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November 21, 2019

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***
(October 2019 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. As discussed in the October 18, 2018, *Design Report Addendum/Remedial Action Plan*, quarterly groundwater sampling will continue to being performed at three (3) monitoring wells on-site. Sampling is performed to monitor any changes in Polynuclear Aromatic Hydrocarbon groundwater contaminant concentrations at MW-3 and MW-4, and to determine the need for any future remedial actions. Sampling is also conducted document Tetrachloroethene groundwater concentrations in MW-5 during and following the chemical injections.

A brief discussion of the quarterly sampling protocol and results of the October 2019 groundwater sampling are included in this quarterly report. The results of the groundwater sample collected from monitoring well MW-5 as part of post-injection progress monitoring are also provided 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

cc: Steven Dukatt – Carol Investment Corporation (w/enclosure electronically)

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QUARTERLY GROUNDWATER SAMPLING REPORT (OCTOBER 2019 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

November 21, 2019

DAI Project Number: 6255

Prepared For:
Carol Investment Corporation
1410 South Clinton Street
Chicago, IL 60607

Prepared By:
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Lake Forest, Illinois 60045

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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 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^{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 fourth quarter 2019 groundwater sampling event. The static water level elevations were collected from all monitoring wells on October 24, 2019, with the exception of MW-2 which was obstructed at the time of sampling. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that the October groundwater elevations were slightly higher than observed in July. 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 October 2019 data is included as Figure B.3.c.11 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the fourth quarter 2019 (i.e., October-December 2019) were collected on October 24, 2019, 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. An additional groundwater sample was also collected from MW-5 in September 2019 to monitor the remedial progress following October's chemical injections. 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 fourth quarter 2019 sampling is provided in this report as Attachment C.1.E. The laboratory report for the September 2019 sample from MW-5 is also provided in Attachment C.1.E

Volatile Organic Compounds

Table A.1.A summarizes the groundwater results for VOC analyses at MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location). As observed in the table, Perc has been consistently noted in monitoring well MW-5, with concentrations exceeding the Enforcement Standard of 0.005-mg/L since February 2016. The recent Perc concentrations observed in MW-5 of 0.0153-mg/L (September) and 0.012-mg/L (October) are generally consistent with the previous two (2) quarters, 0.0114-mg/L (April) and 0.0106-mg/L (July). Figure B.3.b.1a provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination.

Trichloroethene (TCE), a breakdown product of Perc, was first detected in MW-5 in January 2019. The January and April 2019 concentrations of 0.0027-mg/L and 0.00071-mg/L both exceeded the PAL. However, all subsequent TCE concentrations are below the PAL, with the most recent concentration from October 2019 of 0.00039-mg/L. Figure B.3.b.1b has been added to provide a historical summary of TCE groundwater concentrations.

The chemical injection of RemOx® to remediate the subsurface chlorinated solvent contamination was proposed in the October 2018 RAP, and was approved by WDNR in a letter dated December 19, 2018. The chemical injections were initiated in May 2019 and have been ongoing since then. These chemical injections have primarily targeted the Perc source area located within the 2410-2412 tenant spaces. Chemical injections were also performed outside the building around MW-5 in August 2019.

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 October 2019 results remain above the Enforcement Standards and indicate an increase from the July 2019 results, though the concentrations remain an order of magnitude lower than the April 2019 concentration spike. No discernable trend in PAH concentrations can be determined thus far due to the high variability in observed concentrations with time. It appears that the groundwater concentrations are most influenced by fluctuations in the groundwater table elevation changes through the contaminated fill material, particularly in the area for MW-3. However, these impacts are still limited to the area along the southern property boundary.

Several PAH constituents continue to be observed at concentrations above 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). Consistent with the observations in MW-3, PAH concentrations in MW-4 increased in October 2019. Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene concentrations in MW-4 are all observed slightly above the Enforcement Standards, the first such observation since January 2018. All concentrations were below the PALs in July 2019, and review of the historical data indicates that the Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene concentrations are approximately equal to the PALs. PAH concentrations will be closely observed for signs of an increasing trend, but it is anticipated that concentrations will slowly decline to levels below the PALs.

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 injection activities 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. Chemical injections in the area of MW-5 were continued in August 2019, although no significant change in groundwater concentration was observed.
- 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 observed in MW-3 in July and October 2019 are below the results obtained April 2019, but remain above the Enforcement Standards for Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene. The October 2019 Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene concentrations in MW-4 increased from the July 2019 sampling event, but this increase is likely associated with the 0.87-ft increase in groundwater elevation that may have flushed residual contamination from the former tank cavity backfill material into the well.
- The next quarterly sampling event is scheduled for January 2020.

APPENDIX A
TABLES

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

Volatile Organic Compound	Sample Location (Sample Date)				PAL[1]	ES[2]
	TW-2 (11/12/14)	MW-5 (01/27/15)	MW-5 (02/23/16)	MW-5 (05/30/17)		
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00023	<0.00023	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00034	<0.00034	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.0024*	<0.0024*	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.0022	<0.0022	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.00018	<0.00018	NL	NL
Carbon tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Chloroethane	<0.00037	<0.00037	<0.00037	<0.00037	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0025*	<0.0025*	0.0006	0.006
Chloromethane	<0.0005	<0.0005	<0.0005	<0.0005	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00021	<0.00021	NL	NL
Dibromochloromethane	<0.0005	<0.0005	<0.0005	<0.0005	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0022*	<0.0022*	<0.0022*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00016*	<0.00018*	<0.00018*	<0.00018*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00043	<0.00043	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.015	0.075
Dichlorodifluoromethane	<0.0002	<0.00022	<0.00022	<0.00022	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00024	<0.00024	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00017	<0.00017	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00041	<0.00041	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	0.007	0.07
trans-1,2-Dichoroethene	<0.00026	<0.00026	<0.00026	<0.00026	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.00048	<0.00048	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.00073*	<0.00073*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.14	0.7
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
Isopropyl benzene	<0.00014	<0.00014	<0.00014	<0.00014	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.00017	<0.00017	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0025	<0.0025	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Styrene	<0.0005	<0.0005	<0.0005	<0.0005	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00018	<0.00018	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00025*	<0.00025*	0.00002	0.0002
Tetrachloroethene	**0.0026**	**0.0026**	**0.0083**	**0.0124**	0.0005	0.005

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

Volatile Organic Compound	Sample Location (Sample Date)				PAL[1]	ES[2]
	TW-2 (11/12/14)	MW-5 (01/27/15)	MW-5 (02/23/16)	MW-5 (05/30/17)		
Toluene	<0.0005	<0.0005	<0.0005	<0.0005	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005	<0.0005	0.04	0.2
1,1,2-Trichloroethane	<0.00016	<0.0002	<0.0002	<0.0002	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00033	<0.00033	0.0005	0.005
Trichlorofluoromethane	<0.00017	<0.00018	<0.00018	<0.00018	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005		
Vinyl chloride	<0.00018	<0.00018	<0.00018	<0.00018	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.0015	<0.0015	3.96	260

[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
* – Limit of detection reported greater than most stringent applicable standard; "non-detect" concentration not taken as exceedance per NR140.14(3)(a)
(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification
NL – Not Listed in NR 140
VOCs via USEPA Method SW8260
NOTE – MW-5 generally duplicated TW-2

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

Volatile Organic Compound	Sample Location (Sample Date)				PAL[1]	ES[2]
	MW-5 (01/05/18)	MW-5 (04/07/18)	MW-5 (07/30/18)	MW-5 (10/11/18)		
Benzene	<0.0005	<0.0005	<0.00025	<0.00025	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00024	<0.00024	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00036	<0.00036	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.00036*	<0.00036*	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.004*	<0.004*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.00097	<0.00097	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.00071	<0.00071	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.00085	<0.00085	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.0003	<0.0003	NL	NL
Carbon tetrachloride	<0.0005	<0.0005	<0.00017	<0.00017	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.00071	<0.00071	NL	NL
Chloroethane	<0.00037	<0.00037	<0.0013	<0.0013	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0013*	<0.0013*	0.0006	0.006
Chloromethane	<0.0005	<0.0005	<0.0022	<0.0022	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.00093	<0.00093	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00076	<0.00076	NL	NL
Dibromochloromethane	<0.0005	<0.0005	<0.0026	<0.0026	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0022*	<0.0018*	<0.0018*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00018*	<0.00018*	<0.00083*	<0.00083*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00094	<0.00094	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.00071	<0.00071	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.00063	<0.00063	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.00094	<0.00094	0.015	0.075
Dichlorodifluoromethane	<0.00022	<0.00022	<0.0005	<0.0005	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00027	<0.00027	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00028	<0.00028	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00024	<0.00024	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00027	<0.00027	0.007	0.07
trans-1,2-Dichoroethene	<0.00026	<0.00026	<0.0011	<0.0011	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00028	<0.00028	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.00083	<0.00083	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.0023	<0.0023	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00054	<0.00054	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.008*	<0.008*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0019	<0.0019	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.00022	<0.00022	0.14	0.7
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0012	<0.0012	NL	NL
Isopropyl benzene	<0.00014	<0.00014	<0.00039	<0.00039	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0008	<0.0008	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00058*	<0.00058*	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.0012	<0.0012	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0012	<0.0012	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.00081	<0.00081	NL	NL
Styrene	<0.0005	<0.0005	<0.00047	<0.00047	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00027	<0.00027	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00028*	<0.00028*	0.00002	0.0002

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

Volatile Organic Compound	Sample Location (Sample Date)				PAL[1]	ES[2]
	MW-5 (01/05/18)	MW-5 (04/07/18)	MW-5 (07/30/18)	MW-5 (10/11/18)		
Tetrachloroethene	**<u>0.0181</u>**	**<u>0.0203</u>**	**<u>0.0086</u>**	**<u>0.021</u>**	0.0005	0.005
Toluene	<0.0005	<0.0005	<0.00017	<0.00017	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.00063	<0.00063	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.00095	<0.00095	0.014	0.07
1,1,1-Trichloroethane	<0.00057	0.000897	0.00088	0.00095 (J)	0.04	0.2
1,1,2-Trichloroethane	<0.0002	<0.0002	<0.00055*	<0.00055*	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00026	0.00027 (J)	0.0005	0.005
Trichlorofluoromethane	<0.00018	<0.00018	<0.00021	<0.00021	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.00059	<0.00059	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.00084	<0.00084	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005	<0.0005	<0.00087	<0.00087		
Vinyl chloride	<0.00018	<0.00018	<0.00017	<0.00017	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.00073	<0.00073	3.96	260

[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
<u>Underlined</u> – Concentration exceeds the PAL and the ES
* – Limit of detection reported greater than most stringent applicable standard; "non-detect" concentration not taken as exceedance per NR140.14(3)(a)
(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification
NL – Not Listed in NR 140
VOCs via USEPA Method SW8260

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

Volatile Organic Compound	Sample Location (Sample Date)					PAL[1]	ES[2]
	MW-5 (01/25/19)	MW-5 (04/29/19)	MW-5 (07/07/19)	MW-5 (09/05/19)	MW-5 (10/24/19)		
Benzene	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	0.0005	0.005
Bromobenzene	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	NL	NL
Bromochloromethane	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	NL	NL
Bromodichloromethane	<0.00036*	<0.00036*	<0.00036*	<0.00036*	<0.00036*	0.00006	0.0006
Bromoform	<0.004*	<0.004*	<0.004*	<0.004*	<0.004*	0.00044	0.0044
Bromomethane	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	0.001	0.01
n-Butylbenzene	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	NL	NL
sec-Butylbenzene	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	NL	NL
tert-Butylbenzene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	NL	NL
Carbon tetrachloride	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.0005	0.005
Chlorobenzene	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	NL	NL
Chloroethane	<0.0013	0.0036 (J)	<0.0013	<0.0013	<0.0013	0.08	0.4
Chloroform	<0.0013*	<0.0013*	<0.0013*	<0.0013*	<0.0013*	0.0006	0.006
Chloromethane	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.003	0.03
2-Chlorotoluene	<0.00093	<0.00093	<0.00093	<0.00093	<0.00093	NL	NL
4-Chlorotoluene	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	NL	NL
Dibromochloromethane	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0018*	<0.0018*	<0.0018*	<0.0018*	<0.0018*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00083*	<0.00083*	<0.00083*	<0.00083*	<0.00083*	0.000005	0.00005
Dibromomethane	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	NL	NL
1,2-Dichlorobenzene	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	0.06	0.6
1,3-Dichlorobenzene	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	0.12	0.6
1,4-Dichlorobenzene	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	0.015	0.075
Dichlorodifluoromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.2	1
1,1-Dichloroethane	0.0016	<0.00027	<0.00027	<0.00027	<0.00027	0.085	0.85
1,2-Dichloroethane	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.0005	0.005
1,1-Dichloroethene	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	0.0007	0.007
cis-1,2-Dichloroethene	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	0.007	0.07
trans-1,2-Dichoroethene	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.02	0.1
1,2-Dichloropropane	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.0005	0.005
1,3-Dichloropropane	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	NL	NL
2,2-Dichloropropane	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	NL	NL
1,1-Dichloropropene	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	NL	NL
1,3-Dichloropropene (c & t)	<0.008*	<0.008*	<0.008*	<0.008*	<0.008*	0.00004	0.0004
Diisopropyl ether	<0.0019	<0.0019	<0.0019	<0.0019	--	NL	NL
Ethylbenzene	0.00037 (J)	<0.00022	<0.00022	<0.00022	<0.00022	0.14	0.7
Hexachloro-1,3-butadiene	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	NL	NL
Isopropyl benzene	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	NL	NL
p-Isopropyltoluene	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	NL	NL
Methylene chloride	<0.00058*	<0.00058*	<0.00058*	<0.00058*	<0.00058*	0.0005	0.005
Methyl tertiary-butyl ether	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.012	0.06
Naphthalene	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.01	0.1
n-Propylbenzene	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	NL	NL
Styrene	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00028*	<0.00028*	<0.00028*	<0.00028	<0.00028	0.00002	0.0002

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

Volatile Organic Compound	Sample Location (Sample Date)					PAL[1]	ES[2]
	MW-5 (01/25/19)	MW-5 (04/29/19)	MW-5 (07/07/19)	MW-5 (09/05/19)	MW-5 (10/24/19)		
Tetrachloroethene	**0.0065**	**0.0114**	**0.0106**	**0.0153**	**0.012**	0.0005	0.005
Toluene	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.16	0.8
1,2,3-Trichlorobenzene	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	NL	NL
1,2,4-Trichlorobenzene	<0.00095	<0.00095	<0.00095	<0.00095	0.0014 (J)	0.014	0.07
1,1,1-Trichloroethane	0.0003 (J)	0.00041 (J)	0.00038 (J)	0.00046 (J)	0.00041 (J)	0.04	0.2
1,1,2-Trichloroethane	<0.00055*	<0.00055*	<0.00055*	<0.00055*	<0.00055*	0.0005	0.005
Trichloroethene	**0.0027**	**0.00071 (J)**	0.00048 (J)	0.00038 (J)	0.00039 (J)	0.0005	0.005
Trichlorofluoromethane	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	0.7	3.5
1,2,3-Trichloropropane	<0.00059	<0.00059	<0.00059	<0.00059	<0.00059	0.012	0.06
1,2,4-Trimethylbenzene	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084	0.096	0.48
1,3,5-Trimethylbenzene	<0.00087	<0.00087	<0.00087	<0.00087	<0.00087		
Vinyl chloride	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.4	2
Xylenes (total)	0.0039	<0.00073	<0.00073	<0.0015	<0.0015	3.96	260

[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
* – Limit of detection reported greater than most stringent applicable standard; "non-detect" concentration not taken as exceedance per NR140.14(3)(a)
(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification
NL – Not Listed in NR 140
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)		
Acenaphthene	0.00001 (J)	0.0000068 (J)	0.0015	0.000023 (J)	0.00016	NL	NL
Acenaphthylene	<0.0000045	<0.0000047	0.0027	0.000084	0.00043	NL	NL
Anthracene	0.00002 (J)	0.000027 (J)	0.0089	0.00013	0.00088	0.6	3
Benzo(a)anthracene	0.000017 (J)	0.000053	0.11	0.00087	0.009	NL	NL
Benzo(a)pyrene	**0.000024 (J)**	**0.00017**	**0.115**	**0.0019**	**0.015**	0.00002	0.0002
Benzo(b)fluoranthene	**0.000074**	**0.00034**	**0.209**	**0.0036**	**0.03**	0.00002	0.0002
Benzo(g,h,i)perylene	0.000037	0.00023	0.132	0.0025	0.018	NL	NL
Benzo(k)fluoranthene	0.000026 (J)	0.00012	0.0643	0.0016	0.0095	NL	NL
Chrysene	**0.000079**	**0.00028**	**0.13**	**0.0026**	**0.016**	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000009	0.000034 (J)	0.0258	0.00028	0.0034	NL	NL
Fluoranthene	0.00026	0.00043	**0.248**	0.0035	0.025	0.08	0.4
Fluorene	0.000031 (J)	0.000014 (J)	0.0028	0.000037	0.00022	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.000027 (J)	0.00016	0.108	0.0019	0.014	NL	NL
1-Methylnaphthalene	0.000019 (J)	0.000013 (J)	0.0003	0.000011 (J)	--	NL	NL
2-Methylnaphthalene	0.000015 (J)	0.000012 (J)	0.00025	0.000014 (J)	--	NL	NL
Naphthalene	0.000032 (J)	0.000022 (J)	0.00035	0.000019 (J)	0.00015	0.017	0.1
Phenanthrene	0.000093	0.00011	0.066	0.00079	0.0061	NL	NL
Pyrene	0.0002	0.00031	**0.21**	0.0029	0.024	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)	**<u><0.00049</u>**	**<0.0002**	<0.0000095	0.00002	0.0002
Benzo(b)fluoranthene	0.0000093 (J)	**0.000043 (J)**	0.000014 (J)	**<0.00027**	**<u>0.00022 (J)</u>**	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)	**<u>0.0018 (J)</u>**	**<u>0.001 (J)</u>**	**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	0.01	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
<u>Underlined</u> – 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	0.01	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.5. Ace Hardware Sump Water Analytical Table for Tetrachlorethene (mg/L)

Sample Location	Sample Date	Tetrachloroethene
Sump	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

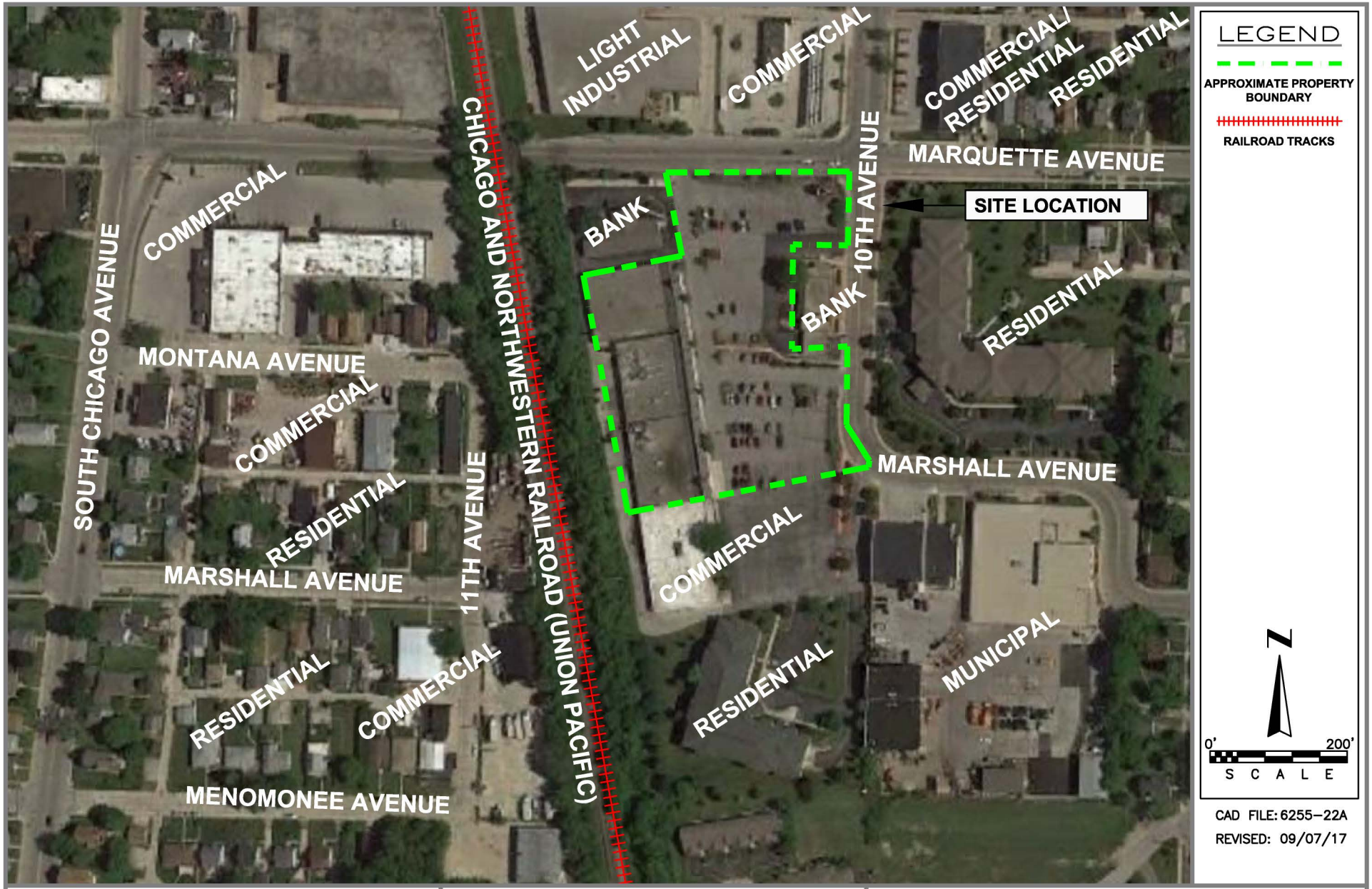
Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-1	99.13	10/24/19	3.07	14.49	96.06
		07/07/19	3.46		95.67
		04/29/19	2.35		96.78
		01/25/19	4.65		94.48
		10/11/18	1.66		97.47
		07/30/18	3.32		95.81
		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	10/14/19	Obstructed	14.41	--
		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	10/14/19	3.61	14.46	96.44
		07/07/19	3.73		96.32
		04/29/19	2.61		97.44
		01/25/19	4.44		95.61
		10/11/18	2.35		97.70
		07/30/18	3.62		96.43
		04/08/18	2.53		97.52
		02/27/18	2.43		97.62
		05/30/17	2.45		97.60
		04/24/15	2.27		97.78
		03/30/15	2.73		97.32
		01/27/15	4.46		95.59
MW-4	100.57	10/24/19	6.14	14.57	94.43
		07/07/19	6.98		93.59
		04/29/19	7.30		93.27
		01/25/19	6.88		93.69
		10/11/18	5.43		95.14
		07/30/18	6.91		93.66
		04/08/18	7.26		93.31
		02/27/18	7.23		93.34
		05/30/17	6.38		94.19
		04/24/15	5.94		94.63
		03/30/15	7.04		93.53
		01/27/15	6.53		94.04

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-5	100.24	10/24/19	5.98	14.60	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	10/24/19	6.57	14.57	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

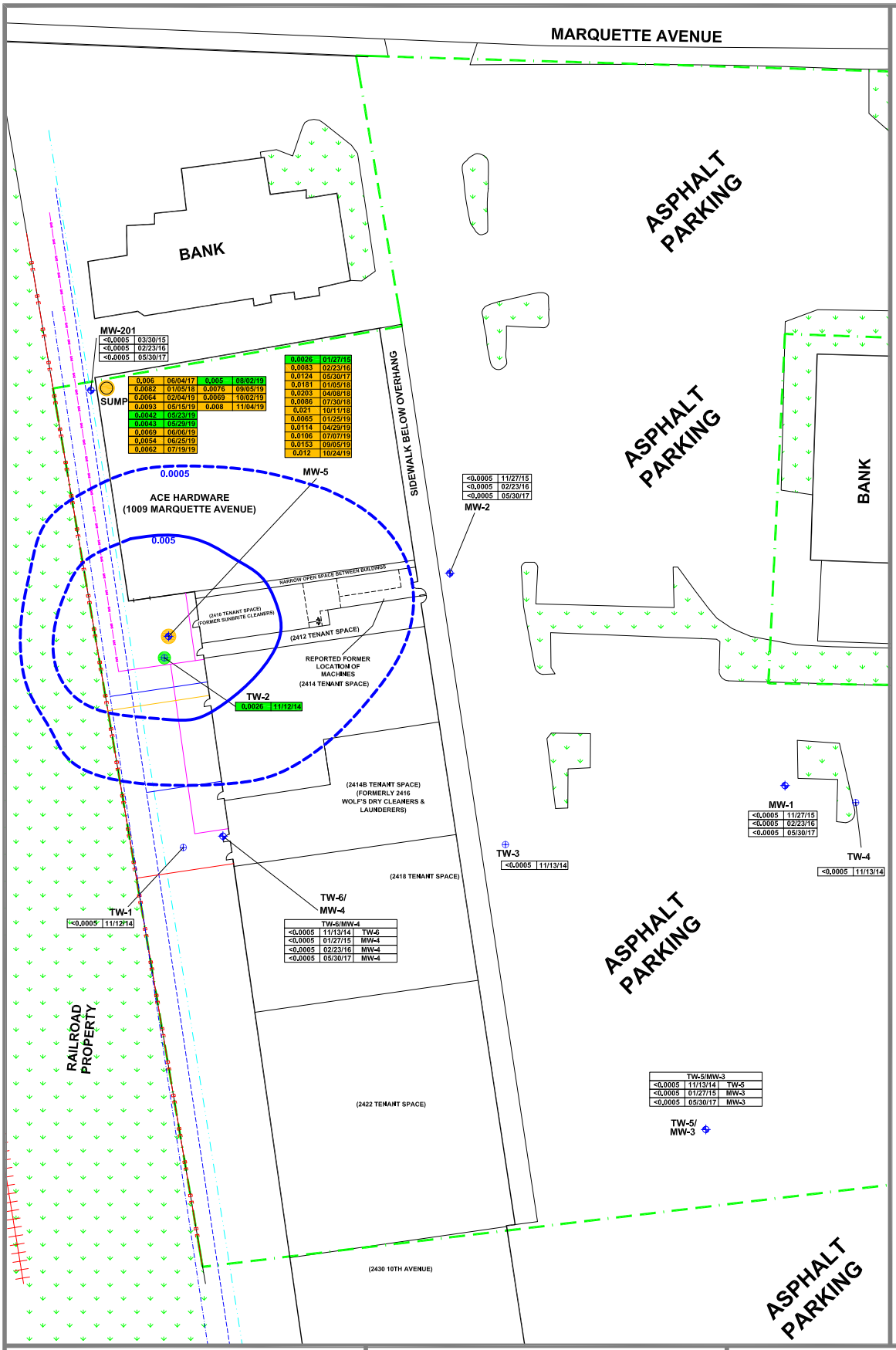


CAD FILE: 6255–22A
REVISED: 09/07/17

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
(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

SITE INVESTIGATION DEFINED PERC ISOCONCENTRATION LINE (mg/L)

SITE INVESTIGATION ESTIMATED PERC ISOCONCENTRATION LINE (mg/L)

N

0' 65'

S C A L E

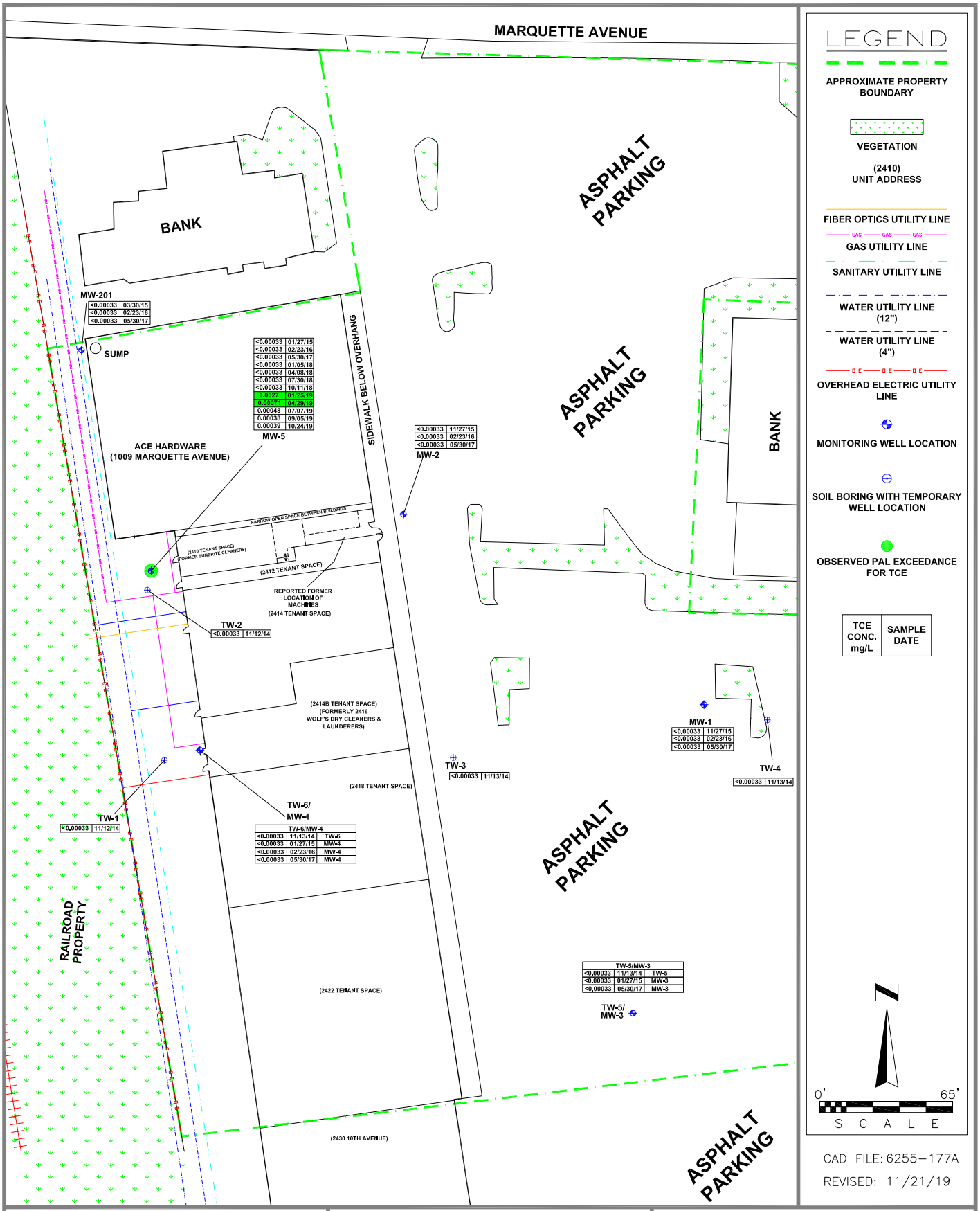
CAD FILE: 6255-133G

REVISED: 11/21/19

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

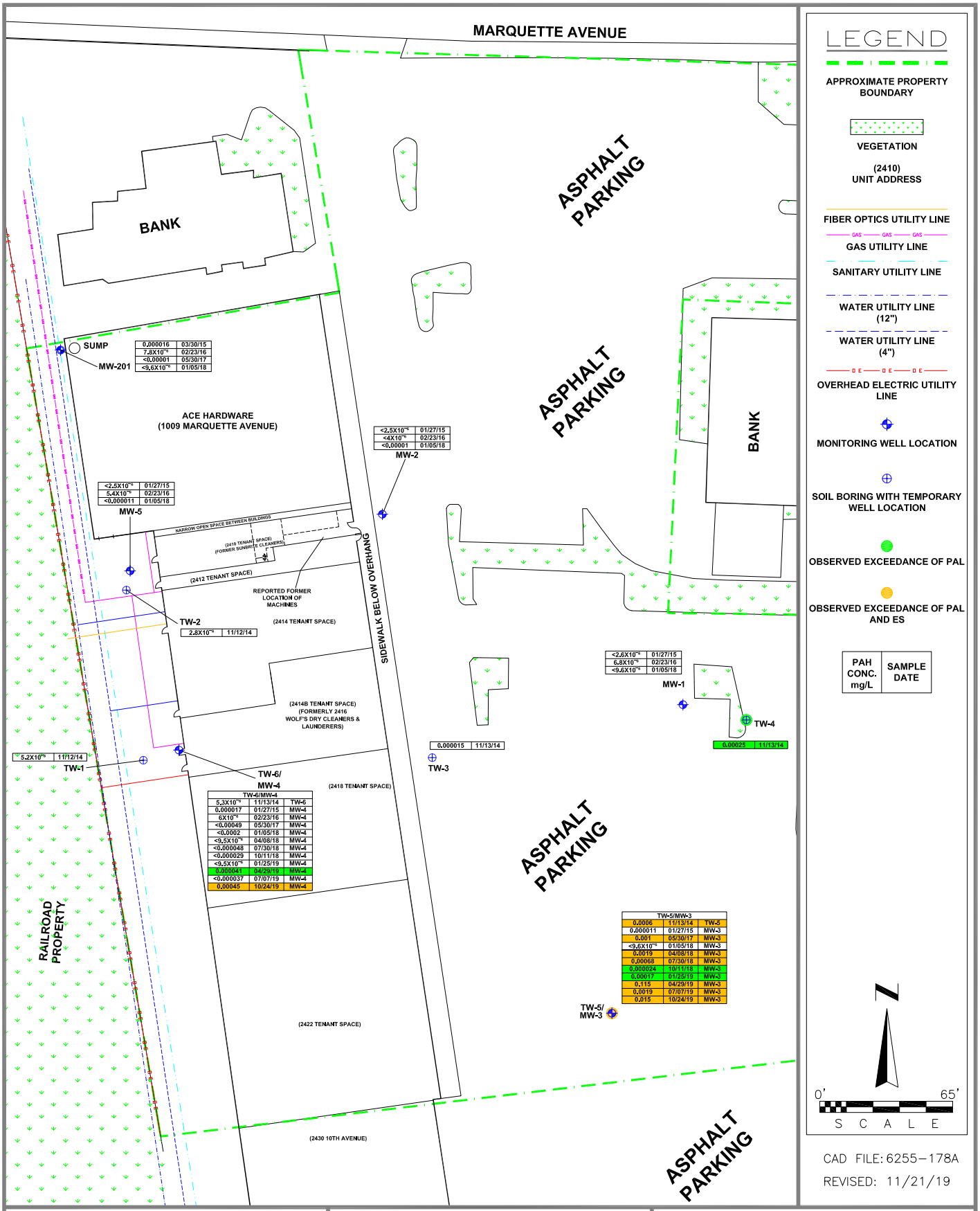
CAD FILE: 6255-177A

REVISED: 11/21/19

ENVIRONMENTAL DAI

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

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



LEGEND

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

PAH CONC. mg/L	SAMPLE DATE

N

0' 65'

S C A L E

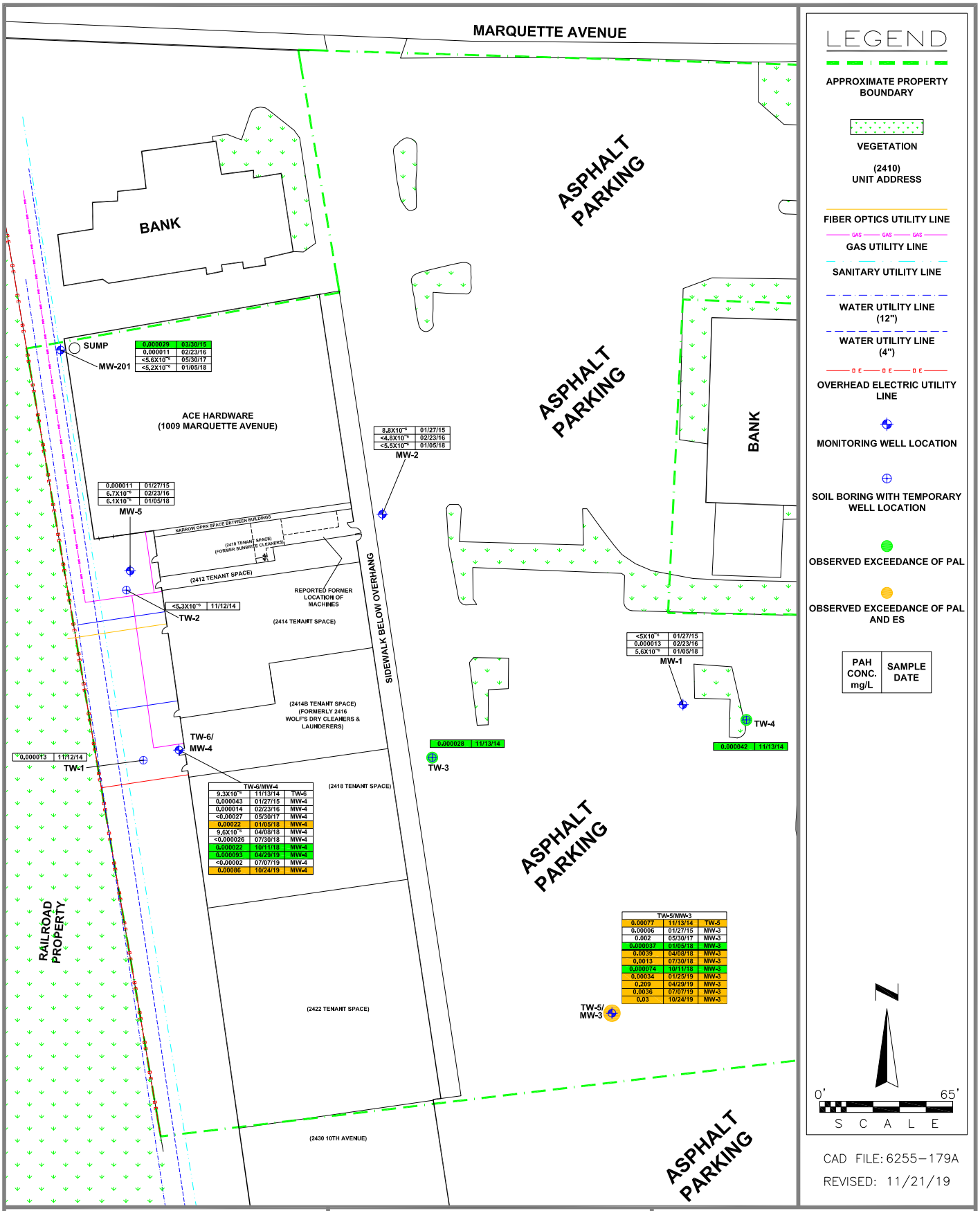
CAD FILE: 6255-178A

REVISED: 11/21/19

ENVIRONMENTAL DAI

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

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



LEGEND

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

PAH CONC. mg/L	SAMPLE DATE

N

0' 65'

S C A L E

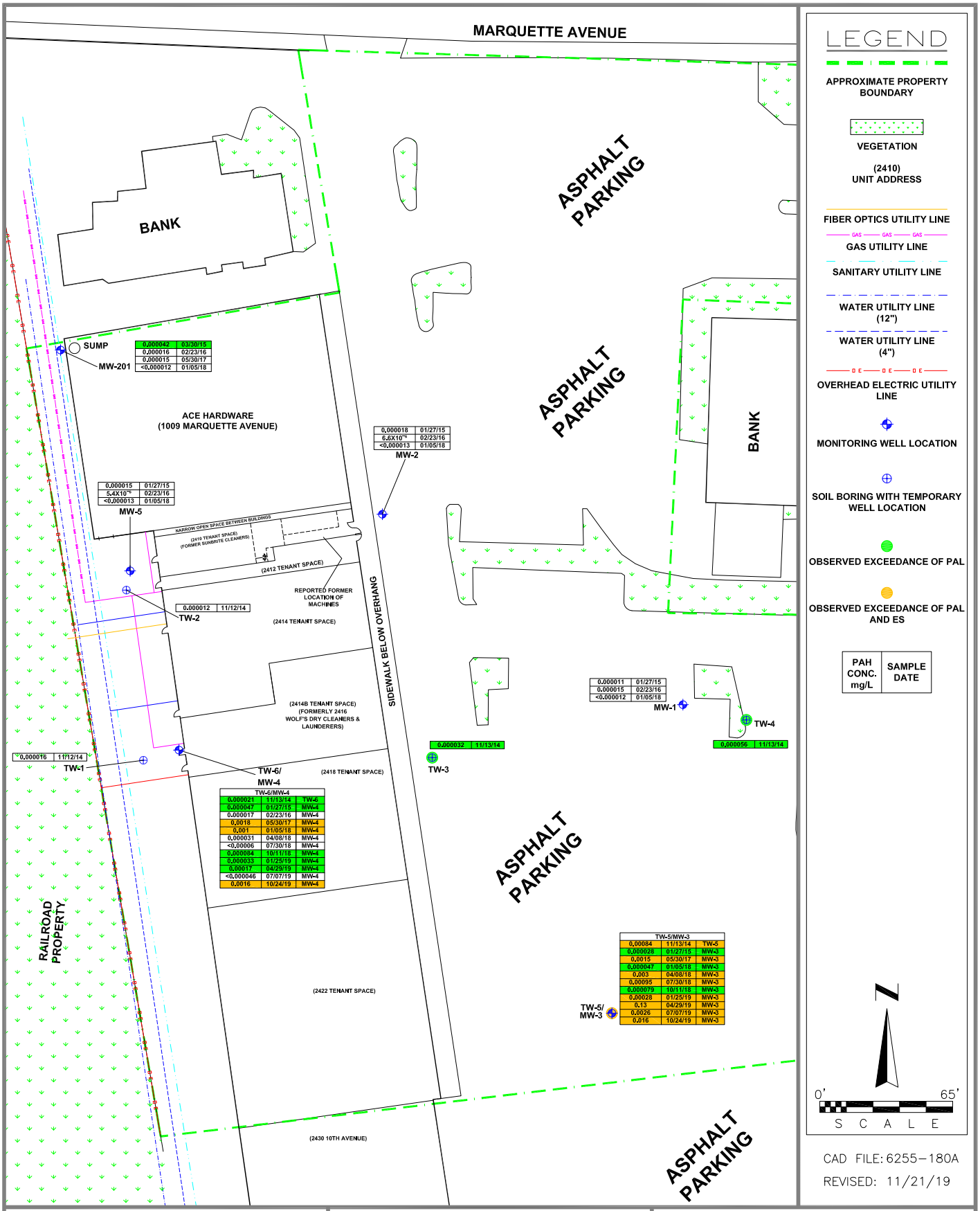
CAD FILE: 6255-179A

REVISED: 11/21/19

ENVIRONMENTAL DAI

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

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



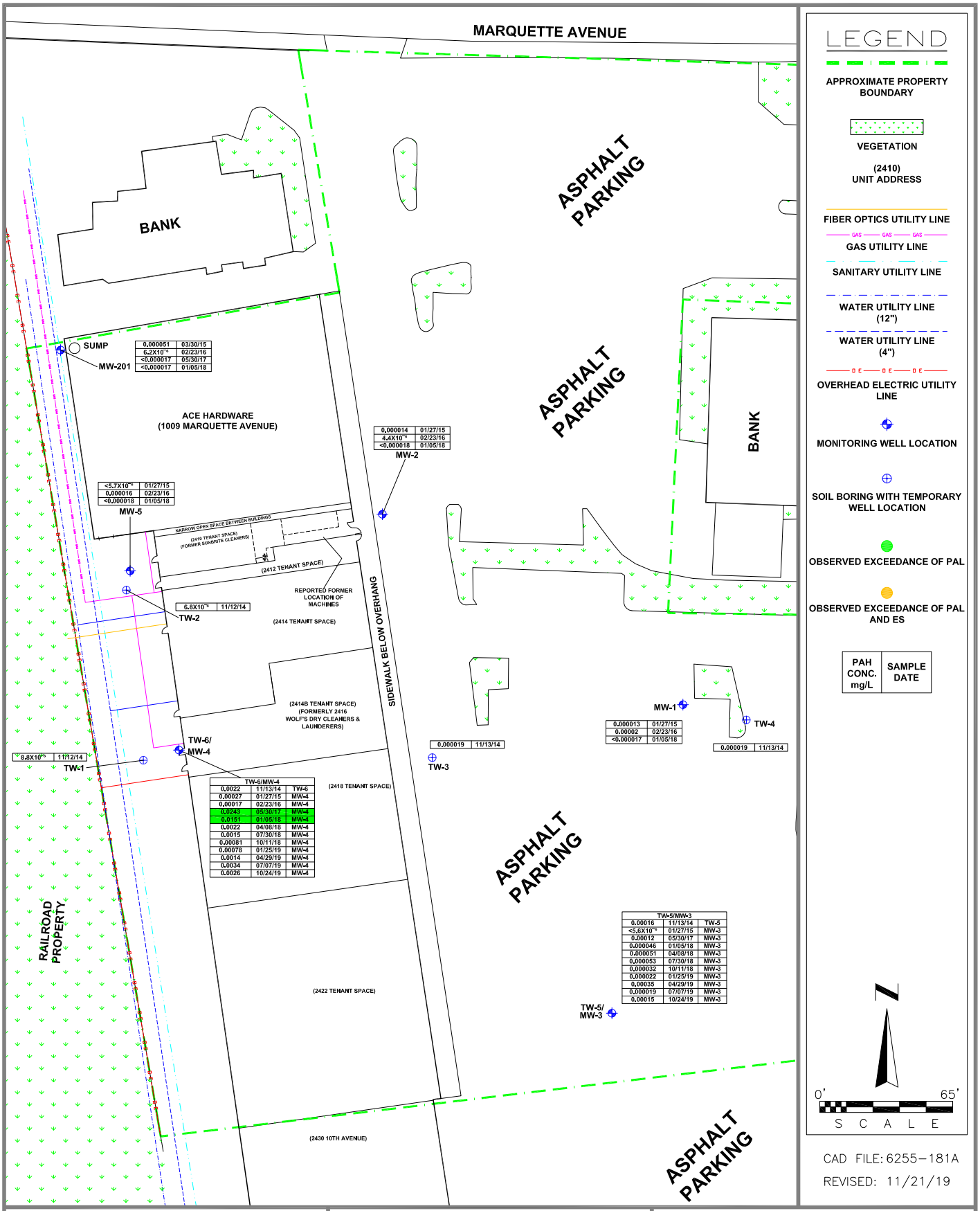
CAD FILE: 6255-180A

REVISED: 11/21/19

ENVIRONMENTAL DAI

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

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



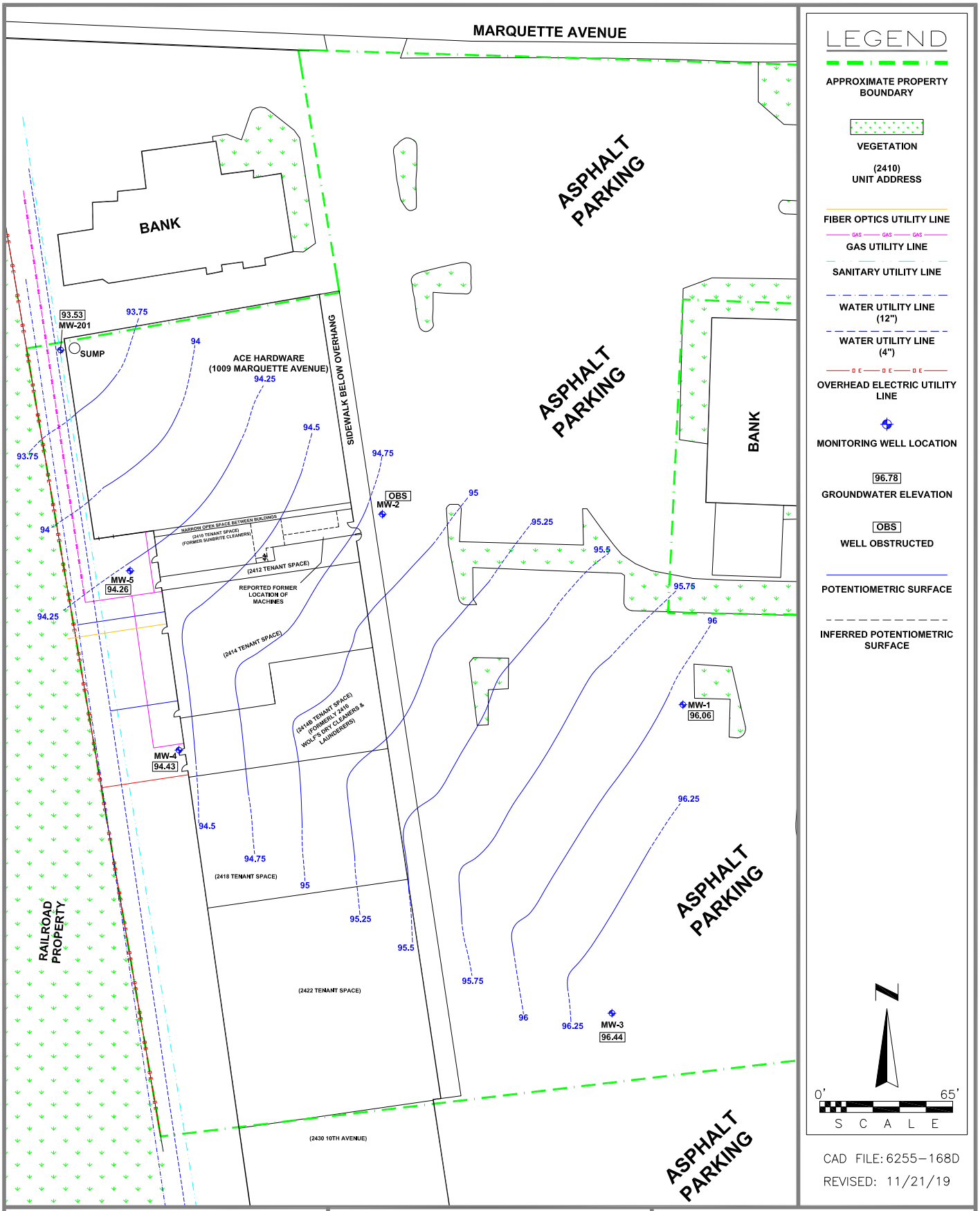
CAD FILE: 6255-181A

REVISED: 11/21/19

ENVIRONMENTAL DAI

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

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



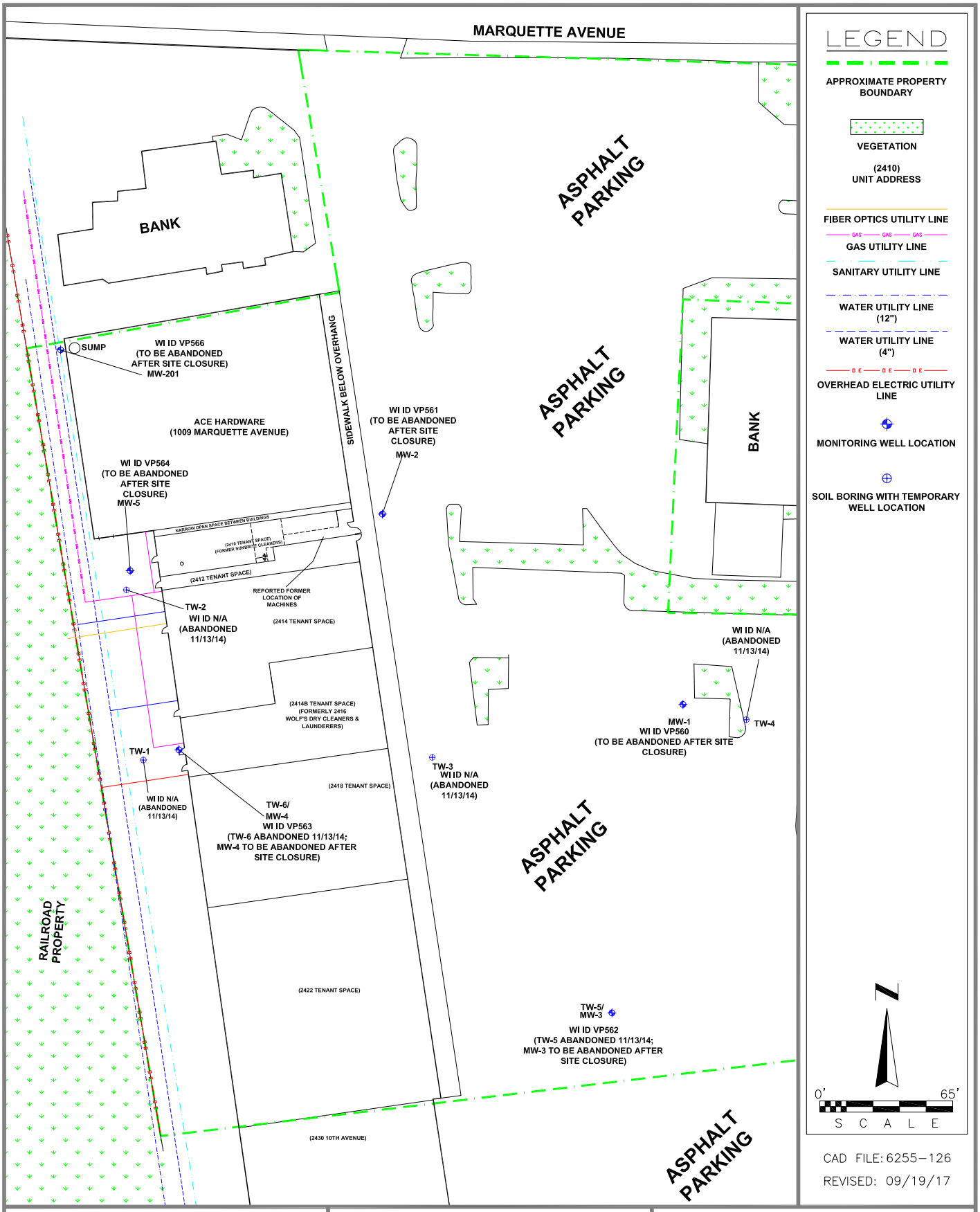
CAD FILE: 6255-168D

REVISED: 11/21/19

ENVIRONMENTAL

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

FIGURE B.3.c.11
GROUNDWATER FLOW DIRECTION
(OCTOBER 24, 2019)



CAD FILE: 6255-126

REVISED: 09/19/17

ENVIRONMENTAL DAI

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
(SEPTEMBER 2019 AND FOURTH QUARTER 2019)

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

September 11, 2019

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

RE: Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

Dear Chris Cailles:
Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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
(920)469-2436

CERTIFICATIONS

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

Green Bay Certification IDs

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 SUNRISE SHOPPING
Pace Project No.: 40194479

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40194479001	**MW-5**	Water	09/05/19 12:07	09/06/19 09:25

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40194479001	**MW-5**	EPA 8260	HNW	64

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

Sample: MW-5 **Lab ID: 40194479001** Collected: 09/05/19 12:07 Received: 09/06/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/10/19 14:03	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/10/19 14:03	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/10/19 14:03	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/10/19 14:03	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/10/19 14:03	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/10/19 14:03	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/19 14:03	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/10/19 14:03	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/10/19 14:03	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/10/19 14:03	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/19 14:03	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/10/19 14:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/10/19 14:03	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/10/19 14:03	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/10/19 14:03	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/10/19 14:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/10/19 14:03	96-12-8	L2
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/10/19 14:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/10/19 14:03	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/10/19 14:03	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/19 14:03	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/10/19 14:03	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/10/19 14:03	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/10/19 14:03	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/19 14:03	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/19 14:03	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/10/19 14:03	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/10/19 14:03	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/10/19 14:03	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/10/19 14:03	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/10/19 14:03	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/10/19 14:03	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/10/19 14:03	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/10/19 14:03	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/10/19 14:03	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/10/19 14:03	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/10/19 14:03	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/10/19 14:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/10/19 14:03	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/10/19 14:03	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/10/19 14:03	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/10/19 14:03	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/10/19 14:03	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/10/19 14:03	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/10/19 14:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/19 14:03	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

Sample: MW-5 **Lab ID: 40194479001** Collected: 09/05/19 12:07 Received: 09/06/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/19 14:03	79-34-5	
Tetrachloroethene	**15.3**	ug/L	1.1	0.33	1		09/10/19 14:03	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/10/19 14:03	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/10/19 14:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/10/19 14:03	120-82-1	L2
1,1,1-Trichloroethane	**0.46J**	ug/L	1.0	0.24	1		09/10/19 14:03	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/10/19 14:03	79-00-5	
Trichloroethene	**0.38J**	ug/L	1.0	0.26	1		09/10/19 14:03	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/10/19 14:03	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/10/19 14:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/10/19 14:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/10/19 14:03	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/10/19 14:03	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/10/19 14:03	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/10/19 14:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	78	%	70-130		1		09/10/19 14:03	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		09/10/19 14:03	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/10/19 14:03	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 SUNRISE SHOPPING
Pace Project No.: 40194479

QC Batch: 333093
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 40194479001

METHOD BLANK: 1934228
Matrix: Water
Associated Lab Samples: 40194479001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	09/10/19 06:37	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	09/10/19 06:37	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	09/10/19 06:37	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	09/10/19 06:37	
1,1-Dichloroethane	ug/L	<0.27	1.0	09/10/19 06:37	
1,1-Dichloroethene	ug/L	<0.24	1.0	09/10/19 06:37	
1,1-Dichloropropene	ug/L	<0.54	1.8	09/10/19 06:37	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	09/10/19 06:37	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	09/10/19 06:37	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/10/19 06:37	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/10/19 06:37	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	09/10/19 06:37	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	09/10/19 06:37	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	09/10/19 06:37	
1,2-Dichloroethane	ug/L	<0.28	1.0	09/10/19 06:37	
1,2-Dichloropropane	ug/L	<0.28	1.0	09/10/19 06:37	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/10/19 06:37	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	09/10/19 06:37	
1,3-Dichloropropane	ug/L	<0.83	2.8	09/10/19 06:37	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	09/10/19 06:37	
2,2-Dichloropropane	ug/L	<2.3	7.6	09/10/19 06:37	
2-Chlorotoluene	ug/L	<0.93	5.0	09/10/19 06:37	
4-Chlorotoluene	ug/L	<0.76	2.5	09/10/19 06:37	
Benzene	ug/L	<0.25	1.0	09/10/19 06:37	
Bromobenzene	ug/L	<0.24	1.0	09/10/19 06:37	
Bromochloromethane	ug/L	<0.36	5.0	09/10/19 06:37	
Bromodichloromethane	ug/L	<0.36	1.2	09/10/19 06:37	
Bromoform	ug/L	<4.0	13.2	09/10/19 06:37	
Bromomethane	ug/L	<0.97	5.0	09/10/19 06:37	
Carbon tetrachloride	ug/L	<0.17	1.0	09/10/19 06:37	
Chlorobenzene	ug/L	<0.71	2.4	09/10/19 06:37	
Chloroethane	ug/L	<1.3	5.0	09/10/19 06:37	
Chloroform	ug/L	<1.3	5.0	09/10/19 06:37	
Chloromethane	ug/L	<2.2	7.3	09/10/19 06:37	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	09/10/19 06:37	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	09/10/19 06:37	
Dibromochloromethane	ug/L	<2.6	8.7	09/10/19 06:37	
Dibromomethane	ug/L	<0.94	3.1	09/10/19 06:37	
Dichlorodifluoromethane	ug/L	<0.50	5.0	09/10/19 06:37	
Diisopropyl ether	ug/L	<1.9	6.3	09/10/19 06:37	
Ethylbenzene	ug/L	<0.22	1.0	09/10/19 06:37	

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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 SUNRISE SHOPPING
Pace Project No.: 40194479

METHOD BLANK: 1934228 Matrix: Water
Associated Lab Samples: 40194479001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	1.2J	5.0	09/10/19 06:37	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	09/10/19 06:37	
m&p-Xylene	ug/L	<0.47	2.0	09/10/19 06:37	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/10/19 06:37	
Methylene Chloride	ug/L	<0.58	5.0	09/10/19 06:37	
n-Butylbenzene	ug/L	<0.71	2.4	09/10/19 06:37	
n-Propylbenzene	ug/L	<0.81	5.0	09/10/19 06:37	
Naphthalene	ug/L	<1.2	5.0	09/10/19 06:37	
o-Xylene	ug/L	<0.26	1.0	09/10/19 06:37	
p-Isopropyltoluene	ug/L	<0.80	2.7	09/10/19 06:37	
sec-Butylbenzene	ug/L	<0.85	5.0	09/10/19 06:37	
Styrene	ug/L	<0.47	1.6	09/10/19 06:37	
tert-Butylbenzene	ug/L	<0.30	1.0	09/10/19 06:37	
Tetrachloroethene	ug/L	<0.33	1.1	09/10/19 06:37	
Toluene	ug/L	<0.17	5.0	09/10/19 06:37	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	09/10/19 06:37	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	09/10/19 06:37	
Trichloroethene	ug/L	<0.26	1.0	09/10/19 06:37	
Trichlorofluoromethane	ug/L	<0.21	1.0	09/10/19 06:37	
Vinyl chloride	ug/L	<0.17	1.0	09/10/19 06:37	
4-Bromofluorobenzene (S)	%	78	70-130	09/10/19 06:37	
Dibromofluoromethane (S)	%	118	70-130	09/10/19 06:37	
Toluene-d8 (S)	%	96	70-130	09/10/19 06:37	

LABORATORY CONTROL SAMPLE: 1934229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.7	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	40.9	82	70-130	
1,1,2-Trichloroethane	ug/L	50	48.7	97	70-130	
1,1-Dichloroethane	ug/L	50	42.7	85	73-150	
1,1-Dichloroethene	ug/L	50	43.2	86	73-138	
1,2,4-Trichlorobenzene	ug/L	50	33.5	67	70-130	L2
1,2-Dibromo-3-chloropropane	ug/L	50	27.7	55	64-129	L2
1,2-Dibromoethane (EDB)	ug/L	50	44.4	89	70-130	
1,2-Dichlorobenzene	ug/L	50	42.8	86	70-130	
1,2-Dichloroethane	ug/L	50	45.7	91	75-140	
1,2-Dichloropropane	ug/L	50	55.5	111	73-135	
1,3-Dichlorobenzene	ug/L	50	40.8	82	70-130	
1,4-Dichlorobenzene	ug/L	50	47.5	95	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Bromodichloromethane	ug/L	50	47.7	95	70-130	
Bromoform	ug/L	50	40.5	81	68-129	
Bromomethane	ug/L	50	37.6	75	18-159	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

LABORATORY CONTROL SAMPLE: 1934229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	46.6	93	70-130	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	36.4	73	53-147	
Chloroform	ug/L	50	44.3	89	74-136	
Chloromethane	ug/L	50	29.4	59	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	37.2	74	70-130	
Dibromochloromethane	ug/L	50	46.4	93	70-130	
Dichlorodifluoromethane	ug/L	50	22.1	44	10-130	
Ethylbenzene	ug/L	50	48.3	97	80-124	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	31.8	64	54-137	
Methylene Chloride	ug/L	50	42.3	85	73-138	
o-Xylene	ug/L	50	47.7	95	70-130	
Styrene	ug/L	50	51.7	103	70-130	
Tetrachloroethene	ug/L	50	51.6	103	70-130	
Toluene	ug/L	50	51.3	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	42.8	86	73-145	
trans-1,3-Dichloropropene	ug/L	50	35.2	70	70-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
Trichlorofluoromethane	ug/L	50	47.6	95	76-147	
Vinyl chloride	ug/L	50	35.1	70	51-120	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935088 1935089

Parameter	Units	40194442001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	47.1	50.1	94	100	70-130	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	43.1	45.3	86	91	70-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.6	53.7	103	107	70-137	4	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	46.4	49.8	93	100	73-153	7	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	48.9	52.2	98	104	73-138	7	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	37.0	39.7	74	79	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	30.5	32.0	61	64	58-129	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.4	49.8	95	100	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	45.4	47.8	91	96	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	48.2	51.0	96	102	75-140	6	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	59.6	62.2	119	124	71-138	4	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	43.7	46.1	87	92	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.8	51.9	100	104	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1935088 1935089

Parameter	Units	40194442001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	49.2	52.3	98	105	70-130	6	20	
Bromodichloromethane	ug/L	<0.36	50	50	50.1	52.2	100	104	70-130	4	20	
Bromoform	ug/L	<4.0	50	50	42.2	43.5	84	87	68-129	3	20	
Bromomethane	ug/L	<0.97	50	50	47.4	53.9	95	108	15-170	13	20	
Carbon tetrachloride	ug/L	<0.17	50	50	50.2	52.9	100	106	70-130	5	20	
Chlorobenzene	ug/L	<0.71	50	50	54.3	56.6	109	113	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	42.3	46.0	85	92	51-148	8	20	
Chloroform	ug/L	<1.3	50	50	47.3	50.3	95	101	74-136	6	20	
Chloromethane	ug/L	<2.2	50	50	40.2	43.8	77	84	23-115	8	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	53.4	57.2	107	114	70-131	7	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	39.7	42.0	79	84	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.2	51.0	98	102	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	40.3	41.8	81	84	10-132	3	20	
Ethylbenzene	ug/L	<0.22	50	50	51.7	53.7	103	107	80-125	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.8	53.1	102	106	70-130	4	20	
m&p-Xylene	ug/L	<0.47	100	100	113	118	113	118	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	34.9	37.6	70	75	51-145	8	20	
Methylene Chloride	ug/L	<0.58	50	50	46.3	49.3	93	99	73-140	6	20	
o-Xylene	ug/L	<0.26	50	50	51.3	53.2	103	106	70-130	4	20	
Styrene	ug/L	<0.47	50	50	55.2	57.3	110	115	70-130	4	20	
Tetrachloroethene	ug/L	<0.33	50	50	54.8	57.0	110	114	70-130	4	20	
Toluene	ug/L	<0.17	50	50	54.4	56.7	109	113	80-131	4	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	47.2	50.3	94	101	73-148	6	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	38.5	40.4	77	81	70-130	5	20	
Trichloroethene	ug/L	<0.26	50	50	52.6	55.4	105	111	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	53.9	57.1	108	114	74-147	6	20	
Vinyl chloride	ug/L	<0.17	50	50	45.0	48.2	90	96	41-129	7	20	
4-Bromofluorobenzene (S)	%						101	101	70-130			
Dibromofluoromethane (S)	%						103	103	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SUNRISE SHOPPING
Pace Project No.: 40194479

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40194479001	**MW-5**	EPA 8260	333093		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

L1019479

Page: 1 of 1

2289157

Section A Required Client Information:

Company:	DAI
Address:	LAKE FOREST, IL
Email To:	CAILES@DAIENG.COM
Phone: 8475738400	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	CHRIS CAILES
Copy To:	
Purchase Order No.:	
Project Name:	6255 SUNRISE SHOPPING
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-5	GW	G			9/6/19	1207		3			3						X			001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		9/5/19	1225	Mary Fanning	9/5/19	1225	
	Mary Fanning	9/5/19	1420				
	CS Logistics	9/6/19	0925		9/6/19	0925	Cool

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4	Y	Y	Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
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Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: DAI Project # 40194479

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

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

Initial when completed: Date/ Time:

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																			2/11/19 06														2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40194479

40194479

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 - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R07 /Corr: —

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

Person examining contents: Date: 9/6/19 Initials: PG

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished: 9/6/19 PG	☑Yes ☐No ☐N/A	3: ~~Time~~ 9/6/19 PG
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		9/6/19 PG
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: _____

Project Manager Review: Clw **Date:** 9/6/19

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

November 08, 2019

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.: 40198087

Dear Chris Cailles:
Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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
(920)469-2436

CERTIFICATIONS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Green Bay Certification IDs

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40198087001	**MW-5**	Water	10/24/19 12:50	10/26/19 08:10
40198087002	**MW-4**	Water	10/24/19 13:30	10/26/19 08:10
40198087003	**MW-3**	Water	10/24/19 14:00	10/26/19 08:10

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SAMPLE ANALYTE COUNT

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40198087001	**MW-5**	EPA 8260	HNW	67
40198087002	**MW-4**	EPA 8270 by HVI	TPO	18
40198087003	**MW-3**	EPA 8270 by HVI	TPO	18

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SUMMARY OF DETECTION

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198087001	**MW-5**					
EPA 8260	1,1,1-Trichloroethane	0.00041J	mg/L	0.0010	10/29/19 13:52	
EPA 8260	1,2,4-Trichlorobenzene	0.0014J	mg/L	0.0050	10/29/19 13:52	1q
EPA 8260	Carbon disulfide	0.00045J	mg/L	0.0050	10/29/19 13:52	
EPA 8260	Tetrachloroethene	0.012	mg/L	0.0011	10/29/19 13:52	
EPA 8260	Trichloroethene	0.00039J	mg/L	0.0010	10/29/19 13:52	
40198087002	**MW-4**					
EPA 8270 by HVI	Acenaphthene	0.010	mg/L	0.00012	10/31/19 03:04	
EPA 8270 by HVI	Acenaphthylene	0.0029	mg/L	0.00010	10/31/19 03:04	
EPA 8270 by HVI	Anthracene	0.0068	mg/L	0.00021	10/31/19 03:04	
EPA 8270 by HVI	Benzo(a)anthracene	0.00069	mg/L	0.00015	10/31/19 03:04	
EPA 8270 by HVI	Benzo(a)pyrene	0.00045	mg/L	0.00021	10/31/19 03:04	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.00086	mg/L	0.00011	10/31/19 03:04	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.00049	mg/L	0.00014	10/31/19 03:04	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.00038	mg/L	0.00015	10/31/19 03:04	
EPA 8270 by HVI	Chrysene	0.0016	mg/L	0.00026	10/31/19 03:04	
EPA 8270 by HVI	Dibenz(a,h)anthracene	0.000074J	mg/L	0.00020	10/31/19 03:04	
EPA 8270 by HVI	Fluoranthene	0.0026	mg/L	0.00021	10/31/19 03:04	
EPA 8270 by HVI	Fluorene	0.019	mg/L	0.00016	10/31/19 03:04	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.00033J	mg/L	0.00035	10/31/19 03:04	
EPA 8270 by HVI	Naphthalene	0.0026	mg/L	0.00037	10/31/19 03:04	
EPA 8270 by HVI	Phenanthrene	0.026	mg/L	0.00028	10/31/19 03:04	
EPA 8270 by HVI	Pyrene	0.0096	mg/L	0.00015	10/31/19 03:04	
40198087003	**MW-3**					
EPA 8270 by HVI	Acenaphthene	0.00016	mg/L	0.000029	10/30/19 16:40	
EPA 8270 by HVI	Acenaphthylene	0.00043	mg/L	0.000023	10/30/19 16:40	
EPA 8270 by HVI	Anthracene	0.00088	mg/L	0.000049	10/30/19 16:40	
EPA 8270 by HVI	Benzo(a)anthracene	0.0090	mg/L	0.000036	10/30/19 16:40	
EPA 8270 by HVI	Benzo(a)pyrene	0.015	mg/L	0.000050	10/30/19 16:40	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.030	mg/L	0.000081	10/31/19 11:56	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.018	mg/L	0.000032	10/30/19 16:40	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.0095	mg/L	0.000036	10/30/19 16:40	
EPA 8270 by HVI	Chrysene	0.016	mg/L	0.000062	10/30/19 16:40	
EPA 8270 by HVI	Dibenz(a,h)anthracene	0.0034	mg/L	0.000047	10/30/19 16:40	
EPA 8270 by HVI	Fluoranthene	0.025	mg/L	0.00015	10/31/19 11:56	
EPA 8270 by HVI	Fluorene	0.00022	mg/L	0.000038	10/30/19 16:40	
EPA 8270 by HVI	Indeno(1,2,3-cd)pyrene	0.014	mg/L	0.000083	10/30/19 16:40	
EPA 8270 by HVI	Naphthalene	0.00015	mg/L	0.000086	10/30/19 16:40	
EPA 8270 by HVI	Phenanthrene	0.0061	mg/L	0.000065	10/30/19 16:40	
EPA 8270 by HVI	Pyrene	0.024	mg/L	0.00011	10/31/19 11:56	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Sample: MW-5 **Lab ID: 40198087001** Collected: 10/24/19 12:50 Received: 10/26/19 08:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.00027**	mg/L	0.0010	0.00027	1		10/29/19 13:52	630-20-6	
1,1,1-Trichloroethane	**0.00041J**	mg/L	0.0010	0.00024	1		10/29/19 13:52	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.00028**	mg/L	0.0010	0.00028	1		10/29/19 13:52	79-34-5	
1,1,2-Trichloroethane	**<0.00055**	mg/L	0.0050	0.00055	1		10/29/19 13:52	79-00-5	
1,1-Dichloroethane	**<0.00027**	mg/L	0.0010	0.00027	1		10/29/19 13:52	75-34-3	
1,1-Dichloroethene	**<0.00024**	mg/L	0.0010	0.00024	1		10/29/19 13:52	75-35-4	
1,1-Dichloropropene	**<0.00054**	mg/L	0.0018	0.00054	1		10/29/19 13:52	563-58-6	
1,2,3-Trichlorobenzene	**<0.00063**	mg/L	0.0050	0.00063	1		10/29/19 13:52	87-61-6	
1,2,3-Trichloropropane	**<0.00059**	mg/L	0.0050	0.00059	1		10/29/19 13:52	96-18-4	
1,2,4-Trichlorobenzene	**0.0014J**	mg/L	0.0050	0.00095	1		10/29/19 13:52	120-82-1	1q
1,2,4-Trimethylbenzene	**<0.00084**	mg/L	0.0028	0.00084	1		10/29/19 13:52	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.0018**	mg/L	0.0059	0.0018	1		10/29/19 13:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.00083**	mg/L	0.0028	0.00083	1		10/29/19 13:52	106-93-4	
1,2-Dichlorobenzene	**<0.00071**	mg/L	0.0024	0.00071	1		10/29/19 13:52	95-50-1	
1,2-Dichloroethane	**<0.00028**	mg/L	0.0010	0.00028	1		10/29/19 13:52	107-06-2	
1,2-Dichloropropane	**<0.00028**	mg/L	0.0010	0.00028	1		10/29/19 13:52	78-87-5	
1,3,5-Trimethylbenzene	**<0.00087**	mg/L	0.0029	0.00087	1		10/29/19 13:52	108-67-8	
1,3-Dichlorobenzene	**<0.00063**	mg/L	0.0021	0.00063	1		10/29/19 13:52	541-73-1	
1,3-Dichloropropane	**<0.00083**	mg/L	0.0028	0.00083	1		10/29/19 13:52	142-28-9	
1,4-Dichlorobenzene	**<0.00094**	mg/L	0.0031	0.00094	1		10/29/19 13:52	106-46-7	
2,2-Dichloropropane	**<0.0023**	mg/L	0.0076	0.0023	1		10/29/19 13:52	594-20-7	
2-Butanone (MEK)	**<0.0029**	mg/L	0.020	0.0029	1		10/29/19 13:52	78-93-3	
2-Chlorotoluene	**<0.00093**	mg/L	0.0050	0.00093	1		10/29/19 13:52	95-49-8	
2-Hexanone	**<0.0025**	mg/L	0.0082	0.0025	1		10/29/19 13:52	591-78-6	
4-Chlorotoluene	**<0.00076**	mg/L	0.0025	0.00076	1		10/29/19 13:52	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<0.0015**	mg/L	0.0051	0.0015	1		10/29/19 13:52	108-10-1	
Acetone	**<0.0027**	mg/L	0.020	0.0027	1		10/29/19 13:52	67-64-1	
Benzene	**<0.00025**	mg/L	0.0010	0.00025	1		10/29/19 13:52	71-43-2	
Bromobenzene	**<0.00024**	mg/L	0.0010	0.00024	1		10/29/19 13:52	108-86-1	
Bromochloromethane	**<0.00036**	mg/L	0.0050	0.00036	1		10/29/19 13:52	74-97-5	
Bromodichloromethane	**<0.00036**	mg/L	0.0012	0.00036	1		10/29/19 13:52	75-27-4	
Bromoform	**<0.0040**	mg/L	0.013	0.0040	1		10/29/19 13:52	75-25-2	
Bromomethane	**<0.00097**	mg/L	0.0050	0.00097	1		10/29/19 13:52	74-83-9	
Carbon disulfide	**0.00045J**	mg/L	0.0050	0.00037	1		10/29/19 13:52	75-15-0	
Carbon tetrachloride	**<0.00017**	mg/L	0.0010	0.00017	1		10/29/19 13:52	56-23-5	
Chlorobenzene	**<0.00071**	mg/L	0.0024	0.00071	1		10/29/19 13:52	108-90-7	
Chloroethane	**<0.0013**	mg/L	0.0050	0.0013	1		10/29/19 13:52	75-00-3	
Chloroform	**<0.0013**	mg/L	0.0050	0.0013	1		10/29/19 13:52	67-66-3	
Chloromethane	**<0.0022**	mg/L	0.0073	0.0022	1		10/29/19 13:52	74-87-3	
Dibromochloromethane	**<0.0026**	mg/L	0.0087	0.0026	1		10/29/19 13:52	124-48-1	
Dibromomethane	**<0.00094**	mg/L	0.0031	0.00094	1		10/29/19 13:52	74-95-3	
Dichlorodifluoromethane	**<0.00050**	mg/L	0.0050	0.00050	1		10/29/19 13:52	75-71-8	
Ethylbenzene	**<0.00022**	mg/L	0.0010	0.00022	1		10/29/19 13:52	100-41-4	
Hexachloro-1,3-butadiene	**<0.0012**	mg/L	0.0050	0.0012	1		10/29/19 13:52	87-68-3	
Isopropylbenzene (Cumene)	**<0.00039**	mg/L	0.0050	0.00039	1		10/29/19 13:52	98-82-8	
Methyl-tert-butyl ether	**<0.0012**	mg/L	0.0042	0.0012	1		10/29/19 13:52	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Sample: MW-5 **Lab ID: 40198087001** Collected: 10/24/19 12:50 Received: 10/26/19 08:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methylene Chloride	**<0.00058**	mg/L	0.0050	0.00058	1		10/29/19 13:52	75-09-2	
Naphthalene	**<0.0012**	mg/L	0.0050	0.0012	1		10/29/19 13:52	91-20-3	
Styrene	**<0.00047**	mg/L	0.0016	0.00047	1		10/29/19 13:52	100-42-5	
Tetrachloroethene	**0.012**	mg/L	0.0011	0.00033	1		10/29/19 13:52	127-18-4	
Toluene	**<0.00017**	mg/L	0.0050	0.00017	1		10/29/19 13:52	108-88-3	
Trichloroethene	**0.00039J**	mg/L	0.0010	0.00026	1		10/29/19 13:52	79-01-6	
Trichlorofluoromethane	**<0.00021**	mg/L	0.0010	0.00021	1		10/29/19 13:52	75-69-4	
Vinyl chloride	**<0.00017**	mg/L	0.0010	0.00017	1		10/29/19 13:52	75-01-4	
Xylene (Total)	**<0.0015**	mg/L	0.0030	0.0015	1		10/29/19 13:52	1330-20-7	
cis-1,2-Dichloroethene	**<0.00027**	mg/L	0.0010	0.00027	1		10/29/19 13:52	156-59-2	
cis-1,3-Dichloropropene	**<0.0036**	mg/L	0.012	0.0036	1		10/29/19 13:52	10061-01-5	
n-Butylbenzene	**<0.00071**	mg/L	0.0024	0.00071	1		10/29/19 13:52	104-51-8	
n-Propylbenzene	**<0.00081**	mg/L	0.0050	0.00081	1		10/29/19 13:52	103-65-1	
p-Isopropyltoluene	**<0.00080**	mg/L	0.0027	0.00080	1		10/29/19 13:52	99-87-6	
sec-Butylbenzene	**<0.00085**	mg/L	0.0050	0.00085	1		10/29/19 13:52	135-98-8	
tert-Butylbenzene	**<0.00030**	mg/L	0.0010	0.00030	1		10/29/19 13:52	98-06-6	
trans-1,2-Dichloroethene	**<0.0011**	mg/L	0.0036	0.0011	1		10/29/19 13:52	156-60-5	
trans-1,3-Dichloropropene	**<0.0044**	mg/L	0.015	0.0044	1		10/29/19 13:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/29/19 13:52	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/29/19 13:52	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/19 13:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Sample: MW-4 **Lab ID: 40198087002** Collected: 10/24/19 13:30 Received: 10/26/19 08:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.010**	mg/L	0.00012	0.000024	4	10/30/19 10:27	10/31/19 03:04	83-32-9	
Acenaphthylene	**0.0029**	mg/L	0.00010	0.000020	4	10/30/19 10:27	10/31/19 03:04	208-96-8	
Anthracene	**0.0068**	mg/L	0.00021	0.000042	4	10/30/19 10:27	10/31/19 03:04	120-12-7	
Benzo(a)anthracene	**0.00069**	mg/L	0.00015	0.000030	4	10/30/19 10:27	10/31/19 03:04	56-55-3	
Benzo(a)pyrene	**0.00045**	mg/L	0.00021	0.000042	4	10/30/19 10:27	10/31/19 03:04	50-32-8	
Benzo(b)fluoranthene	**0.00086**	mg/L	0.00011	0.000023	4	10/30/19 10:27	10/31/19 03:04	205-99-2	
Benzo(g,h,i)perylene	**0.00049**	mg/L	0.00014	0.000027	4	10/30/19 10:27	10/31/19 03:04	191-24-2	
Benzo(k)fluoranthene	**0.00038**	mg/L	0.00015	0.000030	4	10/30/19 10:27	10/31/19 03:04	207-08-9	
Chrysene	**0.0016**	mg/L	0.00026	0.000052	4	10/30/19 10:27	10/31/19 03:04	218-01-9	
Dibenz(a,h)anthracene	**0.000074J**	mg/L	0.00020	0.000040	4	10/30/19 10:27	10/31/19 03:04	53-70-3	
Fluoranthene	**0.0026**	mg/L	0.00021	0.000043	4	10/30/19 10:27	10/31/19 03:04	206-44-0	
Fluorene	**0.019**	mg/L	0.00016	0.000032	4	10/30/19 10:27	10/31/19 03:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.00033J**	mg/L	0.00035	0.000071	4	10/30/19 10:27	10/31/19 03:04	193-39-5	
Naphthalene	**0.0026**	mg/L	0.00037	0.000073	4	10/30/19 10:27	10/31/19 03:04	91-20-3	
Phenanthrene	**0.026**	mg/L	0.00028	0.000055	4	10/30/19 10:27	10/31/19 03:04	85-01-8	
Pyrene	**0.0096**	mg/L	0.00015	0.000031	4	10/30/19 10:27	10/31/19 03:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	30-85		4	10/30/19 10:27	10/31/19 03:04	321-60-8	
Terphenyl-d14 (S)	50	%	10-120		4	10/30/19 10:27	10/31/19 03:04	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Sample: MW-3 **Lab ID: 40198087003** Collected: 10/24/19 14:00 Received: 10/26/19 08:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.00016**	mg/L	0.000029	0.0000057	1	10/30/19 10:27	10/30/19 16:40	83-32-9	
Acenaphthylene	**0.00043**	mg/L	0.000023	0.0000047	1	10/30/19 10:27	10/30/19 16:40	208-96-8	
Anthracene	**0.00088**	mg/L	0.000049	0.0000099	1	10/30/19 10:27	10/30/19 16:40	120-12-7	
Benzo(a)anthracene	**0.0090**	mg/L	0.000036	0.0000071	1	10/30/19 10:27	10/30/19 16:40	56-55-3	
Benzo(a)pyrene	**0.015**	mg/L	0.000050	0.0000099	1	10/30/19 10:27	10/30/19 16:40	50-32-8	
Benzo(b)fluoranthene	**0.030**	mg/L	0.000081	0.000016	3	10/30/19 10:27	10/31/19 11:56	205-99-2	
Benzo(g,h,i)perylene	**0.018**	mg/L	0.000032	0.0000064	1	10/30/19 10:27	10/30/19 16:40	191-24-2	
Benzo(k)fluoranthene	**0.0095**	mg/L	0.000036	0.0000071	1	10/30/19 10:27	10/30/19 16:40	207-08-9	
Chrysene	**0.016**	mg/L	0.000062	0.000012	1	10/30/19 10:27	10/30/19 16:40	218-01-9	
Dibenz(a,h)anthracene	**0.0034**	mg/L	0.000047	0.0000095	1	10/30/19 10:27	10/30/19 16:40	53-70-3	
Fluoranthene	**0.025**	mg/L	0.00015	0.000030	3	10/30/19 10:27	10/31/19 11:56	206-44-0	
Fluorene	**0.00022**	mg/L	0.000038	0.0000075	1	10/30/19 10:27	10/30/19 16:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.014**	mg/L	0.000083	0.000017	1	10/30/19 10:27	10/30/19 16:40	193-39-5	
Naphthalene	**0.00015**	mg/L	0.000086	0.000017	1	10/30/19 10:27	10/30/19 16:40	91-20-3	
Phenanthrene	**0.0061**	mg/L	0.000065	0.000013	1	10/30/19 10:27	10/30/19 16:40	85-01-8	
Pyrene	**0.024**	mg/L	0.00011	0.000022	3	10/30/19 10:27	10/31/19 11:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	30-85		1	10/30/19 10:27	10/30/19 16:40	321-60-8	
Terphenyl-d14 (S)	25	%	10-120		1	10/30/19 10:27	10/30/19 16:40	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

QC Batch: 338900 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40198087001

METHOD BLANK: 1968616 Matrix: Water
Associated Lab Samples: 40198087001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	<0.00024	0.0010	0.00024	10/29/19 08:15	
1,1,2,2-Tetrachloroethane	mg/L	<0.00028	0.0010	0.00028	10/29/19 08:15	
1,1,2-Trichloroethane	mg/L	<0.00055	0.0050	0.00055	10/29/19 08:15	
1,1-Dichloroethane	mg/L	<0.00027	0.0010	0.00027	10/29/19 08:15	
1,1-Dichloroethene	mg/L	<0.00024	0.0010	0.00024	10/29/19 08:15	
1,2-Dibromo-3-chloropropane	mg/L	<0.0018	0.0059	0.0018	10/29/19 08:15	
1,2-Dibromoethane (EDB)	mg/L	<0.00083	0.0028	0.00083	10/29/19 08:15	
1,2-Dichlorobenzene	mg/L	<0.00071	0.0024	0.00071	10/29/19 08:15	
1,2-Dichloroethane	mg/L	<0.00028	0.0010	0.00028	10/29/19 08:15	
1,2-Dichloropropane	mg/L	<0.00028	0.0010	0.00028	10/29/19 08:15	
1,3-Dichlorobenzene	mg/L	<0.00063	0.0021	0.00063	10/29/19 08:15	
1,4-Dichlorobenzene	mg/L	<0.00094	0.0031	0.00094	10/29/19 08:15	
2-Butanone (MEK)	mg/L	<0.0029	0.020	0.0029	10/29/19 08:15	
2-Hexanone	mg/L	<0.0025	0.0082	0.0025	10/29/19 08:15	
4-Methyl-2-pentanone (MIBK)	mg/L	<0.0015	0.0051	0.0015	10/29/19 08:15	
Acetone	mg/L	<0.0027	0.020	0.0027	10/29/19 08:15	
Benzene	mg/L	<0.00025	0.0010	0.00025	10/29/19 08:15	
Bromodichloromethane	mg/L	<0.00036	0.0012	0.00036	10/29/19 08:15	
Bromoform	mg/L	<0.0040	0.013	0.0040	10/29/19 08:15	
Bromomethane	mg/L	<0.00097	0.0050	0.00097	10/29/19 08:15	
Carbon disulfide	mg/L	<0.00037	0.0050	0.00037	10/29/19 08:15	
Carbon tetrachloride	mg/L	<0.00017	0.0010	0.00017	10/29/19 08:15	
Chlorobenzene	mg/L	<0.00071	0.0024	0.00071	10/29/19 08:15	
Chloroethane	mg/L	<0.0013	0.0050	0.0013	10/29/19 08:15	
Chloroform	mg/L	<0.0013	0.0050	0.0013	10/29/19 08:15	
Chloromethane	mg/L	<0.0022	0.0073	0.0022	10/29/19 08:15	
cis-1,2-Dichloroethene	mg/L	<0.00027	0.0010	0.00027	10/29/19 08:15	
cis-1,3-Dichloropropene	mg/L	<0.0036	0.012	0.0036	10/29/19 08:15	
Dibromochloromethane	mg/L	<0.0026	0.0087	0.0026	10/29/19 08:15	
Dibromomethane	mg/L	<0.00094	0.0031	0.00094	10/29/19 08:15	
Dichlorodifluoromethane	mg/L	<0.00050	0.0050	0.00050	10/29/19 08:15	
Ethylbenzene	mg/L	<0.00022	0.0010	0.00022	10/29/19 08:15	
Methyl-tert-butyl ether	mg/L	<0.0012	0.0042	0.0012	10/29/19 08:15	
Methylene Chloride	mg/L	<0.00058	0.0050	0.00058	10/29/19 08:15	
Naphthalene	mg/L	<0.0012	0.0050	0.0012	10/29/19 08:15	
Styrene	mg/L	<0.00047	0.0016	0.00047	10/29/19 08:15	
Tetrachloroethene	mg/L	<0.00033	0.0011	0.00033	10/29/19 08:15	
Toluene	mg/L	<0.00017	0.0050	0.00017	10/29/19 08:15	
trans-1,2-Dichloroethene	mg/L	<0.0011	0.0036	0.0011	10/29/19 08:15	
trans-1,3-Dichloropropene	mg/L	<0.0044	0.015	0.0044	10/29/19 08:15	
Trichloroethene	mg/L	<0.00026	0.0010	0.00026	10/29/19 08:15	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

METHOD BLANK: 1968616 Matrix: Water
Associated Lab Samples: 40198087001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	mg/L	<0.00021	0.0010	0.00021	10/29/19 08:15	
Vinyl chloride	mg/L	<0.00017	0.0010	0.00017	10/29/19 08:15	
Xylene (Total)	mg/L	<0.0015	0.0030	0.0015	10/29/19 08:15	
4-Bromofluorobenzene (S)	%	94	70-130		10/29/19 08:15	
Dibromofluoromethane (S)	%	100	70-130		10/29/19 08:15	
Toluene-d8 (S)	%	104	70-130		10/29/19 08:15	

LABORATORY CONTROL SAMPLE: 1968617

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	0.051	101	70-130	
1,1,2-Trichloroethane	mg/L	0.05	0.054	107	70-130	
1,1-Dichloroethane	mg/L	0.05	0.050	100	73-150	
1,1-Dichloroethene	mg/L	0.05	0.053	106	73-138	
1,2-Dibromo-3-chloropropane	mg/L	0.05	0.045	89	64-129	
1,2-Dibromoethane (EDB)	mg/L	0.05	0.053	106	70-130	
1,2-Dichlorobenzene	mg/L	0.05	0.051	102	70-130	
1,2-Dichloroethane	mg/L	0.05	0.047	94	75-140	
1,2-Dichloropropane	mg/L	0.05	0.048	97	73-135	
1,3-Dichlorobenzene	mg/L	0.05	0.049	99	70-130	
1,4-Dichlorobenzene	mg/L	0.05	0.050	101	70-130	
Benzene	mg/L	0.05	0.049	97	70-130	
Bromodichloromethane	mg/L	0.05	0.049	98	70-130	
Bromoform	mg/L	0.05	0.047	95	68-129	
Bromomethane	mg/L	0.05	0.033	66	18-159	
Carbon disulfide	mg/L	0.05	0.049	98	69-132	
Carbon tetrachloride	mg/L	0.05	0.050	99	70-130	
Chlorobenzene	mg/L	0.05	0.053	106	70-130	
Chloroethane	mg/L	0.05	0.044	87	53-147	
Chloroform	mg/L	0.05	0.047	93	74-136	
Chloromethane	mg/L	0.05	0.026	51	29-115	
cis-1,2-Dichloroethene	mg/L	0.05	0.047	94	70-130	
cis-1,3-Dichloropropene	mg/L	0.05	0.046	92	70-130	
Dibromochloromethane	mg/L	0.05	0.051	101	70-130	
Dichlorodifluoromethane	mg/L	0.05	0.027	53	10-130	
Ethylbenzene	mg/L	0.05	0.055	110	80-124	
Methyl-tert-butyl ether	mg/L	0.05	0.044	87	54-137	
Methylene Chloride	mg/L	0.05	0.051	102	73-138	
Styrene	mg/L	0.05	0.051	102	70-130	
Tetrachloroethene	mg/L	0.05	0.054	108	70-130	
Toluene	mg/L	0.05	0.053	106	80-126	
trans-1,2-Dichloroethene	mg/L	0.05	0.053	106	73-145	
trans-1,3-Dichloropropene	mg/L	0.05	0.048	96	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

LABORATORY CONTROL SAMPLE: 1968617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	mg/L	0.05	0.050	101	70-130	
Trichlorofluoromethane	mg/L	0.05	0.046	92	76-147	
Vinyl chloride	mg/L	0.05	0.036	73	51-120	
Xylene (Total)	mg/L	0.15	0.17	115	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			105	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

QC Batch: 339139 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40198087002, 40198087003

METHOD BLANK: 1969723 Matrix: Water
Associated Lab Samples: 40198087002, 40198087003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	mg/L	<0.0000061	0.000030	0.0000061	10/30/19 23:06	
Acenaphthylene	mg/L	<0.0000050	0.000025	0.0000050	10/30/19 23:06	
Anthracene	mg/L	<0.000010	0.000052	0.000010	10/30/19 23:06	
Benzo(a)anthracene	mg/L	<0.0000076	0.000038	0.0000076	10/30/19 23:06	
Benzo(a)pyrene	mg/L	<0.000011	0.000053	0.000011	10/30/19 23:06	
Benzo(b)fluoranthene	mg/L	<0.0000057	0.000029	0.0000057	10/30/19 23:06	
Benzo(g,h,i)perylene	mg/L	<0.0000068	0.000034	0.0000068	10/30/19 23:06	
Benzo(k)fluoranthene	mg/L	<0.0000076	0.000038	0.0000076	10/30/19 23:06	
Chrysene	mg/L	<0.000013	0.000065	0.000013	10/30/19 23:06	
Dibenz(a,h)anthracene	mg/L	<0.000010	0.000050	0.000010	10/30/19 23:06	
Fluoranthene	mg/L	<0.000011	0.000053	0.000011	10/30/19 23:06	
Fluorene	mg/L	<0.0000080	0.000040	0.0000080	10/30/19 23:06	
Indeno(1,2,3-cd)pyrene	mg/L	<0.000018	0.000088	0.000018	10/30/19 23:06	
Naphthalene	mg/L	<0.000018	0.000092	0.000018	10/30/19 23:06	
Phenanthrene	mg/L	<0.000014	0.000069	0.000014	10/30/19 23:06	
Pyrene	mg/L	<0.0000076	0.000038	0.0000076	10/30/19 23:06	
2-Fluorobiphenyl (S)	%	71	30-85		10/30/19 23:06	
Terphenyl-d14 (S)	%	119	10-120		10/30/19 23:06	

LABORATORY CONTROL SAMPLE: 1969724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	mg/L	0.002	0.0013	66	43-102	
Acenaphthylene	mg/L	0.002	0.0012	60	42-103	
Anthracene	mg/L	0.002	0.0017	83	52-105	
Benzo(a)anthracene	mg/L	0.002	0.0017	85	39-120	
Benzo(a)pyrene	mg/L	0.002	0.0019	95	57-117	
Benzo(b)fluoranthene	mg/L	0.002	0.0018	88	54-117	
Benzo(g,h,i)perylene	mg/L	0.002	0.0010	51	32-82	
Benzo(k)fluoranthene	mg/L	0.002	0.0021	106	56-123	
Chrysene	mg/L	0.002	0.0023	115	63-122	
Dibenz(a,h)anthracene	mg/L	0.002	0.00077	38	23-76	
Fluoranthene	mg/L	0.002	0.0017	86	52-112	
Fluorene	mg/L	0.002	0.0014	72	46-116	
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.0016	82	49-110	
Naphthalene	mg/L	0.002	0.0012	61	37-84	
Phenanthrene	mg/L	0.002	0.0016	78	50-104	
Pyrene	mg/L	0.002	0.0019	94	57-123	
2-Fluorobiphenyl (S)	%			69	30-85	
Terphenyl-d14 (S)	%			114	10-120	

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

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 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969725 1969726

Parameter	Units	40198148012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	mg/L	<0.0055 ug/L	0.0018	0.0018	0.00095	0.00098	53	54	30-106	4	30	
Acenaphthylene	mg/L	<0.0045 ug/L	0.0018	0.0018	0.00087	0.00087	49	48	37-103	0	27	
Anthracene	mg/L	<0.0095 ug/L	0.0018	0.0018	0.0011	0.0011	61	63	27-107	4	34	
Benzo(a)anthracene	mg/L	0.0075J ug/L	0.0018	0.0018	0.00098	0.0010	54	56	10-120	4	50	
Benzo(a)pyrene	mg/L	<0.0096 ug/L	0.0018	0.0018	0.00082	0.00087	45	48	10-117	7	50	
Benzo(b)fluoranthene	mg/L	0.0056J ug/L	0.0018	0.0018	0.00076	0.00079	42	44	10-121	4	49	
Benzo(g,h,i)perylene	mg/L	0.0091J ug/L	0.0018	0.0018	0.00062	0.00064	34	35	10-82	3	50	
Benzo(k)fluoranthene	mg/L	0.0069J ug/L	0.0018	0.0018	0.00098	0.00097	54	53	10-123	1	50	
Chrysene	mg/L	<0.012 ug/L	0.0018	0.0018	0.0013	0.0014	75	77	17-122	3	36	
Dibenz(a,h)anthracene	mg/L	0.010J ug/L	0.0018	0.0018	0.00060	0.00061	33	33	10-76	3	50	
Fluoranthene	mg/L	<0.0097 ug/L	0.0018	0.0018	0.0011	0.0011	59	62	27-112	5	42	
Fluorene	mg/L	<0.0072 ug/L	0.0018	0.0018	0.0010	0.0010	58	58	38-116	1	29	
Indeno(1,2,3-cd)pyrene	mg/L	<0.016 ug/L	0.0018	0.0018	0.00064	0.00067	35	36	10-110	4	50	
Naphthalene	mg/L	<0.017 ug/L	0.0018	0.0018	0.00084	0.00089	47	49	35-85	5	28	
Phenanthrene	mg/L	<0.013 ug/L	0.0018	0.0018	0.0011	0.0011	59	60	31-106	2	42	
Pyrene	mg/L	<0.0070 ug/L	0.0018	0.0018	0.0012	0.0012	68	69	30-123	2	31	
2-Fluorobiphenyl (S)	%						55	55	30-85			
Terphenyl-d14 (S)	%						75	79	10-120			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Analyte was detected above method detection limit due to carryover.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40198087

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198087002	**MW-4**	EPA 3510	339139	EPA 8270 by HVI	339209
40198087003	**MW-3**	EPA 3510	339139	EPA 8270 by HVI	339209
40198087001	**MW-5**	EPA 8260	338900		

Pace Analytical®
www.pacelabs.com

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

Page 1 of

4019808?

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	DAI
Branch/Location:	Lake Forest, IL
Project Contact:	Chris Cailles
Phone:	847-573-8900
Project Number:	~~RKG~~ 6255
Project Name:	Sunrise Shopping Center
Project State:	WI
Sampled By (Print):	Konrad Grocheck
Sampled By (Sign):	
PO #:	Regulatory Program:

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, SI = 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	Analyses Requested: VOCs (B)	Analyses Requested: PLHS (A)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-5	10/24/19	1250	GW			X				
002	MW-4	10/24/19	1330	GW				X			
003	MW-3	10/24/19	1400	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:
[signature]	10/25/19 1035	Kathi Kendall	10/25/19 1035
Kathi Kendall	10/25/19 1700	CS Logistics	10/25/19
CS Logistics	10/25/19 0810	Quinn Rogan Pace	10/25/19 0810

PACE Project No. 4019808?

Receipt Temp = 1.5 °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: DAT Project # 4019887

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):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002					2													2															2.5 / 5 / 10
003					2													2															2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
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018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

10/26/19 SM

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40198087

40198087

Client Name: DAE

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

Tracking #: N/A

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

Cooler Temperature Uncorr: 1 °C /Corr: 1.5 °C

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.

Person examining contents:
Date: 10/26/19 AR
Initials: AR

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. No Invoice info 10/26/19 AR
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:

Project Manager Review: LW **Date:** 10/26/19