

July 31, 2020

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
(July 2020 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 July 2020 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 847-573-8900 extension 580. Thank you for your time.

Sincerely,
DAI Environmental, Inc.



Christopher Cailles, P.E.
Project Engineer

Enclosure

**QUARTERLY GROUNDWATER SAMPLING REPORT
(JULY 2020 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**

July 31, 2020

DAI Project Number: 6255

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TABLE OF CONTENTS

LIST OF TABLES	i
LIST OF FIGURES	i
LIST OF APPENDICES.....	i
1.0 INTRODUCTION	1
2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM.....	2
2.1 Quarterly Sampling Protocol	2
2.2 Groundwater Sampling Procedures and Chemical Analysis	3
3.0 QUARTERLY GROUNDWATER SAMPLING RESULTS	4
3.1 Static Groundwater Elevations	4
3.2 Groundwater Analytical Results.....	4
4.0 SUMP WATER SAMPLING RESULTS.....	7
5.0 SUMMARY AND SCHEDULE	8

LIST OF TABLES (APPENDIX A)

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

LIST OF FIGURES (APPENDIX B)

Detailed Site Map with Aerial View of Site and Surrounding Property.....	Figure B.1.b.1
Groundwater Isoconcentration (Perc).....	Figure B.3.b.1a
Groundwater Isoconcentration (TCE).....	Figure B.3.b.1b
Groundwater Isoconcentration (Benzo(a)pyrene).....	Figure B.3.b.2a
Groundwater Isoconcentration (Benzo(b)fluoranthene).....	Figure B.3.b.2b
Groundwater Isoconcentration (Chrysene).....	Figure B.3.b.2c
Groundwater Isoconcentration (Naphthalene).....	Figure B.3.b.2d
Groundwater Flow Direction (July 14, 2020).....	Figure B.3.c.14
Monitoring Wells	Figure B.3.d

LIST OF APPENDICES

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

1.0 INTRODUCTION

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

2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM

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

2.1 Quarterly Sampling Protocol

Quarterly groundwater sampling is being conducted at monitoring wells MW-3 to MW-5. The purpose of the quarterly groundwater sampling is to monitor any changes in groundwater contaminant concentrations and determine the need for any future remedial actions. The groundwater sampling will document Tetrachloroethene (Perc) groundwater concentrations during and following the chemical injections as described in October 18, 2018, *Design Report Addendum/Remedial Action Plan* (RAP) approved by the WDNR in a letter dated December 19, 2018. Based upon the historical sampling results provided in the RAP, the quarterly groundwater sampling shall continue 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°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 2020 groundwater sampling event. The static water level elevations were collected from all monitoring wells on July 14, 2020. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that the July 2020 groundwater elevations are nearly identical to the elevations observed in May 2020, with the exception of MW-3, which decreased by 1.1-ft to a level more consistent with that observed in January 2020. 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 some variability in elevation between quarters is noted, the groundwater flow direction is generally consistent. The groundwater flow direction along the southern half of the Site remains northwesterly, and a northerly groundwater flow direction is indicated along the northern half of the Site. The potentiometric surface map generated from the July 2020 data is included as Figure B.3.c.14 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the third quarter 2020 (i.e., July-September 2020) were collected on July 14, 2020, following the protocol described in Section 2.2. The groundwater sample collected from MW-5 was analyzed for VOCs, and the samples from MW-3 and MW-4 were analyzed for PAHs. A summary of all groundwater sampling data collected from monitoring wells MW-3 to MW-5 since the beginning of Site Investigations is provided Tables A.1.A-A.1.B (see Attachment A). The tables are compared to the Preventative Action Limits PAL (s) and Enforcement Standards listed in Table 1 of NR 140. A copy of the laboratory analytical report for the third quarter 2020 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. The Perc concentration in MW-5 increased marginally to 0.01-mg/L in July 2020, but is generally consistent with the two (2) previous recorded concentrations of 0.0088-mg/L (May 2020) and 0.0084-mg/L (January 2020). Based upon historical recordings of PCE concentrations at this Site, an increase in concentration was noted between November 2014 and October 2018, followed by a higher variability in concentration, through an overall declining trend. The chemical injection activities conducted in July 2018 and August 2019 appear to have contributed to the declining concentrations. 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). However, all subsequent TCE concentrations were below the PAL, with the most recent concentration from July 2020 of <0.00026-mg/L. Figure B.3.b.1b has been added to provide 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 July 2020 remain above the Enforcement Standards, and nearly identical to the May 2020 concentrations. 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 with time. However, these impacts are still limited to the area along the southern property boundary.

Several PAH constituent concentrations continue to exceed the Limit of Detection (LOD) in MW-4 (installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST). The PAH concentrations for Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene in July 2020 decreased to levels generally consistent with the October 2019 concentrations, but remain above the Enforcement Standards. Naphthalene also declined, but remains above the PAL. The Fluorene concentration observed in May 2020 declined to below the PAL, and therefore is likely an isolated exceedance as no previous PAL exceedance for Fluorene has ever been observed in MW-4.

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 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 and the results of the sump water sampling will be provided in future quarterly sampling reports.

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 increasing with time until July 2018 when the pilot-scale chemical injection was performed. The Perc concentration measured in MW-5 in July 2018 indicated a reduction in concentration, demonstrating that the chemical injections helped reduce the Perc concentration in the area of MW-5. However, because not all the Perc contamination in the soil was removed during the pilot scale test, the groundwater Perc concentrations rebounded to levels above the Enforcement Standard. Since about October 2018 the Perc concentrations in MW-5 have been highly variable, but have generally declined with time. While no significant change in groundwater concentration was observed immediately following an additional chemical injection in the area of MW-5 in August 2019, the additional injection has contributed to the overall remediation.
- 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. Influent and effluent sampling will continue on a monthly basis.
- The PAH concentrations of Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene observed in MW-3 on July 2020 are nearly identical to the May 2020 concentrations, which remain above the Enforcement Standards. Concentrations of Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene also declined for MW-4, but remained above the Enforcement Standard. Similarly, Naphthalene in MW-4 decreased from the May 2020 concentration, but remains at a concentration above the PAL. The Fluorene exceedance observed in May 2020 decreased to a concentration below the PAL. The May 2020 excursion is assumed to have been an isolated event associated with an abnormal but temporary high groundwater elevation which resulted in additional soil contaminant desorption. The data continue to indicate high variability and appear to be largely influence by groundwater levels.
- The next quarterly sampling event is scheduled for October 2020.

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

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

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

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

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

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

Polynuclear Aromatic	Sample Location (Sample Date)					PAL ¹	ES ²
	TW-5 (11/13/14)	MW-3 (01/27/15)	MW-3 (05/30/17)	MW-3 (01/05/18)	MW-3 (04/07/18)		
Acenaphthene	0.00076	0.000043 (J)	0.000026 (J)	0.000077 (J)	0.000029	NL	NL
Acenaphthylene	0.00013	0.000036 (J)	0.000016 (J)	<0.000045	0.000053	NL	NL
Anthracene	0.00056	<0.000023	0.00013	0.000031 (J)	0.00015	0.6	3
Benzo(a)anthracene	0.00069	<0.000031	0.00073	0.000069 (J)	0.001	NL	NL
Benzo(a)pyrene	0.0006	0.000011 (J)	0.001	<0.000096	0.0019	0.00002	0.0002
Benzo(b)fluoranthene	0.00077	0.00002 (J)	0.002	0.000037	0.0039	0.00002	0.0002
Benzo(g,h,i)perylene	0.0004	0.000016 (J)	0.0011	0.00018 (J)	0.0025	NL	NL
Benzo(k)fluoranthene	0.00029	0.00001 (J)	0.00068	0.000014 (J)	0.0014	NL	NL
Chrysene	0.00084	0.000028 (J)	0.0015	0.000047 (J)	0.003	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000091	<0.000032	0.00022	<0.000091	0.00034	NL	NL
Fluoranthene	0.0024	0.000041 (J)	0.0031	0.00021	0.0052	0.08	0.4
Fluorene	0.0011	0.000035 (J)	0.00052	0.000022 (J)	0.000048	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0003	0.000081 (J)	0.00086	<0.00016	0.0021	NL	NL
1-Methylnaphthalene	0.002	0.000091 (J)	0.00018	0.00016	0.000033	NL	NL
2-Methylnaphthalene	0.00017	0.000084 (J)	0.00013	0.00016	0.000024	NL	NL
Naphthalene	0.00016	<0.000056	0.00012	0.00046	0.000051	0.017	0.1
Phenanthrene	0.0021	0.000043 (J)	0.00071	0.000085	0.0013	NL	NL
Pyrene	0.0025	0.000059	0.002	0.00011	0.0037	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 (07/30/18)	MW-3 (10/11/18)	MW-3 (01/25/19)	MW-3 (04/29/19)	MW-3 (07/07/19)		
Acenaphthene	0.000014 (J)	0.00001 (J)	0.0000068 (J)	0.0015	0.000023 (J)	NL	NL
Acenaphthylene	0.000023	<0.0000045	<0.0000047	0.0027	0.000084	NL	NL
Anthracene	0.000073	0.00002 (J)	0.000027 (J)	0.0089	0.00013	0.6	3
Benzo(a)anthracene	0.00043	0.000017 (J)	0.000053	0.11	0.00087	NL	NL
Benzo(a)pyrene	0.00068	0.000024 (J)	0.00017	0.115	0.0019	0.00002	0.0002
Benzo(b)fluoranthene	0.0013	0.000074	0.00034	0.209	0.0036	0.00002	0.0002
Benzo(g,h,i)perylene	0.00082	0.000037	0.00023	0.132	0.0025	NL	NL
Benzo(k)fluoranthene	0.00041	0.000026 (J)	0.00012	0.0643	0.0016	NL	NL
Chrysene	0.00095	0.000079	0.00028	0.13	0.0026	0.00002	0.0002
Dibenzo(a,h)anthracene	0.00015	<0.000009	0.000034 (J)	0.0258	0.00028	NL	NL
Fluoranthene	0.0019	0.00026	0.00043	0.248	0.0035	0.08	0.4
Fluorene	0.00004	0.000031 (J)	0.000014 (J)	0.0028	0.000037	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.00089	0.000027 (J)	0.00016	0.108	0.0019	NL	NL
1-Methylnaphthalene	0.000033	0.000019 (J)	0.000013 (J)	0.0003	0.000011 (J)	NL	NL
2-Methylnaphthalene	0.000031	0.000015 (J)	0.000012 (J)	0.00025	0.000014 (J)	NL	NL
Naphthalene	0.000053 (J)	0.000032 (J)	0.000022 (J)	0.00035	0.000019 (J)	0.017	0.1
Phenanthrene	0.00047	0.000093	0.00011	0.066	0.00079	NL	NL
Pyrene	0.0012	0.0002	0.00031	0.21	0.0029	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 (10/24/19)	MW-3 (01/17/20)	MW-3 (05/05/20)	MW-3 (07/14/20)		
Acenaphthene	0.00016	0.0003	0.000013 (J)	0.000026	NL	NL
Acenaphthylene	0.00043	0.0002	0.00002 (J)	0.00034	NL	NL
Anthracene	0.00088	0.00028	0.000086	0.00016	0.6	3
Benzo(a)anthracene	0.009	0.0042	0.00066	0.00057	NL	NL
Benzo(a)pyrene	0.015	0.0063	0.0011	0.0012	0.00002	0.0002
Benzo(b)fluoranthene	0.03	0.0104	0.0023	0.0022	0.00002	0.0002
Benzo(g,h,i)perylene	0.018	0.0072	0.0015	0.0017	NL	NL
Benzo(k)fluoranthene	0.0095	0.004	0.00078	0.00092	NL	NL
Chrysene	0.016	0.0013	0.0012	0.0014	0.00002	0.0002
Dibenzo(a,h)anthracene	0.0034	0.0117	0.00026	0.00027	NL	NL
Fluoranthene	0.025	0.0005	0.0018	0.0028	0.08	0.4
Fluorene	0.00022	0.00004	0.000014 (J)	0.00004	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.014	0.0056	0.0012	0.0014	NL	NL
1-Methylnaphthalene	--	0.00039	<0.0000057	0.000024	NL	NL
2-Methylnaphthalene	--	0.000048	<0.0000048	0.000015	NL	NL
Naphthalene	0.00015	0.0001	<0.000018	0.00003	0.017	0.1
Phenanthrene	0.0061	0.003	0.00046	0.00038	NL	NL
Pyrene	0.024	0.011	0.0015	0.0016	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

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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)		
Acenaphthene	0.00049	0.000039 (J)	0.00056	0.0386	0.0246	NL	NL
Acenaphthylene	0.00012	0.000084	0.000073	0.0166	0.0083	NL	NL
Anthracene	0.00006	0.00006	0.00011	0.0018 (J)	0.0019	0.6	3
Benzo(a)anthracene	0.000013 (J)	<0.000032	0.000082 (J)	0.00044 (J)	<0.00014	NL	NL
Benzo(a)pyrene	0.000053 (J)	0.000017 (J)	0.000006 (J)	<0.00049	<0.0002	0.00002	0.0002
Benzo(b)fluoranthene	0.000093 (J)	0.000043 (J)	0.000014 (J)	<0.00027	0.00022 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.000071 (J)	0.000025 (J)	0.000081 (J)	<0.00031	<0.00013	NL	NL
Benzo(k)fluoranthene	<0.000005	0.000021 (J)	<0.000051	<0.00035	<0.00014	NL	NL
Chrysene	0.000021 (J)	0.000042 (J)	0.000017 (J)	0.0018 (J)	0.001 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000035	<0.000033	<0.000051	<0.00046	<0.00019	NL	NL
Fluoranthene	0.00004 (J)	0.000049	0.00003 (J)	0.0037	0.0046	0.08	0.4
Fluorene	0.00061	0.000031 (J)	0.00051	0.0759	0.0504	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.000044 (J)	0.000017 (J)	0.000056 (J)	<0.00082	<0.00033	NL	NL
1-Methylnaphthalene	0.0087	0.000076	0.0041	0.357	0.183	NL	NL
2-Methylnaphthalene	0.0065	0.000066	0.000037 (J)	0.0747	0.0126	NL	NL
Naphthalene	0.0022	0.00027	0.00017	0.0243	0.0151	0.017	0.1
Phenanthrene	0.00062	0.000033 (J)	0.00029	0.165	0.102	NL	NL
Pyrene	0.00006	0.0001	0.000081	0.0165	0.0102	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 (04/07/18)	MW-4 (07/30/18)	MW-4 (10/11/18)	MW-4 (01/25/19)	MW-4 (04/29/19)		
Acenaphthene	0.0031	0.0021	0.004	0.0016	0.0033	NL	NL
Acenaphthylene	0.00073	0.00064	0.00091	0.00024	0.00059	NL	NL
Anthracene	0.00051	0.00024	0.001	0.000093	0.00033	0.6	3
Benzo(a)anthracene	0.000012 (J)	<0.000035	0.00004 (J)	0.0000076 (J)	0.000061	NL	NL
Benzo(a)pyrene	<0.0000095	<0.000048	<0.000029	<0.0000095	0.000041 (J)	0.00002	0.0002
Benzo(b)fluoranthene	0.0000096 (J)	<0.000026	0.000022	0.000012 (J)	0.000093	0.00002	0.0002
Benzo(g,h,i)perylene	<0.0000061	<0.000031	<0.000018	<0.0000061	0.000045	NL	NL
Benzo(k)fluoranthene	<0.0000068	<0.000035	<0.000021	0.000016 (J)	0.000005	NL	NL
Chrysene	0.000031 (J)	<0.00006	0.000084 (J)	0.000033 (J)	0.00017	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000009	<0.000046	<0.000027	<0.000009	0.0000091 (J)	NL	NL
Fluoranthene	0.0001	0.000061 (J)	0.00019	0.000091	0.0004	0.08	0.4
Fluorene	0.0053	0.0035	0.0067	0.0022	0.0046	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.000016	<0.000081	<0.000048	<0.000016	0.00004 (J)	NL	NL
1-Methylnaphthalene	0.0109	0.0395	0.0268	0.006	0.0151	NL	NL
2-Methylnaphthalene	0.00026	0.00051	0.00021	0.000048	0.00026	NL	NL
Naphthalene	0.0022	0.0015	0.00081	0.00078	0.0014	0.017	0.1
Phenanthrene	0.0033	0.0031	0.0059	0.00077	0.0037	NL	NL
Pyrene	0.00032	0.00017 (J)	0.0001	0.00021	0.0014	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 (07/07/19)	MW-4 (10/24/19)	MW-4 (01/17/20)	MW-4 (05/05/20)	MW-4 (07/14/20)		
Acenaphthene	0.0028	0.01	0.0357	0.097	0.047	NL	NL
Acenaphthylene	0.0005	0.0029	0.0114	0.029	0.011	NL	NL
Anthracene	0.00044	0.0068	0.0063	0.014	0.017	0.6	3
Benzo(a)anthracene	<0.000026	0.00069	0.0036	0.0016 (J)	0.0014	NL	NL
Benzo(a)pyrene	<0.000037	0.00045	0.0031	0.0012 (J)	0.00046 (J)	0.00002	0.0002
Benzo(b)fluoranthene	<0.00002	0.00086	0.0056	0.0032	0.00098	0.00002	0.0002
Benzo(g,h,i)perylene	<0.000024	0.00049	0.0032	0.0019	0.00054	NL	NL
Benzo(k)fluoranthene	<0.000026	0.00038	0.0022	0.00089 (J)	0.00055	NL	NL
Chrysene	<0.000046	0.0016	0.0074	0.005	0.0038	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000035	0.000074 (J)	0.000061 (J)	<0.00048	<0.00018	NL	NL
Fluoranthene	0.00011 (J)	0.0026	0.0128	0.015	0.008	0.08	0.4
Fluorene	0.0044	0.019	0.0576	0.15	0.055	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.000062	0.00033 (J)	0.0025	0.00096 (J)	0.00036 (J)	NL	NL
1-Methylnaphthalene	0.0174	--	0.0947	0.24	0.087	NL	NL
2-Methylnaphthalene	0.00048	--	0.0032	0.003	0.0018	NL	NL
Naphthalene	0.0034	0.0026	0.0074	0.035	0.025	0.017	0.1
Phenanthrene	0.0013	0.026	0.0992	0.26	0.082	NL	NL
Pyrene	0.00037	0.0096	0.0344	0.049	0.028	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	07/14/20	<u>0.0078</u>
	06/03/20	<u>0.0068</u>
	05/05/20	<u>0.0054</u>
	04/06/20	0.005
	03/10/20	<u>0.0063</u>
	02/03/20	<u>0.006</u>
	01/07/20	<u>0.0065</u>
	12/03/19	<u>0.0068</u>
	11/04/19	<u>0.008</u>
	10/02/19	<u>0.0069</u>
	09/05/19	<u>0.0076</u>
	08/02/19	0.005
	07/19/19	<u>0.0062</u>
	06/25/19	<u>0.0054</u>
	06/06/19	<u>0.0069</u>
	05/29/19	0.0043
	05/23/19	0.0042
	05/15/19	<u>0.0093</u>
02/04/19	<u>0.0064</u>	
01/05/18	<u>0.0082</u>	
06/04/17	<u>0.006</u>	
PAL¹		0.0005
Enforcement Standard²		0.005

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

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

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

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

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-1	99.13	07/14/20	1.79	14.49	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	07/14/20	6.36	14.41	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	07/14/20	3.37	14.46	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	07/14/20	5.34	14.57	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	07/14/20	5.84	14.60	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	07/14/20	7.11	14.57	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			

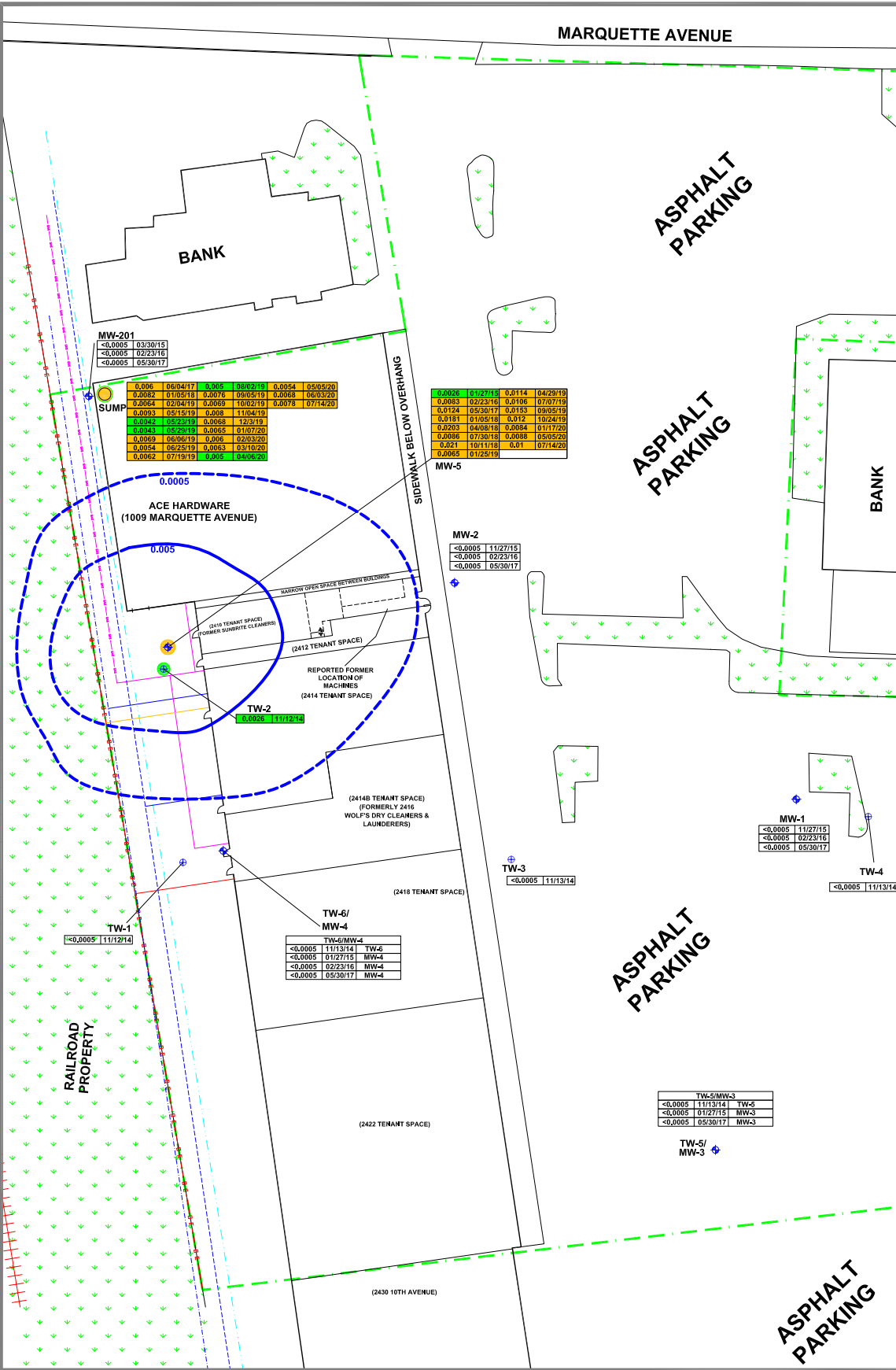
* – Relative Elevation based upon generic 100-ft on-site datum and survey data collected on January 27, 2015, and March 30, 2015.

APPENDIX B
FIGURES



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
(2015 AERIAL TAKEN FROM GOOGLE EARTH)



LEGEND

APPROXIMATE PROPERTY BOUNDARY

VEGETATION
(2410)
UNIT ADDRESS

FIBER OPTICS UTILITY LINE

GAS UTILITY LINE

SANITARY UTILITY LINE

WATER UTILITY LINE (12")

WATER UTILITY LINE (4")

OVERHEAD ELECTRIC UTILITY LINE

MONITORING WELL LOCATION

SOIL BORING WITH TEMPORARY WELL LOCATION

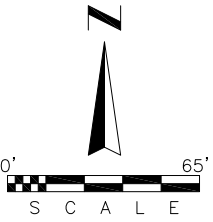
OBSERVED PAL EXCEEDANCE FOR PERC

OBSERVED PAL AND ES EXCEEDANCE FOR PERC

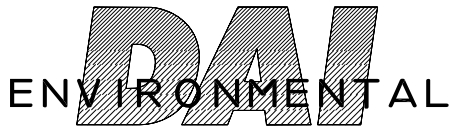
PERC CONC. mg/L	SAMPLE DATE
<0.0005	03/30/15
<0.0005	02/23/16
<0.0005	05/30/17

SITE INVESTIGATION DEFINED PERC ISOCONCENTRATION LINE (mg/L)

SITE INVESTIGATION ESTIMATED PERC ISOCONCENTRATION LINE (mg/L)



CAD FILE: 6255-133J
REVISED: 07/28/20



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

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

MARQUETTE AVENUE

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")

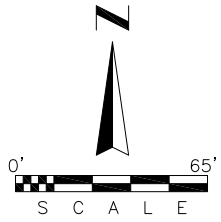
OVERHEAD ELECTRIC UTILITY LINE

MONITORING WELL LOCATION

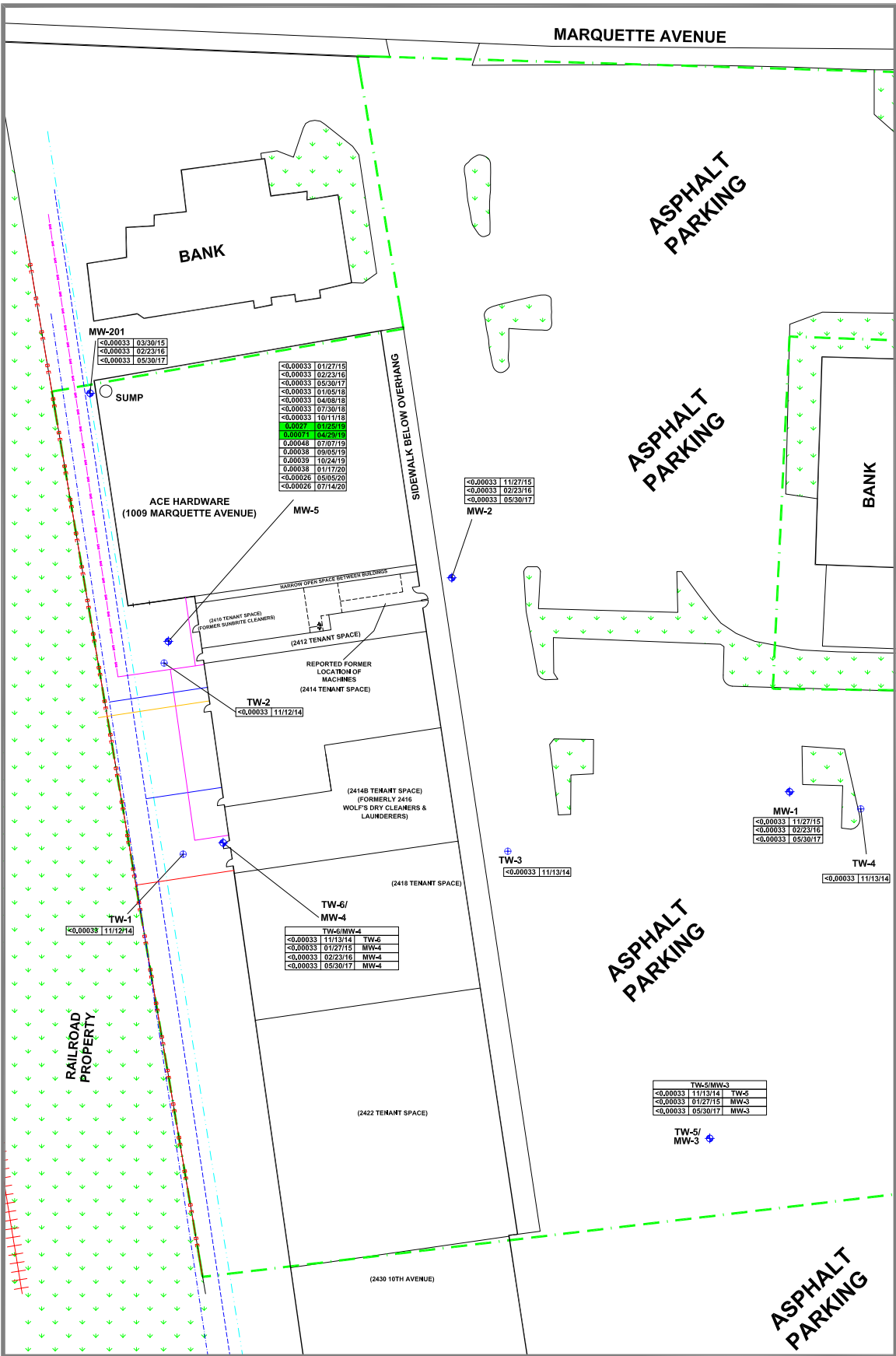
SOIL BORING WITH TEMPORARY WELL LOCATION

OBSERVED PAL EXCEEDANCE FOR TCE

TCE CONC. mg/L	SAMPLE DATE
<0.00033	11/27/15
<0.00033	02/23/16
<0.00033	05/30/17



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REVISED: 07/28/20



<0.00033	01/27/15
<0.00033	02/23/16
<0.00033	05/30/17
<0.00033	07/05/18
<0.00033	04/08/18
<0.00033	07/30/18
<0.00033	10/11/18
0.00071	04/23/19
0.00048	07/07/19
0.00039	09/05/19
0.00039	10/24/19
0.00038	01/17/20
<0.00026	05/05/20
<0.00026	07/14/20

<0.00033	11/27/15
<0.00033	02/23/16
<0.00033	05/30/17

<0.00033	11/27/15
<0.00033	02/23/16
<0.00033	05/30/17

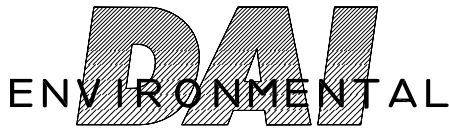
<0.00033	11/12/14
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<0.00033	11/13/14
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<0.00033	11/13/14
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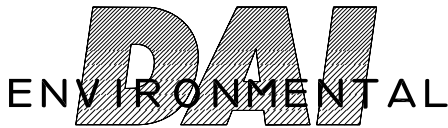
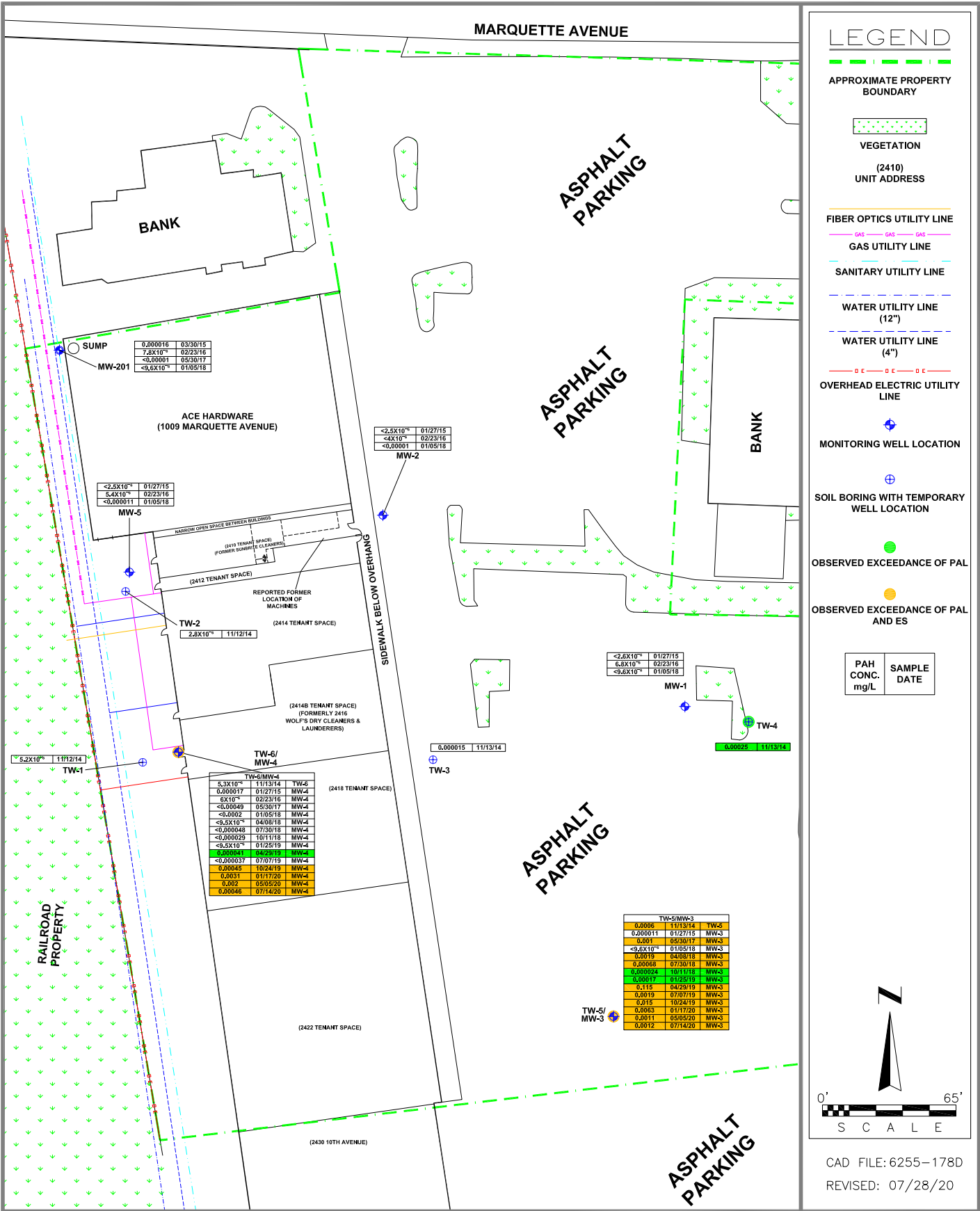
<0.00033	11/13/14	TW-6
<0.00033	01/27/15	MW-4
<0.00033	02/23/16	MW-4
<0.00033	05/30/17	MW-4

<0.00033	11/13/14	TW-5
<0.00033	01/27/15	MW-3
<0.00033	05/30/17	MW-3



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

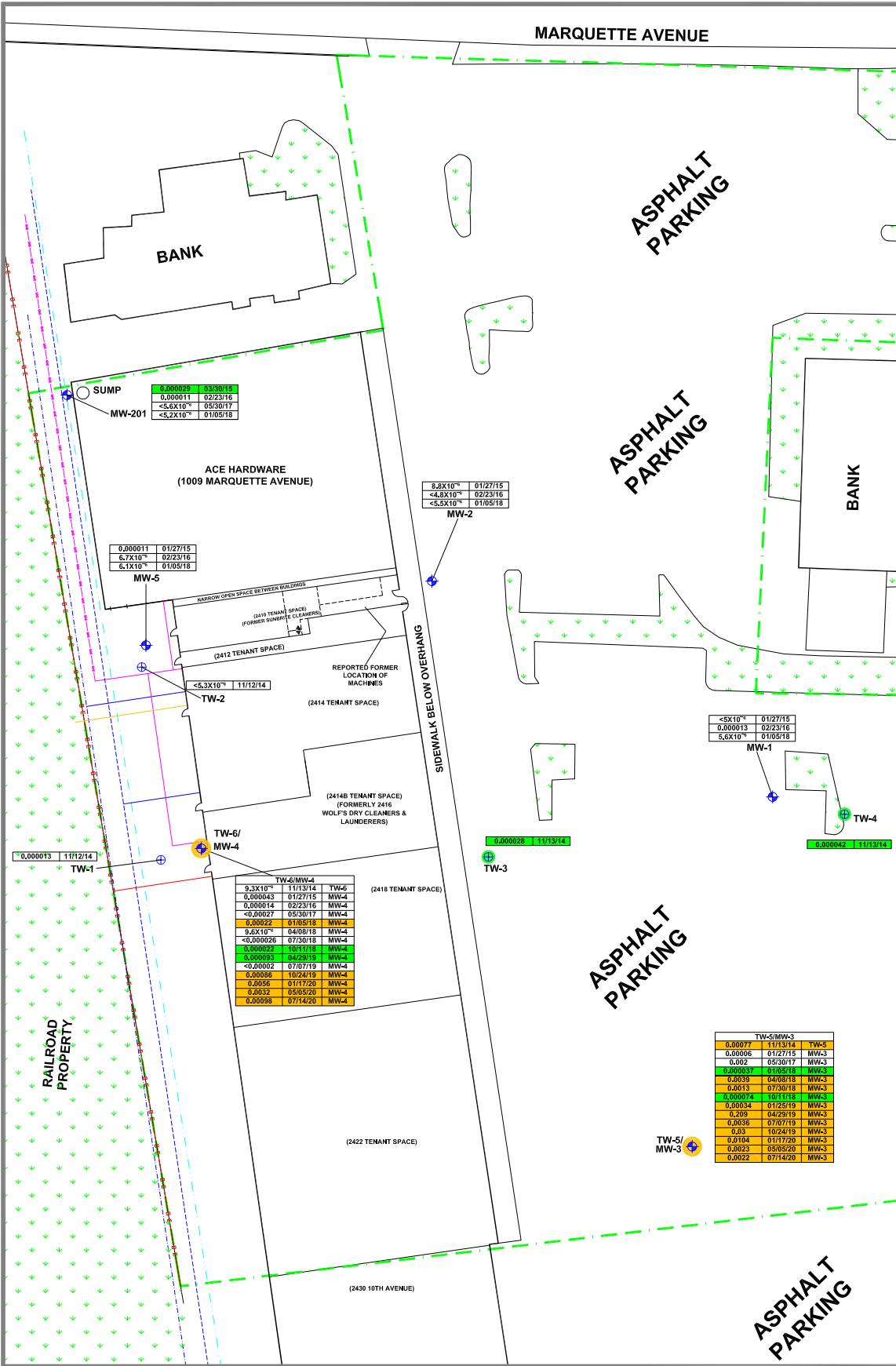
FIGURE B.3.b.1b
GROUNDWATER
ISOCONCENTRATION
(TCE)



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: 6255-178D
 REVISED: 07/28/20



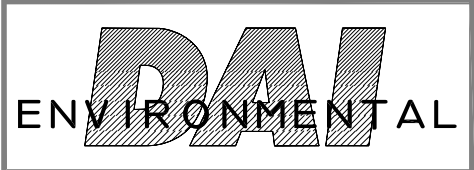
LEGEND

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

PAH CONC. mg/L	SAMPLE DATE
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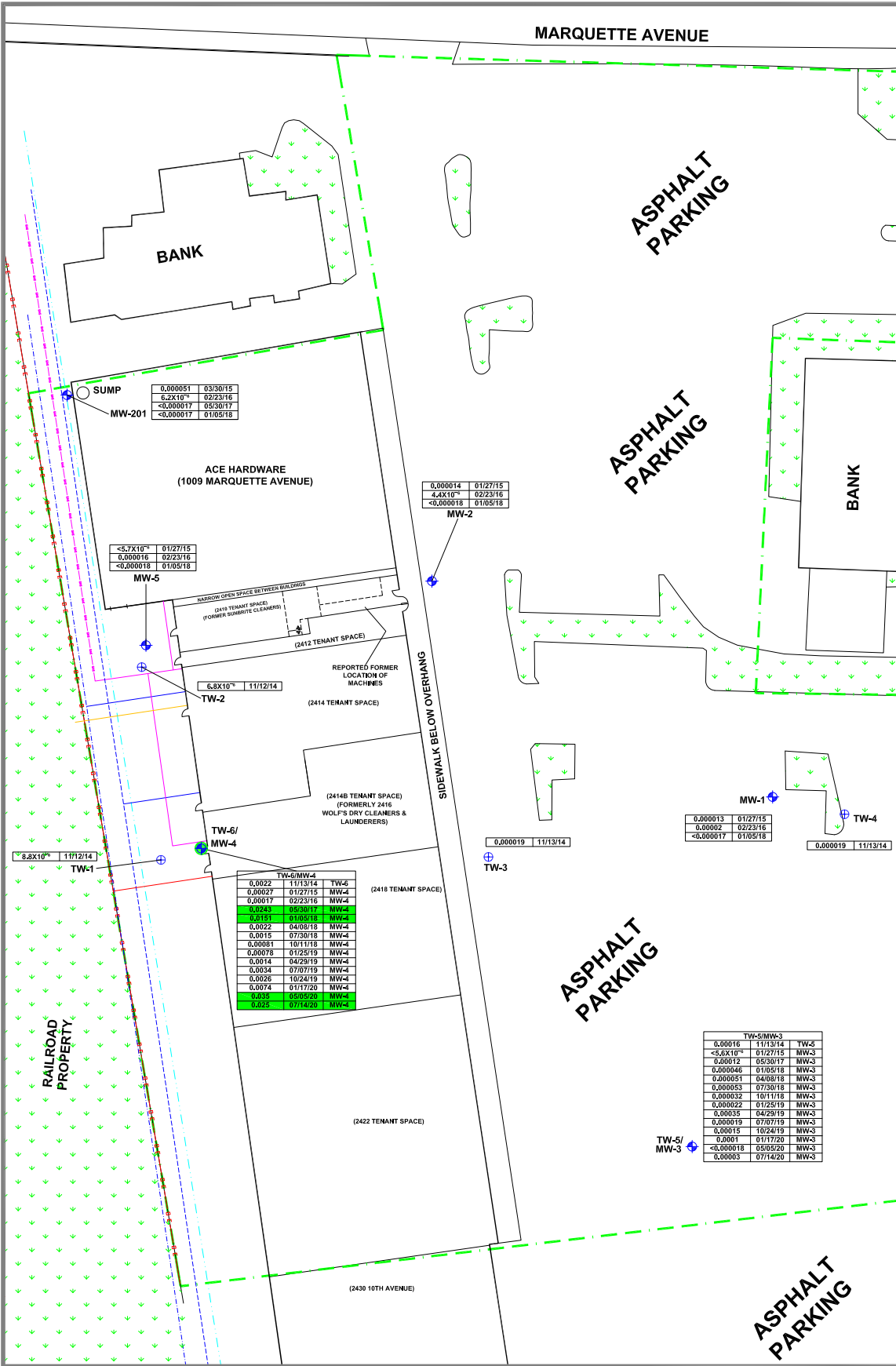
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CAD FILE: 6255-179D
REVISED: 07/28/20



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
0.000051	03/30/15
6.2x10 ⁻⁶	02/23/16
<0.000017	05/30/17
<0.000017	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000014	01/27/15
4.4x10 ⁻⁶	02/23/16
<0.000018	01/05/18

PAH CONC. mg/L	SAMPLE DATE
<5.7x10 ⁻⁶	01/27/15
0.000018	02/23/16
<0.000018	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000019	11/13/14

PAH CONC. mg/L	SAMPLE DATE
0.000013	01/27/15
0.00002	02/23/16
<0.000017	01/05/18

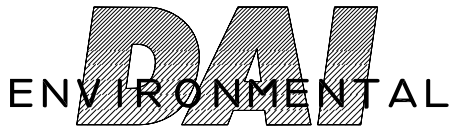
PAH CONC. mg/L	SAMPLE DATE
0.000019	11/13/14

PAH CONC. mg/L	SAMPLE DATE
0.00016	11/13/14
<5.6x10 ⁻⁶	01/27/15
0.00012	05/30/17
0.000046	01/05/18
0.000051	04/08/18
0.000053	07/30/18
0.000032	10/11/18
0.000022	01/25/19
0.00035	04/29/19
0.00019	07/07/19
0.00015	10/24/19
0.0001	01/17/20
<0.000018	05/05/20
0.0003	07/14/20

0' 65'

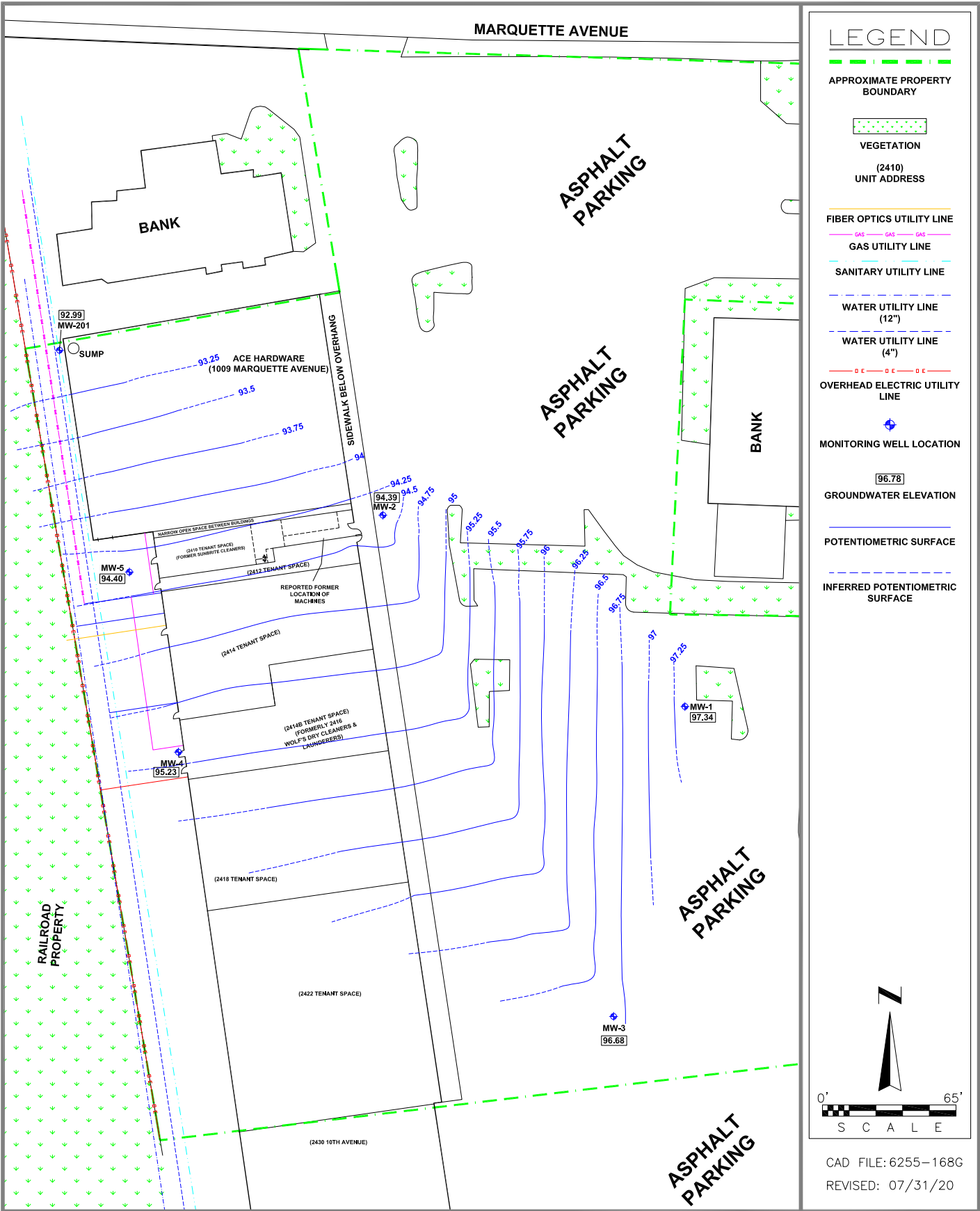
S C A L E

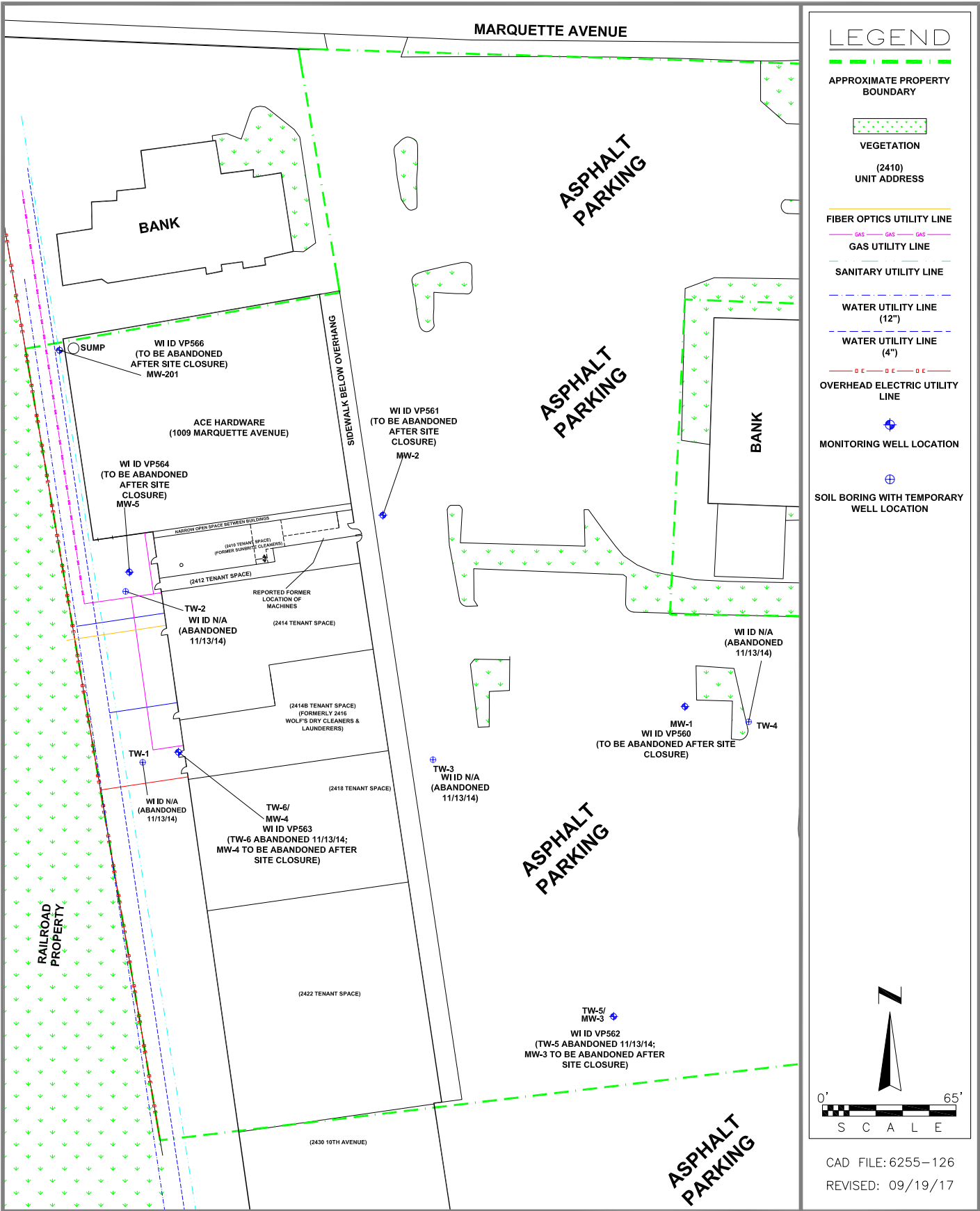
CAD FILE: 6255-181D
REVISED: 07/28/20



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

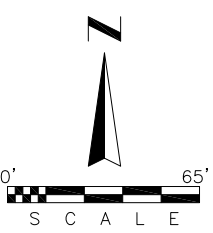
FIGURE B.3.b.2d
GROUNDWATER
ISOCONCENTRATION
(NAPHTHALENE)



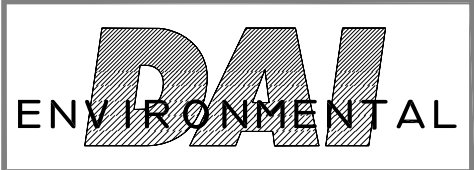


LEGEND

- 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
- SOIL BORING WITH TEMPORARY WELL LOCATION



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



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

FIGURE B.3.d
MONITORING WELLS

APPENDIX C.1.E
LABORATORY ANALYTICAL REPORTS
(THIRD QUARTER 2020)

July 21, 2020

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

RE: Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

Dear Chris Cailles:

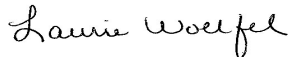
Enclosed are the analytical results for sample(s) received by the laboratory on July 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

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

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SAMPLE SUMMARY

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40211274001	MW-3	Water	07/14/20 10:15	07/16/20 08:35
40211274002	MW-5	Water	07/14/20 10:30	07/16/20 08:35
40211274003	MW-4	Water	07/14/20 10:45	07/16/20 08:35

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SAMPLE ANALYTE COUNT

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40211274001	MW-3	EPA 8270 by HVI	TPO	20
40211274002	MW-5	EPA 8260	LAP	64
40211274003	MW-4	EPA 8270 by HVI	TPO	20

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40211274001	MW-3					
EPA 8270 by HVI	Acenaphthene	0.000026J	mg/L	0.000029	07/17/20 19:09	
EPA 8270 by HVI	Acenaphthylene	0.000034	mg/L	0.000023	07/17/20 19:09	
EPA 8270 by HVI	Anthracene	0.00016	mg/L	0.000049	07/17/20 19:09	
EPA 8270 by HVI	Benzo(a)anthracene	0.00057	mg/L	0.000036	07/17/20 19:09	
EPA 8270 by HVI	Benzo(a)pyrene	0.0012	mg/L	0.000050	07/17/20 19:09	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.0022	mg/L	0.000027	07/17/20 19:09	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.0017	mg/L	0.000032	07/17/20 19:09	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.00092	mg/L	0.000036	07/17/20 19:09	
EPA 8270 by HVI	Chrysene	0.0014	mg/L	0.000062	07/17/20 19:09	
EPA 8270 by HVI	Dibenz(a,h)anthracene	0.00027	mg/L	0.000047	07/17/20 19:09	
EPA 8270 by HVI	Fluoranthene	0.0028	mg/L	0.000050	07/17/20 19:09	
EPA 8270 by HVI	Fluorene	0.000040	mg/L	0.000038	07/17/20 19:09	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.0014	mg/L	0.000083	07/17/20 19:09	
EPA 8270 by HVI	1-Methylnaphthalene	0.000024J	mg/L	0.000028	07/17/20 19:09	
EPA 8270 by HVI	2-Methylnaphthalene	0.000015J	mg/L	0.000023	07/17/20 19:09	L2
EPA 8270 by HVI	Naphthalene	0.000030J	mg/L	0.000086	07/17/20 19:09	
EPA 8270 by HVI	Phenanthrene	0.00038	mg/L	0.000065	07/17/20 19:09	
EPA 8270 by HVI	Pyrene	0.0016	mg/L	0.000036	07/17/20 19:09	
40211274002	MW-5					
EPA 8260	Tetrachloroethene	0.010	mg/L	0.0011	07/17/20 12:14	
40211274003	MW-4					
EPA 8270 by HVI	Acenaphthene	0.047	mg/L	0.00054	07/17/20 21:56	
EPA 8270 by HVI	Acenaphthylene	0.011	mg/L	0.00044	07/17/20 21:56	
EPA 8270 by HVI	Anthracene	0.017	mg/L	0.00093	07/17/20 21:56	
EPA 8270 by HVI	Benzo(a)anthracene	0.0014	mg/L	0.00067	07/17/20 21:56	
EPA 8270 by HVI	Benzo(a)pyrene	0.00046J	mg/L	0.00094	07/17/20 21:56	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.00098	mg/L	0.00051	07/17/20 21:56	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.00054J	mg/L	0.00061	07/17/20 21:56	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.00055J	mg/L	0.00067	07/17/20 21:56	B
EPA 8270 by HVI	Chrysene	0.0038	mg/L	0.0012	07/17/20 21:56	
EPA 8270 by HVI	Fluoranthene	0.0080	mg/L	0.00095	07/17/20 21:56	
EPA 8270 by HVI	Fluorene	0.055	mg/L	0.00071	07/17/20 21:56	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.00036J	mg/L	0.0016	07/17/20 21:56	
EPA 8270 by HVI	1-Methylnaphthalene	0.087	mg/L	0.00053	07/17/20 21:56	
EPA 8270 by HVI	2-Methylnaphthalene	0.0018	mg/L	0.00044	07/17/20 21:56	L2
EPA 8270 by HVI	Naphthalene	0.025	mg/L	0.0016	07/17/20 21:56	
EPA 8270 by HVI	Phenanthrene	0.082	mg/L	0.0012	07/17/20 21:56	
EPA 8270 by HVI	Pyrene	0.028	mg/L	0.00068	07/17/20 21:56	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

Sample: MW-3 **Lab ID: 40211274001** Collected: 07/14/20 10:15 Received: 07/16/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	0.000026J	mg/L	0.000029	0.000005 7	1	07/17/20 15:05	07/17/20 19:09	83-32-9	
Acenaphthylene	0.000034	mg/L	0.000023	0.000004 7	1	07/17/20 15:05	07/17/20 19:09	208-96-8	
Anthracene	0.00016	mg/L	0.000049	0.000009 9	1	07/17/20 15:05	07/17/20 19:09	120-12-7	
Benzo(a)anthracene	0.00057	mg/L	0.000036	0.000007 1	1	07/17/20 15:05	07/17/20 19:09	56-55-3	
Benzo(a)pyrene	0.0012	mg/L	0.000050	0.000009 9	1	07/17/20 15:05	07/17/20 19:09	50-32-8	
Benzo(b)fluoranthene	0.0022	mg/L	0.000027	0.000005 4	1	07/17/20 15:05	07/17/20 19:09	205-99-2	
Benzo(g,h,i)perylene	0.0017	mg/L	0.000032	0.000006 4	1	07/17/20 15:05	07/17/20 19:09	191-24-2	
Benzo(k)fluoranthene	0.00092	mg/L	0.000036	0.000007 1	1	07/17/20 15:05	07/17/20 19:09	207-08-9	
Chrysene	0.0014	mg/L	0.000062	0.000012	1	07/17/20 15:05	07/17/20 19:09	218-01-9	
Dibenz(a,h)anthracene	0.00027	mg/L	0.000047	0.000009 5	1	07/17/20 15:05	07/17/20 19:09	53-70-3	
Fluoranthene	0.0028	mg/L	0.000050	0.000010	1	07/17/20 15:05	07/17/20 19:09	206-44-0	
Fluorene	0.000040	mg/L	0.000038	0.000007 5	1	07/17/20 15:05	07/17/20 19:09	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0014	mg/L	0.000083	0.000017	1	07/17/20 15:05	07/17/20 19:09	193-39-5	
1-Methylnaphthalene	0.000024J	mg/L	0.000028	0.000005 6	1	07/17/20 15:05	07/17/20 19:09	90-12-0	
2-Methylnaphthalene	0.000015J	mg/L	0.000023	0.000004 6	1	07/17/20 15:05	07/17/20 19:09	91-57-6	L2
Naphthalene	0.000030J	mg/L	0.000086	0.000017	1	07/17/20 15:05	07/17/20 19:09	91-20-3	
Phenanthrene	0.00038	mg/L	0.000065	0.000013	1	07/17/20 15:05	07/17/20 19:09	85-01-8	
Pyrene	0.0016	mg/L	0.000036	0.000007 2	1	07/17/20 15:05	07/17/20 19:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	39-120		1	07/17/20 15:05	07/17/20 19:09	321-60-8	
Terphenyl-d14 (S)	69	%	10-159		1	07/17/20 15:05	07/17/20 19:09	1718-51-0	

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

Sample: MW-5 **Lab ID: 40211274002** Collected: 07/14/20 10:30 Received: 07/16/20 08:35 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		07/17/20 12:14	71-43-2	
Bromobenzene	<0.00024	mg/L	0.0010	0.00024	1		07/17/20 12:14	108-86-1	
Bromochloromethane	<0.00036	mg/L	0.0050	0.00036	1		07/17/20 12:14	74-97-5	
Bromodichloromethane	<0.00036	mg/L	0.0012	0.00036	1		07/17/20 12:14	75-27-4	
Bromoform	<0.0040	mg/L	0.013	0.0040	1		07/17/20 12:14	75-25-2	
Bromomethane	<0.00097	mg/L	0.0050	0.00097	1		07/17/20 12:14	74-83-9	
n-Butylbenzene	<0.00071	mg/L	0.0024	0.00071	1		07/17/20 12:14	104-51-8	
sec-Butylbenzene	<0.00085	mg/L	0.0050	0.00085	1		07/17/20 12:14	135-98-8	
tert-Butylbenzene	<0.00030	mg/L	0.0010	0.00030	1		07/17/20 12:14	98-06-6	
Carbon tetrachloride	<0.0011	mg/L	0.0036	0.0011	1		07/17/20 12:14	56-23-5	
Chlorobenzene	<0.00071	mg/L	0.0024	0.00071	1		07/17/20 12:14	108-90-7	
Chloroethane	<0.0013	mg/L	0.0050	0.0013	1		07/17/20 12:14	75-00-3	
Chloroform	<0.0013	mg/L	0.0050	0.0013	1		07/17/20 12:14	67-66-3	
Chloromethane	<0.0022	mg/L	0.0073	0.0022	1		07/17/20 12:14	74-87-3	
2-Chlorotoluene	<0.00093	mg/L	0.0050	0.00093	1		07/17/20 12:14	95-49-8	
4-Chlorotoluene	<0.00076	mg/L	0.0025	0.00076	1		07/17/20 12:14	106-43-4	
1,2-Dibromo-3-chloropropane	<0.0018	mg/L	0.0059	0.0018	1		07/17/20 12:14	96-12-8	
Dibromochloromethane	<0.0026	mg/L	0.0087	0.0026	1		07/17/20 12:14	124-48-1	
1,2-Dibromoethane (EDB)	<0.00083	mg/L	0.0028	0.00083	1		07/17/20 12:14	106-93-4	
Dibromomethane	<0.00094	mg/L	0.0031	0.00094	1		07/17/20 12:14	74-95-3	
1,2-Dichlorobenzene	<0.00071	mg/L	0.0024	0.00071	1		07/17/20 12:14	95-50-1	
1,3-Dichlorobenzene	<0.00063	mg/L	0.0021	0.00063	1		07/17/20 12:14	541-73-1	
1,4-Dichlorobenzene	<0.00094	mg/L	0.0031	0.00094	1		07/17/20 12:14	106-46-7	
Dichlorodifluoromethane	<0.00050	mg/L	0.0050	0.00050	1		07/17/20 12:14	75-71-8	
1,1-Dichloroethane	<0.00027	mg/L	0.0010	0.00027	1		07/17/20 12:14	75-34-3	
1,2-Dichloroethane	<0.00028	mg/L	0.0010	0.00028	1		07/17/20 12:14	107-06-2	
1,1-Dichloroethene	<0.00024	mg/L	0.0010	0.00024	1		07/17/20 12:14	75-35-4	
cis-1,2-Dichloroethene	<0.00027	mg/L	0.0010	0.00027	1		07/17/20 12:14	156-59-2	
trans-1,2-Dichloroethene	<0.00046	mg/L	0.0015	0.00046	1		07/17/20 12:14	156-60-5	
1,2-Dichloropropane	<0.00028	mg/L	0.0010	0.00028	1		07/17/20 12:14	78-87-5	
1,3-Dichloropropane	<0.00083	mg/L	0.0028	0.00083	1		07/17/20 12:14	142-28-9	
2,2-Dichloropropane	<0.0023	mg/L	0.0076	0.0023	1		07/17/20 12:14	594-20-7	
1,1-Dichloropropene	<0.00054	mg/L	0.0018	0.00054	1		07/17/20 12:14	563-58-6	
cis-1,3-Dichloropropene	<0.0036	mg/L	0.012	0.0036	1		07/17/20 12:14	10061-01-5	
trans-1,3-Dichloropropene	<0.0044	mg/L	0.015	0.0044	1		07/17/20 12:14	10061-02-6	
Diisopropyl ether	<0.0019	mg/L	0.0063	0.0019	1		07/17/20 12:14	108-20-3	
Ethylbenzene	<0.00032	mg/L	0.0011	0.00032	1		07/17/20 12:14	100-41-4	
Hexachloro-1,3-butadiene	<0.0015	mg/L	0.0049	0.0015	1		07/17/20 12:14	87-68-3	
Isopropylbenzene (Cumene)	<0.0017	mg/L	0.0056	0.0017	1		07/17/20 12:14	98-82-8	
p-Isopropyltoluene	<0.00080	mg/L	0.0027	0.00080	1		07/17/20 12:14	99-87-6	
Methylene Chloride	<0.00058	mg/L	0.0050	0.00058	1		07/17/20 12:14	75-09-2	
Methyl-tert-butyl ether	<0.0012	mg/L	0.0042	0.0012	1		07/17/20 12:14	1634-04-4	
Naphthalene	<0.0012	mg/L	0.0050	0.0012	1		07/17/20 12:14	91-20-3	
n-Propylbenzene	<0.00081	mg/L	0.0050	0.00081	1		07/17/20 12:14	103-65-1	
Styrene	<0.0030	mg/L	0.010	0.0030	1		07/17/20 12:14	100-42-5	

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

Sample: MW-5 **Lab ID: 40211274002** Collected: 07/14/20 10:30 Received: 07/16/20 08:35 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		07/17/20 12:14	630-20-6	
1,1,1,2-Tetrachloroethane	<0.00028	mg/L	0.0010	0.00028	1		07/17/20 12:14	79-34-5	
Tetrachloroethene	0.010	mg/L	0.0011	0.00033	1		07/17/20 12:14	127-18-4	
Toluene	<0.00027	mg/L	0.00090	0.00027	1		07/17/20 12:14	108-88-3	
1,2,3-Trichlorobenzene	<0.0022	mg/L	0.0074	0.0022	1		07/17/20 12:14	87-61-6	
1,2,4-Trichlorobenzene	<0.00095	mg/L	0.0050	0.00095	1		07/17/20 12:14	120-82-1	
1,1,1-Trichloroethane	<0.00024	mg/L	0.0010	0.00024	1		07/17/20 12:14	71-55-6	
1,1,2-Trichloroethane	<0.00055	mg/L	0.0050	0.00055	1		07/17/20 12:14	79-00-5	
Trichloroethene	<0.00026	mg/L	0.0010	0.00026	1		07/17/20 12:14	79-01-6	
Trichlorofluoromethane	<0.00021	mg/L	0.0010	0.00021	1		07/17/20 12:14	75-69-4	
1,2,3-Trichloropropane	<0.00059	mg/L	0.0050	0.00059	1		07/17/20 12:14	96-18-4	
1,2,4-Trimethylbenzene	<0.00084	mg/L	0.0028	0.00084	1		07/17/20 12:14	95-63-6	
1,3,5-Trimethylbenzene	<0.00087	mg/L	0.0029	0.00087	1		07/17/20 12:14	108-67-8	
Vinyl chloride	<0.00017	mg/L	0.0010	0.00017	1		07/17/20 12:14	75-01-4	
m&p-Xylene	<0.00047	mg/L	0.0020	0.00047	1		07/17/20 12:14	179601-23-1	
o-Xylene	<0.00026	mg/L	0.0010	0.00026	1		07/17/20 12:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/17/20 12:14	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		07/17/20 12:14	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		07/17/20 12:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

Sample: MW-4 **Lab ID: 40211274003** Collected: 07/14/20 10:45 Received: 07/16/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	0.047	mg/L	0.00054	0.00011	20	07/17/20 15:05	07/17/20 21:56	83-32-9	
Acenaphthylene	0.011	mg/L	0.00044	0.000089	20	07/17/20 15:05	07/17/20 21:56	208-96-8	
Anthracene	0.017	mg/L	0.00093	0.00019	20	07/17/20 15:05	07/17/20 21:56	120-12-7	
Benzo(a)anthracene	0.0014	mg/L	0.00067	0.00013	20	07/17/20 15:05	07/17/20 21:56	56-55-3	
Benzo(a)pyrene	0.00046J	mg/L	0.00094	0.00019	20	07/17/20 15:05	07/17/20 21:56	50-32-8	
Benzo(b)fluoranthene	0.00098	mg/L	0.00051	0.00010	20	07/17/20 15:05	07/17/20 21:56	205-99-2	
Benzo(g,h,i)perylene	0.00054J	mg/L	0.00061	0.00012	20	07/17/20 15:05	07/17/20 21:56	191-24-2	
Benzo(k)fluoranthene	0.00055J	mg/L	0.00067	0.00013	20	07/17/20 15:05	07/17/20 21:56	207-08-9	B
Chrysene	0.0038	mg/L	0.0012	0.00023	20	07/17/20 15:05	07/17/20 21:56	218-01-9	
Dibenz(a,h)anthracene	<0.00018	mg/L	0.00089	0.00018	20	07/17/20 15:05	07/17/20 21:56	53-70-3	
Fluoranthene	0.0080	mg/L	0.00095	0.00019	20	07/17/20 15:05	07/17/20 21:56	206-44-0	
Fluorene	0.055	mg/L	0.00071	0.00014	20	07/17/20 15:05	07/17/20 21:56	86-73-7	
Indeno(1,2,3-cd)pyrene	0.00036J	mg/L	0.0016	0.00032	20	07/17/20 15:05	07/17/20 21:56	193-39-5	
1-Methylnaphthalene	0.087	mg/L	0.00053	0.00011	20	07/17/20 15:05	07/17/20 21:56	90-12-0	
2-Methylnaphthalene	0.0018	mg/L	0.00044	0.000088	20	07/17/20 15:05	07/17/20 21:56	91-57-6	L2
Naphthalene	0.025	mg/L	0.0016	0.00033	20	07/17/20 15:05	07/17/20 21:56	91-20-3	
Phenanthrene	0.082	mg/L	0.0012	0.00025	20	07/17/20 15:05	07/17/20 21:56	85-01-8	
Pyrene	0.028	mg/L	0.00068	0.00014	20	07/17/20 15:05	07/17/20 21:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	111	%	39-120		20	07/17/20 15:05	07/17/20 21:56	321-60-8	
Terphenyl-d14 (S)	0	%	10-159		20	07/17/20 15:05	07/17/20 21:56	1718-51-0	S4

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

QC Batch: 360436

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40211274002

METHOD BLANK: 2084231

Matrix: Water

Associated Lab Samples: 40211274002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	<0.00027	0.0010	07/17/20 08:44	
1,1,1-Trichloroethane	mg/L	<0.00024	0.0010	07/17/20 08:44	
1,1,2,2-Tetrachloroethane	mg/L	<0.00028	0.0010	07/17/20 08:44	
1,1,2-Trichloroethane	mg/L	<0.00055	0.0050	07/17/20 08:44	
1,1-Dichloroethane	mg/L	<0.00027	0.0010	07/17/20 08:44	
1,1-Dichloroethene	mg/L	<0.00024	0.0010	07/17/20 08:44	
1,1-Dichloropropene	mg/L	<0.00054	0.0018	07/17/20 08:44	
1,2,3-Trichlorobenzene	mg/L	<0.0022	0.0074	07/17/20 08:44	
1,2,3-Trichloropropane	mg/L	<0.00059	0.0050	07/17/20 08:44	
1,2,4-Trichlorobenzene	mg/L	<0.00095	0.0050	07/17/20 08:44	
1,2,4-Trimethylbenzene	mg/L	<0.00084	0.0028	07/17/20 08:44	
1,2-Dibromo-3-chloropropane	mg/L	<0.0018	0.0059	07/17/20 08:44	
1,2-Dibromoethane (EDB)	mg/L	<0.00083	0.0028	07/17/20 08:44	
1,2-Dichlorobenzene	mg/L	<0.00071	0.0024	07/17/20 08:44	
1,2-Dichloroethane	mg/L	<0.00028	0.0010	07/17/20 08:44	
1,2-Dichloropropane	mg/L	<0.00028	0.0010	07/17/20 08:44	
1,3,5-Trimethylbenzene	mg/L	<0.00087	0.0029	07/17/20 08:44	
1,3-Dichlorobenzene	mg/L	<0.00063	0.0021	07/17/20 08:44	
1,3-Dichloropropane	mg/L	<0.00083	0.0028	07/17/20 08:44	
1,4-Dichlorobenzene	mg/L	<0.00094	0.0031	07/17/20 08:44	
2,2-Dichloropropane	mg/L	<0.0023	0.0076	07/17/20 08:44	
2-Chlorotoluene	mg/L	<0.00093	0.0050	07/17/20 08:44	
4-Chlorotoluene	mg/L	<0.00076	0.0025	07/17/20 08:44	
Benzene	mg/L	<0.00025	0.0010	07/17/20 08:44	
Bromobenzene	mg/L	<0.00024	0.0010	07/17/20 08:44	
Bromochloromethane	mg/L	<0.00036	0.0050	07/17/20 08:44	
Bromodichloromethane	mg/L	<0.00036	0.0012	07/17/20 08:44	
Bromoform	mg/L	<0.0040	0.013	07/17/20 08:44	
Bromomethane	mg/L	<0.00097	0.0050	07/17/20 08:44	
Carbon tetrachloride	mg/L	<0.0011	0.0036	07/17/20 08:44	
Chlorobenzene	mg/L	<0.00071	0.0024	07/17/20 08:44	
Chloroethane	mg/L	<0.0013	0.0050	07/17/20 08:44	
Chloroform	mg/L	<0.0013	0.0050	07/17/20 08:44	
Chloromethane	mg/L	<0.0022	0.0073	07/17/20 08:44	
cis-1,2-Dichloroethene	mg/L	<0.00027	0.0010	07/17/20 08:44	
cis-1,3-Dichloropropene	mg/L	<0.0036	0.012	07/17/20 08:44	
Dibromochloromethane	mg/L	<0.0026	0.0087	07/17/20 08:44	
Dibromomethane	mg/L	<0.00094	0.0031	07/17/20 08:44	
Dichlorodifluoromethane	mg/L	<0.00050	0.0050	07/17/20 08:44	
Diisopropyl ether	mg/L	<0.0019	0.0063	07/17/20 08:44	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

METHOD BLANK: 2084231 Matrix: Water
Associated Lab Samples: 40211274002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/L	<0.00032	0.0011	07/17/20 08:44	
Hexachloro-1,3-butadiene	mg/L	<0.0015	0.0049	07/17/20 08:44	
Isopropylbenzene (Cumene)	mg/L	<0.0017	0.0056	07/17/20 08:44	
m&p-Xylene	mg/L	<0.00047	0.0020	07/17/20 08:44	
Methyl-tert-butyl ether	mg/L	<0.0012	0.0042	07/17/20 08:44	
Methylene Chloride	mg/L	<0.00058	0.0050	07/17/20 08:44	
n-Butylbenzene	mg/L	<0.00071	0.0024	07/17/20 08:44	
n-Propylbenzene	mg/L	<0.00081	0.0050	07/17/20 08:44	
Naphthalene	mg/L	<0.0012	0.0050	07/17/20 08:44	
o-Xylene	mg/L	<0.00026	0.0010	07/17/20 08:44	
p-Isopropyltoluene	mg/L	<0.00080	0.0027	07/17/20 08:44	
sec-Butylbenzene	mg/L	<0.00085	0.0050	07/17/20 08:44	
Styrene	mg/L	<0.0030	0.010	07/17/20 08:44	
tert-Butylbenzene	mg/L	<0.00030	0.0010	07/17/20 08:44	
Tetrachloroethene	mg/L	<0.00033	0.0011	07/17/20 08:44	
Toluene	mg/L	<0.00027	0.00090	07/17/20 08:44	
trans-1,2-Dichloroethene	mg/L	<0.00046	0.0015	07/17/20 08:44	
trans-1,3-Dichloropropene	mg/L	<0.0044	0.015	07/17/20 08:44	
Trichloroethene	mg/L	<0.00026	0.0010	07/17/20 08:44	
Trichlorofluoromethane	mg/L	<0.00021	0.0010	07/17/20 08:44	
Vinyl chloride	mg/L	<0.00017	0.0010	07/17/20 08:44	
4-Bromofluorobenzene (S)	%	87	70-130	07/17/20 08:44	
Dibromofluoromethane (S)	%	100	70-130	07/17/20 08:44	
Toluene-d8 (S)	%	99	70-130	07/17/20 08:44	

LABORATORY CONTROL SAMPLE: 2084232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.05	0.050	101	70-130	
1,1,2,2-Tetrachloroethane	mg/L	0.05	0.057	114	64-131	
1,1,2-Trichloroethane	mg/L	0.05	0.053	106	70-130	
1,1-Dichloroethane	mg/L	0.05	0.050	101	69-163	
1,1-Dichloroethene	mg/L	0.05	0.054	108	77-123	
1,2,4-Trichlorobenzene	mg/L	0.05	0.044	88	68-130	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.049	99	63-130	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.048	95	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.050	100	70-130	
1,2-Dichloroethane	mg/L	0.05	0.042	84	78-142	
1,2-Dichloropropane	mg/L	0.05	0.054	109	86-134	
1,3-Dichlorobenzene	mg/L	0.05	0.046	93	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.048	96	70-130	
Benzene	mg/L	0.05	0.050	100	70-130	
Bromodichloromethane	mg/L	0.05	0.054	108	70-130	
Bromoform	mg/L	0.05	0.045	90	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

LABORATORY CONTROL SAMPLE: 2084232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	mg/L	0.05	0.047	94	39-129	
Carbon tetrachloride	mg/L	0.05	0.053	106	70-132	
Chlorobenzene	mg/L	0.05	0.054	107	70-130	
Chloroethane	mg/L	0.05	0.047	95	66-140	
Chloroform	mg/L	0.05	0.050	99	75-132	
Chloromethane	mg/L	0.05	0.039	77	32-143	
cis-1,2-Dichloroethene	mg/L	0.05	0.048	97	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.053	106	70-130	
Dibromochloromethane	mg/L	0.05	0.047	95	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.024	47	10-141	
Ethylbenzene	mg/L	0.05	0.055	111	80-120	
Isopropylbenzene (Cumene)	mg/L	0.05	0.056	113	70-130	
m&p-Xylene	mg/L	0.1	0.11	112	70-130	
Methyl-tert-butyl ether	mg/L	0.05	0.046	93	61-129	
Methylene Chloride	mg/L	0.05	0.049	99	70-130	
o-Xylene	mg/L	0.05	0.055	111	70-130	
Styrene	mg/L	0.05	0.055	110	70-130	
Tetrachloroethene	mg/L	0.05	0.051	102	70-130	
Toluene	mg/L	0.05	0.055	110	80-120	
trans-1,2-Dichloroethene	mg/L	0.05	0.053	107	70-130	
trans-1,3-Dichloropropene	mg/L	0.05	0.046	93	69-130	
Trichloroethene	mg/L	0.05	0.057	114	70-130	
Trichlorofluoromethane	mg/L	0.05	0.051	103	75-145	
Vinyl chloride	mg/L	0.05	0.049	98	51-140	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

QC Batch: 360524 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40211274001, 40211274003

METHOD BLANK: 2084733 Matrix: Water

Associated Lab Samples: 40211274001, 40211274003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/L	<0.000059	0.000030	07/17/20 17:19	
2-Methylnaphthalene	mg/L	<0.000049	0.000024	07/17/20 17:19	
Acenaphthene	mg/L	<0.000061	0.000030	07/17/20 17:19	
Acenaphthylene	mg/L	<0.000050	0.000025	07/17/20 17:19	
Anthracene	mg/L	<0.000010	0.000052	07/17/20 17:19	
Benzo(a)anthracene	mg/L	<0.000076	0.000038	07/17/20 17:19	
Benzo(a)pyrene	mg/L	<0.000011	0.000053	07/17/20 17:19	
Benzo(b)fluoranthene	mg/L	<0.000057	0.000029	07/17/20 17:19	
Benzo(g,h,i)perylene	mg/L	<0.000068	0.000034	07/17/20 17:19	
Benzo(k)fluoranthene	mg/L	0.000095J	0.000038	07/17/20 17:19	
Chrysene	mg/L	<0.000013	0.000065	07/17/20 17:19	
Dibenz(a,h)anthracene	mg/L	<0.000010	0.000050	07/17/20 17:19	
Fluoranthene	mg/L	0.000015J	0.000053	07/17/20 17:19	
Fluorene	mg/L	<0.000080	0.000040	07/17/20 17:19	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000018	0.000088	07/17/20 17:19	
Naphthalene	mg/L	<0.000018	0.000092	07/17/20 17:19	
Phenanthrene	mg/L	<0.000014	0.000069	07/17/20 17:19	
Pyrene	mg/L	0.000011J	0.000038	07/17/20 17:19	
2-Fluorobiphenyl (S)	%	52	39-120	07/17/20 17:19	
Terphenyl-d14 (S)	%	115	10-159	07/17/20 17:19	

LABORATORY CONTROL SAMPLE & LCSD: 2084734

2084735

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	mg/L	0.002	0.00084	0.00074	42	37	37-120	13	25	
2-Methylnaphthalene	mg/L	0.002	0.00074	0.00073	37	36	38-120	1	25 L2	
Acenaphthene	mg/L	0.002	0.0011	0.0010	54	50	49-120	8	24	
Acenaphthylene	mg/L	0.002	0.00098	0.00088	49	44	43-85	11	26	
Anthracene	mg/L	0.002	0.0013	0.0013	67	64	57-110	5	28	
Benzo(a)anthracene	mg/L	0.002	0.0013	0.0013	67	63	47-118	7	27	
Benzo(a)pyrene	mg/L	0.002	0.0017	0.0016	87	82	70-120	6	20	
Benzo(b)fluoranthene	mg/L	0.002	0.0015	0.0014	75	72	54-97	3	21	
Benzo(g,h,i)perylene	mg/L	0.002	0.0014	0.0012	71	59	26-74	19	42	
Benzo(k)fluoranthene	mg/L	0.002	0.0022	0.0021	108	106	73-126	2	22	
Chrysene	mg/L	0.002	0.0021	0.0021	105	103	75-151	1	20	
Dibenz(a,h)anthracene	mg/L	0.002	0.0014	0.0011	69	57	13-72	19	50	
Fluoranthene	mg/L	0.002	0.0016	0.0015	79	75	63-120	5	20	
Fluorene	mg/L	0.002	0.0013	0.0012	66	61	53-120	7	26	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0018	0.0016	88	80	51-101	10	27	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

Parameter	Units	Spike Conc.	2084734		2084735		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Naphthalene	mg/L	0.002	0.00093	0.00085	46	43	41-120	8	24	
Phenanthrene	mg/L	0.002	0.0011	0.0010	56	50	47-100	12	22	
Pyrene	mg/L	0.002	0.0015	0.0014	75	71	70-128	5	20	
2-Fluorobiphenyl (S)	%				49	44	39-120			
Terphenyl-d14 (S)	%				96	92	10-159			

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QUALIFIERS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40211274

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: 360536

[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.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40211274

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40211274001	MW-3	EPA 3510	360524	EPA 8270 by HVI	360536
40211274003	MW-4	EPA 3510	360524	EPA 8270 by HVI	360536
40211274002	MW-5	EPA 8260	360436		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **DAE Env.**
 Branch/Location: **Lake Forest, IL**
 Project Contact: **Chris Caillies**
 Phone: **847-573-8900**
 Project Number: **6255**
 Project Name: **Sunrise Shopping Center**
 Project State: **WI**
 Sampled By (Print): **Kenneth Grochowski**
 Sampled By (Sign): *[Signature]*

PO #: _____ Regulatory Program: _____

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
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-3	7-14-20	1015	GW
002	MW-5	↓	1030	↓
003	MW-4	↓	1045	↓



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

Page 1 of 1
 40211274

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

Filtered? (YES/NO)	Preservation (CODE)*	Y/N	Pick Letter	Analysis Requested
			B	VOX
			A	PWA

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

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

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: *[Signature]* Date/Time: **7/15/20 10:05**
 Relinquished By: *[Signature]* Date/Time: **7/15/20 1700**
 Relinquished By: **CS Logistics** Date/Time: **7-16-20 0835**
 Relinquished By: _____ Date/Time: _____

Received By: *[Signature]* Date/Time: **7/16/20 1005**
 Received By: **CS Logistics** Date/Time: **7/15/20**
 Received By: *[Signature]* Date/Time: **7-16-20 0835**
 Received By: _____ Date/Time: _____

PACE Project No. _____
 Receipt Temp = **ROT** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact



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# : 40211274

40211274

Client Name: DAI Env.

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 - n/a Type of Ice: Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RGE / Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 7-16-20 / Initials: MLR
Labeled By Initials: MLR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.	<u>Mail/invoice info</u> <u>MLR 7-16-20</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	<u>no year</u> <u>MLR 7-16-20</u>
-Includes date/time/ID/Analysis Matrix: <u>SW</u>			
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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