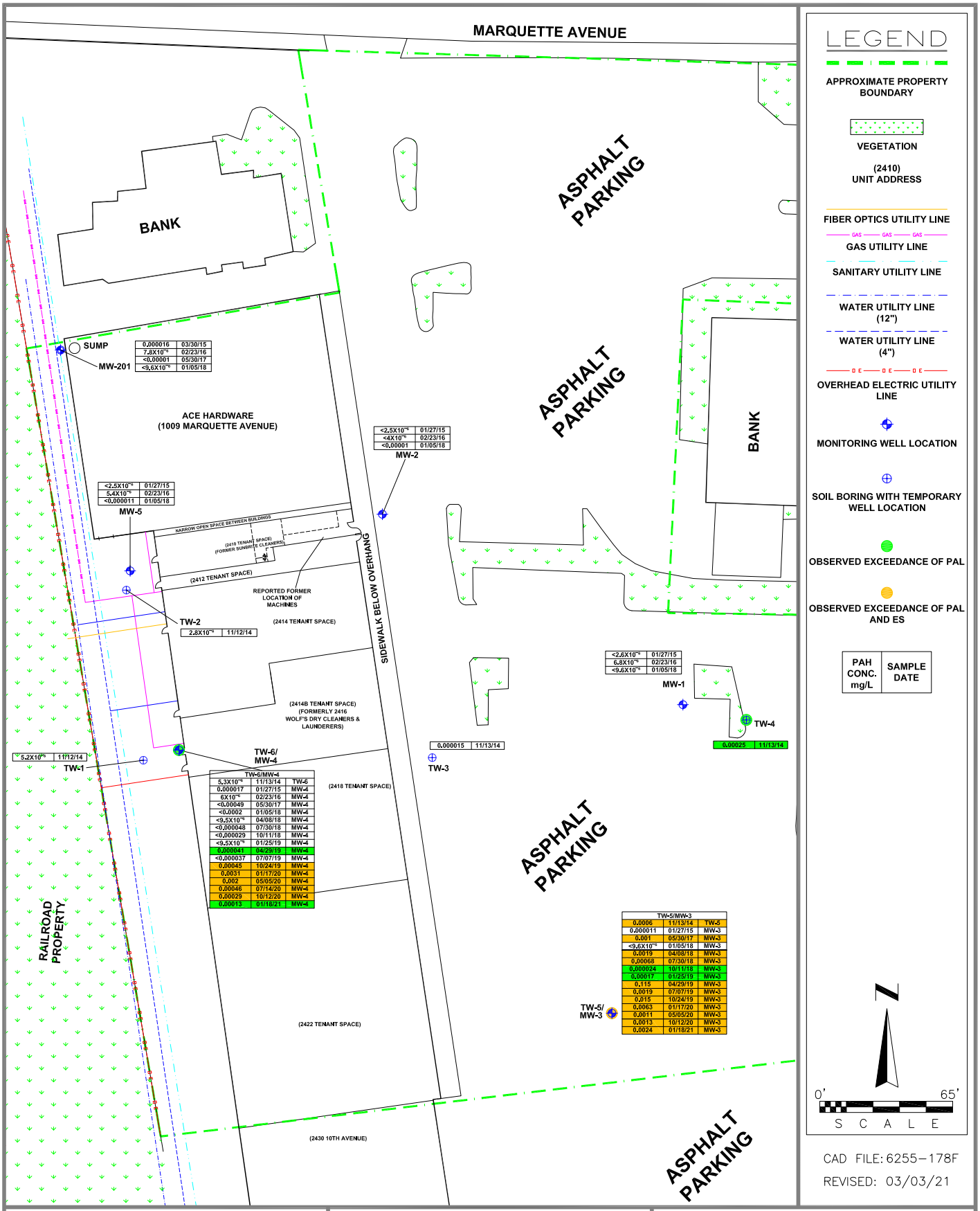
CAD FILE: 6255-177F

REVISED: 03/03/21

DAI ENVIRONMENTAL

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

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



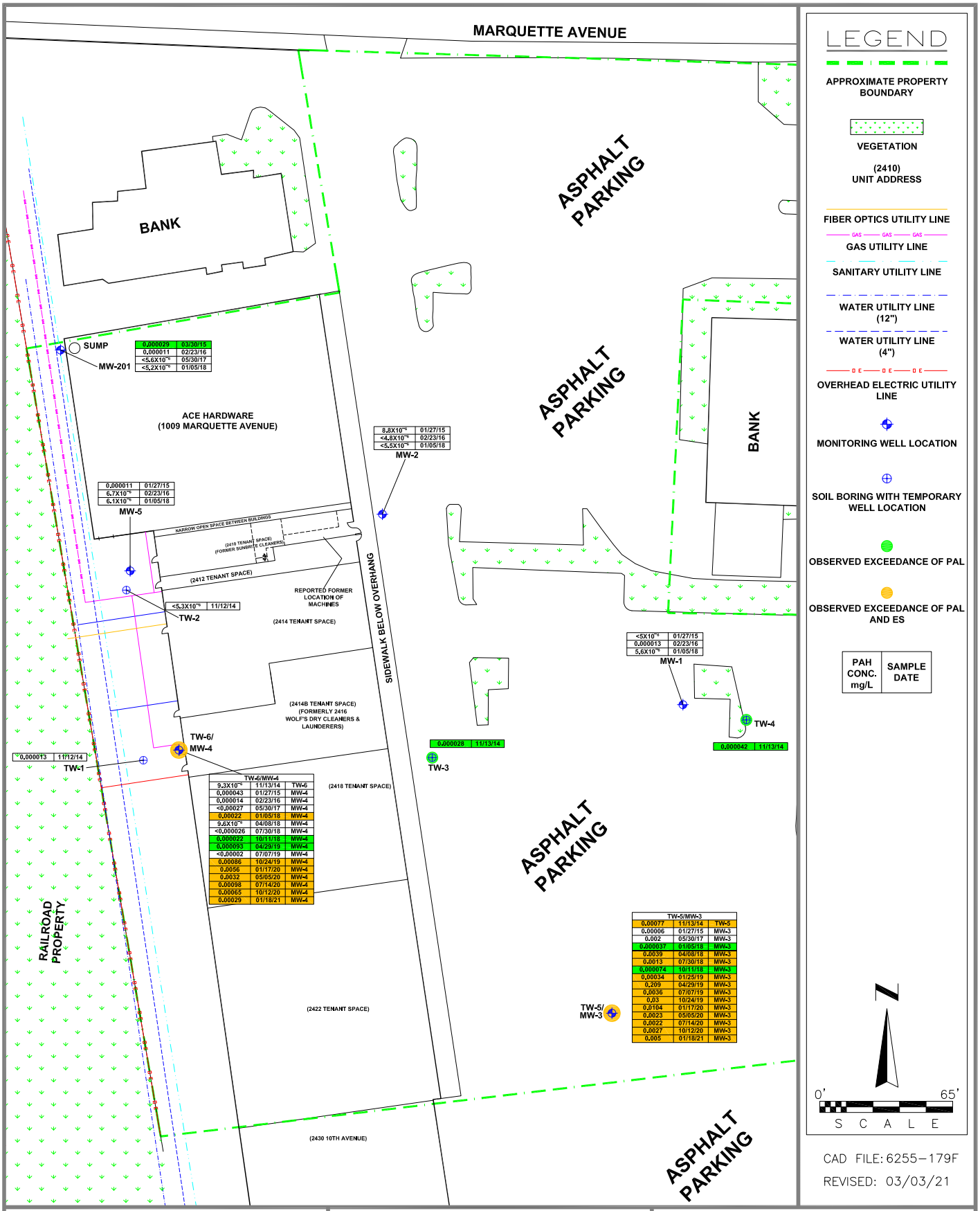
CAD FILE: 6255-178F

REVISED: 03/03/21

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)



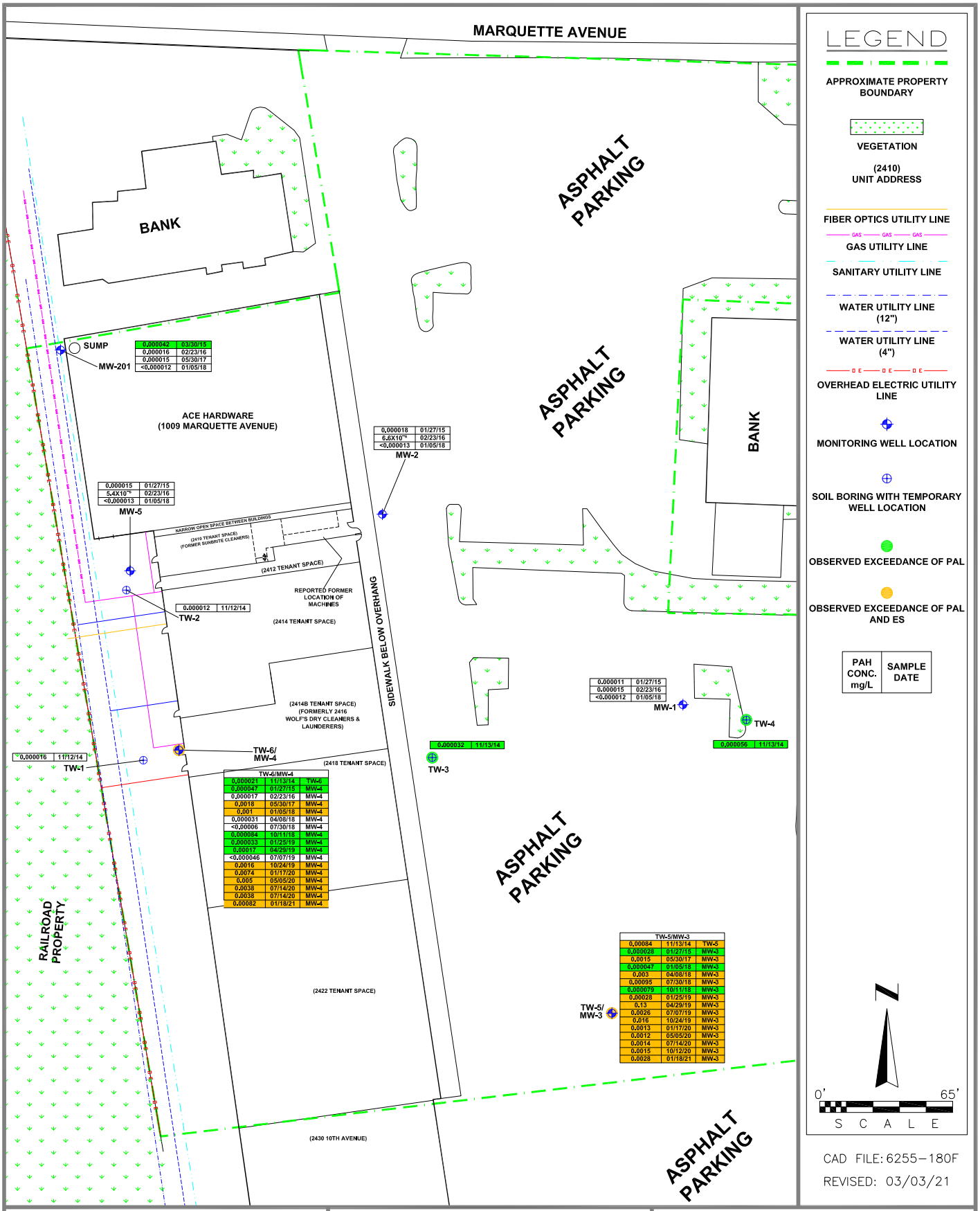
CAD FILE: 6255-179F

REVISED: 03/03/21

DAI ENVIRONMENTAL

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

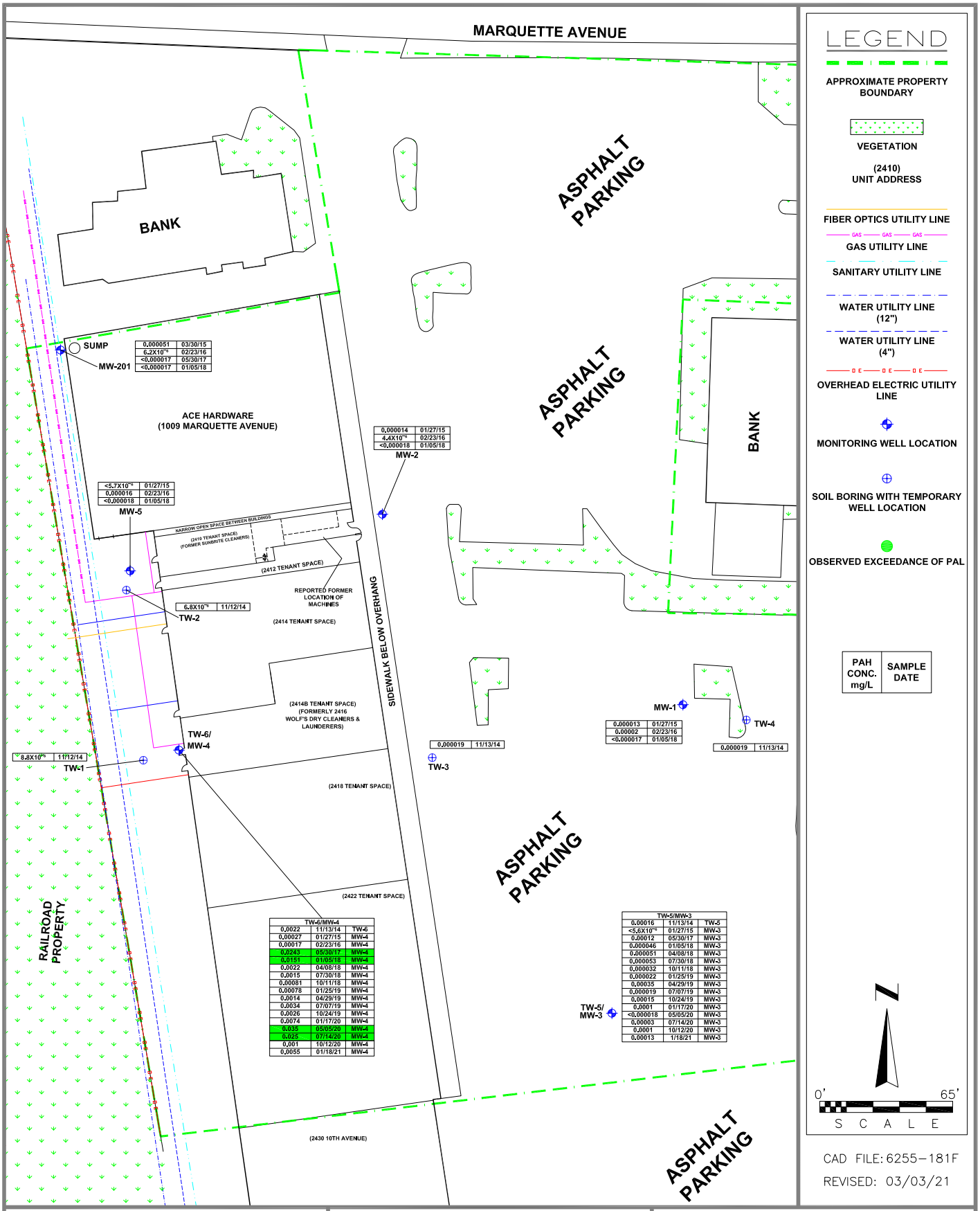
FIGURE B.3.b.2b
GROUNDWATER ISOCONCENTRATION (BENZO(B)FLUORANTHENE)



DAI ENVIRONMENTAL

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

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



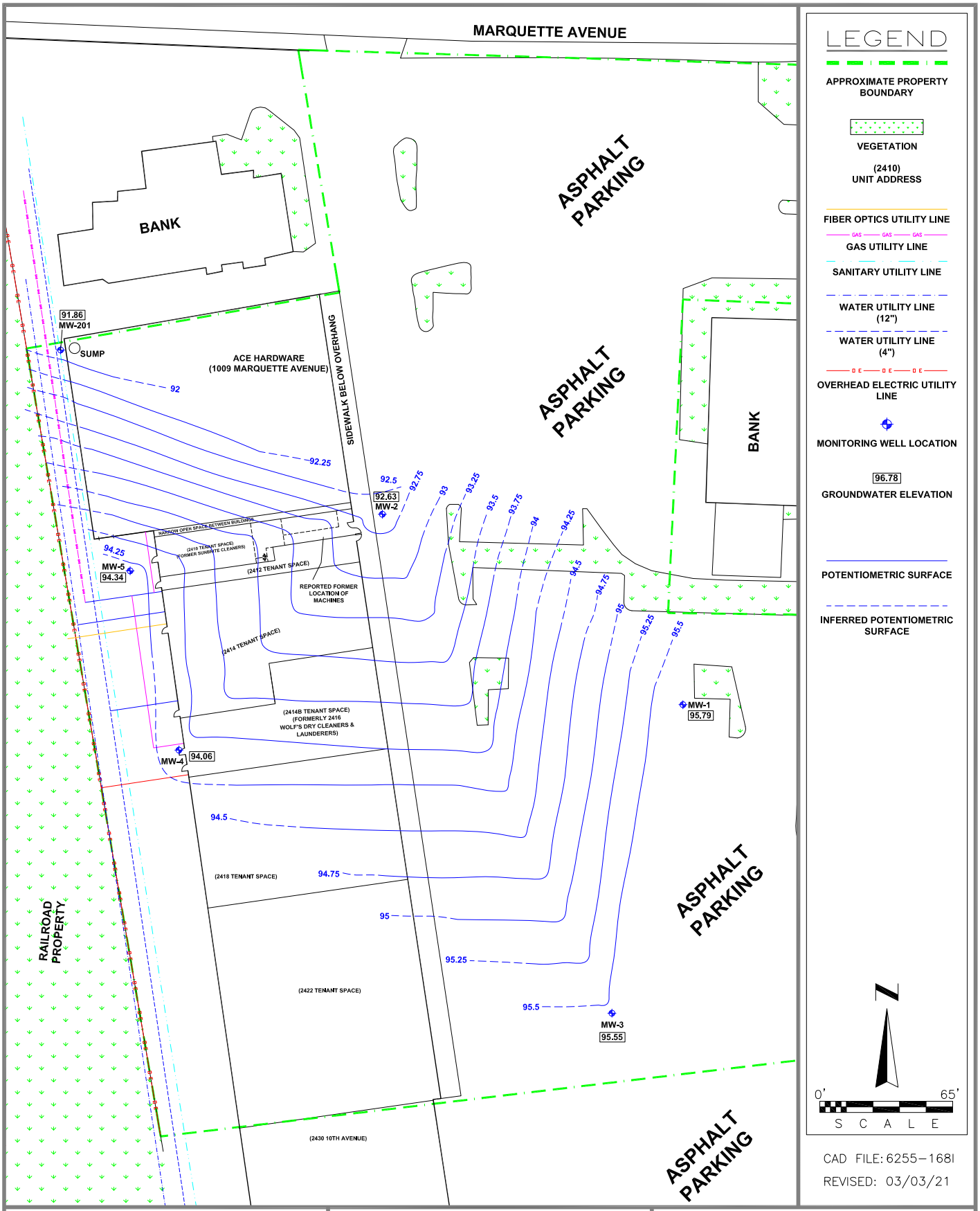
CAD FILE: 6255-181F

REVISED: 03/03/21

DAI ENVIRONMENTAL

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

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

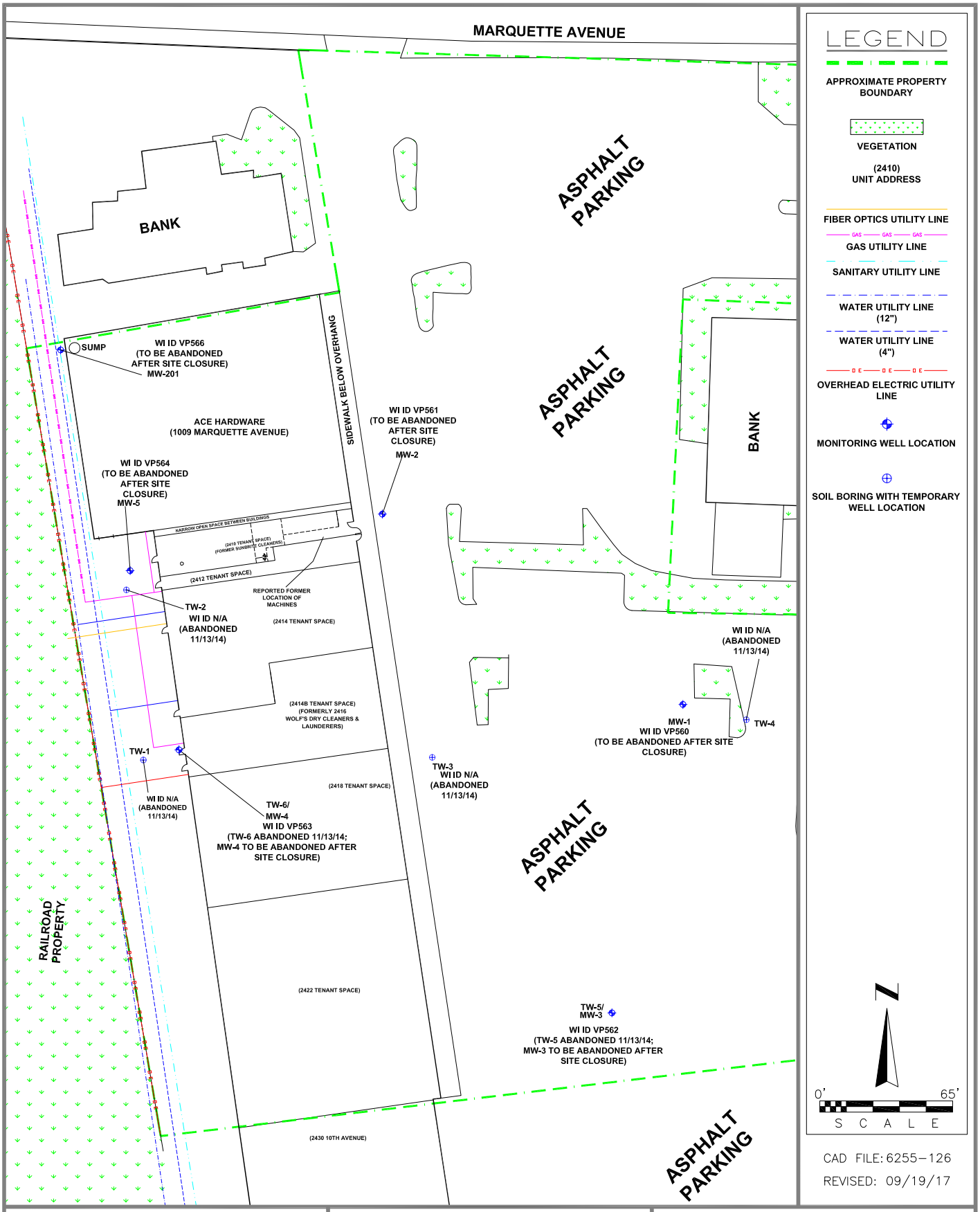


CAD FILE: 6255-168I
REVISED: 03/03/21

DAI ENVIRONMENTAL

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

FIGURE B.3.c.16
GROUNDWATER FLOW DIRECTION
(JANUARY 18, 2021)



CAD FILE: 6255-126

REVISED: 09/19/17

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 REPORTS
(FIRST QUARTER 2021)

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

January 26, 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.: 40221204

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 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,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@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
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CERTIFICATIONS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40221204001	**MW-3**	Water	01/18/21 11:20	01/20/21 09:00
40221204002	**MW-4**	Water	01/18/21 11:45	01/20/21 09:00
40221204003	**MW-5**	Water	01/18/21 12:15	01/20/21 09:00

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40221204001	**MW-3**	EPA 8270E by SIM	JJB	20
40221204002	**MW-4**	EPA 8270E by SIM	JJB	20
40221204003	**MW-5**	EPA 8260	HNW	64

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40221204001	**MW-3**					
EPA 8270E by SIM	Acenaphthene	0.00028	mg/L	0.000027	01/25/21 11:55	
EPA 8270E by SIM	Acenaphthylene	0.000096	mg/L	0.000022	01/25/21 11:55	
EPA 8270E by SIM	Anthracene	0.00033	mg/L	0.000047	01/25/21 11:55	
EPA 8270E by SIM	Benzo(a)anthracene	0.0014	mg/L	0.000034	01/25/21 11:55	
EPA 8270E by SIM	Benzo(a)pyrene	0.0024	mg/L	0.000047	01/25/21 11:55	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.0050	mg/L	0.000026	01/25/21 11:55	L1
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.0032	mg/L	0.000031	01/25/21 11:55	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.0016	mg/L	0.000034	01/25/21 11:55	
EPA 8270E by SIM	Chrysene	0.0028	mg/L	0.000059	01/25/21 11:55	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.00058	mg/L	0.000045	01/25/21 11:55	
EPA 8270E by SIM	Fluoranthene	0.0045	mg/L	0.000048	01/25/21 11:55	
EPA 8270E by SIM	Fluorene	0.00018	mg/L	0.000036	01/25/21 11:55	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.0025	mg/L	0.000079	01/25/21 11:55	
EPA 8270E by SIM	1-Methylnaphthalene	0.00016	mg/L	0.000027	01/25/21 11:55	
EPA 8270E by SIM	2-Methylnaphthalene	0.000020J	mg/L	0.000022	01/25/21 11:55	
EPA 8270E by SIM	Naphthalene	0.00013	mg/L	0.000083	01/25/21 11:55	
EPA 8270E by SIM	Phenanthrene	0.0012	mg/L	0.000062	01/25/21 11:55	
EPA 8270E by SIM	Pyrene	0.0041	mg/L	0.000034	01/25/21 11:55	
40221204002	**MW-4**					
EPA 8270E by SIM	Acenaphthene	0.012	mg/L	0.00027	01/25/21 12:14	
EPA 8270E by SIM	Acenaphthylene	0.0030	mg/L	0.00022	01/25/21 12:14	
EPA 8270E by SIM	Anthracene	0.0056	mg/L	0.00047	01/25/21 12:14	
EPA 8270E by SIM	Benzo(a)anthracene	0.00029J	mg/L	0.00034	01/25/21 12:14	B
EPA 8270E by SIM	Benzo(a)pyrene	0.00013J	mg/L	0.00047	01/25/21 12:14	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.00029	mg/L	0.00026	01/25/21 12:14	B,L1
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.00016J	mg/L	0.00031	01/25/21 12:14	B
EPA 8270E by SIM	Benzo(k)fluoranthene	0.000096J	mg/L	0.00034	01/25/21 12:14	B
EPA 8270E by SIM	Chrysene	0.00082	mg/L	0.00059	01/25/21 12:14	B
EPA 8270E by SIM	Fluoranthene	0.0016	mg/L	0.00048	01/25/21 12:14	
EPA 8270E by SIM	Fluorene	0.014	mg/L	0.00036	01/25/21 12:14	
EPA 8270E by SIM	1-Methylnaphthalene	0.021	mg/L	0.00027	01/25/21 12:14	
EPA 8270E by SIM	2-Methylnaphthalene	0.00052	mg/L	0.00022	01/25/21 12:14	
EPA 8270E by SIM	Naphthalene	0.0055	mg/L	0.00083	01/25/21 12:14	
EPA 8270E by SIM	Phenanthrene	0.022	mg/L	0.00062	01/25/21 12:14	
EPA 8270E by SIM	Pyrene	0.0067	mg/L	0.00034	01/25/21 12:14	
40221204003	**MW-5**					
EPA 8260	Tetrachloroethene	0.010	mg/L	0.0011	01/21/21 16:10	
EPA 8260	1,1,1-Trichloroethane	0.00032J	mg/L	0.0010	01/21/21 16:10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Sample: MW-3 **Lab ID: 40221204001** Collected: 01/18/21 11:20 Received: 01/20/21 09:00 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	**0.00028**	mg/L	0.000027	0.0000055	1	01/22/21 09:44	01/25/21 11:55	83-32-9	
Acenaphthylene	**0.000096**	mg/L	0.000022	0.0000045	1	01/22/21 09:44	01/25/21 11:55	208-96-8	
Anthracene	**0.00033**	mg/L	0.000047	0.0000094	1	01/22/21 09:44	01/25/21 11:55	120-12-7	
Benzo(a)anthracene	**0.0014**	mg/L	0.000034	0.0000068	1	01/22/21 09:44	01/25/21 11:55	56-55-3	
Benzo(a)pyrene	**0.0024**	mg/L	0.000047	0.0000095	1	01/22/21 09:44	01/25/21 11:55	50-32-8	
Benzo(b)fluoranthene	**0.0050**	mg/L	0.000026	0.0000052	1	01/22/21 09:44	01/25/21 11:55	205-99-2	L1
Benzo(g,h,i)perylene	**0.0032**	mg/L	0.000031	0.0000061	1	01/22/21 09:44	01/25/21 11:55	191-24-2	
Benzo(k)fluoranthene	**0.0016**	mg/L	0.000034	0.0000068	1	01/22/21 09:44	01/25/21 11:55	207-08-9	
Chrysene	**0.0028**	mg/L	0.000059	0.000012	1	01/22/21 09:44	01/25/21 11:55	218-01-9	
Dibenz(a,h)anthracene	**0.00058**	mg/L	0.000045	0.0000090	1	01/22/21 09:44	01/25/21 11:55	53-70-3	
Fluoranthene	**0.0045**	mg/L	0.000048	0.0000096	1	01/22/21 09:44	01/25/21 11:55	206-44-0	
Fluorene	**0.00018**	mg/L	0.000036	0.0000072	1	01/22/21 09:44	01/25/21 11:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0025**	mg/L	0.000079	0.000016	1	01/22/21 09:44	01/25/21 11:55	193-39-5	
1-Methylnaphthalene	**0.00016**	mg/L	0.000027	0.0000053	1	01/22/21 09:44	01/25/21 11:55	90-12-0	
2-Methylnaphthalene	**0.000020J**	mg/L	0.000022	0.0000044	1	01/22/21 09:44	01/25/21 11:55	91-57-6	
Naphthalene	**0.00013**	mg/L	0.000083	0.000017	1	01/22/21 09:44	01/25/21 11:55	91-20-3	
Phenanthrene	**0.0012**	mg/L	0.000062	0.000012	1	01/22/21 09:44	01/25/21 11:55	85-01-8	
Pyrene	**0.0041**	mg/L	0.000034	0.0000069	1	01/22/21 09:44	01/25/21 11:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		1	01/22/21 09:44	01/25/21 11:55	321-60-8	
Terphenyl-d14 (S)	32	%	10-159		1	01/22/21 09:44	01/25/21 11:55	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Sample: MW-4 **Lab ID: 40221204002** Collected: 01/18/21 11:45 Received: 01/20/21 09:00 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	**0.012**	mg/L	0.00027	0.000055	10	01/22/21 09:44	01/25/21 12:14	83-32-9	
Acenaphthylene	**0.0030**	mg/L	0.00022	0.000045	10	01/22/21 09:44	01/25/21 12:14	208-96-8	
Anthracene	**0.0056**	mg/L	0.00047	0.000094	10	01/22/21 09:44	01/25/21 12:14	120-12-7	
Benzo(a)anthracene	**0.00029J**	mg/L	0.00034	0.000068	10	01/22/21 09:44	01/25/21 12:14	56-55-3	B
Benzo(a)pyrene	**0.00013J**	mg/L	0.00047	0.000095	10	01/22/21 09:44	01/25/21 12:14	50-32-8	
Benzo(b)fluoranthene	**0.00029**	mg/L	0.00026	0.000052	10	01/22/21 09:44	01/25/21 12:14	205-99-2	B,L1
Benzo(g,h,i)perylene	**0.00016J**	mg/L	0.00031	0.000061	10	01/22/21 09:44	01/25/21 12:14	191-24-2	B
Benzo(k)fluoranthene	**0.000096J**	mg/L	0.00034	0.000068	10	01/22/21 09:44	01/25/21 12:14	207-08-9	B
Chrysene	**0.00082**	mg/L	0.00059	0.00012	10	01/22/21 09:44	01/25/21 12:14	218-01-9	B
Dibenz(a,h)anthracene	**<0.000090**	mg/L	0.00045	0.000090	10	01/22/21 09:44	01/25/21 12:14	53-70-3	
Fluoranthene	**0.0016**	mg/L	0.00048	0.000096	10	01/22/21 09:44	01/25/21 12:14	206-44-0	
Fluorene	**0.014**	mg/L	0.00036	0.000072	10	01/22/21 09:44	01/25/21 12:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00016**	mg/L	0.00079	0.00016	10	01/22/21 09:44	01/25/21 12:14	193-39-5	
1-Methylnaphthalene	**0.021**	mg/L	0.00027	0.000053	10	01/22/21 09:44	01/25/21 12:14	90-12-0	
2-Methylnaphthalene	**0.00052**	mg/L	0.00022	0.000044	10	01/22/21 09:44	01/25/21 12:14	91-57-6	
Naphthalene	**0.0055**	mg/L	0.00083	0.00017	10	01/22/21 09:44	01/25/21 12:14	91-20-3	
Phenanthrene	**0.022**	mg/L	0.00062	0.00012	10	01/22/21 09:44	01/25/21 12:14	85-01-8	
Pyrene	**0.0067**	mg/L	0.00034	0.000069	10	01/22/21 09:44	01/25/21 12:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	39-120		10	01/22/21 09:44	01/25/21 12:14	321-60-8	
Terphenyl-d14 (S)	34	%	10-159		10	01/22/21 09:44	01/25/21 12:14	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Sample: MW-5 **Lab ID: 40221204003** Collected: 01/18/21 12:15 Received: 01/20/21 09:00 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	**<0.00025**	mg/L	0.0010	0.00025	1		01/21/21 16:10	71-43-2	
Bromobenzene	**<0.00024**	mg/L	0.0010	0.00024	1		01/21/21 16:10	108-86-1	
Bromochloromethane	**<0.00036**	mg/L	0.0050	0.00036	1		01/21/21 16:10	74-97-5	
Bromodichloromethane	**<0.00036**	mg/L	0.0012	0.00036	1		01/21/21 16:10	75-27-4	
Bromoform	**<0.0040**	mg/L	0.013	0.0040	1		01/21/21 16:10	75-25-2	
Bromomethane	**<0.00097**	mg/L	0.0050	0.00097	1		01/21/21 16:10	74-83-9	
n-Butylbenzene	**<0.00071**	mg/L	0.0024	0.00071	1		01/21/21 16:10	104-51-8	
sec-Butylbenzene	**<0.00085**	mg/L	0.0050	0.00085	1		01/21/21 16:10	135-98-8	
tert-Butylbenzene	**<0.00030**	mg/L	0.0010	0.00030	1		01/21/21 16:10	98-06-6	
Carbon tetrachloride	**<0.0011**	mg/L	0.0036	0.0011	1		01/21/21 16:10	56-23-5	
Chlorobenzene	**<0.00071**	mg/L	0.0024	0.00071	1		01/21/21 16:10	108-90-7	
Chloroethane	**<0.0013**	mg/L	0.0050	0.0013	1		01/21/21 16:10	75-00-3	
Chloroform	**<0.0013**	mg/L	0.0050	0.0013	1		01/21/21 16:10	67-66-3	
Chloromethane	**<0.0022**	mg/L	0.0073	0.0022	1		01/21/21 16:10	74-87-3	
2-Chlorotoluene	**<0.00093**	mg/L	0.0050	0.00093	1		01/21/21 16:10	95-49-8	
4-Chlorotoluene	**<0.00076**	mg/L	0.0025	0.00076	1		01/21/21 16:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.0018**	mg/L	0.0059	0.0018	1		01/21/21 16:10	96-12-8	
Dibromochloromethane	**<0.0026**	mg/L	0.0087	0.0026	1		01/21/21 16:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.00083**	mg/L	0.0028	0.00083	1		01/21/21 16:10	106-93-4	
Dibromomethane	**<0.00094**	mg/L	0.0031	0.00094	1		01/21/21 16:10	74-95-3	
1,2-Dichlorobenzene	**<0.00071**	mg/L	0.0024	0.00071	1		01/21/21 16:10	95-50-1	
1,3-Dichlorobenzene	**<0.00063**	mg/L	0.0021	0.00063	1		01/21/21 16:10	541-73-1	
1,4-Dichlorobenzene	**<0.00094**	mg/L	0.0031	0.00094	1		01/21/21 16:10	106-46-7	
Dichlorodifluoromethane	**<0.00050**	mg/L	0.0050	0.00050	1		01/21/21 16:10	75-71-8	
1,1-Dichloroethane	**<0.00027**	mg/L	0.0010	0.00027	1		01/21/21 16:10	75-34-3	
1,2-Dichloroethane	**<0.00028**	mg/L	0.0010	0.00028	1		01/21/21 16:10	107-06-2	
1,1-Dichloroethene	**<0.00024**	mg/L	0.0010	0.00024	1		01/21/21 16:10	75-35-4	
cis-1,2-Dichloroethene	**<0.00027**	mg/L	0.0010	0.00027	1		01/21/21 16:10	156-59-2	
trans-1,2-Dichloroethene	**<0.00046**	mg/L	0.0015	0.00046	1		01/21/21 16:10	156-60-5	
1,2-Dichloropropane	**<0.00028**	mg/L	0.0010	0.00028	1		01/21/21 16:10	78-87-5	
1,3-Dichloropropane	**<0.00083**	mg/L	0.0028	0.00083	1		01/21/21 16:10	142-28-9	
2,2-Dichloropropane	**<0.0023**	mg/L	0.0076	0.0023	1		01/21/21 16:10	594-20-7	
1,1-Dichloropropene	**<0.00054**	mg/L	0.0018	0.00054	1		01/21/21 16:10	563-58-6	
cis-1,3-Dichloropropene	**<0.0036**	mg/L	0.012	0.0036	1		01/21/21 16:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.0044**	mg/L	0.015	0.0044	1		01/21/21 16:10	10061-02-6	
Diisopropyl ether	**<0.0019**	mg/L	0.0063	0.0019	1		01/21/21 16:10	108-20-3	
Ethylbenzene	**<0.00032**	mg/L	0.0011	0.00032	1		01/21/21 16:10	100-41-4	
Hexachloro-1,3-butadiene	**<0.0015**	mg/L	0.0049	0.0015	1		01/21/21 16:10	87-68-3	
Isopropylbenzene (Cumene)	**<0.0017**	mg/L	0.0056	0.0017	1		01/21/21 16:10	98-82-8	
p-Isopropyltoluene	**<0.00080**	mg/L	0.0027	0.00080	1		01/21/21 16:10	99-87-6	
Methylene Chloride	**<0.00058**	mg/L	0.0050	0.00058	1		01/21/21 16:10	75-09-2	
Methyl-tert-butyl ether	**<0.0012**	mg/L	0.0042	0.0012	1		01/21/21 16:10	1634-04-4	
Naphthalene	**<0.0012**	mg/L	0.0050	0.0012	1		01/21/21 16:10	91-20-3	
n-Propylbenzene	**<0.00081**	mg/L	0.0050	0.00081	1		01/21/21 16:10	103-65-1	
Styrene	**<0.0030**	mg/L	0.010	0.0030	1		01/21/21 16:10	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Sample: MW-5 **Lab ID: 40221204003** Collected: 01/18/21 12:15 Received: 01/20/21 09:00 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	**<0.00027**	mg/L	0.0010	0.00027	1		01/21/21 16:10	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.00028**	mg/L	0.0010	0.00028	1		01/21/21 16:10	79-34-5	
Tetrachloroethene	**0.010**	mg/L	0.0011	0.00033	1		01/21/21 16:10	127-18-4	
Toluene	**<0.00027**	mg/L	0.0010	0.00027	1		01/21/21 16:10	108-88-3	
1,2,3-Trichlorobenzene	**<0.0022**	mg/L	0.0074	0.0022	1		01/21/21 16:10	87-61-6	
1,2,4-Trichlorobenzene	**<0.00095**	mg/L	0.0050	0.00095	1		01/21/21 16:10	120-82-1	
1,1,1-Trichloroethane	**0.00032J**	mg/L	0.0010	0.00024	1		01/21/21 16:10	71-55-6	
1,1,2-Trichloroethane	**<0.00055**	mg/L	0.0050	0.00055	1		01/21/21 16:10	79-00-5	
Trichloroethene	**<0.00026**	mg/L	0.0010	0.00026	1		01/21/21 16:10	79-01-6	
Trichlorofluoromethane	**<0.00021**	mg/L	0.0010	0.00021	1		01/21/21 16:10	75-69-4	
1,2,3-Trichloropropane	**<0.00059**	mg/L	0.0050	0.00059	1		01/21/21 16:10	96-18-4	
1,2,4-Trimethylbenzene	**<0.00084**	mg/L	0.0028	0.00084	1		01/21/21 16:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.00087**	mg/L	0.0029	0.00087	1		01/21/21 16:10	108-67-8	
Vinyl chloride	**<0.00017**	mg/L	0.0010	0.00017	1		01/21/21 16:10	75-01-4	
m&p-Xylene	**<0.00047**	mg/L	0.0020	0.00047	1		01/21/21 16:10	179601-23-1	
o-Xylene	**<0.00026**	mg/L	0.0010	0.00026	1		01/21/21 16:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/21/21 16:10	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/21/21 16:10	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		01/21/21 16:10	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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

QC Batch: 376208
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40221204003

METHOD BLANK: 2172955 Matrix: Water
Associated Lab Samples: 40221204003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	<0.00027	0.0010	01/21/21 08:06	
1,1,1-Trichloroethane	mg/L	<0.00024	0.0010	01/21/21 08:06	
1,1,2,2-Tetrachloroethane	mg/L	<0.00028	0.0010	01/21/21 08:06	
1,1,2-Trichloroethane	mg/L	<0.00055	0.0050	01/21/21 08:06	
1,1-Dichloroethane	mg/L	<0.00027	0.0010	01/21/21 08:06	
1,1-Dichloroethene	mg/L	<0.00024	0.0010	01/21/21 08:06	
1,1-Dichloropropene	mg/L	<0.00054	0.0018	01/21/21 08:06	
1,2,3-Trichlorobenzene	mg/L	<0.0022	0.0074	01/21/21 08:06	
1,2,3-Trichloropropane	mg/L	<0.00059	0.0050	01/21/21 08:06	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.0050	01/21/21 08:06	
1,2,4-Trimethylbenzene	mg/L	<0.00084	0.0028	01/21/21 08:06	
1,2-Dibromo-3-chloropropane	mg/L	<0.0018	0.0059	01/21/21 08:06	
1,2-Dibromoethane (EDB)	mg/L	<0.00083	0.0028	01/21/21 08:06	
1,2-Dichlorobenzene	mg/L	<0.00071	0.0024	01/21/21 08:06	
1,2-Dichloroethane	mg/L	<0.00028	0.0010	01/21/21 08:06	
1,2-Dichloropropane	mg/L	<0.00028	0.0010	01/21/21 08:06	
1,3,5-Trimethylbenzene	mg/L	<0.00087	0.0029	01/21/21 08:06	
1,3-Dichlorobenzene	mg/L	<0.00063	0.0021	01/21/21 08:06	
1,3-Dichloropropane	mg/L	<0.00083	0.0028	01/21/21 08:06	
1,4-Dichlorobenzene	mg/L	<0.00094	0.0031	01/21/21 08:06	
2,2-Dichloropropane	mg/L	<0.0023	0.0076	01/21/21 08:06	
2-Chlorotoluene	mg/L	<0.00093	0.0050	01/21/21 08:06	
4-Chlorotoluene	mg/L	<0.00076	0.0025	01/21/21 08:06	
Benzene	mg/L	<0.00025	0.0010	01/21/21 08:06	
Bromobenzene	mg/L	<0.00024	0.0010	01/21/21 08:06	
Bromochloromethane	mg/L	<0.00036	0.0050	01/21/21 08:06	
Bromodichloromethane	mg/L	<0.00036	0.0012	01/21/21 08:06	
Bromoform	mg/L	<0.0040	0.013	01/21/21 08:06	
Bromomethane	mg/L	<0.00097	0.0050	01/21/21 08:06	
Carbon tetrachloride	mg/L	<0.0011	0.0036	01/21/21 08:06	
Chlorobenzene	mg/L	<0.00071	0.0024	01/21/21 08:06	
Chloroethane	mg/L	<0.0013	0.0050	01/21/21 08:06	
Chloroform	mg/L	<0.0013	0.0050	01/21/21 08:06	
Chloromethane	mg/L	<0.0022	0.0073	01/21/21 08:06	
cis-1,2-Dichloroethene	mg/L	<0.00027	0.0010	01/21/21 08:06	
cis-1,3-Dichloropropene	mg/L	<0.0036	0.012	01/21/21 08:06	
Dibromochloromethane	mg/L	<0.0026	0.0087	01/21/21 08:06	
Dibromomethane	mg/L	<0.00094	0.0031	01/21/21 08:06	
Dichlorodifluoromethane	mg/L	<0.00050	0.0050	01/21/21 08:06	
Diisopropyl ether	mg/L	<0.0019	0.0063	01/21/21 08:06	

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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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

METHOD BLANK: 2172955 Matrix: Water
Associated Lab Samples: 40221204003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/L	<0.00032	0.0011	01/21/21 08:06	
Hexachloro-1,3-butadiene	mg/L	<0.0015	0.0049	01/21/21 08:06	
Isopropylbenzene (Cumene)	mg/L	<0.0017	0.0056	01/21/21 08:06	
m&p-Xylene	mg/L	<0.00047	0.0020	01/21/21 08:06	
Methyl-tert-butyl ether	mg/L	<0.0012	0.0042	01/21/21 08:06	
Methylene Chloride	mg/L	<0.00058	0.0050	01/21/21 08:06	
n-Butylbenzene	mg/L	<0.00071	0.0024	01/21/21 08:06	
n-Propylbenzene	mg/L	<0.00081	0.0050	01/21/21 08:06	
Naphthalene	mg/L	<0.0012	0.0050	01/21/21 08:06	
o-Xylene	mg/L	<0.00026	0.0010	01/21/21 08:06	
p-Isopropyltoluene	mg/L	<0.00080	0.0027	01/21/21 08:06	
sec-Butylbenzene	mg/L	<0.00085	0.0050	01/21/21 08:06	
Styrene	mg/L	<0.0030	0.010	01/21/21 08:06	
tert-Butylbenzene	mg/L	<0.00030	0.0010	01/21/21 08:06	
Tetrachloroethene	mg/L	<0.00033	0.0011	01/21/21 08:06	
Toluene	mg/L	<0.00027	0.0010	01/21/21 08:06	
trans-1,2-Dichloroethene	mg/L	<0.00046	0.0015	01/21/21 08:06	
trans-1,3-Dichloropropene	mg/L	<0.0044	0.015	01/21/21 08:06	
Trichloroethene	mg/L	<0.00026	0.0010	01/21/21 08:06	
Trichlorofluoromethane	mg/L	<0.00021	0.0010	01/21/21 08:06	
Vinyl chloride	mg/L	<0.00017	0.0010	01/21/21 08:06	
4-Bromofluorobenzene (S)	%	102	70-130	01/21/21 08:06	
Dibromofluoromethane (S)	%	104	70-130	01/21/21 08:06	
Toluene-d8 (S)	%	101	70-130	01/21/21 08:06	

LABORATORY CONTROL SAMPLE: 2172956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.05	0.051	103	70-130	
1,1,2,2-Tetrachloroethane	mg/L	0.05	0.046	91	64-131	
1,1,2-Trichloroethane	mg/L	0.05	0.046	91	70-130	
1,1-Dichloroethane	mg/L	0.05	0.054	107	69-163	
1,1-Dichloroethene	mg/L	0.05	0.054	108	77-123	
1,2,4-Trichlorobenzene	mg/L	0.05	0.046	92	68-130	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.045	91	63-130	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.047	95	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.048	96	70-130	
1,2-Dichloroethane	mg/L	0.05	0.052	103	78-142	
1,2-Dichloropropane	mg/L	0.05	0.047	95	86-134	
1,3-Dichlorobenzene	mg/L	0.05	0.049	97	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.049	98	70-130	
Benzene	mg/L	0.05	0.051	102	70-130	
Bromodichloromethane	mg/L	0.05	0.047	94	70-130	
Bromoform	mg/L	0.05	0.044	88	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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

LABORATORY CONTROL SAMPLE: 2172956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/L	0.05	0.045	90	39-129	
Carbon tetrachloride	mg/L	0.05	0.049	98	70-132	
Chlorobenzene	mg/L	0.05	0.048	96	70-130	
Chloroethane	mg/L	0.05	0.058	116	66-140	
Chloroform	mg/L	0.05	0.051	103	75-132	
Chloromethane	mg/L	0.05	0.052	104	32-143	
cis-1,2-Dichloroethene	mg/L	0.05	0.048	96	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.050	99	70-130	
Dibromochloromethane	mg/L	0.05	0.046	92	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.040	79	10-141	
Ethylbenzene	mg/L	0.05	0.050	101	80-120	
Isopropylbenzene (Cumene)	mg/L	0.05	0.050	101	70-130	
m&p-Xylene	mg/L	0.1	0.099	99	70-130	
Methyl-tert-butyl ether	mg/L	0.05	0.052	104	61-129	
Methylene Chloride	mg/L	0.05	0.052	103	70-130	
o-Xylene	mg/L	0.05	0.049	98	70-130	
Styrene	mg/L	0.05	0.049	99	70-130	
Tetrachloroethene	mg/L	0.05	0.047	94	70-130	
Toluene	mg/L	0.05	0.049	98	80-120	
trans-1,2-Dichloroethene	mg/L	0.05	0.053	107	70-130	
trans-1,3-Dichloropropene	mg/L	0.05	0.047	94	69-130	
Trichloroethene	mg/L	0.05	0.051	103	70-130	
Trichlorofluoromethane	mg/L	0.05	0.056	113	75-145	
Vinyl chloride	mg/L	0.05	0.058	115	51-140	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			100	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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

QC Batch: 376338
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: 40221204001, 40221204002

METHOD BLANK: 2173510 Matrix: Water
Associated Lab Samples: 40221204001, 40221204002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/L	<0.0000059	0.000030	01/25/21 07:15	
2-Methylnaphthalene	mg/L	<0.0000049	0.000024	01/25/21 07:15	
Acenaphthene	mg/L	<0.0000061	0.000030	01/25/21 07:15	
Acenaphthylene	mg/L	<0.0000050	0.000025	01/25/21 07:15	
Anthracene	mg/L	<0.000010	0.000052	01/25/21 07:15	
Benzo(a)anthracene	mg/L	0.000014J	0.000038	01/25/21 07:15	
Benzo(a)pyrene	mg/L	<0.000011	0.000053	01/25/21 07:15	
Benzo(b)fluoranthene	mg/L	0.000010J	0.000029	01/25/21 07:15	
Benzo(g,h,i)perylene	mg/L	0.0000078J	0.000034	01/25/21 07:15	
Benzo(k)fluoranthene	mg/L	0.0000079J	0.000038	01/25/21 07:15	
Chrysene	mg/L	0.000013J	0.000065	01/25/21 07:15	
Dibenz(a,h)anthracene	mg/L	<0.000010	0.000050	01/25/21 07:15	
Fluoranthene	mg/L	<0.000011	0.000053	01/25/21 07:15	
Fluorene	mg/L	<0.0000080	0.000040	01/25/21 07:15	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000018	0.000088	01/25/21 07:15	
Naphthalene	mg/L	<0.000018	0.000092	01/25/21 07:15	
Phenanthrene	mg/L	<0.000014	0.000069	01/25/21 07:15	
Pyrene	mg/L	0.0000094J	0.000038	01/25/21 07:15	
2-Fluorobiphenyl (S)	%	68	39-120	01/25/21 07:15	
Terphenyl-d14 (S)	%	119	10-159	01/25/21 07:15	

LABORATORY CONTROL SAMPLE & LCSD: 2173511 2173512

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	mg/L	0.002	0.0014	0.0014	69	68	37-120	0	25	
2-Methylnaphthalene	mg/L	0.002	0.0013	0.0013	63	64	38-120	2	25	
Acenaphthene	mg/L	0.002	0.0015	0.0015	74	77	49-120	4	24	
Acenaphthylene	mg/L	0.002	0.0015	0.0015	75	75	43-85	1	26	
Anthracene	mg/L	0.002	0.0018	0.0018	88	89	57-110	1	28	
Benzo(a)anthracene	mg/L	0.002	0.0020	0.0019	100	96	47-118	4	27	
Benzo(a)pyrene	mg/L	0.002	0.0018	0.0016	91	80	70-120	13	20	
Benzo(b)fluoranthene	mg/L	0.002	0.0019	0.0020	96	98	54-97	2	21	L1
Benzo(g,h,i)perylene	mg/L	0.002	0.0012	0.0012	59	59	26-74	1	42	
Benzo(k)fluoranthene	mg/L	0.002	0.0021	0.0021	105	106	73-126	2	22	
Chrysene	mg/L	0.002	0.0020	0.0020	100	99	75-151	1	20	
Dibenz(a,h)anthracene	mg/L	0.002	0.0012	0.0012	60	58	13-72	3	50	
Fluoranthene	mg/L	0.002	0.0018	0.0018	91	92	63-120	1	20	
Fluorene	mg/L	0.002	0.0015	0.0016	77	78	53-120	1	26	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0017	0.0017	84	84	51-101	1	27	

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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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

LABORATORY CONTROL SAMPLE & LCSD: 2173511 2173512

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	mg/L	0.002	0.0014	0.0014	71	72	41-120	2	24	
Phenanthrene	mg/L	0.002	0.0017	0.0017	83	85	47-100	3	22	
Pyrene	mg/L	0.002	0.0021	0.0021	107	105	70-128	1	20	
2-Fluorobiphenyl (S)	%				72	71	39-120			
Terphenyl-d14 (S)	%				111	109	10-159			

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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 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

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: 376374

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

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SOUTH MILWAUKEE ACE
Pace Project No.: 40221204

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40221204001	**MW-3**	EPA 3510	376338	EPA 8270E by SIM	376374
40221204002	**MW-4**	EPA 3510	376338	EPA 8270E by SIM	376374
40221204003	**MW-5**	EPA 8260	376208		

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

Page 1 of 1

40221204

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

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

*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

Quote #:	
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, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analysis Requested: VOCs	PNAs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-3	1/18/21	11:20	GW				X			
002	MW-4	↓	11:45	GW				X			
003	MW-5	↓	12:15	GW			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:
[illegible]	1/18/21	[illegible]	1/19/21 1200
[illegible]	1/19/21 1700	CS Logistics	1/19/21
CS Logistics	1-20-21 0900	Jessica Alley Pace	1-20-21 0900

PACE Project No.
40221204

Receipt Temp = 3 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: DAI Project # 40221204

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	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
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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	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40221204

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

Thermometer Used SR - 104 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3

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

Person examining contents: Date: 1-20-21 /Initials: SCW

Labeled By Initials: AD

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. Filter, Preserve, Pg# Mail + Invoice info 1-20-21 SCW
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: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
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 logi