

Environmental Engineers, Geologists and Scientists

Tel 847.573.8900 Fax 847.573.8953 Polo Park Business Center 27834 N. Irma Lee Circle Lake Forest, Illinois 60045-5130

EMERGING CONTAMINANT EVALUATION REPORT ADDENDUM SUNRISE SHOPPING CENTER 2410-2424 10TH AVENUE & 1009 MARQUETTE AVENUE SOUTH MILWAUKEE, WISCONSIN 53172 WDNR BRRTS ACTIVITY #02-41-576336 & 02-41-579429 WDNR FID #241828620

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

Prepared By:
DAI Environmental, Inc.
27834 North Irma Lee Circle
Lake Forest, Illinois 60045

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1.0 SUMMARY OF PREVIOUS EMERGING CONTAMINANT INVESTIGATIONS

Sampling for per- and polyfluoroalkyl substances (PFAS) in groundwater was performed at the Sunrise Shopping Center facility (Site) in March 2021 at MW-3 and MW-5, followed by sampling of all six (6) on-site monitoring wells for PFAS in August 2021. The results of August sampling identified 15 PFAS constituents in the groundwater samples. PFAS concentrations were observed in all monitoring wells, with the highest contaminant concentrations observed in monitoring well MW-4, and the least impacted groundwater monitoring well was MW-201. The concentrations of two (2) PFAS constituents were above the recommended Preventative Action Limits (PALs) in five (5) of the six (6) monitoring wells sampled. The combined concentrations of two (2) or more PFAS constituents were observed at levels above the Enforcement Standard in monitoring wells MW-1 to MW-5, and above the PAL in MW-201.

Sampling of the Ace Hardware sump water treatment system in August 2021 identified PFAS constituents in the sump water sample at a level exceeding the PAL. However the sump water is treated using activated carbon prior to discharge and the post-treatment effluent sample results showed no detectable concentrations. Therefore, there is no discharge of any emerging contaminant into the City of South Milwaukee's stormwater sewer system.

2.0 ADDITIONAL EMERGING CONTAMINANT INVESTIGATIONS

2.1 MONITORING WELL INSTALLATION

DAI Environmental, Inc. (DAI) oversaw the installation of four (4) on-site monitoring wells (MW-600 to MW-603) on January 20, 2022. Three (3) monitoring wells (MW-601 to MW-603) were installed along the upgradient property boundary to evaluate whether an off-site source of PFAS was contributing to the PFAS groundwater contamination observed on-site. MW-600 was located in a further downgradient area of the Site not previously sampled to better ensure that there were no on-site sources of PFAS.

The monitoring wells were installed by Cabeno Environmental Field Services, LLC (Cabeno) of New Lenox, Illinois using a Geoprobe® System with augering capabilities. The monitoring wells

were constructed compliant with the standards set forth in NR 141: Groundwater Monitoring Well Requirements and following the same methodology utilized during Site Investigation activities. All installation activities were conducted under the direct supervision of DAI personnel.

All monitoring wells were constructed of 2-in diameter schedule 40 PVC riser pipe connected to a 10-ft long, 0.01-in factory slotted PVC screen set at 15-feet below ground surface (bgs), 0.5-ft above the terminus of the boring. The filter pack, consisting of an artificially introduced sand pack, was extended from 0.5-feet below the screen to 2-ft above the top of the screen. At least 1-ft of fine sand was dispensed on top of the filter pack sand. Bentonite was used to seal the well up to a depth of approximately 6-in bgs. A flush-mounted steel vault was installed in concrete to secure and protect each well. Soil boring logs (Form 4400-122) and monitoring well construction logs (Form 4400-113) for the monitoring wells are included in Appendix C.1.A. Form 4400-89 is provided in Appendix C.1.C and includes a summary of all monitoring wells (previously existing and newly installed) with top of casing information provided in relation to the recent complete survey of all monitoring wells completed on February 1, 2022. Figure B.3.d provides the monitoring wells locations and includes the unique well information, as applicable.

Drums of soil cuttings from installation of the monitoring wells is pending a waste profile and approval prior to disposal. Documentation of the drum disposal will be provided as part of the *Case Close Out Report*.

2.2 MONITORING WELL DEVELOPMENT

Per the requirements of NR 141.21, well development cannot be performed earlier than 12-hrs after installation. Monitoring wells MW-600 to MW-603 were installed on January 20th and initially developed on January 24, 2022. The monitoring wells were initially developed using disposable bailers. During the subsequent PFAS groundwater sampling performed on February 3-4, 2022, low-flow purging and sampling protocol was performed consistent with the August 2021 PFAS sampling event and as described in the *Emerging Contaminant Evaluation Report Amendment* dated October 18, 2021. In addition to the newly installed monitoring wells, MW-4 was resampled for verification of August 2021 results (i.e., effectively duplicate

sampling). Copies of the low-flow sampling field sheets with the multi-parameter data collected for monitoring for groundwater stability prior to sample collection are included Appendix C.1.G.

2.3 GROUNDWATER SAMPLING PROCEDURES

All groundwater samples were collected using the low-flow sampler. Once purging of the monitoring wells was complete, the tubing was disconnected and groundwater was then dispensed directly from low-flow pump tubing into 250-mL unpreserved plastic containers that were obtained from the laboratory.

New disposable nitrile gloves were used to collect each sample to limit cross contamination. The samples were stored on ice immediately after collection and were maintained at a temperature of 4°C or lower via a cooler with ice before being transferred to a refrigerator. Ice packs were not used per the published recommendations indicating a potential for PFAS contamination from the ice packs. The samples were stored in the refrigerator until picked up by the laboratory courier. The courier transported the samples to Pace Analytical Services, LLC (Pace Analytical) of Green Bay, Wisconsin, an independent commercial Wisconsin certified analytical laboratory following standard chain-of-custody procedures. Pace Analytical subsequently transferred the samples to an affiliate laboratory in West Columbia, South Carolina, where the groundwater samples were analyzed for PFAS (Wisconsin 33 list per March 1, 2021) via PFAS by Isotope Dilution (ID) Standard Operating Procedures (SOP).

2.4 STATIC GROUNDWATER ELEVATIONS

Static water level measurements were recorded at all monitoring wells using an electronic water level indicator capable of detecting water depth with an accuracy of ± 0.01 ft. The groundwater elevation was measured from the top of the well casing. Because a national geodetic survey datum was not able to be identified, the monitoring wells were surveyed to a generic on-site datum with assumed elevation of 100-ft. A complete elevation survey of all wells was completed on February 1, 2022.

3.0 GROUNDWATER ANALYTICAL RESULTS

3.1 STATIC GROUNDWATER ELEVATIONS

A complete round of static water elevations was collected during the PFAS sampling event. The measurements were collected to verify the previously observed groundwater flow direction and to better depict the static groundwater elevations with the addition of the four (4) newly installed monitoring wells. All static water level measurements are referenced to the February 1, 2022, monitoring well elevation survey.

Figure B.3.c.21 (see Appendix B) includes the potentiometric surface map completed with measurements collected on February 3, 2022. As observed in the figure, the groundwater flow direction is consistent with the direction observed during previous quarterly sampling events, northwesterly along the southern half of the Site and north-northeasterly within the northern half of the Site.

3.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

Table A.1.D (see Appendix A) provides a summary of the PFAS analytical results in comparison to the PALs and Enforcement Standards presently recommended for addition to NR 140. The table includes the results for March and August 2021 sampling, as well as the recent samples collected on February 3-4, 2022. (Table A.1.E summarizing the August 2021 PFAS sampling of the Ace Hardware sump water is also provided in Appendix A.) A copy of the laboratory analytical report from February 2022 is provided in this report as Appendix C.1.E.

In review of Table A.1.D, 15 of 33 constituents on the Wisconsin Department of Natural Resources (WDNR) PFAS List have been reported by the laboratory at concentrations at a concentration above the Limit of Detection (LOD). All other constituents have been reported below the Limit of Quantification (LOQ) during each of the three (3) rounds of sampling. The observed PFAS constituents include:

PFAS with Detectable Concentrations

- Perfluorobutanoic acid (PFBA)
- Perfluoropentanoic acid (PFPeA)
- Perfluorohexanoic acid (PFHxA)
- Perfluoroheptanoic acid (PFHpA)
- Perfluorononanoic acid (PFNA)
- Perfluorodecanoic acid (PFDA)
- Perfluorobutanesulfonic acid (PFBS)
- Perfluoropentanesulfonic acid (PFPeS)
- Perfluorohexanesulfonic acid (PFHxS)
- Perfluoroheptanesulfonic acid (PFHpS)
- 6:2 Fluorotelomersulfonic acid (6:2 FTS)
- Perfluorooctanoic acid (PFOA)*
- Perfluorooctanesulfonic acid (PFOS)*
- Perfluorooctane sulfonamide (PFOSA)*
- N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)*

As previously discussed, many of the PFAS constituents were reported at concentrations below the recommended PALs, or are listed constituents with no recommended PAL. Only two (2) individual PFAS constituents have been reported at concentrations above the PAL: PFNA and PFHxS. Based upon the most recent sampling results (either August 2021 or February 2022), only MW-4 and MW-603 were reported with a PFNA concentration above the PAL. (PFNA was observed in MW-3 at a concentration above the PAL in March 2021, but the August 2021 results were below the PAL.) PFHxS was observed in MW-1 to MW-5 and MW-603. A detectable concentration of PFHxS was observed in MW-201 below the PAL; no detectable concentrations were observed in MW-600 to MW-602.

In addition to the individual PFAS constituents, the cumulative PFAS concentration for one (1) or more of PFOA, PFOS, PFOSA, and NEtFOSAA were observed in most monitoring wells. (The other two (2) PFAS constituents that are included in the cumulative PFAS concentration were reported below the LOQ in all wells during each sampling event.) Similar to PFHxS, total cumulative concentrations were reported at levels above the recommended Enforcement Standard in MW-1 to MW-5 and MW-603. The cumulative concentration in MW-201 was above

^{* –} One (1) of six (6) PFAS constituents included in the cumulative concentration objective.

the PAL and the cumulative concentration in MW-602 was below the PAL. None of the cumulative PFAS constituents were reported above the LOQ in MW-600 or MW-601.

Figure B.3.b.3d provides a summary of all PFAS results from the three (3) sampling events. Figures B.3.b.3a to B.3.b.3c show the individual results for the March 2021, August 2021, and February 2022 sampling events, respectively. The identified exceedances based upon the most recently available sampling results are summarized below.

PFAS with Exceedances of the PALs

- PFNA MW-4 and MW-603
- PFHxS MW-1 to MW-5 and MW-603
- Combined PFAS (PFOA only) MW-201

PFAS with Exceedances of the Enforcement Standards

- Combined PFAS (PFOA and PFOS) MW-1
- Combined PFAS (PFOA, PFOS, PFOSA, and NEtFOSAA) MW-2
- Combined PFAS (PFOA, PFOS, and PFOSA) MW-3
- Combined PFAS (PFOA and PFOS) MW-4
- Combined PFAS (PFOA, PFOS, and PFOSA) MW-5
- Combined PFAS (PFOA and PFOS) MW-603

4.0 SUMMARY AND CONCLUSIONS

As directed in the WDNR letter dated November 23, 2020, an evaluation of potential emerging contaminants has been completed for the Sunrise Shopping Center Site. During the preliminary sampling performed in March 2021, groundwater contamination for PFAS was observed. Subsequently, two (2) additional rounds of PFAS sampling have been performed (August 2021 and February 2022) to better evaluate possible on-site sources of contamination, and to assess potential off-site sources of PFAS contamination migrating on-site.

A thorough review of the historical uses of the Site as a petroleum distribution facility and a strip mall that included two (2) dry cleaning operations was performed to determine whether the past operations could be identified as the source of the PFAS contamination. Further evaluation included reviewing prior building tenants that may have used PFAS, as well as a historical review of any recorded fires at the Site where PFAS containing firefighting foams may have been used. An inquiry to the Fire Chief at the neighboring Fire Station was made in an effort to investigate whether firefighting foams could have been discharged at the fire station. The response from the Fire Chief stated that there were no releases or discharges of firefighting foam to the ground surface at the fire station (see Appendix C.1.F). In summary, the historical review did not identify any on-site sources of the observed PFAS contamination.

The information collected to date indicate an off-site source of PFAS contamination migrating onto the Sunrise Shopping Center Site. This finding is supported by both the lack of any evidence of an on-site source, and more importantly from the results of the most recent groundwater sampling, which shows the highest PFAS concentration occurring at the upgradient corner of the Site. As can be noted from Figure B.3.b.3d, the highest cumulative PFAS concentrations were observed in MW-603, located in the southwestern portion of the Site where no historical use or likely source of contamination is known to have existed. The PFAS groundwater concentrations then decline with downgradient distance from MW-603, as is consistent with a typical groundwater plume. While the source of the PFAS contamination cannot be determined from the currently available data, it is noted that the area upgradient of the Site was previously used for industrial operations.

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DAI believes that with this report and findings, the current Responsible Party (and property owner) has met the obligations of WDNR's December 9, 2021, request, and that no further PFAS investigations at the Site are warranted. A Case Close Out Report will be prepared and submitted to WDNR for approval.

APPENDIX A TABLES

Table A.1.D. Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Farming Contaction to | | - | Location le Date) | | DAT 1 | ES ² |
|---|--------------------|--------------------|----------------------|--------------------|------------------|-----------------|
| Emerging Contaminants | MW-1 (08/04/21) | MW-2 (08/04/21) | MW-3 (03/11/21) | MW-3 (08/05/21) | PAL ¹ | ES ² |
| Perfluorobutanoic acid (PFBA) | 11 | 13 | 31 (EB) | 17 | 2,000 | 10,000 |
| Perfluoropentanoic acid (PFPeA) | 8.3 | 17 | <3.5 | 20 | NL | NL |
| Perfluorohexanoic acid (PFHxA) | 7.6 | 9.4 | <3.5 | 15 | 30,000 | 150,000 |
| Perfluoroheptanoic acid (PFHpA) | 5.9 | 4.1 | 4.5 (EB) | 25 | NL | NL |
| Perfluorononanoic acid (PFNA) | 0.82 (J) | < 0.39 | 4.3 | 2.2 (J) | 3 | 30 |
| Perfluorodecanoic acid (PFDA) | < 0.44 | < 0.44 | 1.8 (J) | 1 (J) | 60 | 300 |
| Perfluoroundecanoic acid (PFUnA) | < 0.52 | < 0.53 | <3.5 | < 0.54 | 600 | 3,000 |
| Perfluorododecanoic acid (PFDoA) | < 0.39 | < 0.4 | <3.5 | < 0.41 | 100 | 500 |
| Perfluorotridecanoic acid (PFTriA) | < 0.44 | < 0.45 | <3.5 | < 0.46 | NL | NL |
| Perfluorotetradecanoic acid (PFTeA) | < 0.5 | < 0.5 | <3.5 | < 0.55 | 2,000 | 10,000 |
| Perfluorobutanesulfonic acid (PFBS) | 9 | 16 | 19 | 34 | 90,000 | 450,000 |
| Perfluoropentanesulfonic acid (PFPeS) | 2.8 (J) | 6.7 | <3.5 | < 0.51 | NL | NL |
| Perfluorohexanesulfonic acid (PFHxS) | 11 | 14 | <3.5 | 7.1 | 4 | 40 |
| Perfluoroheptanesulfonic acid (PFHpS) | < 0.42 | < 0.42 | <3.5 | < 0.43 | NL | NL |
| Perfluorononanesulfonic acid (PFNs) | < 0.6 | < 0.6 | <3.5 | < 0.61 | NL | NL |
| Perfluorodecanesulfonic acid (PFDs) | < 0.65 | < 0.65 | <3.5 | < 0.67 | NL | NL |
| Perfluorododecanesulfonic acid (PFDoS) | < 0.87 | < 0.88 | < 6.9 | < 0.9 | NL | NL |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTSA) | < 0.73 | <0.74 | <6.9 | < 0.75 | NL | NL |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTSA) | 1.7 (J) | 3.6 (J) | 2.7 (J, FB) | <1.8 | NL | NL |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTSA) | <1.3 | <1.3 | <6.9 | <1.4 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSA) | <1.1 | <1.1 | <14 | <1.1 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSAA) | < 0.78 | <0.78 | <6.9 | <0.8 | NL | NL |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSE) | <1.1 | <1.1 | <6.9 | <1.1 | NL | NL |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | <1.7 | <1.7 | <6.9 | <1.8 | 30 | 300 |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA) | <0.4 | <0.41 | <6.9 | < 0.42 | 600 | 3,000 |
| 9-chlorohexadecafluoro-3-oxanone-1- | < 0.4 | < 0.41 | <6.9 | < 0.42 | NL | NL |

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Emousing Contominants | | - | Location le Date) | | PAL ¹ | ES ² | |
|--|--------------------|--------------------|----------------------|--------------------|------------------|-----------------|--|
| Emerging Contaminants | MW-1 (08/04/21) | MW-2 (08/04/21) | MW-3 (03/11/21) | MW-3 (08/05/21) | PAL | | |
| sulfonic acid (9Cl-PF3ONS) | | | | | | | |
| 11-chloroeicosafluoro-3-oxaundecane-1- sulfonic acid (11Cl-PF3OUdS) | < 0.55 | < 0.56 | <6.9 | <0.57 | NL | NL | |
| Perfluorooctanoic acid (PFOA)** | 11 | 22 | 12 | 9.6 | | | |
| Perfluorooctanesulfonic acid (PFOS)** | 9.6 | 14 | <3.5 | 29 | | | |
| Perfluorooctane sulfonamide (PFOSA)** | < 0.51 | 0.84 (J) | 47 | 4.2 | | | |
| N-Ethyl perfluorooctane sulfonamide (NEtFOSA)** | <1.1 | <1.1 | <6.9 | <1.2 | PAL ¹ | ES^2 | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)** | < 0.63 | 2.5 (J) | <6.9 | < 0.65 | | | |
| N-Methyl perfluorooctane sulfonamidethanol (NEtFOSE)** | <0.8 | <0.8 | <6.9 | < 0.82 | | | |
| TOTAL ³ | <u>20.6</u> | <u>39.34</u> | <u>59</u> | <u>42.8</u> | 2 | 20 | |

¹ – Preventive Action Limits (PALs) 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
- (B) Concentration of contaminant observed in the laboratory method blank sample
- (EB) Concentration of contaminant observed in the equipment blank sample
- (FB) Concentration of contaminant observed in the field blank sample

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

³ – Total combined concentration of six (6) PFAS compared to the PAL and the ES

^{** -} PFAS constituent included in the combined total compared to the PAL and the ES

⁻⁻ All PFAS constituents reported below limit of quantification; total concentration taken as highest "non-detect concentration and listed in parentheses NL – Not Listed in NR 140 or recommended for inclusion in NR 140

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| | | | Sample Location (Sample Date) | l | | | _ | |
|---|--------------------|--------------------|----------------------------------|------------------------|--------------------|------------------|-----------------|--|
| Emerging Contaminants | MW-4 (08/05/21) | MW-4 (02/04/22) | MW-5 (03/11/21) | MW-5 Dup (03/11/21) | MW-5 (08/05/21) | PAL ¹ | ES ² | |
| Perfluorobutanoic acid (PFBA) | 71 | 62 | 11 (EB) | 11 (EB) | 26 | 2,000 | 10,000 | |
| Perfluoropentanoic acid (PFPeA) | 33 | 35 | 12 (EB) | 12 (EB) | 18 | NL | NL | |
| Perfluorohexanoic acid (PFHxA) | 20 | 17 | 8.6 (EB) | 9.1 (EB) | 13 | 30,000 | 150,000 | |
| Perfluoroheptanoic acid (PFHpA) | 13 | 12 | 5.9 (EB) | 6.4 (EB) | 8 | NL | NL | |
| Perfluorononanoic acid (PFNA) | 4.4 | 3.4 (J) | <3.4 | <3.4 | 0.97 (J) | 3 | 30 | |
| Perfluorodecanoic acid (PFDA) | 3.5 | 2.1 (J) | <3.4 | <3.4 | < 0.44 | 60 | 300 | |
| Perfluoroundecanoic acid (PFUnA) | < 0.52 | < 0.6 | <3.4 | <3.4 | < 0.52 | 600 | 3,000 | |
| Perfluorododecanoic acid (PFDoA) | < 0.39 | < 0.45 | <3.4 | <3.4 | < 0.39 | 100 | 500 | |
| Perfluorotridecanoic acid (PFTriA) | < 0.44 | < 0.51 | <3.4 | <3.4 | < 0.44 | NL | NL | |
| Perfluorotetradecanoic acid (PFTeA) | < 0.53 | < 0.58 | <3.4 | <3.4 | < 0.5 | 2,000 | 10,000 | |
| Perfluorobutanesulfonic acid (PFBS) | 71 | 74 | 21 | 20 | 17 | 90,000 | 450,000 | |
| Perfluoropentanesulfonic acid (PFPeS) | 1.8 (J) | 3 (J) | 1.4 (J) | 1.3 (J) | 1.3 (J) | NL | NL | |
| Perfluorohexanesulfonic acid (PFHxS) | 13 | 13 | 5.2 | 5.9 | 6.1 | 4 | 40 | |
| Perfluoroheptanesulfonic acid (PFHpS) | 0.9 (J) | < 0.48 | <3.4 | <3.4 | < 0.42 | NL | NL | |
| Perfluorononanesulfonic acid (PFNs) | < 0.59 | < 0.68 | <3.4 | <3.4 | < 0.6 | NL | NL | |
| Perfluorodecanesulfonic acid (PFDs) | < 0.65 | < 0.75 | <3.4 | <3.4 | < 0.65 | NL | NL | |
| Perfluorododecanesulfonic acid (PFDoS) | < 0.87 | <1 | < 6.7 | < 6.9 | < 0.87 | NL | NL | |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTSA) | < 0.73 | < 0.84 | <6.7 | <6.9 | < 0.73 | NL | NL | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTSA) | <1.3 | <1.9 | <6.7 | <6.9 | <1.7 | NL | NL | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTSA) | <1.3 | <1.5 | <6.7 | <6.9 | <1.3 | NL | NL | |
| N-Methyl perfluorooctane sulfonamide (NMeFOSA) | <1 | <1.2 | <13 | <13 | <1.1 | NL | NL | |
| N-Methyl perfluorooctane sulfonamide (NMeFOSAA) | <0.77 | <0.9 | <6.7 | <6.9 | < 0.78 | NL | NL | |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSE) | <1.1 | <1.2 | <6.7 | <6.9 | <1.1 | NL | NL | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | <1.7 | <2.0 | <6.7 | <6.9 | <1.7 | 30 | 300 | |
| 4,8-Dioxa-3H-perfluorononanoic acid | < 0.4 | < 0.47 | <6.7 | < 6.9 | < 0.4 | 600 | 3,000 | |

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Emaging Contaminants | | | | PAL^1 | ES ² | | |
|--|--------------------|--------------------|--------------------|------------------------|--------------------|---------|-----------------|
| Emerging Contaminants | MW-4 (08/05/21) | MW-4 (02/04/22) | MW-5 (03/11/21) | MW-5 Dup (03/11/21) | MW-5 (08/05/21) | PAL | ES- |
| (DONA) | | | | | | | |
| 9-chlorohexadecafluoro-3-oxanone-1- sulfonic acid (9Cl-PF3ONS) | <0.4 | <0.46 | <6.7 | <6.9 | <0.4 | NL | NL |
| 11-chloroeicosafluoro-3-oxaundecane-1- sulfonic acid (11Cl-PF3OUdS) | <0.55 | < 0.64 | <6.7 | <6.9 | <0.55 | NL | NL |
| Perfluorooctanoic acid (PFOA)** | 29 | 23 | 12 | 12 | 15 | | |
| Perfluorooctanesulfonic acid (PFOS)** | 69 | 40 | <3.4 | <3.4 | 13 | | |
| Perfluorooctane sulfonamide (PFOSA)** | < 0.51 | < 0.59 | 9.5 | 9.4 | 1.8 (J) | | |
| N-Ethyl perfluorooctane sulfonamide (NEtFOSA)** | <1.1 | <1.3 | <6.7 | <6.9 | <1.1 | PAL^1 | ES^2 |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)** | <0.62 | <0.72 | <6.7 | <6.9 | < 0.63 | | |
| N-Methyl perfluorooctane sulfonamidethanol (NEtFOSE)** | <0.79 | < 0.92 | <6.7 | <6.9 | <0.8 | | |
| TOTAL ³ | <u>98</u> | <u>63</u> | <u>21.5</u> | <u>21.4</u> | <u>29.8</u> | 2 | 20 |

NL – Not Listed in NR 140 or recommended for inclusion in NR 140

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
- (B) Concentration of contaminant observed in the laboratory method blank sample
- (EB) Concentration of contaminant observed in the equipment blank sample
- (FB) Concentration of contaminant observed in the field blank sample

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

³ – Total combined concentration of six (6) PFAS compared to the PAL and the ES

^{** –} PFAS constituent included in the combined total compared to the PAL and the ES

⁻⁻ All PFAS constituents reported below limit of quantification; total concentration taken as highest "non-detect concentration and listed in parentheses

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Emancing Contominants | | | | PAL^1 | ES ² | | |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|--------|---------|
| Emerging Contaminants | MW-201 (08/04/21) | MW-600 (02/04/22) | MW-601 (02/03/22) | MW-602 (02/04/22) | MW-603 (02/03/22) | PAL | ES |
| Perfluorobutanoic acid (PFBA) | 1.6 (J) | 4.8 | 5.4 | 6.1 | 180 | 2,000 | 10,000 |
| Perfluoropentanoic acid (PFPeA) | 6.1 | 0.47 (J) | < 0.48 | 1.3 (J) | 520 | NL | NL |
| Perfluorohexanoic acid (PFHxA) | 7.2 | < 0.58 | < 0.61 | < 0.58 | 230 | 30,000 | 150,000 |
| Perfluoroheptanoic acid (PFHpA) | 5.3 | < 0.38 | < 0.39 | 0.91 (J) | 100 | NL | NL |
| Perfluorononanoic acid (PFNA) | < 0.38 | < 0.39 | < 0.41 | < 0.39 | 7.8 | 3 | 30 |
| Perfluorodecanoic acid (PFDA) | < 0.44 | < 0.44 | < 0.46 | < 0.44 | 3.3 (J) | 60 | 300 |
| Perfluoroundecanoic acid (PFUnA) | < 0.52 | < 0.53 | < 0.55 | < 0.53 | < 0.56 | 600 | 3,000 |
| Perfluorododecanoic acid (PFDoA) | < 0.39 | < 0.4 | < 0.42 | < 0.4 | < 0.42 | 100 | 500 |
| Perfluorotridecanoic acid (PFTriA) | < 0.44 | < 0.45 | < 0.47 | < 0.45 | < 0.47 | NL | NL |
| Perfluorotetradecanoic acid (PFTeA) | < 0.5 | < 0.51 | < 0.53 | < 0.51 | < 0.54 | 2,000 | 10,000 |
| Perfluorobutanesulfonic acid (PFBS) | 3.2 (J) | < 0.35 | < 0.36 | 3.0 (J) | 150 | 90,000 | 450,000 |
| Perfluoropentanesulfonic acid (PFPeS) | < 0.49 | < 0.5 | < 0.52 | < 0.5 | 4 | NL | NL |
| Perfluorohexanesulfonic acid (PFHxS) | 0.95 (J) | < 0.47 | < 0.49 | < 0.47 | 23 | 4 | 40 |
| Perfluoroheptanesulfonic acid (PFHpS) | < 0.41 | < 0.42 | < 0.44 | < 0.42 | 1.8 (J) | NL | NL |
| Perfluorononanesulfonic acid (PFNs) | < 0.59 | < 0.60 | < 0.63 | < 0.6 | < 0.64 | NL | NL |
| Perfluorodecanesulfonic acid (PFDs) | < 0.65 | < 0.66 | < 0.68 | < 0.66 | < 0.69 | NL | NL |
| Perfluorododecanesulfonic acid (PFDoS) | < 0.87 | < 0.89 | < 0.92 | < 0.88 | < 0.93 | NL | NL |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTSA) | <0.73 | <0.74 | <0.77 | <0.74 | < 0.78 | NL | NL |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTSA) | 29 | 16 | 2.9 (J) | <1.7 | 2.9 (J) | NL | NL |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTSA) | <1.3 | <1.4 | <1.4 | <1.4 | <1.4 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSA) | <1 | <1.1 | <1.1 | <1.1 | <1.1 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSAA) | < 0.77 | < 0.79 | < 0.82 | < 0.79 | < 0.83 | NL | NL |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSE) | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | NL | NL |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | <1.7 | <1.8 | <1.8 | <1.8 | <1.9 | 30 | 300 |
| 4,8-Dioxa-3H-perfluorononanoic acid | < 0.4 | < 0.41 | < 0.43 | < 0.41 | < 0.43 | 600 | 3,000 |

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Entering Contacting to | | | | PAL^1 | ES^2 | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|------------------|-----------------|
| Emerging Contaminants | MW-201 (08/04/21) | MW-600 (02/04/22) | MW-601 (02/03/22) | MW-602 (02/04/22) | MW-603 (02/03/22) | PAL. | F2- |
| (DONA) | | | | | | | |
| 9-chlorohexadecafluoro-3-oxanone-1- sulfonic acid (9Cl-PF3ONS) | <0.4 | <0.41 | <0.42 | <0.41 | <0.43 | NL | NL |
| 11-chloroeicosafluoro-3-oxaundecane-1- sulfonic acid (11Cl-PF3OUdS) | <0.55 | <0.56 | <0.58 | <0.56 | <0.59 | NL | NL |
| Perfluorooctanoic acid (PFOA)** | 6.7 | < 0.7 | < 0.73 | 0.78 (J) | 95 | | |
| Perfluorooctanesulfonic acid (PFOS)** | <1.7 | <1.7 | <1.8 | <1.7 | 59 | | |
| Perfluorooctane sulfonamide (PFOSA)** | < 0.51 | < 0.52 | < 0.54 | < 0.52 | < 0.55 | | |
| N-Ethyl perfluorooctane sulfonamide (NEtFOSA)** | <1.1 | <1.1 | <1.2 | <1.1 | <1.2 | PAL ¹ | ES^2 |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)** | < 0.62 | < 0.64 | < 0.66 | < 0.63 | < 0.67 | | |
| N-Methyl perfluorooctane sulfonamidethanol (NEtFOSE)** | <0.79 | <0.81 | <0.84 | <0.8 | <0.85 | | |
| TOTAL ³ | 6.7 | | | 0.78 | <u>154</u> | 2 | 20 |

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

NL – Not Listed in NR 140 or recommended for inclusion in NR 140

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
- (B) Concentration of contaminant observed in the laboratory method blank sample
- (EB) Concentration of contaminant observed in the equipment blank sample
- (FB) Concentration of contaminant observed in the field blank sample

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

³ – Total combined concentration of six (6) PFAS compared to the PAL and the ES

^{** –} PFAS constituent included in the combined total compared to the PAL and the ES

⁻⁻ All PFAS constituents reported below limit of quantification; total concentration taken as highest "non-detect concentration and listed in parentheses

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| | | Sample L (Sample | | | | |
|---|----------------------------|----------------------------|---------------------------|---------------------------|------------------|-----------------|
| Emerging Contaminants | Equipment Blank (03/11/21) | Equipment Blank (08/04/21) | Field Blank (03/11/21) | Field Blank (08/04/21) | PAL ¹ | ES ² |
| Perfluorobutanoic acid (PFBA) | 9.8 (B) | < 0.42 | <3.4 | < 0.45 | 2,000 | 10,000 |
| Perfluoropentanoic acid (PFPeA) | 68 | < 0.56 | <3.4 | < 0.59 | NL | NL |
| Perfluorohexanoic acid (PFHxA) | 2.6 (J) | < 0.7 | <3.4 | < 0.74 | 30,000 | 150,000 |
| Perfluoroheptanoic acid (PFHpA) | 8.1 | < 0.46 | <3.4 | < 0.48 | NL | NL |
| Perfluorononanoic acid (PFNA) | <3.4 | < 0.47 | <3.4 | < 0.5 | 3 | 30 |
| Perfluorodecanoic acid (PFDA) | <3.4 | < 0.54 | <3.4 | < 0.57 | 60 | 300 |
| Perfluoroundecanoic acid (PFUnA) | <3.4 | < 0.64 | <3.4 | < 0.67 | 600 | 3,000 |
| Perfluorododecanoic acid (PFDoA) | <3.4 | < 0.48 | <3.4 | < 0.51 | 100 | 500 |
| Perfluorotridecanoic acid (PFTriA) | <3.4 | < 0.54 | <3.4 | < 0.57 | NL | NL |
| Perfluorotetradecanoic acid (PFTeA) | <3.4 | < 0.61 | <3.4 | < 0.65 | 2,000 | 10,000 |
| Perfluorobutanesulfonic acid (PFBS) | <3.4 | < 0.61 | <3.4 | < 0.65 | 90,000 | 450,000 |
| Perfluoropentanesulfonic acid (PFPeS) | <3.4 | < 0.61 | <3.4 | < 0.64 | NL | NL |
| Perfluorohexanesulfonic acid (PFHxS) | <3.4 | < 0.57 | <3.4 | < 0.59 | 4 | 40 |
| Perfluoroheptanesulfonic acid (PFHpS) | <3.4 | < 0.51 | <3.4 | < 0.54 | NL | NL |
| Perfluorononanesulfonic acid (PFNs) | <3.4 | < 0.73 | <3.4 | < 0.77 | NL | NL |
| Perfluorodecanesulfonic acid (PFDs) | <3.4 | < 0.8 | <3.4 | < 0.84 | NL | NL |
| Perfluorododecanesulfonic acid (PFDoS) | <6.7 | <1.1 | <6.8 | <1.1 | NL | NL |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTSA) | <6.7 | <0.9 | <6.8 | <0.94 | NL | NL |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTSA) | <6.7 | 2.2 (J) | 2.2 (J) | <2.2 | NL | NL |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTSA) | <6.7 | <1.6 | <6.8 | <1.7 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSA) | <13 | <1.3 | <14 | <1.4 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSAA) | <6.7 | < 0.96 | <6.8 | <1.0 | NL | NL |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSE) | <6.7 | <1.3 | <6.8 | <1.4 | NL | NL |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | <6.7 | <2.1 | <6.8 | <2.2 | 30 | 300 |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA) | <6.7 | <0.50 | <6.8 | <0.52 | 600 | 3,000 |

Table A.1.D (Continued). Groundwater Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Emaning Contaminants | | Sample L (Sample | | PAL^{1} | ES ² | |
|--|----------------------------|----------------------------|---------------------------|---------------------------|-----------------|-----------------|
| Emerging Contaminants | Equipment Blank (03/11/21) | Equipment Blank (08/04/21) | Field Blank (03/11/21) | Field Blank (08/04/21) | PAL | ES- |
| 9-chlorohexadecafluoro-3-oxanone-1- sulfonic acid (9Cl-PF3ONS) | <6.7 | <0.49 | <6.8 | <0.52 | NL | NL |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <6.7 | <0.68 | <6.8 | <0.71 | NL | NL |
| Perfluorooctanoic acid (PFOA)** | <3.4 | < 0.85 | <3.4 | < 0.89 | | |
| Perfluorooctanesulfonic acid (PFOS)** | <3.4 | <2.1 | <3.4 | <2.2 | | |
| Perfluorooctane sulfonamide (PFOSA)** | <3.4 | < 0.63 | <3.4 | < 0.66 | | |
| N-Ethyl perfluorooctane sulfonamide (NEtFOSA)** | <6.7 | <1.4 | <6.8 | <1.5 | PAL^1 | $\mathbb{E}S^2$ |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)** | <6.7 | <0.77 | <6.8 | <0.81 | | |
| N-Methyl perfluorooctane sulfonamidethanol (NEtFOSE)** | <6.7 | <0.98 | <6.8 | <1 | | |
| TOTAL | | | | | 2 | 20 |

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

NL – Not Listed in NR 140 or recommended for inclusion in NR 140

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
- (B) Concentration of contaminant observed in the laboratory method blank sample
- (EB) Concentration of contaminant observed in the equipment blank sample
- (FB) Concentration of contaminant observed in the field blank sample

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

³ – Total combined concentration of six (6) PFAS compared to the PAL and the ES

^{** –} PFAS constituent included in the combined total compared to the PAL and the ES

⁻⁻ All PFAS constituents reported below limit of quantification; total concentration taken as highest "non-detect concentration and listed in parentheses

Table A.1.E. Ace Hardware Sump Water Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Encoder Contact | | Location le Date) | DAT 1 | E02 |
|--|--------------------|----------------------|------------------|-----------------|
| Emerging Contaminants | Sump (08/04/21) | Effluent (08/05/21) | PAL ¹ | ES ² |
| Perfluorobutanoic acid (PFBA) | 6.5 | < 0.35 | 2,000 | 10,000 |
| Perfluoropentanoic acid (PFPeA) | 8.2 | < 0.46 | NL | NL |
| Perfluorohexanoic acid (PFHxA) | 5.4 | < 0.58 | 30,000 | 150,000 |
| Perfluoroheptanoic acid (PFHpA) | 2.1 (J) | < 0.38 | NL | NL |
| Perfluorononanoic acid (PFNA) | 0.45 (J) | < 0.39 | 3 | 30 |
| Perfluorodecanoic acid (PFDA) | < 0.46 | < 0.44 | 60 | 300 |
| Perfluoroundecanoic acid (PFUnA) | < 0.55 | < 0.53 | 600 | 3,000 |
| Perfluorododecanoic acid (PFDoA) | < 0.41 | < 0.4 | 100 | 500 |
| Perfluorotridecanoic acid (PFTriA) | < 0.46 | < 0.44 | NL | NL |
| Perfluorotetradecanoic acid (PFTeA) | < 0.52 | <0.5 | 2,000 | 10,000 |
| Perfluorobutanesulfonic acid (PFBS) | 13 | <0.5 | 90,000 | 450,000 |
| Perfluoropentanesulfonic acid (PFPeS) | 1.1 (J) | <0.5 | NL | NL |
| Perfluorohexanesulfonic acid (PFHxS) | 3 (J) | <0.46 | 4 | 40 |
| Perfluoroheptanesulfonic acid (PFHpS) | < 0.44 | <0.42 | NL | NL |
| Perfluorononanesulfonic acid (PFNs) | < 0.62 | <0.6 | NL | NL |
| Perfluorodecanesulfonic acid (PFDs) | < 0.68 | < 0.65 | NL | NL |
| Perfluorododecanesulfonic acid (PFDoS) | <0.91 | <0.88 | NL | NL |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTSA) | <0.76 | <0.73 | NL | NL |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTSA) | <1.7 | <1.7 | NL | NL |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTSA) | <1.4 | <1.3 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSA) | <1.1 | <1.1 | NL | NL |
| N-Methyl perfluorooctane sulfonamide (NMeFOSAA) | < 0.81 | <0.78 | NL | NL |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSE) | <1.1 | <1.1 | NL | NL |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | <1.8 | <1.7 | 30 | 300 |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA) | <0.42 | <0.41 | 600 | 3,000 |
| 9-chlorohexadecafluoro-3-oxanone- 1-sulfonic acid (9Cl-PF3ONS) | <0.42 | <0.4 | NL | NL |
| 11-chloroeicosafluoro-3- oxaundecane-1-sulfonic acid (11Cl- PF3OUdS) | <0.58 | <0.56 | NL | NL |

Table A.1.E (Continued). Ace Hardware Sump Water Analytical Table for Emerging Contaminants (ng/L) (Perfluoroalkyl and Polyfluoroalkyl Substances)

| Emanina Contoninanta | | Location le Date) | PAL^1 | \mathbf{ES}^2 | |
|---|--------------------|----------------------|---------|-----------------|--|
| Emerging Contaminants | Sump (08/04/21) | Effluent (08/05/21) | PAL | LS | |
| Perfluorooctanoic acid (PFOA)** | 4.8 | < 0.7 | | | |
| Perfluorooctanesulfonic acid (PFOS)** | 5.9 | <1.7 | | | |
| Perfluorooctane sulfonamide (PFOSA)** | <0.54 | <0.51 | | | |
| N-Ethyl perfluorooctane sulfonamide (NEtFOSA)** | <1.2 | <1.1 | PAL^1 | ES ² | |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)** | <0.66 | <0.63 | | | |
| N-Methyl perfluorooctane sulfonamidethanol (NEtFOSE)** | < 0.83 | <0.8 | | | |
| TOTAL ³ | 10.7 | | 2 | 20 | |

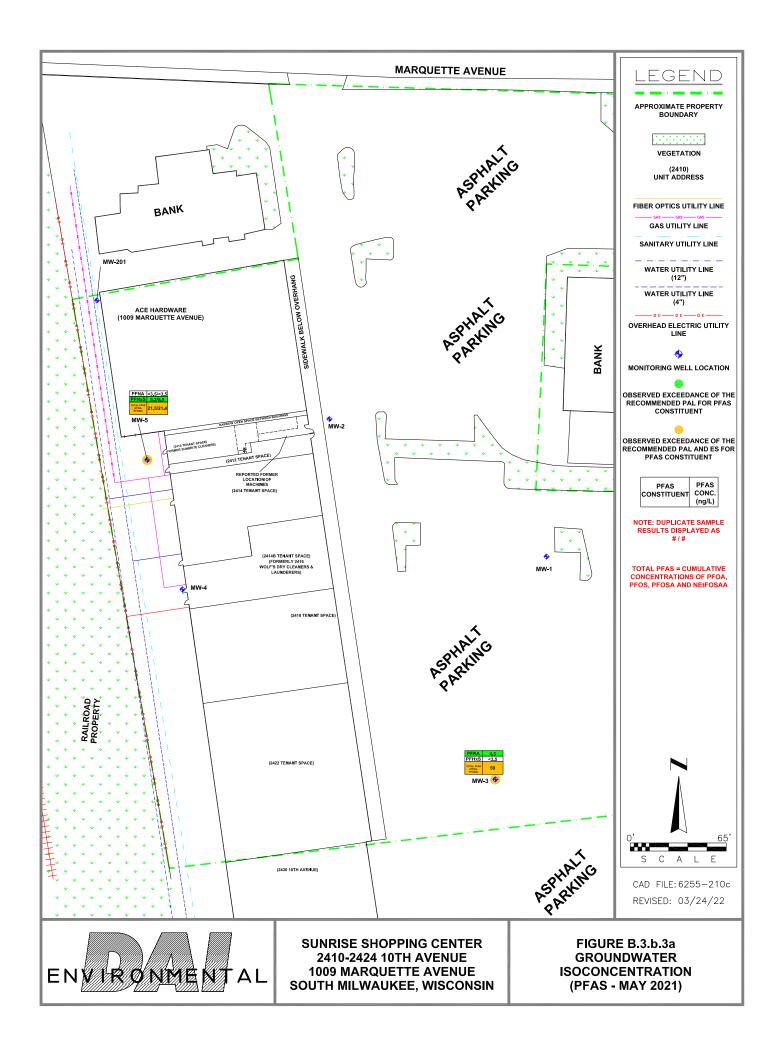
- ¹ Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
- ² Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1
- ³ Total combined concentration of six (6) PFAS compared to the PAL and the ES
- ** PFAS constituent included in the combined total compared to the PAL and the ES
- -- All PFAS constituents reported below limit of quantification; total concentration taken as highest "non-detect concentration and listed in parentheses
- NL Not Listed in NR 140 or recommended for inclusion in NR 140

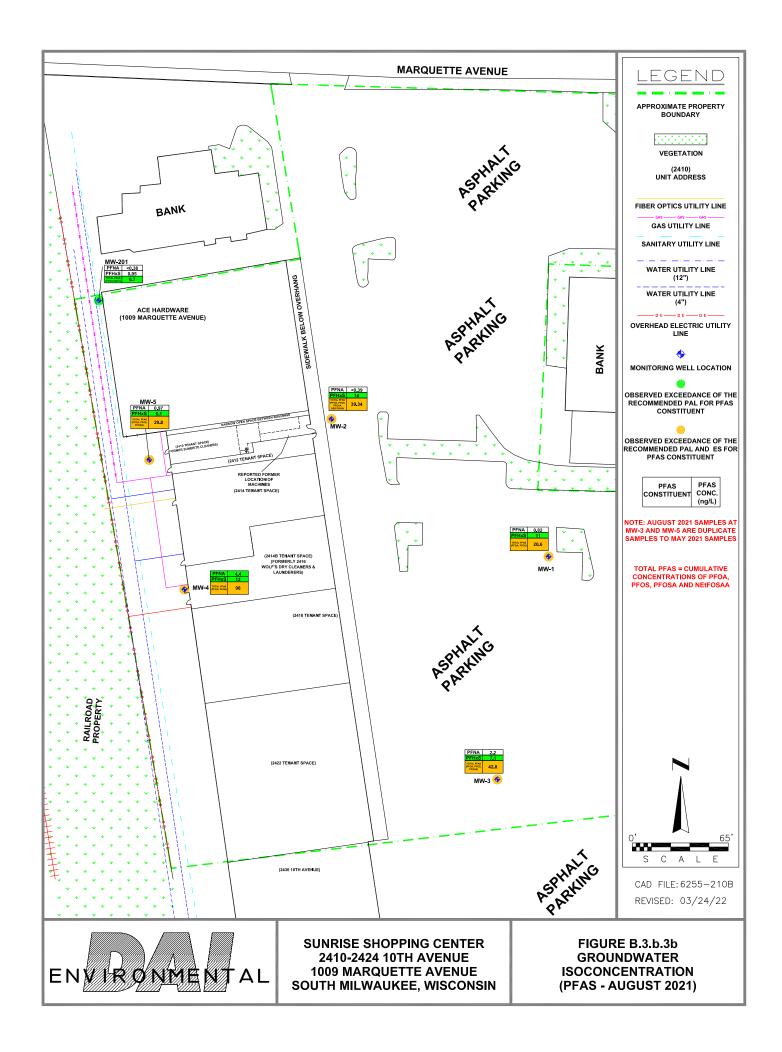
Bold – Concentration exceeds the PAL

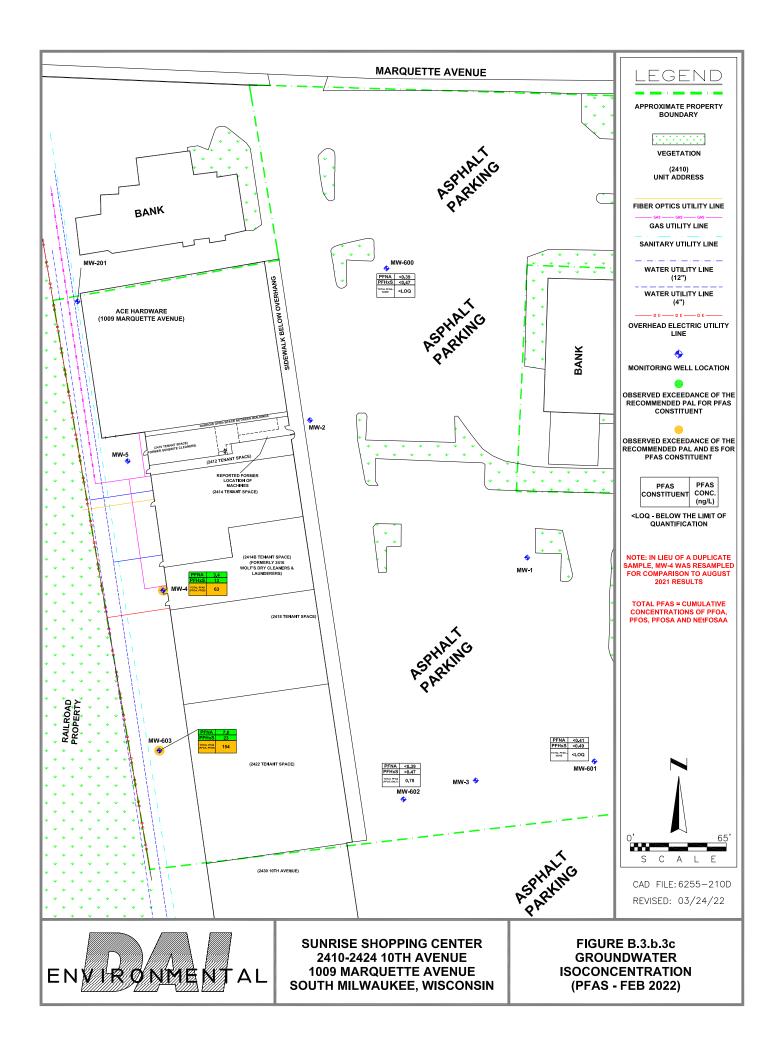
<u>Underlined</u> – Concentration exceeds the PAL and the ES

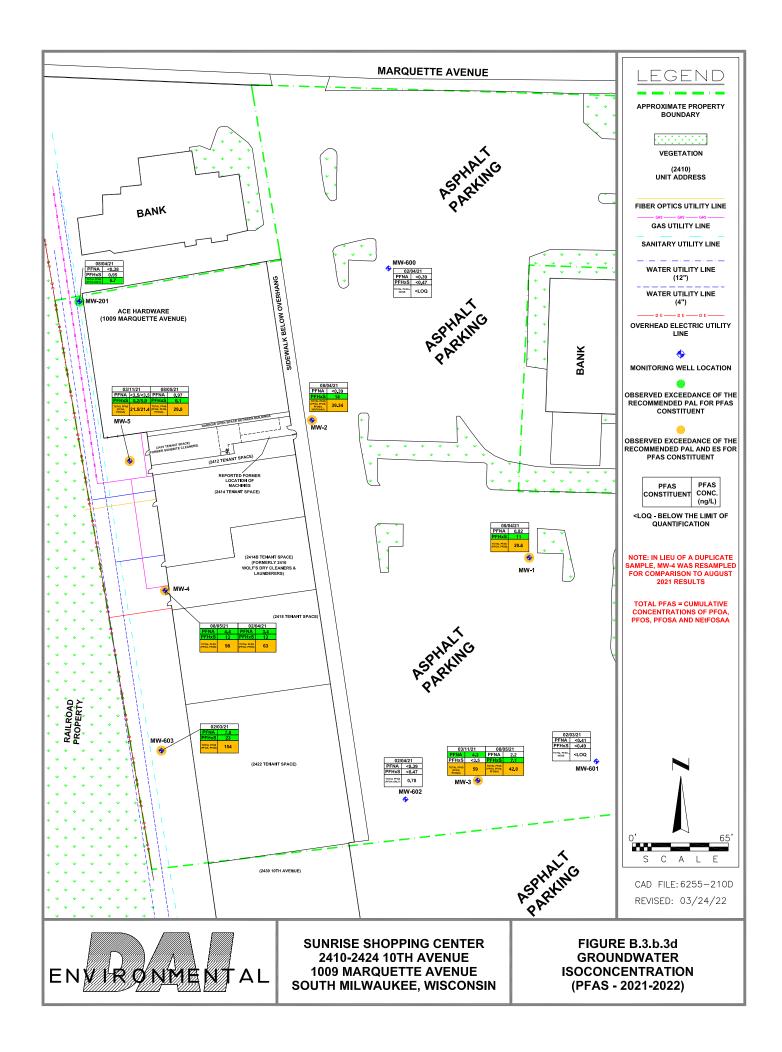
- (J) Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification
- (B) Concentration of contaminant observed in the laboratory method blank sample
- (EB) Concentration of contaminant observed in the equipment blank sample
- (FB) Concentration of contaminant observed in the field blank sample

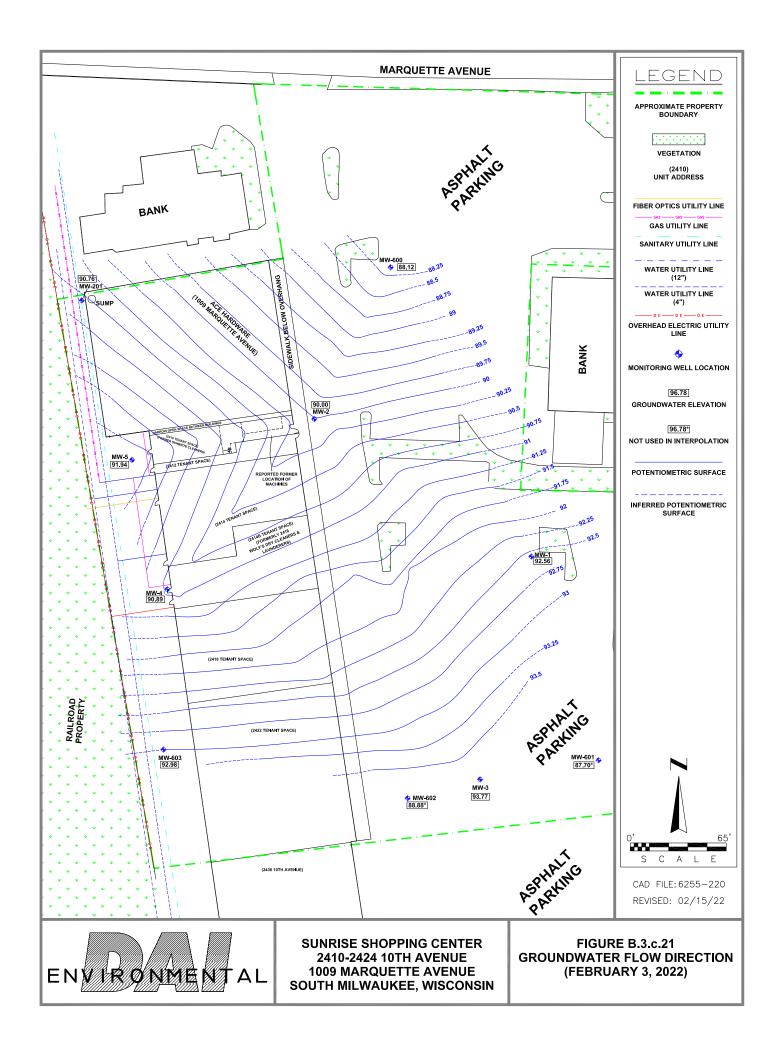
APPENDIX B FIGURES

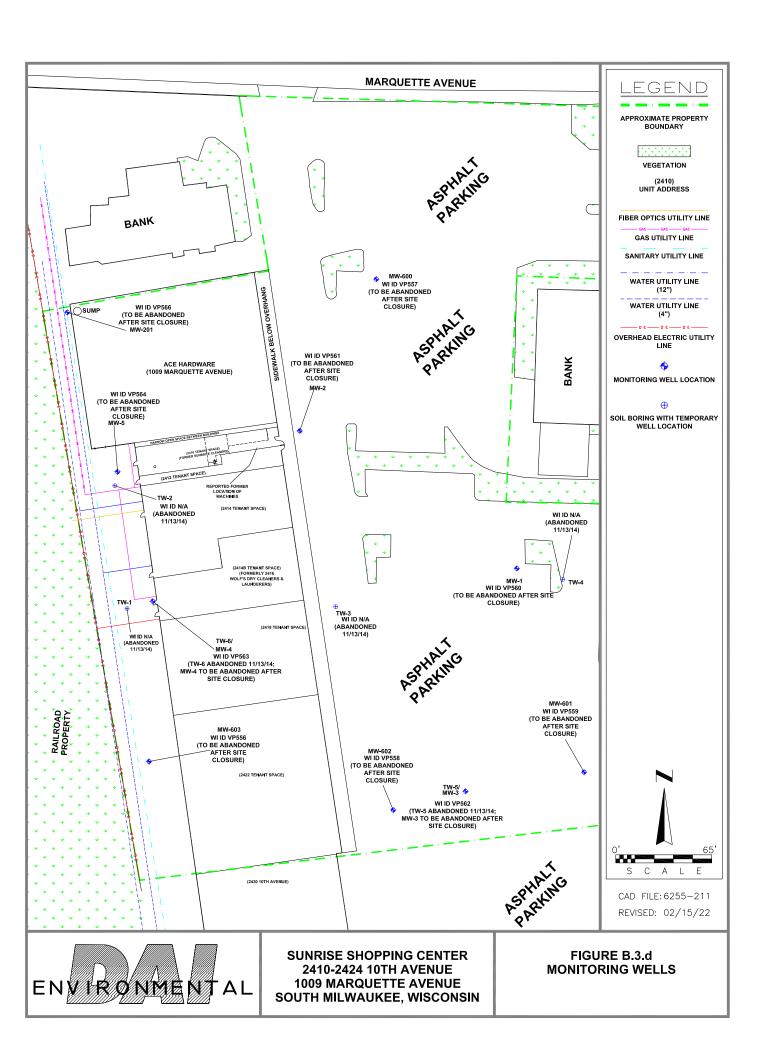












APPENDIX C.1.A SOIL BORING AND MONITORING WELL CONSTRUCTION LOGS (FORMS 4400-122 AND 4400-113) State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

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| | | | | | | | | | | | | | | | Page | . 1 | _ of _ | 1 | |
| | ty/Proje | | | Center (| (6255) | | | Licen | License/Permit/Monitoring Number Boring Number | | | | | | | | | | |
| Borin | g Drille | d By: | _ | e of crev | v chief (first | t, last) and Firm | | Date I | Orillin | g Starte | ed . | Date | Drilling | Com | pleted | Drillir | g Met | thod | • |
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| <u>NW</u> | 1/4 of | SE | 1/4 of | Section | <u>11</u> , T | <u>5</u> N, R <u>22E</u> | | Lo | _ | 0 ' | | 115 | | eet 🗆 | | 92'-9" | _ Feet | t w | _ |
| Facili 2418 | ty 1D 28620 |) | | C | County Milwauke | e | ľ | County C | ode | Civil City | Town/ of S | City/ c outh | т Villa Milwa | _{ge} u kee | | | | | |
| San | _ | | (eo) | | | | _ | | | | | | | | Prope | rties | | | • |
| | Length Att. & Recovered (in) | ınts | Depth in Feet (Below ground surface) | | | lock Description | | | | | | | 2 | | | | | 6 | |
| Number and Type | Length Att. Recovered (| Blow Counts | h in] | | | cologic Origin For th Major Unit | | | CS | nic | _ Lam | Œ | Compressive Strength | ture | .g | icity | | RQD/ Comments | |
| Nun and | Leng | Blov | Dept (Belov | | | | | | S O | Graphic | Well Diagram | PID/FID | Stren | Moisture Content | Liquid Limit | Plasticity Index | P 200 | Som Som | |
| | | | | 0'-15 | .5' Blind d | Irill for monitoring | ng v | well | | <u> </u> | | | Ŭ | 19-02/19 | W 18 10 V | | | | - |
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| | <u> </u> | ·c1 | | :6- | | | | | Ļ | | <u> </u> | <u> </u> | <u></u> | | | | | 1 | - |
| l here Signat | | ify th | at the | ıntorma | uon on this | s form is true and | cor | rect to the Firm | ne bes | t of m | y kno | wledg | e | | | | | | |
| J | | | | | | | | 1 | DAI E | nviro | nmen | tal, In | C. | | | | | | |

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

| | Vatershed/Wastewater[Remediation/Redevelop | ment X Other | Management | MONITORING WE Form 4400-113A | ELL CONSTRU Rev. 7-98 | CTION |
|--|--|---------------------|---|--|---------------------------|--------------------|
| Facility/Project Name | Local Grid Location of | Well FROM SE CO | RNER OF ACE HARDWA | RE Well Name | | - |
| Sunrise Shopping Center (6255) | 115' | tr. ☐ S: | 192'-9" ft. | W. MW-600 | | |
| Facility License, Permit or Monitoring No. | Local Grid Origin X | (estimated: X) | or Well Location | Wis. Unique Well No | o. DNR Well II |) No. |
| Facility ID | The second of | | | Data Wall Installed | | |
| 241828620 | St. Plane Section Location of W | | 20 20 20 | <u>01</u> m | /_20/2022 nd_dy_y | |
| Type of Well Well Code 11 / MW | NE 1/4 of SW 1/4 | of Sec, 11 ,T. | 5 N, R. 22 | Well Installed By: N | Name (first, last) a | |
| Distance from Waste/ Enf. Stds. Sourceft. Apply | Location of Well Relat u Upgradient d K Downgradient | s 🗆 Sidegrae | dient | CABENO | | |
| A. Protective pipe, top elevation NOT OBT. | | | 1. Cap and lock | ? | X Yes [| No |
| | a | | 2. Protective co | ver pipe: | | |
| B. Well casing, top elevation = - = - | ^{IL} | | a. Inside diam | neter: | _ 9 | 9.5 in. |
| C. Land surface elevation NOT OBT | AINED ft. | اً الر | b. Length: | | | 1 _ ft. |
| | | | c. Material: | MOUNT WELL LIB | Steel 🛚 | |
| D. Surface seal, bottom ft. MS | 1 \$2.50X | | (S) | MOUNT WELL LID | Other [| ***** |
| 12. USCS classification of soil near screen | The second secon | M/ | d. Additional | A CHARLES OF THE PARKET | ☐ Yes 🏻 | 1 No |
| GP GM GC GW S SM SC ML MH G | SW D SP D | /#II # / | If yes, des | cribe: | | - 20 |
| Bedrock | Luchu | ``@ @ ` | 3. Surface scal: | | Bentonite [| |
| 13. Sieve analysis performed? | Van WINa | | / | | Concrete Z | |
| 75. | | | `. <u> </u> | | Other D |] 🚃 |
| A STATE OF THE PROPERTY OF THE | ary □ 50 | | 4. Material betw | veen well casing and prote | ective pipe: Bentonite | 3 0 |
| Hollow Stem Au | iger KU 41 ther □ | | NONE | | | |
| ° | ruer — ***** | | and the same | - C1/Chi | Other Z | -5445-446- |
| 15. Drilling fiuid used: Water □ 0 2 | Air □ 01 | | 5. Annular space | | pped Bentonite | |
| The state of the s | None XI 99 | | | gal mud weight Benton | | |
| | 10110 - 322 | | | gal mud weight Bo | | |
| 16. Drilling additives used? | Yes 🛛 No | | d % Be | ntonite Bentonit _Ft ³ volume added for an | e-cement grout L | 50 |
| | | | e | | Tremie | 0 1 |
| Describe | | | f. How insta | | remie pumped | |
| 17. Source of water (attach analysis, if requ | iired): | | | | Gravity 2 | |
| | | | 6. Bentonite sea | a. Ben | tonite granules | |
| | | | | ⊠ 3/8 in. □1/2 in.] | | 3 5 5 5 5 5 5 5 |
| E. Bentonite seal, top ft. MS | Lor0.5ft. | | / c | · verificant forestern . | Other E | |
| | | | / | | | |
| F. Fine sand, top ft. MS | Lor1.0 _ ft. | | | terial: Manufacturer, pro LEY QUARTZ SAND #40 | | sh size |
| G. Filter pack, top ft. MS | L or3.0 ft. | / 图/ | b. Volume a | | _ft ³ | |
| H. Screen joint, top ft. MS | L or _ 5.0 _ ft. | | RW SIDLE | aterial: Manufacturer, pro | | esh size |
| | - 150 - | | ь. Volume a | | | |
| I. Well bottomft. MS | L or15.0 _ ft. | | 9. Well casing: | Flush threaded PVC Flush threaded PVC | | |
| J. Filter pack, bottomft. MS | L or _ 15.5 _ ft. | | <u></u> | | Other [|] 💥 |
| K. Borchole, bottom ft. MS | L or15.5 _ ft. | | Screen mater Screen type | ре: | Factory cut 2 | |
| 0.2 | | | 40.01.4.0 | | ontinuous slot | 900.000 |
| L. Borehole, diameter8.3 in. | | | 10 Slot Sci b. Manufactu | | _ Other [|] |
| M. O.D. well casing 2.38 in. | | ` | c. Slot size: | 2 | | 010 in. 0 _ ft. |
| N. I.D. well casing _ 2.07 _ in. | | | THE THE RESIDENCE OF STREET | orial (below filter pack): | None 2 | 14 |
| I hereby certify that the information on this | form in toward | et to the best of | r knowledoo | | Other [| |
| Control of the Contro | | t to the oest of my | y kilowieuge. | | | |
| Signature | Firm | Environmental | Inc | | | |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Route to: Watershed/Wast | ewater | Waste Management | |
|---|--|------------------------------|--|
| Remediation/Rec | development X | Other | <u> </u> |
| Facility/Project Name | County Name | | Well Name |
| Sunrise Shopping Center (6255) | Milwaukee | | MW-600 |
| Facility License, Permit or Monitoring Number | County Code 41 | Wis. Unique Well Nur | |
| 1. Can this well be purged dry? | es □ No | 11. Depth to Water | Before Development After Development |
| surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only | 4 1 6 1 4 2 6 2 7 0 2 0 1 0 5 1 | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | 50 | | Clear □ 10 |
| 3. Time spent developing well30 | min. | | (Describe) (Describe) |
| 4. Depth of well (from top of well casisng)14 | <u>.74</u> ft. | | |
| 5. Inside diameter of well2.0 | 00 in. | | |
| | 97 gal. | Fill in if drilling fluids | s were used and well is at solid waste facility: |
| | gal. | 14. Total suspended solids | mg/lmg/l |
| 9. Source of water added | | 15. COD | mg/l mg/l |
| 10. Analysis performed on water added? | Yes 🛛 No | First Name: Marcus | : Name (first, last) and Firm Last Name: Greschner nmental, Inc. |
| 17. Additional comments on development: | | | · · |
| Name and Address of Facility Contact /Owner/Responsit First Stoven Last Dukatt | ole Party | | the above information is true and correct to the best |
| Name: Name: Dukatt | | of my knowledge. Signature: | |
| Facility/Firm: Carol Investment Corporation Street: 1401 South Clinton Street | | Print Name: Marcus (| Greschner |
| | | | |
| City/State/Zip: Chicago, Illinois | | Firm: DAI Envi | ironmental, Inc. |

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

| | | 100 | |
|--------|----------|-----|-----------|
| Form - | 4400-122 | | Rev. 7-98 |

| | | | Rou | te To: | | Vastewater Wastewater X | | | t 🗆 | _ | | | | | | | | |
|--------------------|---|-------------|---|---------|---------------------|--------------------------------|-------------|--------------------|----------------|-----------------|-------------------|-------------------------|---------------------|-----------------|---------------------|---------|------------------|------------------------|
| | | | | | | | | | | | | | | Page | . 1 | of | 1 | |
| | ty/Proje | | | Conto | r (6255) | <u></u> | Lic | ense/Per | mit/Mo | nitori | ng Nun | nber | Borin | g Num | | | | _ |
| | | | _ | | ew chief (first, | Dat | e Drillin | g Starte | ed . | Date 1 | Orilling | Com | pleted | Drillir | ng Mei | thod | <u></u> | |
| | First Name: Ben Last Name: Graupera Firm: Cabeno | | | | | | | | | 22 y y | | /_20 d d | | | 1 | | ush/HSA | |
| | nique V | | 0. | DNR | Well ID No. | Well Name | | m d d al Static | | | | d d e Elev | | у у | | | ameter | _ |
| VP: | | | | 4: | | MW-601 | | 8.80 | Feet R | | 98 | 3.61 | _Feet1 | Relative | _3.75 inches | | | _ |
| State I | Plane | rigin | 4/4 B | umatec | _N, | ring Location E | I | Lat | 0 | | Local | Grid L | | n from N | I SOUTH | IWEST (| CORNER OF A | ACE HARDWAR BUILDIN |
| NW | 1/4 of | SE | 1/4 of | Section | n <u>11</u> , T | E 5_N, R 22E | | ong_ | 0 ' | | 2 <u>18'</u> - | <u>10"</u> F | eet 🗆 | S 3 | 33'-5' | _ Fee | | _ |
| I WOIII | ty ID 28620 | | | | County Milwaukee | | County 4 | | Civil City | Town/ of S | City/ c outh l | т Villa Milwa | ge u kee | | | | | |
| Sam | | | (ea) | | | - | | | | | | | Soil | Prope | rties | | | _ |
| | Length Att. & Recovered (in) | ınts | Depth in Feet (Below ground surface) | | | ck Description | | | | | | Š | | | | | 8 | |
| Number and Type | Length Att. Recovered () | Blow Counts | h in] | | | logic Origin For Major Unit | | CS | lic. | I ram | TID. | Compressive Strength | ture ent | . g. | icity | | RQD/ Comments | |
| Nun | Len | Blov | Depi (Belov | | | | | n s | Graphic Log | Well Diagram | PID/FID | Strer | Moisture Content | Liquid Limit | Plasticity Index | P 200 | Com | |
| | | | | | 5.5' Blind dr | ill for monitoring | j well | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| I herel | 3.6 | ify th | at the | inforn | nation on this | form is true and co | | | st of m | y kno | wledg | e | | | | | | _ |
| Signan | m C | | | | | | Firm | | Enviro | nment | al, Ind | Э. | | | | | | |

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

| State of Wisconsin Department of Natural Resources Route to: | Watershed/Wastewater Remediation/Redevelopm | Waste M | lanagement | MONITORING WELI Form 4400-113A | L CONSTRU Rev. 7-98 | CTION |
|--|--|-----------------------|--|---|---|-----------------|
| Facility/Project Name | Local Grid Location of | Well FROM SE CORN | ER OF ACE HARDWARE | Well Name | | |
| Sunrise Shopping Center (6255) | 218'-10' | "_ft. X S | 333'-5" ft. WE. | MW-601 | | |
| Facility License, Permit or Monitoring No. | Local Grid Origin 🔼 | (estimated: X) | or Well Location | Wis. Unique Well No. VP559 | DNR Well II | O No. |
| Facility ID | The second of th | | | Data Wall Installed | | |
| 241828620 | St. Plane Section Location of Wa | | 0 g 0 0 | | $\frac{20}{d} \frac{1}{d} \frac{2022}{y}$ | |
| Type of Well Well Code11/_MW | NE 1/4 of SW 1/4 | of Sec. 11 ,T. 5 | N, R22 🕍 W | Well Installed By: Nar BEN GRAUPERA | ne (first, last) a | |
| Distance from Waste/ Enf. Stds. Source ft. Apply | Location of Well Relati u Upgradient d Downgradient | s 🗆 Sidegradie | ent | CABENO | | _ |
| A. Protective pipe, top elevation NOT OBT | | - A - | 1. Cap and lock? | | X Yes | No |
| | | | 2. Protective cover | pipe: | | |
| B. Well casing, top elevation = - = - | IL - | | a. Inside diamete | or: | _ 3 | 9.5 in. |
| C. Land surface elevation NOT OBT | AINED ft. | ا ال | b. Length: | | <u> </u> | <u>1</u> _ ft. |
| | with the same of t | | c. Material: | | Steel Z | ********* |
| D. Surface seal, bottom ft. MS | 1 \$25 KA | | 2a ——— | UNT WELL LID | Other [| ***** |
| 12. USCS classification of soil near screen | | "Y" If" | d. Additional pro | | ☐ Yes 🏻 | 0 No |
| GP GM GC GW S SM SC ML MH C | SW D SP D V | /} { | If yes, describ | oe: | | |
| Bedrock | Lu Chu | | 3. Surface scal: | | Bentonite [| |
| 13. Sieve analysis performed? | Van MINa | | \ | | Concrete Z | |
| | AND THE RESIDENCE OF THE PARTY | | ` | | Other D |] |
| A STATE OF THE PROPERTY OF THE | tary 🗆 50 | | 4. Material between | n well casing and protecti | ve pipe: Bentonite | 30 |
| Hollow Stem At | uger KD 4-1 Uther 🗆 | | NONE | | - E | |
| ° | mer — **** | | | | Other Z | , can- |
| 15. Drilling fiuid used: Water □ 0 2 | Air □ 01 | | 5. Annular space se | eal: a. Granular/Chipp | | |
| The state of the s | None XI 99 | | | mud weight Bentonite | | |
| | | | | mud weight Bent nite Bentonite-o | | |
| 16. Drilling additives used? | Yes 🛛 No | | d % Dento | volume added for any | of the above | - 30 |
| | | | f. How installed | | Tremie | J 01 |
| Describe | | | I. HOW HISTAIRCE | | nie pumped | |
| 17. Source of water (attach analysis, if requ | uired): | | | | Gravity D | |
| | | | 6. Bentonite seal: | a. Benton | iite granules [| |
| | | | ъ. □1/4 in. 🛭 | 33/8 in. □1/2 in. Ber | ntonite chips D | 32 |
| E. Bentonite seal, top ft. MS | L or0.5 _ ft. | | / c | | Other [| J 💹 |
| | | | T. Pierren de marce | tale. Manufarman and | | ark sinn |
| F. Fine sand, top ft. MS | L or1.0 ft. | | | ial: Manufacturer, produ QUARTZ SAND #4000 |) | isii size |
| G. Filter pack, top ft. MS | SL or3.0 _ ft. | | b. Volume adde | | 3 | |
| H. Screen joint, top ft. MS | L or _ <u>5.0</u> _ ft. | 4 | a. RW SIDLEY | rial: Manufacturer, produ QUARTZ SAND #5 | | esh size |
| I. Well bottom ft. MS | SL or _ 15.0 ft. | | b. Volume adde9. Well casing: | id 5.5 BAGS fr Flush threaded PVC so | | X 23 |
| 1. Well bollom | | | J. Woll casing. | Flush threaded PVC so | | |
| J. Filter pack, bottom ft. MS | L or _ 15.5 _ ft. | | | | Other [| J 💥 |
| K. Borehole, bottom ft. MS | L or 15.5 _ ft. | | Screen material: Screen type: | | Factory cut 2 | X 11 |
| | | | | | tinuous slot | |
| L. Borehole, diameter _8.3 _ in. | | | 10 Slot Scree | | Other [| 700000 |
| M. O.D. well casing 2.38 in. | | | b. Manufacturerc. Slot size: | Monoflex | | 010 in. |
| M. O.D. well casing 2.38 in. | | \ | d. Slotted length | h: | | 10ft. |
| N. 1.D. well casing _ 2.07 _ in. | | | THE TOTAL RESIDENCE OF SECURITIES | l (below filter pack): | None D | X 14 |
| I hereby certify that the information on this | form is true and correct | t to the best of my k | mowledge. | | -20000000000000000000000000000000000000 | - 40,000 |
| Signature | Firm | | | - | | |
| 0 | AND THE PROPERTY. | Environmental l | 20 | | | |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Route to: Watershe | d/Waste | water | Waste Management | Waste Management | | | | | | | |
|--|----------|--------------------------|------------------------------|----------------------|---------------|--|--|--|--|--|--|
| Remediat | ion/Red | evelopment X | Other | | | | | | | | |
| Facility/Project Name Sunrise Shopping Center (6255) | | County Name Milwaukee | | Well Name MW-601 | | | | | | | |
| Facility License, Permit or Monitoring Numbe | r | County Code | Wis. Unique Well N | | DNR W | ell ID Number | | | | | |
| | | 41 | v | P559 | | | | | | | |
| 1. Can this well be purged dry? | X Y | es 🗆 No | 11. Depth to Water | Before Dev | velopmen | nt After Development | | | | | |
| 2. Well development method | | | (from top of | a 10.1 | 12ft. | ft. | | | | | |
| surged with bailer and bailed | | 41 | well casing) | | | | | | | | |
| surged with bailer and pumped | | 5 1 | | | | | | | | | |
| surged with block and bailed | - | 4 2 | Date | b. 01 / 24 | 4 / 20 | $\frac{22}{y} \frac{0}{y} \frac{01}{m} \frac{24}{d} \frac{2022}{y} \frac{2022}{y}$ | | | | | |
| surged with block and pumped | | 52 | | m m d | d y y | y y m m d d y y y y | | | | | |
| surged with block, bailed and pumped | | 70 | | 12 2 | ი □ a.m. | 12 :50 □ a.m. : [X] p.m. | | | | | |
| compressed air | | 20 | Time | c:: | y D.m | : 🔀 p.m. | | | | | |
| bailed only | | 10 | 12 Sadiment in well | 0.0 | • • • | 0.0 | | | | | |
| pumped only | | 5 1 | 12. Sediment in well bottom | | inches | | | | | | |
| pumped slowly | 30 | 5 0 | | Class T 1 | | Class E 44 | | | | | |
| Other | | | 13. Water clarity | Clear 📋 1 Turbid 😥 1 | | Clear □ 20 Turbid 図 25 | | | | | |
| 3. Time spent developing well | 30 | min. | | (Describe) | | (Describe) | | | | | |
| 4. Depth of well (from top of well casisng) | 14. | 85 ft. | | - | | | | | | | |
| 5. Inside diameter of well | 2.0_ | <u>0</u> <u>i</u> n. | | | | | | | | | |
| | | | | | | <u> </u> | | | | | |
| 6. Volume of water in filter pack and well | | - | | | | · ——— | | | | | |
| casing _ | 0.7 | 7 gal. | Dill in it deliling that | da wana waad a | ما المسالم | at anlid waste facilities | | | | | |
| 7. Volume of water removed from well | 10. | 00 gal. | Fin in it drining nur | us were useu a | nd wen is | at solid waste facility: | | | | | |
| - Volume of water followed from well | | — <i>5</i> | 14 Total suspended | | me/l | mg/l | | | | | |
| 8. Volume of water added (if any) | 0.0 | gal. | solids | | | | | | | | |
| 9. Source of water added | | | 15. COD | | mg/l | mg/l | | | | | |
| | | | 16. Well developed t | ov: Name (first. | last) and Fir | m | | | | | |
| 10. Analysis performed on water added? | ПΥ | es 🛛 No | First Name: Marcu | | | me: Greschner | | | | | |
| (If yes, attach results) | | 17.41% | | | | inc. Greschiler | | | | | |
| 17 Additional comments on developments | | | Firm: DAI Enviro | onmental, Inc | ·- | | | | | | |
| 17. Additional comments on development: | | | | i. | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Name and Address of Facility Contact/Owner/Ro | enoneih | le Party | | | | - | | | | | |
| Circt Loct | 18 | ic I arry | | at the above in | formation | is true and correct to the best | | | | | |
| Name: Steven Name: Duk | att | | of my knowledge. | | | | | | | | |
| Facility/Firm: Carol Investment Corporat | ion | | Signature: | | | | | | | | |
| Street: 1401 South Clinton Street | | | Print Name: Marcus Greschner | | | | | | | | |
| City/State/Zip: Chicago, Illinois | | | Firm: DAI En | vironmental, | Inc. | | | | | | |
| | | | | | | <u> </u> | | | | | |

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

| Form 4400-122 | Rev. 7-98 |
|---------------|-----------|

| | | | Rou | te To: | | Wastewater | | | - | | | | | | | | | | |
|--|---|-------------|---|--------|--------------------|---|------|---|---|----------------|-----------------|---------------------|-------------------------|---------------------|-----------------|----------------------|------------|------------------|--|
| | | | | | | | | | | | | | | | Page | 1_ | of | 1 | |
| | ity/Proj | | | Contor | (6255) | ÷ . | | Licen | se/Peri | mit/Mo | nitorin | ng Nur | nber | Borin | g Num | | | | |
| | | | | | | , last) and Firm | | Date 1 | Date Drilling Started Date Drilling Completed Drilling Method | | | | | | | | | | |
| | Name: Bo | | | Last N | Jame: Graup | era | | | | /_ <u>y</u> 20 | | | /_20 d d | | | 1 | | ush/HSA | |
| | Firm: Cabeno WI Unique Well No. DNR Well ID No. Well Name | | | | | | | | | y y Water | | | d d ce Elev | | у у | Borehole Diameter | | | |
| VP558 MW-602 Local Grid Origin □ (estimated: □) or Boring Location □ | | | | | | | | <u>_</u> 8 | 8.80 | Feet R | | 99.69 Feet Relative | | | | _3.75_ inches | | | |
| Ctata | Diama | | | | NT . | | | I | Lat Local Grid Location FROM SOUTHWEST | | | | | WEST | CORNER OF ACE | HARDWARE BUILDING | | | |
| <u>N</u> | 1/4 of | SE | 1/4 & 1/4 of | | | 5 N, R 22E | - | Lo | | ' ٥ | | | <u>'-6"</u> F | eet 🗆 | | 04'-3" | _ Feet | | |
| Facili 2418 | ity ID 328620 |) | | | County Milwauke | e | Co | ounty C | ode | Civil City | Town/ of S | City/ c outh | я Villa Milwa | ge ukee | | | | | |
| San | nple | | (ec) | Γ' | | | | | | | | | | Soil | Prope | rties | | | |
| | Length Att. & Recovered (in) | ınts | Depth in Feet (Below ground surface) | | | ock Description | | | | | | | e v | | | | | | |
| Number and Type | Length Att. Recovered (| Blow Counts | h in] | | | ologic Origin For h Major Unit | | | CS | пċ | _ Lam | E GE | Compressive Strength | ture | . g | icity | icity x | RQD/ Comments | |
| Nun and | Leng | Blow | Dept Belov | | • | | | | n s | Graphic | Well Diagram | PID/FID | Stren | Moisture Content | Liquid Limit | Plasticity Index | P 200 | [SQD] | |
| | | | | 0'-1 | 5.5' Blind d | rill for monitoring | a w | ell | | | | | | J | W W O | | | | |
| | | | | | allation | • | | | | | | | | | | | | | |
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| I here Signat | | ify th | at the | inform | ation on this | form is true and co | orre | ct to the | he bes | t of m | y kno | wledg | e | | _ | | | | |
| oigiidi | .u.v | | | | | | | 100000000000000000000000000000000000000 | DAI E | nviror | ment | al, In | C. | | | | | | |

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

| State of Wisconsin Department of Natural Resources Route to: | Watershed/Wastewater [Remediation/Redevelop | Waste | Management | MONITORING WE Form 4400-113A | LL CONSTRU Rev. 7-98 | CTION |
|--|--|--|------------------------------|--|---------------------------------|---|
| Facility/Project Name | Local Grid Location of | Wellfrom SE COI | RNER OF ACE HARDW <u>A</u> F | RE Well Name | | |
| Sunrise Shopping Center (6255) | 244'-6" | ft. X S | | 7. MW-602 | | |
| Facility License, Permit or Monitoring No. | Local Grid Origin X | (estimated: X) | or Well Location | □ Wis. Unique Well No "or VP558 | o. DNR Well II |) No. |
| Facility ID | The second of th | | | Data Wall Installed | | |
| 241828620 | St. Planc Section Location of W | | | 7N 01 m m | $\frac{1}{20} / \frac{2022}{0}$ | |
| Type of Well Well Code11/_MW | NE 1/4 of SW 1/4 | of Sec. 11 , T. | 5 N, R. 22 | Well Installed By: N BEN GRAUPER | Name (first, last) a | |
| Distance from Waste/ Enf. Stds. Sourceft. Apply | Location of Well Relat u Upgradient d Downgradient | s 🗆 Sidegra | dient | CABENO | | _ |
| A. Protective pipe, top elevation NOT OBT | | I ZI INDITER | 1. Cap and lock? | ! | X Yes | No |
| | | | 2. Protective cov | rer pipe: | | |
| B. Well casing, top elevation = - = - | ^{IL} | | a. Inside diam | eter: | _ 9 | 9.5 in. |
| C. Land surface elevation NOT OBT | AINED ft. | ا الم | b. Length: | | _ 1 | <u>1</u> _ ft. |
| | | | c. Material: | ACUNT WELL LID | Steel 🛚 | ******** |
| D. Surface seal, bottom ft. MS | #25EXXX | | | MOUNT WELL LID | Other □ | ***** |
| 12. USCS classification of soil near screen | | | d. Additional | Control of the Contro | ☐ Yes 🛚 |] No |
| GP GM GC GW S SM SC ML MH C | SW D SP D | /\$ \$ / · | If yes, desc | eribe: | | |
| Bedrock | Lu Chu | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 3. Surface scal: | | Bentonite | |
| 13. Sieve analysis performed? | Yes 🛛 No | | 1 | | Concrete Z | 2000000 |
| | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | · | | Other □ | J 🚃 |
| A STATE OF THE PROPERTY OF THE | tary 🗆 50 | | 4. Material between | een well casing and prote | ctive pipe: Bentonite | 3 0 |
| Hollow Stem At | ther 🗆 | | NONE | | E-1 | |
| ° | mer — **** | | - | - C1/CL | Other Z | ALC: ALC: |
| 15. Drilling fiuid used: Water □ 0 2 | Air □ 01 | | 5. Annular space | | pped Bentonite | |
| The state of the s | None X 99 | | | al mud weight Benton | | |
| | | | | al mud weight Bo | | |
| 16. Drilling additives used? | Yes 🛛 No | | d % Ben | tonite Bentonite Ft ³ volume added for an | s-cement grout L | 50 |
| | | | | | Tremie | 0 1 |
| Describe | | | f. How instal | | remie pumped | |
| 17. Source of water (attach analysis, if requ | uired): | | | •• | Gravity 🛭 | |
| | | | 6. Bentonite seal | l: a. Bent | tonite granules | 40 |
| | | M M | | X03/8 in. □1/2 in. I | | 1 5 5 5 5 5 5 5 |
| E. Bentonite seal, top ft. MS | L or0.5ft. | | / c | | Other E | |
| | | | / | | | |
| F. Fine sand, top ft. MS | L or1.0 _ ft. | | | terial: Manufacturer, pro EY QUARTZ SAND #40 | | sh size |
| G. Filter pack, top ft. MS | SL or3.0 ft. | / | b. Volume ad | lded 1 BAG | ft ³ | **** |
| H. Screen joint, top ft. MS | L or _ 5.0 _ ft. | | a. RW SIDLE | aterial: Manufacturer, pro Y QUARTZ SAND #5 | | esh size |
| A 160 | т. 15.0 д. | | ь. Volume ad | | | |
| I. Well bottom ft. MS | SL or _ 15.0 _ ft. | | 9. Well casing: | Flush threaded PVC Flush threaded PVC | | |
| J. Filter pack, bottomft. MS | L or15.5_ ft. | ノ星へ | <u> </u> | 71/0 | Other [| J 💥 |
| K. Borehole, bottom ft. MS | л 15.5 д. | | 10. Screen materi | MONEY NO. | | 2 |
| K. Horehole, bottom | Lor | | a. Screen typ | | Factory cut 2 ontinuous slot | |
| L. Borehole, diameter _8.3 _ in. | | | 10 Slot Scr | | Other [| 30.50 |
| L. Borenoie, diameter m. | | 1 | b. Manufactur | | . Office L | |
| M. O.D. well casing | | 1 | c. Slot size: | | | 010 in. |
| 2.27 | | | d. Slotted len | DESCRIPTION AND DEPOS A RELEASE | | <u> 0 </u> |
| N. I.D. well casing _ 2.07 _ in. | | | 11. Backfill mater | rial (below filter pack): | None Z | |
| I hereby certify that the information on this | form is true and acres | t to the best of my | v knowledce | <u> </u> | Outer | |
| Signature | Firm | e to the oest of the | y Kilowieuge. | - | | |
| aigname | 444 (1444) | Environmental | Inc | | | |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin Department of Natural Resources

Route to: Watershed/Wastewater

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Remediation/Red | development X | Other | | |
|--|-----------------|-----------------------------|-------------------------|--|
| Facility/Project Name | County Name | | Well Name | |
| Sunrise Shopping Center (6255) | Milwaukee | | MW-602 | |
| Facility License, Permit or Monitoring Number | County Code 41 | Wis. Unique Well Nur | | DNR Well ID Number |
| 1. Can this well be purged dry? | es □ No | 11. Depth to Water | Before Dev | velopment After Development |
| 2. Well development method | | (from top of | 10.2 | 1fifi. |
| The Action of the Control of the Con | 4 1 | well casing) | | |
| surged with bailer and pumped | 61 | | | |
| surged with block and bailed | 42 | Date h | 01 / 24 | $\frac{1}{1} / \frac{2022}{y} \frac{y}{y} \frac{01}{m} / \frac{24}{d} / \frac{2022}{y} \frac{2022}{y}$ |
| | 62 | Ĭ | m m d d | d'yyyy mm'dd'yyyy |
| | 70 | | 1 00 | □ a.m. 4 20 □ a.m. |
| | 20 | Time c | · _':' | □ a.m. □ ☑ p.m. 1 : 30 □ a.m. □ ☑ p.m. |
| | 10 | 10 6 1 1 | 0.0 | |
| | 5 1 | 12. Sediment in well bottom | _ 0.0. | inchesinches |
| | 50 | | C1 1 | 0 0 |
| Other | | 13. Water clarity | Clear 1 Turbid 1 | |
| 3. Time spent developing well30 | min. | | (Describe) | (Describe) |
| 4. Depth of well (from top of well casisng)14 | .62 ft. | | 27 | |
| 5. Inside diameter of well2. | <u>00</u> in. | | | |
| 6. Volume of water in filter pack and well casing0. | <u>′3.</u> gal. | Eill in if deilling fluide | ware used a | nd well is at colid wests facility. |
| 7. Volume of water removed from well10 | .00 gal. | | | nd well is at solid waste facility: mg/l mg/l |
| 8. Volume of water added (if any) |) gal. | solids | | '''g'1 |
| 9. Source of water added | | 15. COD | | mg/l mg/l |
| | | 16. Well developed by | : Name (first, l | ast) and Firm |
| 10. Analysis performed on water added? | es 🛭 No | First Name: Marcus | | Last Name: Greschner |
| SAME OF THE PROPERTY OF THE PR | | Firm: DAI Environ | mental, Inc. | - |
| 17. Additional comments on development: | | | | |
| Name and Address of Facility Contact/Owner/Responsit | ole Party | I hereby certify that | the above inf | formation is true and correct to the best |
| First Steven Last Dukatt Name: Name: | | of my knowledge. | | |
| Facility/Firm: Carol Investment Corporation | | Signature: | | |
| Street: 1401 South Clinton Street | | Print Name: Marcus (| Greschner | |
| City/State/Zip: Chicago, Illinois | | Firm: DAI Envi | ronmental, l | inc. |
| <u> </u> | | | | |

Waste Management

NOTE: See instructions for more information including a list of county codes and well type codes.

| State of Wisconsin | |
|---------------------------------|--|
| Department of Natural Resources | |

SOIL BORING LOG INFORMATION

| Dopardion of Natural Resources | | | | 1 | Form 4 | 400-12 | 22 | | R | ev. 7- | 98 | |
|--|----------------|----------|--------------------|----------------------|--------------|---------------------------|---------------------|-----------------|---------------------|--------|------------------|------------------------|
| Route To: Watershed/Wastewater Waste | | - | | | | | | | | | | |
| Remediation/Revelopment 🗵 Oth | ner | <u> </u> | | | _ | | | | | | | |
| Facility/Project Name | II ioon | /D | nit/Mo | | NT | | D!- | Page Num | | _ of _ | 1 | |
| Sunrise Shopping Center (6255) | Licens | se/Perr | пцио | nitorin | ig ivun | nber | Borin | g Num | ber | | | |
| Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Ben Last Name: Graupera | Date D | | | | | | | | Drillin | g Met | thod | • |
| Firm: Cabeno | 01 m m | 20 d | $\frac{202}{y}$ | $\frac{22}{y}$ ${y}$ | _01 m m | $\frac{20}{d}$ | $\frac{20}{y}$ | 22_y | Dir | ect P | ush/HSA | |
| WI Unique Well No. DNR Well ID No. Well Name | Final S | Static V | Water I Feet Re | ævel elative | Surface 1 | e Elev 00.02 | ation _FeetF | Relative | 3.7 | 75 i | ameter | • |
| Local Grid Origin (estimated:) or Boring Location State Plane N, E | | at | 0 ' | | Local | Grid L | | n FROM | SOUTH | WEST | CORNER OF AC | E HARDWARE BUILDING |
| NE 1/4 of SW 1/4 & NW 1/4 of SE 1/4 of Section 11 , T 5 N, R 22E Facility ID County Co | Lon ounty C | ng | | | 211 | ' <u>-7"</u> F r Villa | eet 🔽 | S 3 | <u>8'-11"</u> | Feet | t W | |
| 241828620 Milwaukee | 41_ | — | | | | Milwa | | | | | | |
| Sample | | | | | | | Soil | Prope | rties | | | • |
| Soil/Rock Description And Geologic Origin For | | | | | | ive | | | | | sq | |
| Number and Type Tength Att. & Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description And Geologic Origin For Each Major Unit | | CS | hic | Well Diagram | PID/FID | Compressive Strength | Moisture Content | . g | Plasticity Index | 0 | RQD/ Comments | |
| And | | n s | Graphic Log | Well Diagra | PID | Com | Mois | Liquid Limit | Plast Inde | P 200 | SQI Com | |
| 0'-15.5' Blind drill for monitoring we | ell | | | П | | 8 | | | | | | - |
| installation | | | | | | | | | | | | |
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| I hereby certify that the information on this form is true and corre | | ne bes | of m | y kno | wledg | e | | | | | | |
| Signature | Firm [| DAI E | nviron | ment | al, Ind | D . | | | | | | |

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

| | Vatershed/Wastewater Remediation/Redevelopm | ent X Other | anagement | MONITORING WELL Form 4400-113A | CONSTRU Rev. 7-98 | CTION |
|--|--|---------------------|--|--|--|-----------------|
| Facility/Project Name | Local Grid Location of V | Ve]]FROM SW CORN | IER OF ACE HARDWARE | Well Name | | |
| Sunrise Shopping Center (6255) | 211'-7" | _ft. X S | 38'-11" ft. □ W. | MW-603 | | |
| Facility License, Permit or Monitoring No. | Local Grid Origin X (| estimated: X) | or Well Location | Wis. Unique Well No. VP556 | DNR Well II |) No. |
| Facility ID | St. Plane | | | Date Well Installed | | |
| 241828620 | Section Location of Was | 1990 | 20 00 00 00 | | $\frac{20}{d} \frac{1}{20} \frac{2022}{y}$ | |
| Type of Well Well Code 11 / MW | NE 1/4 of SW 1/4 of | f Sec, 11 ,T. 5 | N, R22 🛱 W | | | |
| Distance from Waste/ Enf. Stds. Source ft. Apply | Location of Well Relativ u □ Upgradient d □ Downgradient | s 🗌 Sidegradie | ent | CABENO | | _ |
| A. Protective pipe, top elevation NOT OBT. | | | 1. Cap and lock? | • | X Yes | No |
| | | | -2. Protective cover | pipe: | | |
| B. Well casing, top elevation | | | a. Inside diamete | er: | | 9.5 in. |
| C. Land surface elevation NOT OBT | AINED ft. | ا الـ | b. Length: | | | <u>1</u> _ ft. |
| | | | c. Material: | IINT WELL LIB | Steel 🛚 | ******** |
| D. Surface seal, bottom ft. MS | | | 2; ——— | UNT WELL LID | Other - | ***** |
| 12. USCS classification of soil near screen | | $M \mid M$ | d. Additional pro | | ☐ Yes 🏻 | No No |
| GP GM GC GW S SM SC ML MH C | SW D SP D \ | /計 限 / リ | If yes, describ | oe: | | |
| Bedrock | LUCHU | | 3. Surface scal: | | Bentonite [| |
| | V MINT- | | | | Concrete Z | 2000000 |
| 75. | A CONTRACTOR OF THE CONTRACTOR | | ` | | Other E |] 🧰 |
| A STATE OF THE PROPERTY OF THE | tary 🗆 50 | | 4. Material between | n well casing and protective | | 7 20 |
| Hollow Stem Au | | | NONE | | Bentonite [| |
| | ther 🗆 🏬 | | NONE | 0 1 101 | Other 🛭 | ALC: ALC: |
| 15. Drilling fiuid used: Water □ 0 2 | Air □ 01 | | 5. Annular space so | eal: a. Granular/Chippe | | |
| The state of the s | None XI 99 | | | mud weight Bentonite | | |
| 2 | TORC EL 77 | | | mud weight Bente | | |
| 16. Drilling additives used? | Yes 🛛 No | | d % Benton | nite Bentonite-c | ement grout L | 50 |
| The first transfer and the property of the strategy and t | Proceedings and American | | | ³ volume added for any o | Tremie | . 0.1 |
| Describe | 20 | | f. How installed | | | |
| 17. Source of water (attach analysis, if requ | iired): | | | Trett | ie pumped Gravity | |
| | | | 6. Bentonite seal: | 2 Renton | ite granules | 40 |
| | | | | 3/8 in. □ 1/2 in. Ben | | 1 5 5 5 5 5 5 5 |
| E. Bentonite seal, top ft. MS | 1 or 0.5 ft | | р. ш <u>т</u> /4 пг. и | 23/6 In. □ 1/2 III. BCD | Other E | |
| L. Bellomie seat, up | 201 | | r c | * | CALIET L | - <u>***</u> |
| F. Fine sand, top ft. MS | L or1.0 ft. | | / PW SIDLEY | al: Manufacturer, product QUARTZ SAND #4000 | | sh size |
| G. Filter pack, top ft. MS | L or3.0 _ ft. | 4 1/ | b. Volume adde | | 3 | |
| H. Screen joint, top ft. MS | L or _ 5.0 _ ft. | 4 | | rial: Manufacturer, produ QUARTZ SAND #5 | | esh size |
| | | | b. Volume adde | | 3 | |
| I. Well bottomft. MS | L or15.0 _ ft. | | 9. Well casing: | Flush threaded PVC so Flush threaded PVC so | | |
| J. Filter pack, bottom ft. MS | L or _ 15.5 _ ft. | | | | Other [| J 💥 |
| K. Borehole, bottom ft. MS | L or15.5 _ ft. | | Screen material: Screen type: | | Factory cut 2 | <u></u> 1 1 |
| | _ | | | | inuous slot | 0 1 |
| L. Borehole, diameter _8.3 _ in. | | 1 | 10 Slot Scree b. Manufacturer | | Other [| |
| M. O.D. well casing 2.38 _ in. | | / | c. Slot size: | | | 010 in. |
| N. I.D. well casing _ 2.07 _ in. | | | THE THE RESIDENCE AND ADDRESS OF THE PARTY O | n. l (below filter pack): | None 2 | |
| | | | | | Other [| |
| I hereby certify that the information on this | | to the best of my k | nowledge. | | | |
| Signature | Firm | invironmental In | 20 | | | |

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin Department of Natural Resources

Route to: Watershed/Wastewater

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

| Remediation/Rede | evelopment X | Other | | |
|--|-----------------|---------------------------|-------------------|--|
| Facility/Project Name | County Name | | Well Name | |
| Sunrise Shopping Center (6255) | Milwaukee | | MW-603 | |
| Facility License, Permit or Monitoring Number | County Code 41_ | Wis. Unique Well Nu | mber 2556 | DNR Well ID Number — — — |
| 1. Can this well be purged dry? | s □ No | 11. Depth to Water | Before Dev | velopment After Development |
| 2. Well development method | | (from top of | 6.42 | !ftft. |
| | 1 | well casing) | | |
| surged with bailer and pumped | | | | |
| surged with block and bailed | | Date | L 01 / 24 | 1 2022 01 24 2022 |
| surged with block and pumped | | | m m d | $\frac{1}{d} / \frac{2022}{y} \frac{y}{y} \frac{01}{m} / \frac{24}{d} / \frac{2022}{y} \frac{2022}{y}$ |
| | ō | | | |
| The state of the s | 0 | Time | c1 : <u>40</u> _ | □ a.m. □ ☑ p.m. 2 : 10 □ a.m. ☑ □ p.m. |
| bailed only | 0 | | | |
| pumped only | 1 | 12. Sediment in well | 0.0 . | inches0.0 inches |
| pumped slowly | 0 | bottom | | |
| Other | _ | 13. Water clarity | Clear 📋 1 | |
| | ****** | | Turbid 🔽 1 | Turbid 25 |
| 3. Time spent developing well30 | min. | | (Describe) | (Describe) |
| 4. Depth of well (from top of well casisng)14.7 | 9 ft. | | - | |
| 5. Inside diameter of well2.00 | in. | | | |
| 6. Volume of water in filter pack and well casing1.37 | gal. | Fill in if drilling fluid | e ware need a | nd well is at solid waste facility: |
| 7. Volume of water removed from well17.0 | 00 gal. | | | • |
| 8. Volume of water added (if any) | gal. | solids | | mg/l mg/l |
| 9. Source of water added | | 15. COD | | mg/l mg/l |
| | | 16. Well developed by | v: Name (first.) | last) and Firm |
| 10. Analysis performed on water added? | s 🛭 No | First Name: Marcus | | Last Name: Greschner |
| SERVICE CO. C. | | Firm: DAI Enviro | nmental, Inc | • |
| 17. Additional comments on development: | | | 4 | |
| | | | | |
| Name and Address of Facility Contact/Owner/Responsible | e Party | I hereby certify that | t the above in | formation is true and correct to the best |
| First Steven Last Dukatt Name: | | of my knowledge. | t the above in | tornation is true and correct to the best |
| Facility/Firm: Carol Investment Corporation | | Signature: | | |
| Street: 1401 South Clinton Street | | Print Name: Marcus | Greschner | |
| City/State/Zip: Chicago, Illinois | | Firm: DAI Env | rironmental, | Inc. |
| | | | | |

NOTE: See instructions for more information including a list of county codes and well type codes.

Waste Management ____

APPENDIX C.1.C MONITORING WELL INFORMATION SUMMARY (FORM 4400-89) State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

Note: In order to fill and save this form electronically, it must be opened using Adobe Reader or Acrobat software. Save a copy of the file, open Adobe Reader, select File > Open and browse for the file you saved.

GROUNDWATER MONITORING WELL AND POINT INFORMATION

Form 4400-089 (R 04/19)

Page 1 of 5

Use the Groundwater Monitoring Well and Point Information Form to record identification, location and construction information for groundwater monitoring wells and any other sample "points," (e.g., gas probes, lysimeters, leachate collection systems, etc.), that are part of the environmental monitoring program. NOTE: Not all fields will be applicable to all point types. Only one coordinate reference system may be used per site. Allowable coordinate systems are listed below. (Coordinates for each system require a minimum number of digits as described below.) Local grid coordinates cannot be accepted. Identify the Coordinate Reference System, Datum and Method used.

| Facility | | | | Cour | CONTRACTOR OF THE PARTY OF THE | | | Facility ID N | o. (FID) | License, F | Permit | or Monite | oring No. | | | eted By (Name | | |
|--|---|----------------------------|---|-----------------------------------|---|-------------------------------|---------------------|--|-------------|----------------------------|---|--|-------------------------|----------------------------------|---|---------------|--|---|
| Sunrise | Shopping Center | | | Milv | rauke | e | | 241828620 | | | | | | 03/24/202 | 22 Christo | ** | AI Environment | |
| DNR Point | Point Name ¹ | | WUWN ² (if app.) | lype | Status | Gradient | Enf. Stds. | Construction Date | | Well Top (of casing) | Type | Well Cas Diam ³ (in) | Length ⁴ | Well Screen Length (ft) | Well (Pt) Total Length⁵ (ft) | | nates ^{6,7,8,9} X / Long / Easting | |
| 15 110. | MW-1 | | VP560 | 11 | Ø A ▼ | | Y/N. | 01/07/2015 | 98.58 | 98.08 | ⊢ | - 100 | 4.5 | 10 | 14.5 | -80.92 | 287.96 | V |
| | MW-2 | | VP561 | 11 | _ | A D • 01/07/2015 | | | 99.82 | 99.32 | <u> </u> | 10000000000000000000000000000000000000 | 4.5 | 10 | 14.5 | 12.20 | 140.93 | Δ |
| | MW-3 | | VP562 | 11 | A - | | | 01/07/2015 | 99.47 | 98.97 | 7 | | 4.5 | 10 | 14.5 | -231.74 | 253.21 | A |
| | MW-4 | | VP563 | 11 | A▼ | | | 01/07/2015 | 100.25 | 99.75 | | | 4.5 | 10 | 14.5 | -103.08 | 41.42 | Δ |
| | MW-5 | | VP564 | 11 | A▼ | Υ | <u> </u> | 01/07/2015 | 99.86 | 99.36 | • | 2.07 | 4.5 | 10 | 14.5 | -15.58 | 17.55 | Ā |
| | MW-201 | | VP566 | 11 | Α | \mathbf{D} | - | 03/11/2015 | 99.93 | 99.43 | V | 2.07 | 4.5 | 10 | 14.5 | 92.48 | -16.46 | Δ |
| | MW-600 | | VP557 | 11 | Α | \mathbf{D} | - | 01/20/2022 | 98.22 | 97.75 | - | 2.07 | 4.5 | 10 | 14.5 | 115.00 | 192.75 | Δ |
| | MW-601 | | VP559 | 11 | Α | U\boxed ▼ | 7 | 01/20/2022 | 98.61 | 98.11 | - | 2.07 | 4.5 | 10 | 14.5 | -218.83 | 333.42 | 1 |
| | MW-602 | | VP558 | 11 | A▼ | | _ | 01/20/2022 | 99.68 | 99.18 | ~ | 34700111.00.00 | 4.5 | 10 | 14.5 | -244.50 | 204.25 | / |
| | MW-603 | | VP556 | 11 | A▼ | U | - | 01/20/2022 | 100.02 | 99.52 | _ | | 4.5 | 10 | 14.5 | -211.58 | 38.92 | 1 |
| | | | | | • | - | ~ | | | | ~ | | | | | | | 1 |
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| top o of we sum | f casing to bottom ell. Should equal of well casing h and screen | (mi | isc. Transv in. 2 digits i cal County (in. digits val | ight o Coord | f decir Sys. (| nal) (WISC | | or County Co meters feet *NOTE: A dat not required | um and unit | s are | Remarks: Casing elevation per survey completed 2/1/22 set to a 100-ft relative Gradient direction for wells dependent upon what contamination be assessed; noted gradients are per the overall groundwater flow directions. | | | | | | ion being | |

APPENDIX C.1.E LABORATORY ANALYTICAL REPORT (EMERGING CONTAMINANTS ANALYSIS, FEBRUARY 2022)





March 04, 2022

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

RE: Project: 6255 S. MILWAUKEE Pace Project No.: 40240300

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

LVM

Steven Mleczko steve.mleczko@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Jenny Rovzar, DAI





Green Bay, WI 54302 (920)469-2436

SAMPLE SUMMARY

Project: 6255 S. MILWAUKEE

Pace Project No.: 40240300

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 40240300001 | MW-600 | Water | 02/04/22 11:00 | 02/08/22 07:45 |
| 40240300002 | MW-601 | Water | 02/03/22 13:00 | 02/08/22 07:45 |
| 40240300003 | MW-602 | Water | 02/04/22 12:25 | 02/08/22 07:45 |
| 40240300004 | MW-603 | Water | 02/03/22 14:00 | 02/08/22 07:45 |
| 40240300005 | MW-4 | Water | 02/04/22 13:20 | 02/08/22 07:45 |

REPORT OF LABORATORY ANALYSIS

| | (Please Print Clearly) | |] | | | • | | | | | UPPER | MIDW | EST RE | EGION | | Page 1 | of |
|-----------------|--|---|--|---------------|--------------------|------------|--------------------|-----------------|-----------|----------|---------------|------------------|---------|---------------------|--------------|----------------------|---------------------------------------|
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| Project Contac | | |] / | | | • | | | | | | | | Quote #: | | | |
| Phone: | 847-573-890 | b | | C | H | <u>IIN</u> | OF | C | <u>US</u> | TO | DY | | | Mail To Contact: | | | |
| Project Numbe | | | A=N | one B≃l | HCL C= | | Preserva D=HNO3 | | | F≃Methan | ol G=Na | юн | | Mail To Company: | | | |
| Project Name: | A | , , | | odium Bisul | | | | n Thiosul | | =Other | | | | Mail To Address: | | | |
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| | | / | PRESE | RVATION | Pick | | | | | - | | | | Invoice To Contact: | | | |
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| (billat | Level III (billable) C | = Air = Biota = Charcoal = Oil | W = Water DW = Drink GW = Grou SW = Surfa | nd Water | Analyses Requested | 5 | | | | | | | | Invoice To Phone: | | | |
| EPA | your sample s | = Soil = Sludge | WW = Was WP = Wipe | te Water | Anal | ATY. | | | | | | | | CLIENT COMMENTS | 1 | OMMENTS Ise Only) | Profile # |
| PACE LAB# | CLIENT FIELD ID | DATE | TIME | MATRIX | | A | | | <u> </u> | | | - | | COMMENIA | (Lab C | ose Only) | |
| 001 | MW-600 | | 00:11 | (SW) | 2000 | $ \times $ | | <u> </u> | | | | | | | | | |
| 00Z 1 | MW-601 | | 21:00 | | | 人 | | | <u> </u> | | | | | | | | |
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Client Name:

Sample Preservation Receipt Form

Project #

Initial when completed:

Date/ Time:

| | | | | | | | | | | Lab | Lot# c | of pH p | paper: | | | <u>′</u> | Lal | Std # | #ID of | prese | rvatio | n (if pl | -l adju | sted): | - | | | | comp | leted: | | Time: | |
|--------------|--|--------------------|-----------|-------------------|---|------------------|--------------------------|--------------------|---------------|----------------------|------------|-----------------|----------------|----------------------|--|---------------|--------------|---------------------------------------|-------------|------------|-----------------------|--------------|-------------|--|--|-----------|---------------|--------------------|-------------------------------|------------------|--|-------------------|--------------|
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Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm): □Yes □No □N/A *If yes look in headspace column

| | 1 liter amber glass | BP1U | 1 liter plastic unpres | VG9A | 40 mL clear ascorbic | JGFU | 4 oz amber jar unpres |
|------|---------------------------|------|------------------------|------|-------------------------|------|-------------------------------|
| | 1 liter clear glass | BP3U | 250 mL plastic unpres | DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres |
| | 1 liter amber glass HCL | BP3B | 250 mL plastic NaOH | VG9U | 40 mL clear vial unpres | WGFU | 4 oz clear jar unpres |
| | 125 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9H | 40 mL clear vial HCL | WPFU | 4 oz plastic jar unpres |
| | 120 mL amber glass unpres | BP3S | 250 mL plastic H2SO4 | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| | 100 mL amber glass unpres | | | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| 4G2S | 500 mL amber glass H2SO4 | | | | | GN | |
| 3G3U | 250 mL clear glass unpres | | | | | L | |

ace Analytical® 1241 Bellevue Street, Green Bay, WI 54302

Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.: ENV-FRM-GBAY-0014-Rev.00 Document Revised: 26Mar2020

Author:

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

| Client Name: | ENV. | Project #: |
|--|----------------------|---|
| Courier: CS Logistics Fed Ex Spe | edee TUPS TW | WO#: 40240300 |
| Client Pace Other: | 1,010 1,010 | |
| Tracking #: | | |
| Custody Seal on Cooler/Box Present: ye | a E no Seals intact: | The vest of no. 1 |
| Custody Seal on Samples Present: Tyes | | Tyes T no |
| Packing Material: X Bubble Wrap | • | · |
| Thermometer Used SR - 105 | Type of Ice: (We) | |
| Cooler Temperature Uncorr: / /Corr | | Person examining contents: |
| Temp Blank Present: yes K no | Biological T | issue is Frozen: Tyes no Date: //Initiales |
| Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped o | n Dry Ice. | Labeled By Initials: |
| Chain of Custody Present: | ØYes □No □N/A | 1. |
| Chain of Custody Filled Out: | □Yes □No □N/A | Felter, Preserve, 10# Mail + Inv. Into 3/8/3 |
| Chain of Custody Relinquished: | ØYes □No □N/A | 3. |
| Sampler Name & Signature on COC: | ✓Yes □No □N/A | 4. |
| Samples Arrived within Hold Time: | Øres □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: | | 8. |
| For Analysis: 🗹 yes □No MS/M | SD: 🗆 Yes 🗆 No 🗆 N/A | |
| Correct Containers Used: | ∕∆Yes □No | 9. |
| -Pace Containers Used: | ØYes □No □N/A | |
| -Pace IR Containers Used: | □Yes □No □N/A | |
| Containers Intact: | ☐Yes ☐No | 10. |
| Filtered volume received for Dissolved tests | □Yes □No ØN/A | 11. |
| Sample Labels match COC: | □Yes No □N/A | 11. 12. No dates & times. Ellert 12. No dates & times. Ellert 13. barely ligible. 3/2/2 |
| -Includes date/time/ID/Analysis Matrix: | W | used water soldwick und |
| Trip Blank Present: | □Yes □No ⊅N/A | 13. Durely legent >12.F |
| Trip Blank Custody Seals Present | □Yes □No ØN/A | |
| Pace Trip Blank Lot # (if purchased): | | |
| Client Notification/ Resolution: Person Contacted: | Date/1 | If checked, see attached form for additional comments Time: |

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



Report of Analysis

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

Attention: Steve Mleczko

Project Name: 6255 S. MILWAUKEE

Project Number: 40240300

Lot Number: XB09003

Date Completed:03/03/2022

03/04/2022 8:06 AM
Approved and released by:
Project Manager II: **Edward Barnett**





The electronic signature above is the equivalent of a handwritten signature.

This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical Services, LLC Lot Number: XB09003

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Samples XB09003-001, XB09003-002 and XB09003-003 required centrifugation prior to extraction, due to excessive solids present in the samples. Centrifugation was performed following the PFAS Aqueous Centrifuge Protocol; samples were spiked with Surrogate (SUR; Extracted Internal Standard/EIS) and shaken vigorously before being poured into a conical bottle and centrifuged. The centrifuged aqueous sample was decanted back into the original sample bottle, off of the condensed solids remaining in the centrifuge bottle. Original sample bottle was rinsed as normal and centrifuge bottle was rinsed with 4mL of MeOH. Centrifuge bottle rinsate was added to the elution. Samples concentrated to <10mL and reconstituted to 10mL using MeOH by transfer pipet.

Sample XB09003-004 required centrifugation prior to extraction, due to excessive solids present in the samples. Centrifugation was performed following the PFAS Aqueous Centrifuge Protocol; samples were spiked with Surrogate (SUR; Extracted Internal Standard/EIS) and shaken vigorously before being poured into a conical bottle and centrifuged. The centrifuged aqueous sample was decanted back into the original sample bottle, off of the condensed solids remaining in the centrifuge bottle. Original sample bottle was rinsed as normal and centrifuge bottle was rinsed with 4mL of MeOH. Centrifuge bottle rinsate was added to the elution. Samples concentrated to <10mL and reconstituted to 10mL using MeOH by transfer pipet.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

For sample XB09003-005, sample matrix prevented full volume from being extracted, precluding method mandated bottle rinse. Elution solvent was aliquoted directly into the reservoir, rinsing the inside. Surrogate recovery may be adversely affected.

Surrogate recovery for the following samples was outside the upper control limit: XB09003-001 and XB09003-003. These samples did not contain any target analytes; therefore, re-extraction and/or reanalysis was not performed.

Surrogate recovery for the following sample was outside the upper control limit: XB09003-005. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the Pace Quality Assurance Management Plan (QAMP), applicable standard operating procedures (SOPs), the 2003 NELAC standard, and Pace policies. Additionally, the DoD QSM version 5.3 has been followed for these samples, and specifically Table B-15 was followed for all PFAS samples. Any exceptions to the QAMP, SOPs, NELAC standards, the DoD QSM, or policies are qualified on the results page or discussed below.

All QC associated with these samples was in compliance with DOD QSM 5.3 table B-15 and our PFAS SOP.

Correction factors (CF) are used to calculate the original sample concentration. The CF is the inverse of the concentration factor (sample volume / extract final volume) times the dilution factor (DF). For undiluted analysis. For undiluted analysis, the extract is prepared for injection by adding 182 uL of sample extract + 8 uL of reagent water + 10 uL of internal standard solution to a polypropylene autosampler vial. An extra correction factor of 0.91 (182 uL / 200 uL = 0.91) applies. The CF is calculated as follows:

CF = DF * FV / Vo

SC DHEC No: 32010001 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

FV is volume of extract (mL)

Vo is initial sample volume (mL)

DF is dilution factor. For undiluted analysis, DF = 1/0.91.

Sample concentration for aqueous samples:

Concentration (ng/L) = Cs*CF,

$$C_{\rm s} = \frac{\left(\frac{(A_{\rm s} x C_{\rm is})}{A_{\rm is}}\right) - B}{M1}$$

Where

 C_{s} is on column concentration of target analyte in the sample (ng/L) C_{is} is concentration of internal standard in the sample (ng/L) A_{s} is peak response of target analyte in the sample A_{is} is peak response of internal standard in the sample M1 is the average RF from ICAL or the slope from linear regression ICAL B is the y-intercept from the ICAL

Sample Summary Pace Analytical Services, LLC

Lot Number: XB09003

Project Name: 6255 S. MILWAUKEE Project Number: 40240300

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---------------|-----------|---------|-----------------|---------------|
| 001 | MW-600 | Aqueous | 02/04/2022 1100 | 02/09/2022 |
| 002 | MW-601 | Aqueous | 02/03/2022 1300 | 02/09/2022 |
| 003 | MW-602 | Aqueous | 02/04/2022 1225 | 02/09/2022 |
| 004 | MW-603 | Aqueous | 02/03/2022 1400 | 02/09/2022 |
| 005 | MW-4 | Aqueous | 02/04/2022 1320 | 02/09/2022 |

(5 samples)

Detection Summary

Pace Analytical Services, LLC

Lot Number: XB09003

Project Name: 6255 S. MILWAUKEE

Project Number: 40240300

| Sampl | e Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|-------|-------------|---------|-----------|------------|--------|---|-------|------|
| 001 | MW-600 | Aqueous | 6:2 FTS | PFAS by ID | 16 | | ng/L | 6 |
| 001 | MW-600 | Aqueous | PFBA | PFAS by ID | 4.8 | | ng/L | 6 |
| 001 | MW-600 | Aqueous | PFPeA | PFAS by ID | 0.47 | J | ng/L | 6 |
| 002 | MW-601 | Aqueous | 6:2 FTS | PFAS by ID | 2.9 | J | ng/L | 8 |
| 002 | MW-601 | Aqueous | PFBA | PFAS by ID | 5.4 | | ng/L | 8 |
| 003 | MW-602 | Aqueous | PFBS | PFAS by ID | 3.0 | J | ng/L | 10 |
| 003 | MW-602 | Aqueous | PFBA | PFAS by ID | 6.1 | | ng/L | 10 |
| 003 | MW-602 | Aqueous | PFHpA | PFAS by ID | 0.91 | J | ng/L | 10 |
| 003 | MW-602 | Aqueous | PFOA | PFAS by ID | 0.78 | J | ng/L | 10 |
| 003 | MW-602 | Aqueous | PFPeA | PFAS by ID | 1.3 | J | ng/L | 10 |
| 004 | MW-603 | Aqueous | 6:2 FTS | PFAS by ID | 2.9 | J | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFBS | PFAS by ID | 150 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFHpS | PFAS by ID | 1.8 | J | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFPeS | PFAS by ID | 4.0 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFHxS | PFAS by ID | 23 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFBA | PFAS by ID | 180 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFDA | PFAS by ID | 3.3 | J | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFHpA | PFAS by ID | 100 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFHxA | PFAS by ID | 230 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFNA | PFAS by ID | 7.8 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFOA | PFAS by ID | 95 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFPeA | PFAS by ID | 520 | | ng/L | 12 |
| 004 | MW-603 | Aqueous | PFOS | PFAS by ID | 59 | | ng/L | 12 |
| 005 | MW-4 | Aqueous | PFBS | PFAS by ID | 74 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFPeS | PFAS by ID | 3.0 | J | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFHxS | PFAS by ID | 13 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFBA | PFAS by ID | 62 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFDA | PFAS by ID | 2.1 | J | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFHpA | PFAS by ID | 12 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFHxA | PFAS by ID | 17 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFNA | PFAS by ID | 3.4 | J | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFOA | PFAS by ID | 23 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFPeA | PFAS by ID | 35 | | ng/L | 14 |
| 005 | MW-4 | Aqueous | PFOS | PFAS by ID | 40 | | ng/L | 14 |

(34 detections)

Client: Pace Analytical Services, LLC

Laboratory ID: XB09003-001

Matrix: Aqueous

Description: MW-600

Date Sampled: 02/04/2022 1100 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date Batch** SOP SPE PFAS by ID SOP 02/25/2022 1522 JJG 02/24/2022 1719 32888

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | MDL | Units | Run |
|--|---------------|----------------------|--------|---|-----|------|-------|-----|
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) | 756426-58-1 | PFAS by ID SOP | ND | | 6.8 | 0.41 | ng/L | 1 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3) | 763051-92-9 | PFAS by ID SOP | ND | | 6.8 | 0.56 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) | 39108-34-4 | PFAS by ID SOP | ND | | 6.8 | 1.4 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS) | 27619-97-2 | PFAS by ID SOP | 16 | | 6.8 | 1.7 | ng/L | 1 |
| 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) | 757124-72-4 | PFAS by ID SOP | ND | Q | 6.8 | 0.74 | ng/L | 1 |
| Hexafluoropropylene oxide dimer acid (GenX) | 13252-13-6 | PFAS by ID SOP | ND | | 6.8 | 1.8 | ng/L | 1 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | PFAS by ID SOP | ND | | 6.8 | 0.41 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | PFAS by ID SOP | ND | | 6.8 | 1.1 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | 2991-50-6 | PFAS by ID SOP | ND | | 6.8 | 0.64 | ng/L | 1 |
| 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) | 1691-99-2 | PFAS by ID SOP | ND | | 6.8 | 0.81 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | PFAS by ID SOP | ND | | 14 | 1.1 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | 2355-31-9 | PFAS by ID SOP | ND | | 6.8 | 0.79 | ng/L | 1 |
| 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) | 24448-09-7 | PFAS by ID SOP | ND | | 6.8 | 1.1 | ng/L | 1 |
| Perfluoro-1-butanesulfonic acid (PFBS) | 375-73-5 | PFAS by ID SOP | ND | | 3.4 | 0.35 | ng/L | 1 |
| Perfluoro-1-decanesulfonic acid (PFDS) | 335-77-3 | PFAS by ID SOP | ND | | 3.4 | 0.66 | ng/L | 1 |
| Perfluoro-1-heptanesulfonic acid (PFHpS) | 375-92-8 | PFAS by ID SOP | ND | | 3.4 | 0.42 | ng/L | 1 |
| Perfluoro-1-nonanesulfonic acid (PFNS) | 68259-12-1 | PFAS by ID SOP | ND | | 3.4 | 0.60 | ng/L | 1 |
| Perfluoro-1-octanesulfonamide (PFOSA) | 754-91-6 | PFAS by ID SOP | ND | | 3.4 | 0.52 | ng/L | 1 |
| Perfluoro-1-pentanesulfonic acid (PFPeS) | 2706-91-4 | PFAS by ID SOP | ND | | 3.4 | 0.50 | ng/L | 1 |
| Perfluorododecanesulfonic acid (PFDOS) | 79780-39-5 | PFAS by ID SOP | ND | | 6.8 | 0.89 | ng/L | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | PFAS by ID SOP | ND | | 3.4 | 0.47 | ng/L | 1 |
| Perfluoro-n-butanoic acid (PFBA) | 375-22-4 | PFAS by ID SOP | 4.8 | | 3.4 | 0.51 | ng/L | 1 |
| Perfluoro-n-decanoic acid (PFDA) | 335-76-2 | PFAS by ID SOP | ND | | 3.4 | 0.44 | ng/L | 1 |
| Perfluoro-n-dodecanoic acid (PFDoA) | 307-55-1 | PFAS by ID SOP | ND | | 3.4 | 0.40 | ng/L | 1 |
| Perfluoro-n-heptanoic acid (PFHpA) | 375-85-9 | PFAS by ID SOP | ND | | 3.4 | 0.38 | ng/L | 1 |
| Perfluoro-n-hexanoic acid (PFHxA) | 307-24-4 | PFAS by ID SOP | ND | | 3.4 | 0.58 | ng/L | 1 |
| Perfluoro-n-nonanoic acid (PFNA) | 375-95-1 | PFAS by ID SOP | ND | | 3.4 | 0.39 | ng/L | 1 |
| Perfluoro-n-octanoic acid (PFOA) | 335-67-1 | PFAS by ID SOP | ND | | 3.4 | 0.70 | ng/L | 1 |
| Perfluoro-n-pentanoic acid (PFPeA) | 2706-90-3 | PFAS by ID SOP | 0.47 | J | 3.4 | 0.46 | ng/L | 1 |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | 376-06-7 | PFAS by ID SOP | ND | | 3.4 | 0.51 | ng/L | 1 |
| Perfluoro-n-tridecanoic acid (PFTrDA) | 72629-94-8 | PFAS by ID SOP | ND | | 3.4 | 0.45 | ng/L | 1 |
| Perfluoro-n-undecanoic acid (PFUdA) | 2058-94-8 | PFAS by ID SOP | ND | | 3.4 | 0.53 | ng/L | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | PFAS by ID SOP | ND | | 3.4 | 1.7 | ng/L | 1 |

| Surrogate | Q % | Run 1 6 Recovery | Acceptance Limits |
|--------------|-----|---------------------|----------------------|
| 13C2_4:2FTS | N | 151 | 25-150 |
| 13C2_6:2FTS | | 111 | 25-150 |
| 13C2_8:2FTS | | 97 | 25-150 |
| 13C2_PFDoA | | 90 | 25-150 |
| 13C2_PFTeDA | | 77 | 25-150 |
| 13C3_PFBS | | 94 | 25-150 |
| 13C3_PFHxS | | 96 | 25-150 |
| 13C3-HFPO-DA | | 108 | 25-150 |
| 13C4_PFBA | | 73 | 25-150 |
| | | | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure ND = Not detected at or above the DL N = Recovery is out of criteria P =The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and \ge DL$ L = LCS/LCSD failure S = MS/MSD failure W = Reported on wet weight basis H = Out of holding time

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Description: MW-600

Date Sampled: 02/04/2022 1100

Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022

Project Number: 40240300

| Surrogate | Run 1 A Q % Recovery | Acceptance Limits | |
|------------|-------------------------|----------------------|--|
| 13C4_PFHpA | 97 | 25-150 | |
| 13C5_PFHxA | 95 | 25-150 | |
| 13C5_PFPeA | 89 | 25-150 | |
| 13C6_PFDA | 98 | 25-150 | |
| 13C7_PFUdA | 97 | 25-150 | |
| 13C8_PFOA | 96 | 25-150 | |
| 13C8_PFOS | 99 | 25-150 | |
| 13C8_PFOSA | 104 | 10-150 | |
| 13C9_PFNA | 95 | 25-150 | |
| d-EtFOSA | 84 | 10-150 | |
| d5-EtFOSAA | 95 | 25-150 | |
| d9-EtFOSE | 94 | 10-150 | |
| d-MeFOSA | 98 | 10-150 | |
| d3-MeFOSAA | 111 | 25-150 | |
| d7-MeFOSE | 91 | 10-150 | |
| | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and $\geq DL$

Laboratory ID: XB09003-001

Matrix: Aqueous

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: XB09003-002

Batch

Matrix: Aqueous

Description: MW-601

Date Sampled: 02/03/2022 1300 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

Run Prep Method **Analytical Method Dilution** Analysis Date Analyst **Prep Date** SOP SPE PFAS by ID SOP 02/25/2022 1533 JJG 02/24/2022 1719 32888

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | MDL | Units | Run |
|--|---------------|----------------------|--------|---|-----|------|-------|-----|
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) | 756426-58-1 | PFAS by ID SOP | ND | - | 7.0 | 0.42 | ng/L | 1 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3) | 763051-92-9 | PFAS by ID SOP | ND | | 7.0 | 0.58 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) | 39108-34-4 | PFAS by ID SOP | ND | | 7.0 | 1.4 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS) | 27619-97-2 | PFAS by ID SOP | 2.9 | J | 7.0 | 1.8 | ng/L | 1 |
| 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) | 757124-72-4 | PFAS by ID SOP | ND | | 7.0 | 0.77 | ng/L | 1 |
| Hexafluoropropylene oxide dimer acid (GenX) | 13252-13-6 | PFAS by ID SOP | ND | | 7.0 | 1.8 | ng/L | 1 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | PFAS by ID SOP | ND | | 7.0 | 0.43 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | PFAS by ID SOP | ND | | 7.0 | 1.2 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | 2991-50-6 | PFAS by ID SOP | ND | | 7.0 | 0.66 | ng/L | 1 |
| 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) | 1691-99-2 | PFAS by ID SOP | ND | | 7.0 | 0.84 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | PFAS by ID SOP | ND | | 14 | 1.1 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | 2355-31-9 | PFAS by ID SOP | ND | | 7.0 | 0.82 | ng/L | 1 |
| 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) | 24448-09-7 | PFAS by ID SOP | ND | | 7.0 | 1.1 | ng/L | 1 |
| Perfluoro-1-butanesulfonic acid (PFBS) | 375-73-5 | PFAS by ID SOP | ND | | 3.5 | 0.36 | ng/L | 1 |
| Perfluoro-1-decanesulfonic acid (PFDS) | 335-77-3 | PFAS by ID SOP | ND | | 3.5 | 0.68 | ng/L | 1 |
| Perfluoro-1-heptanesulfonic acid (PFHpS) | 375-92-8 | PFAS by ID SOP | ND | | 3.5 | 0.44 | ng/L | 1 |
| Perfluoro-1-nonanesulfonic acid (PFNS) | 68259-12-1 | PFAS by ID SOP | ND | | 3.5 | 0.63 | ng/L | 1 |
| Perfluoro-1-octanesulfonamide (PFOSA) | 754-91-6 | PFAS by ID SOP | ND | | 3.5 | 0.54 | ng/L | 1 |
| Perfluoro-1-pentanesulfonic acid (PFPeS) | 2706-91-4 | PFAS by ID SOP | ND | | 3.5 | 0.52 | ng/L | 1 |
| Perfluorododecanesulfonic acid (PFDOS) | 79780-39-5 | PFAS by ID SOP | ND | | 7.0 | 0.92 | ng/L | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | PFAS by ID SOP | ND | | 3.5 | 0.49 | ng/L | 1 |
| Perfluoro-n-butanoic acid (PFBA) | 375-22-4 | PFAS by ID SOP | 5.4 | | 3.5 | 0.53 | ng/L | 1 |
| Perfluoro-n-decanoic acid (PFDA) | 335-76-2 | PFAS by ID SOP | ND | | 3.5 | 0.46 | ng/L | 1 |
| Perfluoro-n-dodecanoic acid (PFDoA) | 307-55-1 | PFAS by ID SOP | ND | | 3.5 | 0.42 | ng/L | 1 |
| Perfluoro-n-heptanoic acid (PFHpA) | 375-85-9 | PFAS by ID SOP | ND | | 3.5 | 0.39 | ng/L | 1 |
| Perfluoro-n-hexanoic acid (PFHxA) | 307-24-4 | PFAS by ID SOP | ND | | 3.5 | 0.61 | ng/L | 1 |
| Perfluoro-n-nonanoic acid (PFNA) | 375-95-1 | PFAS by ID SOP | ND | | 3.5 | 0.41 | ng/L | 1 |
| Perfluoro-n-octanoic acid (PFOA) | 335-67-1 | PFAS by ID SOP | ND | | 3.5 | 0.73 | ng/L | 1 |
| Perfluoro-n-pentanoic acid (PFPeA) | 2706-90-3 | PFAS by ID SOP | ND | | 3.5 | 0.48 | ng/L | 1 |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | 376-06-7 | PFAS by ID SOP | ND | | 3.5 | 0.53 | ng/L | 1 |
| Perfluoro-n-tridecanoic acid (PFTrDA) | 72629-94-8 | PFAS by ID SOP | ND | | 3.5 | 0.47 | ng/L | 1 |
| Perfluoro-n-undecanoic acid (PFUdA) | 2058-94-8 | PFAS by ID SOP | ND | | 3.5 | 0.55 | ng/L | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | PFAS by ID SOP | ND | | 3.5 | 1.8 | ng/L | 1 |

| Surrogate | Run 1 Q % Recovery | Acceptance Limits |
|--------------|-----------------------|----------------------|
| 13C2_4:2FTS | 134 | 25-150 |
| 13C2_6:2FTS | 112 | 25-150 |
| 13C2_8:2FTS | 97 | 25-150 |
| 13C2_PFDoA | 72 | 25-150 |
| 13C2_PFTeDA | 46 | 25-150 |
| 13C3_PFBS | 87 | 25-150 |
| 13C3_PFHxS | 93 | 25-150 |
| 13C3-HFPO-DA | 106 | 25-150 |
| 13C4_PFBA | 69 | 25-150 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure ND = Not detected at or above the DL N = Recovery is out of criteria P =The RPD between two GC columns exceeds 40% $J = Estimated result < LOQ and \ge DL$ L = LCS/LCSD failure S = MS/MSD failure H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Description: MW-601

Matrix: Aqueous

Laboratory ID: XB09003-002

Date Sampled: 02/03/2022 1300

Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

| Surrogate | Run 1 A Q % Recovery | cceptance Limits |
|------------|-------------------------|---------------------|
| 13C4_PFHpA | 93 | 25-150 |
| 13C5_PFHxA | 91 | 25-150 |
| 13C5_PFPeA | 84 | 25-150 |
| 13C6_PFDA | 92 | 25-150 |
| 13C7_PFUdA | 81 | 25-150 |
| 13C8_PFOA | 92 | 25-150 |
| 13C8_PFOS | 96 | 25-150 |
| 13C8_PFOSA | 104 | 10-150 |
| 13C9_PFNA | 90 | 25-150 |
| d-EtFOSA | 59 | 10-150 |
| d5-EtFOSAA | 84 | 25-150 |
| d9-EtFOSE | 62 | 10-150 |
| d-MeFOSA | 77 | 10-150 |
| d3-MeFOSAA | 95 | 25-150 |
| d7-MeFOSE | 69 | 10-150 |

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P =The RPD between two GC columns exceeds 40%

DL = Detection Limit $J = Estimated result < LOQ and \ge DL$ Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: XB09003-003

Description: MW-602

Matrix: Aqueous

Date Sampled:02/04/2022 1225 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

 Run
 Prep Method
 Analytical Method
 Dilution
 Analysis Date
 Analyst
 Prep Date
 Batch

 1
 SOP SPE
 PFAS by ID SOP
 1
 02/25/2022 1544
 JJG
 02/24/2022 1719 32888

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | MDL | Units | Run |
|--|---------------|----------------------|--------|---|-----|------|-------|-----|
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) | 756426-58-1 | PFAS by ID SOP | ND | | 6.8 | 0.41 | ng/L | 1 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3) | 763051-92-9 | PFAS by ID SOP | ND | | 6.8 | 0.56 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) | 39108-34-4 | PFAS by ID SOP | ND | | 6.8 | 1.4 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS) | 27619-97-2 | PFAS by ID SOP | ND | | 6.8 | 1.7 | ng/L | 1 |
| 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) | 757124-72-4 | PFAS by ID SOP | ND | Q | 6.8 | 0.74 | ng/L | 1 |
| Hexafluoropropylene oxide dimer acid (GenX) | 13252-13-6 | PFAS by ID SOP | ND | | 6.8 | 1.8 | ng/L | 1 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | PFAS by ID SOP | ND | | 6.8 | 0.41 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | PFAS by ID SOP | ND | | 6.8 | 1.1 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | 2991-50-6 | PFAS by ID SOP | ND | | 6.8 | 0.63 | ng/L | 1 |
| 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) | 1691-99-2 | PFAS by ID SOP | ND | | 6.8 | 0.80 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | PFAS by ID SOP | ND | | 14 | 1.1 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | 2355-31-9 | PFAS by ID SOP | ND | | 6.8 | 0.79 | ng/L | 1 |
| 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) | 24448-09-7 | PFAS by ID SOP | ND | | 6.8 | 1.1 | ng/L | 1 |
| Perfluoro-1-butanesulfonic acid (PFBS) | 375-73-5 | PFAS by ID SOP | 3.0 | J | 3.4 | 0.35 | ng/L | 1 |
| Perfluoro-1-decanesulfonic acid (PFDS) | 335-77-3 | PFAS by ID SOP | ND | | 3.4 | 0.66 | ng/L | 1 |
| Perfluoro-1-heptanesulfonic acid (PFHpS) | 375-92-8 | PFAS by ID SOP | ND | | 3.4 | 0.42 | ng/L | 1 |
| Perfluoro-1-nonanesulfonic acid (PFNS) | 68259-12-1 | PFAS by ID SOP | ND | | 3.4 | 0.60 | ng/L | 1 |
| Perfluoro-1-octanesulfonamide (PFOSA) | 754-91-6 | PFAS by ID SOP | ND | | 3.4 | 0.52 | ng/L | 1 |
| Perfluoro-1-pentanesulfonic acid (PFPeS) | 2706-91-4 | PFAS by ID SOP | ND | | 3.4 | 0.50 | ng/L | 1 |
| Perfluorododecanesulfonic acid (PFDOS) | 79780-39-5 | PFAS by ID SOP | ND | | 6.8 | 0.88 | ng/L | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | PFAS by ID SOP | ND | | 3.4 | 0.47 | ng/L | 1 |
| Perfluoro-n-butanoic acid (PFBA) | 375-22-4 | PFAS by ID SOP | 6.1 | | 3.4 | 0.51 | ng/L | 1 |
| Perfluoro-n-decanoic acid (PFDA) | 335-76-2 | PFAS by ID SOP | ND | | 3.4 | 0.44 | ng/L | 1 |
| Perfluoro-n-dodecanoic acid (PFDoA) | 307-55-1 | PFAS by ID SOP | ND | | 3.4 | 0.40 | ng/L | 1 |
| Perfluoro-n-heptanoic acid (PFHpA) | 375-85-9 | PFAS by ID SOP | 0.91 | J | 3.4 | 0.38 | ng/L | 1 |
| Perfluoro-n-hexanoic acid (PFHxA) | 307-24-4 | PFAS by ID SOP | ND | | 3.4 | 0.58 | ng/L | 1 |
| Perfluoro-n-nonanoic acid (PFNA) | 375-95-1 | PFAS by ID SOP | ND | | 3.4 | 0.39 | ng/L | 1 |
| Perfluoro-n-octanoic acid (PFOA) | 335-67-1 | PFAS by ID SOP | 0.78 | J | 3.4 | 0.70 | ng/L | 1 |
| Perfluoro-n-pentanoic acid (PFPeA) | 2706-90-3 | PFAS by ID SOP | 1.3 | J | 3.4 | 0.46 | ng/L | 1 |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | 376-06-7 | PFAS by ID SOP | ND | | 3.4 | 0.51 | ng/L | 1 |
| Perfluoro-n-tridecanoic acid (PFTrDA) | 72629-94-8 | PFAS by ID SOP | ND | | 3.4 | 0.45 | ng/L | 1 |
| Perfluoro-n-undecanoic acid (PFUdA) | 2058-94-8 | PFAS by ID SOP | ND | | 3.4 | 0.53 | ng/L | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | PFAS by ID SOP | ND | | 3.4 | 1.7 | ng/L | 1 |

| Surrogate | Q % | Run 1 % Recovery | Acceptance Limits |
|--------------|-----|---------------------|----------------------|
| 13C2_4:2FTS | N | 188 | 25-150 |
| 13C2_6:2FTS | | 129 | 25-150 |
| 13C2_8:2FTS | | 98 | 25-150 |
| 13C2_PFDoA | | 82 | 25-150 |
| 13C2_PFTeDA | | 63 | 25-150 |
| 13C3_PFBS | | 93 | 25-150 |
| 13C3_PFHxS | | 101 | 25-150 |
| 13C3-HFPO-DA | | 104 | 25-150 |
| 13C4_PFBA | | 69 | 25-150 |
| | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

D = Quantitation of compound exceeded the calibration range

D = Detection Limit

Q = Surrogate failure

D = Detection Limit

Q = Surrogate failure

D = Detection Limit

P = The RPD between two GC columns exceeds 40%

D = Estimated result < LOQ and \geq D

L = LCS/LCSD failure

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Description: MW-602

Laboratory ID: XB09003-003

Matrix: Aqueous

Date Sampled: 02/04/2022 1225 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

| Run 1 Recovery | Acceptance Limits |
|-------------------|--|
| 99 | 25-150 |
| 94 | 25-150 |
| 83 | 25-150 |
| 92 | 25-150 |
| 88 | 25-150 |
| 96 | 25-150 |
| 100 | 25-150 |
| 109 | 10-150 |
| 92 | 25-150 |
| 72 | 10-150 |
| 88 | 25-150 |
| 80 | 10-150 |
| 93 | 10-150 |
| 105 | 25-150 |
| 81 | 10-150 |
| | 99 94 83 92 88 96 100 109 92 72 88 80 93 105 |

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range DL = Detection Limit P = The RPD between two GC columns exceeds 40%

 $J = Estimated result < LOQ and \ge DL$

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: XB09003-004

Matrix: Aqueous

Description: MW-603

Date Sampled: 02/03/2022 1400 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

Run Prep Method SOP SPE **Analytical Method Dilution** PFAS by ID SOP

Analysis Date Analyst 03/02/2022 1341 JJG

Prep Date

Batch

03/01/2022 1232 33273

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | MDL | Units | Run |
|--|---------------|----------------------|--------|---|-----|------|-------|-----|
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) | 756426-58-1 | PFAS by ID SOP | ND | | 7.1 | 0.43 | ng/L | 1 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3) | 763051-92-9 | PFAS by ID SOP | ND | | 7.1 | 0.59 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) | 39108-34-4 | PFAS by ID SOP | ND | | 7.1 | 1.4 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS) | 27619-97-2 | PFAS by ID SOP | 2.9 | J | 7.1 | 1.8 | ng/L | 1 |
| 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) | 757124-72-4 | PFAS by ID SOP | ND | | 7.1 | 0.78 | ng/L | 1 |
| Hexafluoropropylene oxide dimer acid (GenX) | 13252-13-6 | PFAS by ID SOP | ND | | 7.1 | 1.9 | ng/L | 1 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | PFAS by ID SOP | ND | | 7.1 | 0.43 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | PFAS by ID SOP | ND | | 7.1 | 1.2 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | 2991-50-6 | PFAS by ID SOP | ND | | 7.1 | 0.67 | ng/L | 1 |
| 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) | 1691-99-2 | PFAS by ID SOP | ND | | 7.1 | 0.85 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | PFAS by ID SOP | ND | | 14 | 1.1 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | 2355-31-9 | PFAS by ID SOP | ND | | 7.1 | 0.83 | ng/L | 1 |
| 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) | 24448-09-7 | PFAS by ID SOP | ND | | 7.1 | 1.1 | ng/L | 1 |
| Perfluoro-1-butanesulfonic acid (PFBS) | 375-73-5 | PFAS by ID SOP | 150 | | 3.6 | 0.37 | ng/L | 1 |
| Perfluoro-1-decanesulfonic acid (PFDS) | 335-77-3 | PFAS by ID SOP | ND | | 3.6 | 0.69 | ng/L | 1 |
| Perfluoro-1-heptanesulfonic acid (PFHpS) | 375-92-8 | PFAS by ID SOP | 1.8 | J | 3.6 | 0.45 | ng/L | 1 |
| Perfluoro-1-nonanesulfonic acid (PFNS) | 68259-12-1 | PFAS by ID SOP | ND | | 3.6 | 0.64 | ng/L | 1 |
| Perfluoro-1-octanesulfonamide (PFOSA) | 754-91-6 | PFAS by ID SOP | ND | | 3.6 | 0.55 | ng/L | 1 |
| Perfluoro-1-pentanesulfonic acid (PFPeS) | 2706-91-4 | PFAS by ID SOP | 4.0 | | 3.6 | 0.53 | ng/L | 1 |
| Perfluorododecanesulfonic acid (PFDOS) | 79780-39-5 | PFAS by ID SOP | ND | | 7.1 | 0.93 | ng/L | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | PFAS by ID SOP | 23 | | 3.6 | 0.49 | ng/L | 1 |
| Perfluoro-n-butanoic acid (PFBA) | 375-22-4 | PFAS by ID SOP | 180 | | 3.6 | 0.54 | ng/L | 1 |
| Perfluoro-n-decanoic acid (PFDA) | 335-76-2 | PFAS by ID SOP | 3.3 | J | 3.6 | 0.47 | ng/L | 1 |
| Perfluoro-n-dodecanoic acid (PFDoA) | 307-55-1 | PFAS by ID SOP | ND | | 3.6 | 0.42 | ng/L | 1 |
| Perfluoro-n-heptanoic acid (PFHpA) | 375-85-9 | PFAS by ID SOP | 100 | | 3.6 | 0.40 | ng/L | 1 |
| Perfluoro-n-hexanoic acid (PFHxA) | 307-24-4 | PFAS by ID SOP | 230 | | 3.6 | 0.61 | ng/L | 1 |
| Perfluoro-n-nonanoic acid (PFNA) | 375-95-1 | PFAS by ID SOP | 7.8 | | 3.6 | 0.41 | ng/L | 1 |
| Perfluoro-n-octanoic acid (PFOA) | 335-67-1 | PFAS by ID SOP | 95 | | 3.6 | 0.74 | ng/L | 1 |
| Perfluoro-n-pentanoic acid (PFPeA) | 2706-90-3 | PFAS by ID SOP | 520 | | 3.6 | 0.49 | ng/L | 1 |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | 376-06-7 | PFAS by ID SOP | ND | | 3.6 | 0.54 | ng/L | 1 |
| Perfluoro-n-tridecanoic acid (PFTrDA) | 72629-94-8 | PFAS by ID SOP | ND | | 3.6 | 0.47 | ng/L | 1 |
| Perfluoro-n-undecanoic acid (PFUdA) | 2058-94-8 | PFAS by ID SOP | ND | | 3.6 | 0.56 | ng/L | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | PFAS by ID SOP | 59 | | 3.6 | 1.8 | ng/L | 1 |
| | | otance nits | | | | | | |
| 13C2_4:2FTS | 113 25 | -150 | | | | | | |
| 13C2_6:2FTS | 88 25 | -150 | | | | | | |
| 13C2_8:2FTS | 86 25 | -150 | | | | | | |

| Surrogate | Q % Recovery | Limits |
|--------------|--------------|--------|
| 13C2_4:2FTS | 113 | 25-150 |
| 13C2_6:2FTS | 88 | 25-150 |
| 13C2_8:2FTS | 86 | 25-150 |
| 13C2_PFDoA | 71 | 25-150 |
| 13C2_PFTeDA | 68 | 25-150 |
| 13C3_PFBS | 80 | 25-150 |
| 13C3_PFHxS | 82 | 25-150 |
| 13C3-HFPO-DA | 87 | 25-150 |
| 13C4_PFBA | 71 | 25-150 |
| | | |

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

E = Quantitation of compound exceeded the calibration range P =The RPD between two GC columns exceeds 40%

DL = Detection Limit $J = Estimated result < LOQ and \ge DL$

Client: Pace Analytical Services, LLC

Description: MW-603

Laboratory ID: XB09003-004

Matrix: Aqueous

Date Sampled:02/03/2022 1400 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

| Surrogate Q | Run 1 % Recovery | Acceptance Limits |
|-------------|---------------------|----------------------|
| 13C4_PFHpA | 78 | 25-150 |
| 13C5_PFHxA | 78 | 25-150 |
| 13C5_PFPeA | 72 | 25-150 |
| 13C6_PFDA | 76 | 25-150 |
| 13C7_PFUdA | 73 | 25-150 |
| 13C8_PFOA | 79 | 25-150 |
| 13C8_PFOS | 75 | 25-150 |
| 13C8_PFOSA | 78 | 10-150 |
| 13C9_PFNA | 77 | 25-150 |
| d-EtFOSA | 67 | 10-150 |
| d5-EtFOSAA | 74 | 25-150 |
| d9-EtFOSE | 80 | 10-150 |
| d-MeFOSA | 76 | 10-150 |
| d3-MeFOSAA | 78 | 25-150 |
| d7-MeFOSE | 83 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

DL = Detection Limit $J = Estimated result < LOQ and <math>\geq DL$ Q = Surrogate failure L = LCS/LCSD failureS = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Laboratory ID: XB09003-005

Matrix: Aqueous

Description: MW-4

Date Sampled:02/04/2022 1320 Project Name: 6255 S. MILWAUKEE

Date Received: 02/09/2022 Project Number: 40240300

 Run
 Prep Method
 Analytical Method
 Dilution
 Analysis Date
 Analyst
 Prep Date
 Batch

 1
 SOP SPE
 PFAS by ID SOP
 1
 03/02/2022 2048
 JJG
 03/01/2022 1721
 33372

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | MDL | Units | Run |
|--|---------------|----------------------|--------|---|-----|------|-------|-----|
| 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS) | 756426-58-1 | PFAS by ID SOP | ND | | 7.7 | 0.46 | ng/L | 1 |
| 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3) | 763051-92-9 | PFAS by ID SOP | ND | | 7.7 | 0.64 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS) | 39108-34-4 | PFAS by ID SOP | ND | | 7.7 | 1.5 | ng/L | 1 |
| 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS) | 27619-97-2 | PFAS by ID SOP | ND | Q | 7.7 | 1.9 | ng/L | 1 |
| 1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS) | 757124-72-4 | PFAS by ID SOP | ND | Q | 7.7 | 0.84 | ng/L | 1 |
| Hexafluoropropylene oxide dimer acid (GenX) | 13252-13-6 | PFAS by ID SOP | ND | | 7.7 | 2.0 | ng/L | 1 |
| 4,8-dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | PFAS by ID SOP | ND | | 7.7 | 0.47 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | PFAS by ID SOP | ND | | 7.7 | 1.3 | ng/L | 1 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA) | 2991-50-6 | PFAS by ID SOP | ND | | 7.7 | 0.72 | ng/L | 1 |
| 2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE) | 1691-99-2 | PFAS by ID SOP | ND | | 7.7 | 0.92 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | PFAS by ID SOP | ND | | 15 | 1.2 | ng/L | 1 |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA) | 2355-31-9 | PFAS by ID SOP | ND | | 7.7 | 0.90 | ng/L | 1 |
| 2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE) | 24448-09-7 | PFAS by ID SOP | ND | | 7.7 | 1.2 | ng/L | 1 |
| Perfluoro-1-butanesulfonic acid (PFBS) | 375-73-5 | PFAS by ID SOP | 74 | | 3.8 | 0.40 | ng/L | 1 |
| Perfluoro-1-decanesulfonic acid (PFDS) | 335-77-3 | PFAS by ID SOP | ND | | 3.8 | 0.75 | ng/L | 1 |
| Perfluoro-1-heptanesulfonic acid (PFHpS) | 375-92-8 | PFAS by ID SOP | ND | | 3.8 | 0.48 | ng/L | 1 |
| Perfluoro-1-nonanesulfonic acid (PFNS) | 68259-12-1 | PFAS by ID SOP | ND | | 3.8 | 0.68 | ng/L | 1 |
| Perfluoro-1-octanesulfonamide (PFOSA) | 754-91-6 | PFAS by ID SOP | ND | | 3.8 | 0.59 | ng/L | 1 |
| Perfluoro-1-pentanesulfonic acid (PFPeS) | 2706-91-4 | PFAS by ID SOP | 3.0 | J | 3.8 | 0.57 | ng/L | 1 |
| Perfluorododecanesulfonic acid (PFDOS) | 79780-39-5 | PFAS by ID SOP | ND | | 7.7 | 1.0 | ng/L | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | PFAS by ID SOP | 13 | | 3.8 | 0.53 | ng/L | 1 |
| Perfluoro-n-butanoic acid (PFBA) | 375-22-4 | PFAS by ID SOP | 62 | | 3.8 | 0.58 | ng/L | 1 |
| Perfluoro-n-decanoic acid (PFDA) | 335-76-2 | PFAS by ID SOP | 2.1 | J | 3.8 | 0.50 | ng/L | 1 |
| Perfluoro-n-dodecanoic acid (PFDoA) | 307-55-1 | PFAS by ID SOP | ND | | 3.8 | 0.45 | ng/L | 1 |
| Perfluoro-n-heptanoic acid (PFHpA) | 375-85-9 | PFAS by ID SOP | 12 | | 3.8 | 0.43 | ng/L | 1 |
| Perfluoro-n-hexanoic acid (PFHxA) | 307-24-4 | PFAS by ID SOP | 17 | | 3.8 | 0.66 | ng/L | 1 |
| Perfluoro-n-nonanoic acid (PFNA) | 375-95-1 | PFAS by ID SOP | 3.4 | J | 3.8 | 0.44 | ng/L | 1 |
| Perfluoro-n-octanoic acid (PFOA) | 335-67-1 | PFAS by ID SOP | 23 | | 3.8 | 0.80 | ng/L | 1 |
| Perfluoro-n-pentanoic acid (PFPeA) | 2706-90-3 | PFAS by ID SOP | 35 | | 3.8 | 0.52 | ng/L | 1 |
| Perfluoro-n-tetradecanoic acid (PFTeDA) | 376-06-7 | PFAS by ID SOP | ND | | 3.8 | 0.58 | ng/L | 1 |
| Perfluoro-n-tridecanoic acid (PFTrDA) | 72629-94-8 | PFAS by ID SOP | ND | | 3.8 | 0.51 | ng/L | 1 |
| Perfluoro-n-undecanoic acid (PFUdA) | 2058-94-8 | PFAS by ID SOP | ND | | 3.8 | 0.60 | ng/L | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | PFAS by ID SOP | 40 | | 3.8 | 1.9 | ng/L | 1 |

| Run 1 % Recovery | Acceptance Limits |
|---------------------|---|
| 260 | 25-150 |
| 203 | 25-150 |
| 141 | 25-150 |
| 61 | 25-150 |
| 41 | 25-150 |
| 72 | 25-150 |
| 73 | 25-150 |
| 66 | 25-150 |
| 35 | 25-150 |
| | % Recovery 260 203 141 61 41 72 73 66 |

 LOQ = Limit of Quantitation
 B = Detected in the method blank
 E = Quantitation of compound exceeded the calibration range
 DL = Detection Limit
 Q = Surrogate failure

 ND = Not detected at or above the DL
 N = Recovery is out of criteria
 P = The RPD between two GC columns exceeds 40%
 J = Estimated result < LOQ and ≥ DL</td>
 L = LCS/LCSD failure

 H = Out of holding time
 W = Reported on wet weight basis
 S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

Client: Pace Analytical Services, LLC

Description: MW-4

Date Sampled:02/04/2022 1320 Project Na

Laboratory ID: XB09003-005

Matrix: Aqueous

Date Received: 02/09/2022

Project Name: 6255 S. MILWAUKEE

Project Number: 40240300

| Surrogate | | Acceptance Limits |
|------------|----|----------------------|
| 13C4_PFHpA | 72 | 25-150 |
| 13C5_PFHxA | 65 | 25-150 |
| 13C5_PFPeA | 48 | 25-150 |
| 13C6_PFDA | 89 | 25-150 |
| 13C7_PFUdA | 74 | 25-150 |
| 13C8_PFOA | 78 | 25-150 |
| 13C8_PFOS | 79 | 25-150 |
| 13C8_PFOSA | 85 | 10-150 |
| 13C9_PFNA | 87 | 25-150 |
| d-EtFOSA | 30 | 10-150 |
| d5-EtFOSAA | 75 | 25-150 |
| d9-EtFOSE | 44 | 10-150 |
| d-MeFOSA | 49 | 10-150 |
| d3-MeFOSAA | 93 | 25-150 |
| d7-MeFOSE | 54 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

DL = Detection Limit J = Estimated result < LOQ and $\geq DL$

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ32888-001 Batch: 32888

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 02/24/2022 1719

| Parameter | Result | Q Dil | LOQ | MDL | Units | Analysis Date |
|--------------|--------|----------------------|-----|------|-------|-----------------|
| 9CI-PF3ONS | ND | 1 | 8.0 | 0.48 | ng/L | 02/25/2022 1355 |
| 11CI-PF3OUdS | ND | 1 | 8.0 | 0.66 | ng/L | 02/25/2022 1355 |
| 8:2 FTS | ND | 1 | 8.0 | 1.6 | ng/L | 02/25/2022 1355 |
| 6:2 FTS | ND | 1 | 8.0 | 2.0 | ng/L | 02/25/2022 1355 |
| 4:2 FTS | ND | 1 | 8.0 | 0.87 | ng/L | 02/25/2022 1355 |
| GenX | ND | 1 | 8.0 | 2.1 | ng/L | 02/25/2022 1355 |
| ADONA | ND | 1 | 8.0 | 0.48 | ng/L | 02/25/2022 1355 |
| EtFOSA | ND | 1 | 8.0 | 1.4 | ng/L | 02/25/2022 1355 |
| EtFOSAA | ND | 1 | 8.0 | 0.75 | ng/L | 02/25/2022 1355 |
| EtFOSE | ND | 1 | 8.0 | 0.95 | ng/L | 02/25/2022 1355 |
| MeFOSA | ND | 1 | 16 | 1.3 | ng/L | 02/25/2022 1355 |
| MeFOSAA | ND | 1 | 8.0 | 0.93 | ng/L | 02/25/2022 1355 |
| MeFOSE | ND | 1 | 8.0 | 1.3 | ng/L | 02/25/2022 1355 |
| PFBS | ND | 1 | 4.0 | 0.41 | ng/L | 02/25/2022 1355 |
| PFDS | ND | 1 | 4.0 | 0.78 | ng/L | 02/25/2022 1355 |
| PFHpS | ND | 1 | 4.0 | 0.50 | ng/L | 02/25/2022 1355 |
| PFNS | ND | 1 | 4.0 | 0.71 | ng/L | 02/25/2022 1355 |
| PFOSA | ND | 1 | 4.0 | 0.61 | ng/L | 02/25/2022 1355 |
| PFPeS | ND | 1 | 4.0 | 0.59 | ng/L | 02/25/2022 1355 |
| PFDOS | ND | 1 | 8.0 | 1.0 | ng/L | 02/25/2022 1355 |
| PFHxS | ND | 1 | 4.0 | 0.55 | ng/L | 02/25/2022 1355 |
| PFBA | ND | 1 | 4.0 | 0.60 | ng/L | 02/25/2022 1355 |
| PFDA | ND | 1 | 4.0 | 0.52 | ng/L | 02/25/2022 1355 |
| PFDoA | ND | 1 | 4.0 | 0.47 | ng/L | 02/25/2022 1355 |
| PFHpA | ND | 1 | 4.0 | 0.45 | ng/L | 02/25/2022 1355 |
| PFHxA | ND | 1 | 4.0 | 0.69 | ng/L | 02/25/2022 1355 |
| PFNA | ND | 1 | 4.0 | 0.46 | ng/L | 02/25/2022 1355 |
| PFOA | ND | 1 | 4.0 | 0.83 | ng/L | 02/25/2022 1355 |
| PFPeA | ND | 1 | 4.0 | 0.54 | ng/L | 02/25/2022 1355 |
| PFTeDA | ND | 1 | 4.0 | 0.60 | ng/L | 02/25/2022 1355 |
| PFTrDA | ND | 1 | 4.0 | 0.53 | ng/L | 02/25/2022 1355 |
| PFUdA | ND | 1 | 4.0 | 0.63 | ng/L | 02/25/2022 1355 |
| PFOS | ND | 1 | 4.0 | 2.0 | ng/L | 02/25/2022 1355 |
| Surrogate | Q % Re | Acceptanc C Limit | e | | | |
| 13C2_4:2FTS | 117 | 25-150 | | | | |
| 13C2_6:2FTS | 149 | 25-150 | | | | |
| 13C2_8:2FTS | 116 | 25-150 | | | | |
| 13C2_PFDoA | 94 | 25-150 | | | | |
| 13C2_PFTeDA | 95 | 25-150 | | | | |
| 13C3_PFBS | 96 | 25-150 | | | | |
| 13C3_PFHxS | 95 | 25-150 | | | | |
| 13C3-HFPO-DA | 118 | 25-150 | | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$ P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS - MB

Sample ID: XQ32888-001 Batch: 32888

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 02/24/2022 1719

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 109 | 25-150 |
| 13C4_PFHpA | 108 | 25-150 |
| 13C5_PFHxA | 101 | 25-150 |
| 13C5_PFPeA | 102 | 25-150 |
| 13C6_PFDA | 105 | 25-150 |
| 13C7_PFUdA | 96 | 25-150 |
| 13C8_PFOA | 110 | 25-150 |
| 13C8_PFOS | 104 | 25-150 |
| 13C8_PFOSA | 112 | 10-150 |
| 13C9_PFNA | 107 | 25-150 |
| d-EtFOSA | 84 | 10-150 |
| d5-EtFOSAA | 99 | 25-150 |
| d9-EtFOSE | 103 | 10-150 |
| d-MeFOSA | 99 | 10-150 |
| d3-MeFOSAA | 117 | 25-150 |
| d7-MeFOSE | 103 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - LCS

Sample ID: XQ32888-002

Batch: 32888

Matrix: Aqueous Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 02/24/2022 1719

| Parameter | Spike Amount (ng/L) | Result (ng/L) | Q Dil | % Rec | %Rec Limit | Analysis Date |
|--------------|---------------------------|---------------------|-------|-------|---------------|-----------------|
| 9CI-PF3ONS | 15 | 14 | 1 | 96 | 50-150 | 02/25/2022 1406 |
| 11CI-PF3OUdS | 15 | 13 | 1 | 84 | 50-150 | 02/25/2022 1406 |
| 3:2 FTS | 15 | 13 | 1 | 87 | 50-150 | 02/25/2022 1406 |
| 3:2 FTS | 15 | 14 | 1 | 92 | 50-150 | 02/25/2022 1406 |
| 4:2 FTS | 15 | 13 | 1 | 84 | 50-150 | 02/25/2022 1406 |
| GenX | 32 | 30 | 1 | 95 | 50-150 | 02/25/2022 1406 |
| ADONA | 15 | 17 | 1 | 110 | 50-150 | 02/25/2022 1406 |
| EtFOSA | 16 | 16 | 1 | 98 | 50-150 | 02/25/2022 1406 |
| EtFOSAA | 16 | 15 | 1 | 93 | 50-150 | 02/25/2022 1406 |
| EtFOSE | 16 | 14 | 1 | 85 | 50-150 | 02/25/2022 1406 |
| MeFOSA | 16 | 14 | 1 | 88 | 50-150 | 02/25/2022 1406 |
| MeFOSAA | 16 | 12 | 1 | 75 | 50-150 | 02/25/2022 1406 |
| MeFOSE | 16 | 15 | 1 | 96 | 50-150 | 02/25/2022 1406 |
| PFBS | 14 | 14 | 1 | 99 | 50-150 | 02/25/2022 1406 |
| PFDS | 15 | 15 | 1 | 96 | 50-150 | 02/25/2022 1406 |
| PFHpS | 15 | 16 | 1 | 105 | 50-150 | 02/25/2022 1406 |
| PFNS | 15 | 14 | 1 | 94 | 50-150 | 02/25/2022 1406 |
| PFOSA | 16 | 13 | 1 | 84 | 50-150 | 02/25/2022 1406 |
| PFPeS | 15 | 14 | 1 | 94 | 50-150 | 02/25/2022 1406 |
| PFDOS | 15 | 13 | 1 | 85 | 50-150 | 02/25/2022 1406 |
| PFHxS | 15 | 14 | 1 | 96 | 50-150 | 02/25/2022 1406 |
| PFBA | 16 | 15 | 1 | 96 | 50-150 | 02/25/2022 1406 |
| PFDA | 16 | 15 | 1 | 95 | 50-150 | 02/25/2022 1406 |
| PFDoA | 16 | 15 | 1 | 93 | 50-150 | 02/25/2022 1406 |
| PFHpA | 16 | 16 | 1 | 97 | 50-150 | 02/25/2022 1406 |
| PFHxA | 16 | 15 | 1 | 92 | 50-150 | 02/25/2022 1406 |
| PFNA | 16 | 15 | 1 | 92 | 50-150 | 02/25/2022 1406 |
| PFOA | 16 | 14 | 1 | 90 | 50-150 | 02/25/2022 1406 |
| PFPeA | 16 | 15 | 1 | 93 | 50-150 | 02/25/2022 1406 |
| PFTeDA | 16 | 15 | 1 | 95 | 50-150 | 02/25/2022 1406 |
| PFTrDA | 16 | 14 | 1 | 90 | 50-150 | 02/25/2022 1406 |
| PFUdA | 16 | 15 | 1 | 91 | 50-150 | 02/25/2022 1406 |
| PFOS | 15 | 13 | 1 | 88 | 50-150 | 02/25/2022 1406 |
| Surrogate | Q % Rec | Acceptance Limit | | | | |
| 3C2_4:2FTS | 100 | 25-150 | | | | |
| 13C2_6:2FTS | 114 | 25-150 | | | | |
| 13C2_8:2FTS | 99 | 25-150 | | | | |
| 13C2_PFDoA | 86 | 25-150 | | | | |
| 13C2_PFTeDA | 82 | 25-150 | | | | |
| 13C3_PFBS | 90 | 25-150 | | | | |
| 13C3_PFHxS | 91 | 25-150 | | | | |
| 13C3-HFPO-DA | 113 | 25-150 | | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria

^{* =} RSD is out of criteria

PFAS by LC/MS/MS - LCS

Sample ID: XQ32888-002 Batch: 32888

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 02/24/2022 1719

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 98 | 25-150 |
| 13C4_PFHpA | 97 | 25-150 |
| 13C5_PFHxA | 93 | 25-150 |
| 13C5_PFPeA | 96 | 25-150 |
| 13C6_PFDA | 95 | 25-150 |
| 13C7_PFUdA | 91 | 25-150 |
| 13C8_PFOA | 99 | 25-150 |
| 13C8_PFOS | 99 | 25-150 |
| 13C8_PFOSA | 99 | 10-150 |
| 13C9_PFNA | 96 | 25-150 |
| d-EtFOSA | 75 | 10-150 |
| d5-EtFOSAA | 92 | 25-150 |
| d9-EtFOSE | 94 | 10-150 |
| d-MeFOSA | 79 | 10-150 |
| d3-MeFOSAA | 106 | 25-150 |
| d7-MeFOSE | 94 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - MB

Sample ID: XQ33273-001 Batch: 33273

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 03/01/2022 1232

| Parameter | Result | Q Dil | LOQ | MDL | Units | Analysis Date |
|--------------|--------|----------------------|-----|------|-------|-----------------|
| 9CI-PF3ONS | ND | 1 | 8.0 | 0.48 | ng/L | 03/02/2022 1309 |
| 11CI-PF3OUdS | ND | 1 | 8.0 | 0.66 | ng/L | 03/02/2022 1309 |
| 8:2 FTS | ND | 1 | 8.0 | 1.6 | ng/L | 03/02/2022 1309 |
| 6:2 FTS | ND | 1 | 8.0 | 2.0 | ng/L | 03/02/2022 1309 |
| 4:2 FTS | ND | 1 | 8.0 | 0.87 | ng/L | 03/02/2022 1309 |
| GenX | ND | 1 | 8.0 | 2.1 | ng/L | 03/02/2022 1309 |
| ADONA | ND | 1 | 8.0 | 0.48 | ng/L | 03/02/2022 1309 |
| EtFOSA | ND | 1 | 8.0 | 1.4 | ng/L | 03/02/2022 1309 |
| EtFOSAA | ND | 1 | 8.0 | 0.75 | ng/L | 03/02/2022 1309 |
| EtFOSE | ND | 1 | 8.0 | 0.95 | ng/L | 03/02/2022 1309 |
| MeFOSA | ND | 1 | 16 | 1.3 | ng/L | 03/02/2022 1309 |
| MeFOSAA | ND | 1 | 8.0 | 0.93 | ng/L | 03/02/2022 1309 |
| MeFOSE | ND | 1 | 8.0 | 1.3 | ng/L | 03/02/2022 1309 |
| PFBS | ND | 1 | 4.0 | 0.41 | ng/L | 03/02/2022 1309 |
| PFDS | ND | 1 | 4.0 | 0.78 | ng/L | 03/02/2022 1309 |
| PFHpS | ND | 1 | 4.0 | 0.50 | ng/L | 03/02/2022 1309 |
| PFNS | ND | 1 | 4.0 | 0.71 | ng/L | 03/02/2022 1309 |
| PFOSA | ND | 1 | 4.0 | 0.61 | ng/L | 03/02/2022 1309 |
| PFPeS | ND | 1 | 4.0 | 0.59 | ng/L | 03/02/2022 1309 |
| PFDOS | ND | 1 | 8.0 | 1.0 | ng/L | 03/02/2022 1309 |
| PFHxS | ND | 1 | 4.0 | 0.55 | ng/L | 03/02/2022 1309 |
| PFBA | ND | 1 | 4.0 | 0.60 | ng/L | 03/02/2022 1309 |
| PFDA | ND | 1 | 4.0 | 0.52 | ng/L | 03/02/2022 1309 |
| PFDoA | ND | 1 | 4.0 | 0.47 | ng/L | 03/02/2022 1309 |
| PFHpA | ND | 1 | 4.0 | 0.45 | ng/L | 03/02/2022 1309 |
| PFHxA | ND | 1 | 4.0 | 0.69 | ng/L | 03/02/2022 1309 |
| PFNA | ND | 1 | 4.0 | 0.46 | ng/L | 03/02/2022 1309 |
| PFOA | ND | 1 | 4.0 | 0.83 | ng/L | 03/02/2022 1309 |
| PFPeA | ND | 1 | 4.0 | 0.54 | ng/L | 03/02/2022 1309 |
| PFTeDA | ND | 1 | 4.0 | 0.60 | ng/L | 03/02/2022 1309 |
| PFTrDA | ND | 1 | 4.0 | 0.53 | ng/L | 03/02/2022 1309 |
| PFUdA | ND | 1 | 4.0 | 0.63 | ng/L | 03/02/2022 1309 |
| PFOS | ND | 1 | 4.0 | 2.0 | ng/L | 03/02/2022 1309 |
| Surrogate | Q % Re | Acceptanc C Limit | e | | | |
| 13C2_4:2FTS | 107 | 25-150 | | | | |
| 13C2_6:2FTS | 90 | 25-150 | | | | |
| 13C2_8:2FTS | 97 | 25-150 | | | | |
| 13C2_PFDoA | 78 | 25-150 | | | | |
| 13C2_PFTeDA | 62 | 25-150 | | | | |
| 13C3_PFBS | 86 | 25-150 | | | | |
| 13C3_PFHxS | 85 | 25-150 | | | | |
| 13C3-HFPO-DA | 98 | 25-150 | | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

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DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - MB

Sample ID: XQ33273-001 Batch: 33273

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 03/01/2022 1232

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 81 | 25-150 |
| 13C4_PFHpA | 82 | 25-150 |
| 13C5_PFHxA | 84 | 25-150 |
| 13C5_PFPeA | 87 | 25-150 |
| 13C6_PFDA | 82 | 25-150 |
| 13C7_PFUdA | 82 | 25-150 |
| 13C8_PFOA | 85 | 25-150 |
| 13C8_PFOS | 79 | 25-150 |
| 13C8_PFOSA | 96 | 10-150 |
| 13C9_PFNA | 83 | 25-150 |
| d-EtFOSA | 62 | 10-150 |
| d5-EtFOSAA | 84 | 25-150 |
| d9-EtFOSE | 96 | 10-150 |
| d-MeFOSA | 75 | 10-150 |
| d3-MeFOSAA | 86 | 25-150 |
| d7-MeFOSE | 95 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$ P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

QC Data for Lot Number: XB09003

Sample ID: XQ33273-002

Batch: 33273

Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE

Prep Date: 03/01/2022 1232

| Parameter | Spike Amount (ng/L) | Result (ng/L) Q | Dil | % Rec | %Rec Limit | Analysis Date |
|--------------|---------------------------|---------------------|-----|-------|---------------|-----------------|
| 9CI-PF3ONS | 15 | 16 | 1 | 108 | 50-150 | 03/02/2022 1320 |
| 11CI-PF3OUdS | 15 | 15 | 1 | 99 | 50-150 | 03/02/2022 1320 |
| 8:2 FTS | 15 | 14 | 1 | 91 | 50-150 | 03/02/2022 1320 |
| 6:2 FTS | 15 | 15 | 1 | 98 | 50-150 | 03/02/2022 1320 |
| 4:2 FTS | 15 | 14 | 1 | 97 | 50-150 | 03/02/2022 1320 |
| GenX | 32 | 33 | 1 | 102 | 50-150 | 03/02/2022 1320 |
| ADONA | 15 | 16 | 1 | 107 | 50-150 | 03/02/2022 1320 |
| EtFOSA | 16 | 18 | 1 | 115 | 50-150 | 03/02/2022 1320 |
| EtFOSAA | 16 | 16 | 1 | 99 | 50-150 | 03/02/2022 1320 |
| EtFOSE | 16 | 15 | 1 | 92 | 50-150 | 03/02/2022 1320 |
| MeFOSA | 16 | 17 | 1 | 105 | 50-150 | 03/02/2022 1320 |
| MeFOSAA | 16 | 16 | 1 | 100 | 50-150 | 03/02/2022 1320 |
| MeFOSE | 16 | 15 | 1 | 97 | 50-150 | 03/02/2022 1320 |
| PFBS | 14 | 14 | 1 | 101 | 50-150 | 03/02/2022 1320 |
| PFDS | 15 | 16 | 1 | 105 | 50-150 | 03/02/2022 1320 |
| PFHpS | 15 | 19 | 1 | 123 | 50-150 | 03/02/2022 1320 |
| PFNS | 15 | 16 | 1 | 104 | 50-150 | 03/02/2022 1320 |
| PFOSA | 16 | 15 | 1 | 97 | 50-150 | 03/02/2022 1320 |
| PFPeS | 15 | 16 | 1 | 106 | 50-150 | 03/02/2022 1320 |
| PFDOS | 15 | 15 | 1 | 98 | 50-150 | 03/02/2022 1320 |
| PFHxS | 15 | 16 | 1 | 107 | 50-150 | 03/02/2022 1320 |
| PFBA | 16 | 17 | 1 | 107 | 50-150 | 03/02/2022 1320 |
| PFDA | 16 | 16 | 1 | 101 | 50-150 | 03/02/2022 1320 |
| PFDoA | 16 | 16 | 1 | 103 | 50-150 | 03/02/2022 1320 |
| PFHpA | 16 | 17 | 1 | 109 | 50-150 | 03/02/2022 1320 |
| PFHxA | 16 | 17 | 1 | 105 | 50-150 | 03/02/2022 1320 |
| PFNA | 16 | 17 | 1 | 104 | 50-150 | 03/02/2022 1320 |
| PFOA | 16 | 17 | 1 | 105 | 50-150 | 03/02/2022 1320 |
| PFPeA | 16 | 16 | 1 | 102 | 50-150 | 03/02/2022 1320 |
| PFTeDA | 16 | 17 | 1 | 106 | 50-150 | 03/02/2022 1320 |
| PFTrDA | 16 | 16 | 1 | 101 | 50-150 | 03/02/2022 1320 |
| PFUdA | 16 | 18 | 1 | 110 | 50-150 | 03/02/2022 1320 |
| PFOS | 15 | 16 | 1 | 107 | 50-150 | 03/02/2022 1320 |
| Surrogate | Q % Rec | Acceptance Limit | | | | |
| 13C2_4:2FTS | 94 | 25-150 | | | | |
| 13C2_6:2FTS | 81 | 25-150 | | | | |
| 13C2_8:2FTS | 92 | 25-150 | | | | |
| 13C2_PFDoA | 76 | 25-150 | | | | |
| 13C2_PFTeDA | 73 | 25-150 | | | | |
| 13C3_PFBS | 81 | 25-150 | | | | |
| 13C3_PFHxS | 77 | 25-150 | | | | |
| 13C3-HFPO-DA | 92 | 25-150 | | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

 $DL = Detection \ Limit \\ J = Estimated \ result < LOQ \ and \ge DL$

P = The RPD between two GC columns exceeds 40%

^{*} = RSD is out of criteria + = RPD is out of criteria

Sample ID: XQ33273-002 Batch: 33273

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 03/01/2022 1232

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 79 | 25-150 |
| 13C4_PFHpA | 79 | 25-150 |
| 13C5_PFHxA | 78 | 25-150 |
| 13C5_PFPeA | 81 | 25-150 |
| 13C6_PFDA | 79 | 25-150 |
| 13C7_PFUdA | 74 | 25-150 |
| 13C8_PFOA | 75 | 25-150 |
| 13C8_PFOS | 79 | 25-150 |
| 13C8_PFOSA | 84 | 10-150 |
| 13C9_PFNA | 79 | 25-150 |
| d-EtFOSA | 55 | 10-150 |
| d5-EtFOSAA | 78 | 25-150 |
| d9-EtFOSE | 90 | 10-150 |
| d-MeFOSA | 63 | 10-150 |
| d3-MeFOSAA | 83 | 25-150 |
| d7-MeFOSE | 93 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$ P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Sample ID: XQ33273-003 Batch: 33273 Matrix: Aqueous Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/01/2022 1232

| Parameter | Spike Amount (ng/L) | Result (ng/L) | Q | Dil | % Rec | % RPD | %Rec Limit | % RPD Limit | Analysis Date |
|--------------|---------------------------|------------------|-------------------|-----|-------|-------|---------------|----------------|-----------------|
| 9CI-PF3ONS | 15 | 17 | | 1 | 111 | 3.4 | 50-150 | 30 | 03/02/2022 1331 |
| 11CI-PF3OUdS | 15 | 13 | | 1 | 86 | 14 | 50-150 | 30 | 03/02/2022 1331 |
| 8:2 FTS | 15 | 14 | | 1 | 91 | 0.64 | 50-150 | 30 | 03/02/2022 1331 |
| 6:2 FTS | 15 | 17 | | 1 | 110 | 11 | 50-150 | 30 | 03/02/2022 1331 |
| 4:2 FTS | 15 | 13 | | 1 | 86 | 12 | 50-150 | 30 | 03/02/2022 1331 |
| GenX | 32 | 32 | | 1 | 99 | 3.1 | 50-150 | 30 | 03/02/2022 1331 |
| ADONA | 15 | 15 | | 1 | 103 | 4.1 | 50-150 | 30 | 03/02/2022 1331 |
| EtFOSA | 16 | 20 | | 1 | 125 | 8.6 | 50-150 | 30 | 03/02/2022 1331 |
| EtFOSAA | 16 | 16 | | 1 | 98 | 1.0 | 50-150 | 30 | 03/02/2022 1331 |
| EtFOSE | 16 | 15 | | 1 | 94 | 2.2 | 50-150 | 30 | 03/02/2022 1331 |
| MeFOSA | 16 | 18 | | 1 | 114 | 8.3 | 50-150 | 30 | 03/02/2022 1331 |
| MeFOSAA | 16 | 16 | | 1 | 98 | 2.0 | 50-150 | 30 | 03/02/2022 1331 |
| MeFOSE | 16 | 14 | | 1 | 90 | 6.9 | 50-150 | 30 | 03/02/2022 1331 |
| PFBS | 14 | 14 | | 1 | 101 | 0.21 | 50-150 | 30 | 03/02/2022 1331 |
| PFDS | 15 | 16 | | 1 | 101 | 4.8 | 50-150 | 30 | 03/02/2022 1331 |
| PFHpS | 15 | 16 | | 1 | 105 | 5.2 | 50-150 | 30 | 03/02/2022 1331 |
| PFNS | 15 | 16 | | 1 | 102 | 1.9 | 50-150 | 30 | 03/02/2022 1331 |
| PFOSA | 16 | 16 | | 1 | 99 | 2.5 | 50-150 | 30 | 03/02/2022 1331 |
| PFPeS | 15 | 16 | | 1 | 108 | 2.0 | 50-150 | 30 | 03/02/2022 1331 |
| PFDOS | 15 | 11 | + | 1 | 71 | 32 | 50-150 | 30 | 03/02/2022 1331 |
| PFHxS | 15 | 15 | | 1 | 101 | 6.1 | 50-150 | 30 | 03/02/2022 1331 |
| PFBA | 16 | 17 | | 1 | 106 | 1.3 | 50-150 | 30 | 03/02/2022 1331 |
| PFDA | 16 | 16 | | 1 | 98 | 3.5 | 50-150 | 30 | 03/02/2022 1331 |
| PFDoA | 16 | 17 | | 1 | 106 | 3.5 | 50-150 | 30 | 03/02/2022 1331 |
| PFHpA | 16 | 18 | | 1 | 114 | 3.9 | 50-150 | 30 | 03/02/2022 1331 |
| PFHxA | 16 | 18 | | 1 | 115 | 8.5 | 50-150 | 30 | 03/02/2022 1331 |
| PFNA | 16 | 17 | | 1 | 109 | 4.3 | 50-150 | 30 | 03/02/2022 1331 |
| PFOA | 16 | 17 | | 1 | 104 | 1.2 | 50-150 | 30 | 03/02/2022 1331 |
| PFPeA | 16 | 17 | | 1 | 108 | 5.9 | 50-150 | 30 | 03/02/2022 1331 |
| PFTeDA | 16 | 17 | | 1 | 104 | 2.3 | 50-150 | 30 | 03/02/2022 1331 |
| PFTrDA | 16 | 14 | | 1 | 86 | 15 | 50-150 | 30 | 03/02/2022 1331 |
| PFUdA | 16 | 17 | | 1 | 106 | 3.6 | 50-150 | 30 | 03/02/2022 1331 |
| PFOS | 15 | 16 | | 1 | 107 | 0.36 | 50-150 | 30 | 03/02/2022 1331 |
| Surrogate | Q % R | Acc ec | ceptance Limit | | | | | | |
| 13C2_4:2FTS | 100 |) | 25-150 | | | | | | |
| 13C2_6:2FTS | 83 | | 25-150 | | | | | | |
| 13C2_8:2FTS | 86 | | 25-150 | | | | | | |
| 13C2_PFDoA | 69 | | 25-150 | | | | | | |
| 13C2_PFTeDA | 50 | | 25-150 | | | | | | |
| 13C3_PFBS | 82 | | 25-150 | | | | | | |
| 13C3_PFHxS | 84 | | 25-150 | | | | | | |
| 13C3-HFPO-DA | 93 | | 25-150 | | | | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria

^{* =} RSD is out of criteria

Sample ID: XQ33273-003 **Batch:** 33273

Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE

Prep Date: 03/01/2022 1232

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 77 | 25-150 |
| 13C4_PFHpA | 79 | 25-150 |
| 13C5_PFHxA | 78 | 25-150 |
| 13C5_PFPeA | 78 | 25-150 |
| 13C6_PFDA | 80 | 25-150 |
| 13C7_PFUdA | 76 | 25-150 |
| 13C8_PFOA | 79 | 25-150 |
| 13C8_PFOS | 80 | 25-150 |
| 13C8_PFOSA | 84 | 10-150 |
| 13C9_PFNA | 77 | 25-150 |
| d-EtFOSA | 67 | 10-150 |
| d5-EtFOSAA | 79 | 25-150 |
| d9-EtFOSE | 87 | 10-150 |
| d-MeFOSA | 79 | 10-150 |
| d3-MeFOSAA | 83 | 25-150 |
| d7-MeFOSE | 92 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria + = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

QC Data for Lot Number: XB09003

PFAS by LC/MS/MS - MB

Sample ID: XQ33372-001

Batch: 33372

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 03/01/2022 1721

| Parameter | Result | Q Dil | LOQ | MDL | Units | Analysis Date |
|--------------|---------|---------------------|-----|------|-------|-----------------|
| 9CI-PF3ONS | ND | 1 | 8.0 | 0.48 | ng/L | 03/02/2022 1614 |
| 11CI-PF3OUdS | ND | 1 | 8.0 | 0.66 | ng/L | 03/02/2022 1614 |
| 3:2 FTS | ND | 1 | 8.0 | 1.6 | ng/L | 03/02/2022 1614 |
| 6:2 FTS | ND | 1 | 8.0 | 2.0 | ng/L | 03/02/2022 1614 |
| 4:2 FTS | ND | 1 | 8.0 | 0.87 | ng/L | 03/02/2022 1614 |
| GenX | ND | 1 | 8.0 | 2.1 | ng/L | 03/02/2022 1614 |
| ADONA | ND | 1 | 8.0 | 0.48 | ng/L | 03/02/2022 1614 |
| EtFOSA | ND | 1 | 8.0 | 1.4 | ng/L | 03/02/2022 1614 |
| EtFOSAA | ND | 1 | 8.0 | 0.75 | ng/L | 03/02/2022 1614 |
| EtFOSE | ND | 1 | 8.0 | 0.95 | ng/L | 03/02/2022 1614 |
| MeFOSA | ND | 1 | 16 | 1.3 | ng/L | 03/02/2022 1614 |
| MeFOSAA | ND | 1 | 8.0 | 0.93 | ng/L | 03/02/2022 1614 |
| MeFOSE | ND | 1 | 8.0 | 1.3 | ng/L | 03/02/2022 1614 |
| PFBS | ND | 1 | 4.0 | 0.41 | ng/L | 03/02/2022 1614 |
| PFDS | ND | 1 | 4.0 | 0.78 | ng/L | 03/02/2022 1614 |
| PFHpS | ND | 1 | 4.0 | 0.50 | ng/L | 03/02/2022 1614 |
| PFNS | ND | 1 | 4.0 | 0.71 | ng/L | 03/02/2022 1614 |
| PFOSA | ND | 1 | 4.0 | 0.61 | ng/L | 03/02/2022 1614 |
| PFPeS | ND | 1 | 4.0 | 0.59 | ng/L | 03/02/2022 1614 |
| PFDOS | ND | 1 | 8.0 | 1.0 | ng/L | 03/02/2022 1614 |
| PFHxS | ND | 1 | 4.0 | 0.55 | ng/L | 03/02/2022 1614 |
| PFBA | ND | 1 | 4.0 | 0.60 | ng/L | 03/02/2022 1614 |
| PFDA | ND | 1 | 4.0 | 0.52 | ng/L | 03/02/2022 1614 |
| PFDoA | ND | 1 | 4.0 | 0.47 | ng/L | 03/02/2022 1614 |
| PFHpA | ND | 1 | 4.0 | 0.45 | ng/L | 03/02/2022 1614 |
| PFHxA | ND | 1 | 4.0 | 0.69 | ng/L | 03/02/2022 1614 |
| PFNA | ND | 1 | 4.0 | 0.46 | ng/L | 03/02/2022 1614 |
| PFOA | ND | 1 | 4.0 | 0.83 | ng/L | 03/02/2022 1614 |
| PFPeA | ND | 1 | 4.0 | 0.54 | ng/L | 03/02/2022 1614 |
| PFTeDA | ND | 1 | 4.0 | 0.60 | ng/L | 03/02/2022 1614 |
| PFTrDA | ND | 1 | 4.0 | 0.53 | ng/L | 03/02/2022 1614 |
| PFUdA | ND | 1 | 4.0 | 0.63 | ng/L | 03/02/2022 1614 |
| PFOS | ND | 1 | 4.0 | 2.0 | ng/L | 03/02/2022 1614 |
| Surrogate | Q % Rec | Acceptance Limit | | | | |
| 13C2_4:2FTS | 85 | 25-150 | | | | |
| 13C2_6:2FTS | 84 | 25-150 | | | | |
| 13C2_8:2FTS | 78 | 25-150 | | | | |
| 13C2_PFDoA | 66 | 25-150 | | | | |
| 13C2_PFTeDA | 67 | 25-150 | | | | |
| 13C3_PFBS | 74 | 25-150 | | | | |
| 13C3_PFHxS | 80 | 25-150 | | | | |
| 13C3-HFPO-DA | 88 | 25-150 | | | | |

LOQ = Limit of Quantitation

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J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

PFAS by LC/MS/MS - MB

Sample ID: XQ33372-001 Batch: 33372

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 03/01/2022 1721

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 71 | 25-150 |
| 13C4_PFHpA | 71 | 25-150 |
| 13C5_PFHxA | 73 | 25-150 |
| 13C5_PFPeA | 75 | 25-150 |
| 13C6_PFDA | 75 | 25-150 |
| 13C7_PFUdA | 68 | 25-150 |
| 13C8_PFOA | 73 | 25-150 |
| 13C8_PFOS | 74 | 25-150 |
| 13C8_PFOSA | 75 | 10-150 |
| 13C9_PFNA | 70 | 25-150 |
| d-EtFOSA | 65 | 10-150 |
| d5-EtFOSAA | 71 | 25-150 |
| d9-EtFOSE | 86 | 10-150 |
| d-MeFOSA | 76 | 10-150 |
| d3-MeFOSAA | 76 | 25-150 |
| d7-MeFOSE | 86 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

QC Data for Lot Number: XB09003

Sample ID: XQ33372-002 Batch: 33372

Matrix: Aqueous Prep Method: SOP SPE Prep Date: 03/01/2022 1721

Analytical Method: PFAS by ID SOP

| | Spike | | | | | |
|---------------|----------|---------------------|--------|-----------|------------------|------------------------------------|
| Davamatar | Amount | Result (ng/L) Q | D'I | % Rec | %Rec | Analysis Data |
| Parameter | (ng/L) | , | | | Limit | Analysis Date |
| 9CI-PF3ONS | 15 | 16 | 1 | 108 | 50-150 | 03/02/2022 1625 |
| 11CI-PF3OUdS | 15 | 14 | 1 | 95 | 50-150 | 03/02/2022 1625 |
| 8:2 FTS | 15 | 14 | 1 | 91 | 50-150 | 03/02/2022 1625 |
| 6:2 FTS | 15 | 18 | 1 | 116 | 50-150 | 03/02/2022 1625 |
| 4:2 FTS | 15 | 14 | 1 | 91 | 50-150 | 03/02/2022 1625 |
| GenX ADONA | 32 15 | 35 15 | 1 1 | 108 99 | 50-150 50-150 | 03/02/2022 1625 03/02/2022 1625 |
| EtFOSA | 16 | 16 | 1 | 99 97 | 50-150 50-150 | 03/02/2022 1625 |
| EtFOSAA | 16 | 16 | 1 | 97 | 50-150 | 03/02/2022 1625 |
| EtFOSE | 16 | 15 | 1 | 92 | 50-150 | 03/02/2022 1625 |
| MeFOSA | 16 | 16 | 1 | 102 | 50-150 | 03/02/2022 1625 |
| MeFOSAA | 16 | | 1 | 98 | 50-150 | |
| | | 16 | | | | 03/02/2022 1625 |
| MeFOSE | 16 | 17 | 1 | 106 | 50-150 | 03/02/2022 1625 |
| PFBS | 14 | 15 | 1 | 106 | 50-150 | 03/02/2022 1625 |
| PFDS | 15 | 15 | 1 | 99 | 50-150 | 03/02/2022 1625 |
| PFHpS | 15 | 16 | 1 | 107 | 50-150 | 03/02/2022 1625 |
| PFNS | 15 | 18 | 1 | 116 | 50-150 | 03/02/2022 1625 |
| PFOSA | 16 | 16 | 1 | 99 | 50-150 | 03/02/2022 1625 |
| PFPeS | 15 | 18 | 1 | 122 | 50-150 | 03/02/2022 1625 |
| PFDOS | 15 | 16 | 1 | 103 | 50-150 | 03/02/2022 1625 |
| PFHxS | 15 | 15 | 1 | 106 | 50-150 | 03/02/2022 1625 |
| PFBA | 16 | 18 | 1 | 111 | 50-150 | 03/02/2022 1625 |
| PFDA | 16 | 16 | 1 | 103 | 50-150 | 03/02/2022 1625 |
| PFDoA | 16 | 18 | 1 | 111 | 50-150 | 03/02/2022 1625 |
| PFHpA | 16 | 18 | 1 | 111 | 50-150 | 03/02/2022 1625 |
| PFHxA | 16 | 17 | 1 | 107 | 50-150 | 03/02/2022 1625 |
| PFNA | 16 | 18 | 1 | 109 | 50-150 | 03/02/2022 1625 |
| PFOA | 16 | 16 | 1 | 101 | 50-150 | 03/02/2022 1625 |
| PFPeA | 16 | 18 | 1 | 110 | 50-150 | 03/02/2022 1625 |
| PFTeDA | 16 | 18 | 1 | 110 | 50-150 | 03/02/2022 1625 |
| PFTrDA | 16 | 17 | 1 | 107 | 50-150 | 03/02/2022 1625 |
| PFUdA | 16 | 17 | 1 | 107 | 50-150 | 03/02/2022 1625 |
| PFOS | 15 | 17 | 1 | 114 | 50-150 | 03/02/2022 1625 |
| Surrogate | Q % Rec | Acceptance Limit | | | | |
| 13C2_4:2FTS | 92 | 25-150 | | | | |
| 13C2_6:2FTS | 87 | 25-150 | | | | |
| 13C2_8:2FTS | 82 | 25-150 | | | | |
| 13C2_PFDoA | 68 | 25-150 | | | | |
| 13C2_PFTeDA | 69 | 25-150 | | | | |
| 13C3_PFBS | 74 | 25-150 | | | | |
| 13C3_PFHxS | 77 | 25-150 | | | | |
| 13C3-HFPO-DA | 83 | 25-150 | | | | |
| .5551 5 5/1 | 33 | 20 100 | | | | |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit $J = Estimated result < LOQ and \ge DL$ $P = The \ RPD$ between two GC columns exceeds 40%

^{+ =} RPD is out of criteria * = RSD is out of criteria

Sample ID: XQ33372-002 Batch: 33372

Analytical Method: PFAS by ID SOP

Matrix: Aqueous Prep Method: SOP SPE

Prep Date: 03/01/2022 1721

| Surrogate | Q % Rec | Acceptance Limit |
|------------|---------|---------------------|
| 13C4_PFBA | 70 | 25-150 |
| 13C4_PFHpA | 74 | 25-150 |
| 13C5_PFHxA | 75 | 25-150 |
| 13C5_PFPeA | 71 | 25-150 |
| 13C6_PFDA | 74 | 25-150 |
| 13C7_PFUdA | 72 | 25-150 |
| 13C8_PFOA | 75 | 25-150 |
| 13C8_PFOS | 77 | 25-150 |
| 13C8_PFOSA | 77 | 10-150 |
| 13C9_PFNA | 73 | 25-150 |
| d-EtFOSA | 54 | 10-150 |
| d5-EtFOSAA | 76 | 25-150 |
| d9-EtFOSE | 84 | 10-150 |
| d-MeFOSA | 62 | 10-150 |
| d3-MeFOSAA | 81 | 25-150 |
| d7-MeFOSE | 82 | 10-150 |

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$ P = The RPD between two GC columns exceeds 40%

+ = RPD is out of criteria * = RSD is out of criteria

Chain of Custody and Miscellaneous Documents

| - | nternal Transfer Chain of Custody | r Chain | of Custoc | * | - | | - | THE REAL PROPERTY. | | | | 6 | • |
|---|---|-----------------|------------------------------------|--|------------------------|---------------------------|----------------------|--------------------------------|---|---------------------------------|--------------------|----------------------------|------------------------------------|
| | | | Samples P | s Pre-Logged into eCOC. | into ecoc | o . | State | State Of Origin: Wi | | | | Pac | Pace Analytical " www.pacelaba.com |
| Vor | Vorkorder: 40240300 | Workorder Name: | | 6255 S. MILWAUKEE | | | Owner | Cert. Needed: Owner Receive | Corr. Needed: [x] Yes Owner Received Date: | 2/8/2022 | | ر Results Requested By: | v: 3/1/2022 |
| epc | leport To | | Subcontract To | ct To | , and a second | | | | - | Requeste | Requested Analysis | 8 | 1 |
| Steven Pace Ar 1241 Bi Sulte 9 Sreen E Phone (| steven Mieczko Pace Analytical Green Bay 241 Bellevue Street bulte 9 Sreen Bay, WI 54302 Phone (920)469-2436 | | Pace 106 v West Phone | Pace Analytical West Columbia 106 Vantage Point Drive West Columbia, SC 29172 Phone (803)791-9700 | Columbia ve 9172 | | | | SE IM SV | | | | |
| | | | | | - | Preserv | Preserved Containers | ners | 44 | | N. Marien | | |
| ē | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | ремезысит | | | | XB09003 | 03 | | LAB USE ONLY |
| | MW-300 | S | 2/4/2022 11:00 | 4024030001 | Water | z | | | × | - - | | | |
| | MW-801 | PS | 2/3/2022 13:00 | 40240300002 | Water | 2 | | | × | | | | |
| | MWG02 | PS | 2/4/2022 12:25 | 40240300003 | Water | 2 | | | × | | | | |
| | MW-eds | S. | 2/3/2022 14:00 | 40240300004 | Water | 2 | | | × | | | | |
| | MW.4 | PS | 2/4/2022 13:20 | 40240300006 | Walter | 2 | | _ | × | | | | |
| | | | | | | | | | _ | | 0 | Comments | |
| E | ansfers Released By | | Date/Time | Received By | , | | _ | DateTime | | WI water commutes | 30 | | |
| | Beller | hirtel | 2/8/24 M | [Q] | | | - | | Neek | Need W133 commoned list | cs prompd | <u></u> | onia. |
| | | 200 | 2/4/25 050 | | a cotain | 2 | 5 | प्रकारका | 1.50 | 100 00 144 1 | ipo u nd | Tiest | |
| 8 | ooler Temperature on Receipt | 2-3 | °C Cus | Custody Seal (V | Or N | | Receiv | Received on Ice | ce (Y) or | z | S | Samples Intact | Y or N |
| ş F | th order to maintain client confidentiality, location/hame of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory. | considered con | location/name iplete as is sind | of the samplin se this informal | g site, sal | mpler's n vilable in i | eme and | d signet er labon | atory: | of be provided | d on this | COC document | |
| Son | Josepa, February US, 2022 9:13:35 AM | 35 AM | | Individual and | | | | | | FMT-ALL-C-002rev.00 24March2006 | ev.00 24M | arch2008 | Page 3 of 1 |
| | | | | | | | | | | | | | |

PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15) Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020 Page 1 of 1

Sample Receipt Checklist (SRC)

| Client: PACE | Cooler Inspected by/date: MEH / 02/09/2022 Let #: XB09003 |
|---|--|
| Means of receipt: Pa | ace Client 7 UPS FedEx Other: |
| Yes √ No | Were custody seals present on the cooler? |
| Yes No VNA | 2. If custody seals were present, were they intact and unbroken? |
| pH Strip ID: NA | Chlorine Strip ID: NA Tested by: NA |
| | n receipt / Derived (Corrected) temperature upon receipt |
| 2.3 /2.3 °C NA /N | and the second s |
| | Blank Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C |
| Method of coolant: ✓ | Wet Ice Ice Packs Dry Ice None |
| ☐Yes ☐No ☑NA | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? |
| | I'M was Notified by: phone / email / lace-to-face (circle one). |
| | 4. Is the commercial courier's packing slip attached to this form?. |
| ✓ Yes ☐ No | 5. Were proper custody procedures (relinquished/received) followed? |
| Yes No | 6. Were sample IDs listed on the COC? |
| ✓ Yes □ No | 7. Were sample IDs listed on all sample containers? |
| ✓ Yes □ No | 8. Was collection date & time listed on the COC? |
| ✓ Yes ☐ No | 9. Was collection date & time listed on all sample containers? |
| ✓ Yes □ No | 10. Did all container label information (ID, date, time) agree with the COC? |
| ✓ Yes □ No | 11. Were tests to be performed listed on the COC? |
| ☑ Yes □ No | 12. Did all samples arrive in the proper containers for each test and/or in good condition |
| | (unbroken, lids on, etc.)? |
| ✓ Yes □ No | 13. Was adequate sample volume available? |
| Yes ✓ No | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| Yes ✓ No | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC? |
| ☐ Yes ☐ No ☑NA | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (V?"or 6mm in diameter) in any of the VOA vials? |
| Yes No VNA | 17. Were all DRO/metals/nutrient samples received at a pH of < 2? |
| | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? |
| | 19 Were all applicable NU_TKN/manida/phonol/625 1/602 3 (< 0.5mg/l) complet free of |
| Yes No VNA | residual chlorine? |
| ☐Yes ☐No ☑NA | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc) |
| ☐ Yes ☐ No ☑NA | correctly transcribed from the COC into the comment section in LJMS? |
| Yes ✓ No | 21. Was the quote number listed on the container label? If yes, Quote # |
| Sample Preservation (| Must be completed for any sample(s) incorrectly preserved or with headspace.) |
| Sample(s) NA | were received incorrectly preserved and were adjusted accordingly |
| in sample receiving with | |
| Time of preservation NA | . If more than one preservative is needed, please note in the comments below. |
| Sample(s) NA | were received with hubbles >6 mm in diameter. |
| | |
| Samples(s) NA adjusted accordingly in sa | were received with TRC > 0.5 mg/L (If #19 is no) and were imple receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: NA |
| | - The state of the |
| SR barcode labels applied | Date: Valorizada |
| Comments: | |
| | |
| | |
| | , |
| | |
| Verses | |
| | |

APPENDIX C.1.F EMERGING CONTAMINANT HISTORICAL USE RESEARCH

Re: [EXTERNAL] Information Request

Joe Knitter <knitter@smwi.org>

| Tue 12/21/20211:56 PM |
|---|
| \$ Milwaukee To:Tom DePaul <depaul@daienv.com>;</depaul@daienv.com> |
| |
| Mr. DePaul: |
| Historically, the South Milwaukee Fire Department has maintained a minimal supply of firefighting foam for emergency response purposes at the Marshall Court fire station, always contained within the original product container (sealed, 5-gallon plastic pail) or in storage tanks on-board fire apparatus. These fire apparatus are subject to daily inspection by trained and certified operators and there have been no reports of leakage from any of the storage containers. In addition, there has been no release or discharge of this product to the ground surface at the fire station. |
| I hope this satisfies your request. |
| Joseph Knitter |
| Fire Chief |
| |
| From: Tom DePaul <depaul@daienv.com> Sent: Friday, December 10, 202110:40 AM To: Joe Knitter Subject: [EXTERNAL) Information Request</depaul@daienv.com> |
| Chief Knitter: |
| We are the environmental consultants for the property owners of the Sunrise Shopping Center. We have identified PFAS contamination at the Site, and the WDNR has recently requested that winvestigate potential sources of the observed PFAS contamination. Could you please tell me if fire suppressant foam was ever stored on-site at the Marshall Ct Fire Station, and whether there have been a release or discharge of the foam to the ground surface at the Fire Station? |
| Thank-you for your cooperation, |
| Tom DePaul |
| |
| E Thomas DePaul, Ph.D. |
| DAI Environmental, Inc. |
| 27834 N. Irma Lee Circle |
| |
| Lake Forest, IL_60045 |
| Direct: (847) 996-3570 |
| Office: (847) 573-8900 |
| Fax: (847) 573-8953 |
| Email: depaul@daienv.com <jlli!!!q;_depaul@daienvcom></jlli!!!q;_depaul@daienvcom> |
| |

APPENDIX C.1.G LOW-FLOW DEVELOPMENT FIELD LOGS (EMERGING CONTAMINANT SAMPLING, FEBRUARY 2022)

| Well Number: | mw-4 | | | | Site: S - M | · way l | u | | | |
|------------------|--------------------|-----------------------|-----------------|-----------------|--|----------------------------|------------|--------------|--------------------------------|------------|
| | Mh | | | | | 22 | | Project #: 6 | 255 | |
| Well depth (ft b | | .4) | | | Purge equipment: | - 10 | uoje | 1 | Diameter | Gal per ft |
| Depth to water | (ft ьтос): | 8.86 | | | | W FRA | المرا | phoon | (2") | 0.163 |
| Water Column I | | Ø - | | | Pump Intake Depti | h: | - 0.7 | 01.1 | | 0.367 |
| Well Diameter (| in): 2" | | | | 1 | 13 | | | 4" | 0.653 |
| Well Volume (ga | al): | | | | Water quality met | er: | | | 6" | |
| Screened Interv | al (ft bgs): | 5'-15' | | | 451 | 556 | | | 8" | 1.469 |
| | 11.411.25.34.07.11 | | | | Field Paramet | | | | | 2.611 |
| | Depth to | | Total | I | | | | | | |
| Time | Water (ft bgs) | Flow Rate (mL/min) | Volume (gal) | Temp (deg C) | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | pH (SU) | ORP (mV) | Turbidity (NTU) | Color/Odor |
| Stabilization | N/A | <300 | N/A | +/- 0.1 deg C | +/-5 μS/cm if <1000 μS/cm +/-10 μS/cm if | +/- 0.2 mg/L | +/- 0.1 | +/- 30 mV | <5 NTUs if metals not filtered | N/A |
| 13244 | 6 61 | 2 | | | >1000 µS/cm | | | (optional) | +/- 10% (recommended) | |
| 12:40 | 8.86 | 300 | | 10.0 | 1.86 | 14-74 | 10.82 | 19.4 | Clear | Petrol |
| 12:45 | 8.99 | 300 | | 10 · D | 1.94 | 11.92 | 10.90 | 20.3 | 10 | 1 |
| 12:50 | 9.07 | 300 | | 9.9 | 1.98 | 10.09 | 10.97 | 21.4 | 1, | |
| | 9.20 | 250 | | 10.3 | 2-03 | 9.98 | 11.29 | 22.5 | / \ | 2/ |
| 1:00 | 9.35 | 200 | | 10.3 | 2-63 | 9.48 | 11.36 | 23.0 | 11 | 1. |
| 1:05 | 9,62 | 300 | | 10.4 | 2.05 | 9.82 | 11.37 | 24 | 41 | |
| 1:10 | 10.02 | 300 | | 10.4 | 2.07 | 9.89 | 11.37 | 24. | 1 1 | |
| 1:15 | 10.27 | 300 | | 10.4 | 2.08 | 9.90 | 11.37 | | 1. | |
| | | | | | | | | | | |
| | | | | | 11 | | | | | |
| | | | | | Comment | | | | | |
| | | | | | | | | | | |
| | | | | | Sampling | | | | | |
| Depth to Wate | er Before Sa | mpling: | 3-86 | | | | | | | |
| Sample Metho | odology: | | كساه | | | | | | | |
| Sample Name: | MIN | - 4 | A | | | | | | | |
| sample Date/1 | Time: 3 | 4-22 | 6 | 1.29 | | | | | | |
| Sampler: (V | 112 | | -6 | 1.0 | | | | | | |
| iltered Metal | s Collected: | Y/N) | Filt | er Size: | | | | | | |
| Sample Observ | | U | | 012.01 | | | | | | |
| Parameters: | | ^ | | | | | | | | |
| | PF | 45 | | | <u> </u> | | | | | |

o brened

| Well Number: | | D | | | Site: 7 - M - 1 u | 100 ree | | ru - | | |
|----------------------------|-------------------|-----------------------|-----------------|-----------------|--|----------------------------|------------|-------------------------|--------------------------------|------------|
| Field Staff: MM | | | | | Site: 7 - M - 1 u | し | 255 | | | |
| Well depth (ft b | gs): 14. | 73 | | | Purge equipment: | | Diameter | Gal per ft | | |
| Depth to water | | | | | Propertim | Migatyp | (2") | 0.163 | | |
| Water Column [| | | | | Pump Intake Depth | h: i i | 3" | 0.367 | | |
| Well Diameter (| | | | | Pump Intake Depti | 感 10 | | | 4" | 0.653 |
| Well Volume (ga | | | | | Water quality meter: | | | | 6" | 1.469 |
| Screened Interv | al (ft bes): | 5-15 175 | 124 | | VSI < | 56 | | | 8" | 2.611 |
| Surceries | | , () 13 | (31 / | | Field Paramet | | | | | |
| Depth to Total | | | | | | | | | | |
| Time | Water (ft bgs) | Flow Rate (mL/min) | Volume (gal) | Temp (deg C) | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | pH (SU) | ORP (mV) | Turbidity (NTU) | Color/Odor |
| Stabilization | N/A | <300 | N/A | +/- 0.1 deg C | +/-5 μS/cm if <1000 μS/cm +/-10 μS/cm if | +/- 0.2 mg/L | +/- 0.1 | +/- 30 mV (optional) | <5 NTUs if metals not filtered | N/A |
| | | | | | >1000 µS/cm | | | | +/- 10% (recommended) | |
| 10:30 | 3-96 | 300 | | 9.8 | 4.44 | 16.73 | 7.37 | 29.7 | | Brewer |
| 10:35 | 9.43 | 300 | | 10.2 | 6.37 | 11-69 | 7.43 | | , | Clear |
| 10:40 | 9.72 | 300 | | 11.7 | 6.74 | 7-85 | 7.47 | 26.6 | | 11 |
| 10:35 | 9.78 | 250 | ĵ | 11-8 | 6-82 | 6.90 | 7.49 | 25.1 | | 14 |
| 10:56 | 9.80 | 250 | | 11.7 | 6.84 | 4.95 | 7.54 | 25.8 | | 11 |
| 10:55 | 9.83 | 250 | | 11.8 | 6.85 | 6.96 | 7.57 | 25.7 | | 7) |
| | | | | | Comment | ts | | | | |
| | | | | ē | Samplinę | g | | | | |
| Depth to Wat | er Before S | ampling: 5 | 3-96 | | | | | | | |
| Sample Meth Sample Name | odology: [| ow F | 100 | | | | | | | |
| Sample Name | : MW | -600 | 10 | | | | | | | |
| Sample Date/ | | 422 | 1 | 1:00 | | | | | | |
| Sampler: W | | 1 | | | | | | | | |
| Filtered Meta | | : Y/N | Fil | ter Size: | | | | | | |
| Sample Obse | | | | | | | | | | |
| Parameters: | | | | | | | | | | |
| | | | | | | | | | | |

| Well Number: 100 - 60 1 | | | | | site: South Milwalke Sunvista Shapping Center | | | | | | |
|---|-------------------|-----------|-----------------|---------------|---|----------------|---|-------------------------|-----------------------------------|----------------|--|
| Field Staff: MCAY COS (STYCSCHY) Well depth (ft bgs): /D. 4) | | | | | Date: 2 3 | 22 | 6253 | | | | |
| | | | | | Purge equipment: | | Diameter | Gal per ft | | | |
| Depth to water | (ft bTOC): j | 4.85 | | | Pro-active | Miega ty | Phody | | (2") | 0.163 | |
| Water Column [| | 4,44 | | | Pump Intake Dept | | - | | 3" 4" | 0.367 0.653 | |
| Well Diameter (| - | | | | | D' | | | | | |
| Well Volume (ga | d): 🔭 . | 77 | | | Water quality met | ęr: | | | 6" | 1.469 | |
| Screened Interv | al (ft bgs): | 5-15 | B65 | | 1/5 | 1556 | 8" | 2.611 | | | |
| | | | | | Field Parame | ters | ., | | | | |
| | Depth to | Flow Rate | Total | Temp | Conductivity | Dissolved | рН | ORP | | | |
| Time | Water (ft bgs) | (mL/min) | Volume (gal) | (deg C) | (mS/cm) | Oxygen (mg/L) | | (mV) | Turbidity (NTU) | Color/Odor | |
| Stabilization | N/A | <300 | N/A | +/- 0.1 deg C | +/-5 μS/cm if <1000 μS/cm +/-10 μS/cm if >1000 μS/cm | - +/- 0.2 mg/L | +/- 0.1 | +/- 30 mV (optional) | <5 NTUs if metals not filtered | N/A | |
| 12/35 | i > 57 | B (0)) | | 11. 2 | | // | | | +/- 10% (recommended) | | |
| | 10.57 | 300 | | 11.5 | 1.00 | 8.40 | 7.17 | 15.5 | 4,417 | Bish | |
| 12:39 | 11 20 | 200 | | 12.0 | 4.99 | 15.12 | 8,00 | 14.4 | | | |
| 12:40 | 11 7- | 300 | | 11.8 | 3 63 | 4.41 | 5-17 | 132 | :*!S | | |
| 12:45 | 11,70 | 300 | | 12.7 | 3.63 | 4.52 | 8.22 | 13.1 | | | |
| 12.50 | | 250 | | 12-8 | 3.37 | 4-50 | 8.43 | 13.1 | | | |
| 2:51 | 11 88 | 25D | | 12.8 | 3.13 | 4.84 | 8-83 | 13.2 | | | |
| 1:00 | 1196 | 250 | | 12-9 | 3.14 | 41.38 | 8.85 | 13.2 | | | |
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| | | | | *** | Comment | :s | *************************************** | *** | | ` | |
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| | | | | | Sampling | PFAS | PA | Н | | | |
| Depth to Wat | | | 10.41 | | | | i (| (A) | | | |
| Sample Meth | | -ow 1 | Flow | | | | | | | | |
| Sample Name | | -60 | | | | | | | | | |
| Sample Date/ | Time: 2. | 3.22 | 1:0 | MED | | | | | | | |
| Sampler: M | 5 | | | | | | | | | | |
| Filtered Meta | s Collected | : Y/N | Fil | ter Size: | | | | | | | |
| Sample Obser | | | | | | | | | | | |
| Parameters: | | | | | | | | | | | |
| | PF | A'S | | | | | | | | | |

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, Il in MM

| Well Number: | | | | | Date: 2-5-12 Z-4-22 Project #: 6255 | | | | | | | |
|---------------------------------------|--|-----------|--------|---------------|---|---------------|------------|-------------|-----------------------|------------|--|--|
| Field Staff: M | | | | | Date: 2-5- 7-72 Project #: 6255 | | | | | | | |
| Well depth (ft b | gs): / | 14.1 | 80 | | Purge equipment: Diameter Gal per Proactive Mega typhoon (2") 0.163 | | | | | | | |
| Depth to water | (ft bTOC): / | 0.30 | | | Proaction | e Mein | (2") | 0.163 | | | | |
| Water Column (| Depth (ft): | 1.50 | | | Pump Intake Depth | 1: ; | 3" | 0.367 | | | | |
| Well Diameter (| | | | | | 10 | 4" | 0.653 | | | | |
| Well Volume (ga | | | | | Water quality meter | er: | | | 6" | 1.469 | | |
| Screened Interv | al (ft bgs): 5 | -15, BC | 15 | | 4515 | 56 | | | 8" | 2.611 | | |
| | | | | • | Field Parameters | | | | | | | |
| | Depth to | Flow Rate | Total | Temp | Conductivity | Dissolved | | ODD | | | | |
| Time | Water | (mL/min) | Volume | (deg C) | (mS/cm) | Oxygen (mg/L) | pH (SU) | ORP (mV) | Turbidity (NTU) | Color/Odor | | |
| | (ft bgs) | | (gal) | 10, | +/-5 µS/cm if | | (50) | (, | <5 NTUs if metals not | | | |
| | | | | l i | <1000 μS/cm | | | +/- 30 mV | filtered | | | |
| Stabilization | N/A | <300 | N/A | +/- 0.1 deg C | +/-10 µS/cm if | +/- 0.2 mg/L | +/- 0.1 | | - Interes | N/A | | |
| | | | | | >1000 μS/cm | | | (optional) | +/- 10% (recommended) | | | |
| 11:45 | 4.52 | 300 | | 10.8 | 4-55 | 27.19 | 6.86 | 29.2 | | Clear | | |
| 11:50 | 503 | 360 | | 12:00 | 5.49 | 12:50 | 7.11 | 30.9 | | 11 | | |
| 11:55 | 5.10 | 250 | | 12.80 | 5.57 | 12.19 | 7.18 | 32-4 | | 1 | | |
| 12:00 | 5.25 | 250 | | 12.8 | 5.64 | 10:44 | | 3.2.5 | | 4 | | |
| 12:05 | 5.33 | 300 | | 12.8 | 5.54 | 10.69 | 2.23 | 32-3 | | 11 | | |
| 12:10 | 6.00 | 300 | | 13.0 | 5.71 | 10.97 | | | | " | | |
| 12:15 | 4.33 | 300 | | 13.2 | 5.77 | 10.77 | | | _ | 1 | | |
| 12:20 | 7.02 | 300 | | 13-3 | 5.77 | 10.74 | | | | 4 | | |
| 12:25 | | | | | | | | | | | | |
| 12:30 | | | | | | | | | | | | |
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| 200 CONT | | . / | - | | Sampling | E | | | | | | |
| Depth to Water Before Sampling: 4.5 つ | | | | | | | | | | | | |
| Sample Metho | | | Tow | | | | | | | | | |
| Sample Name: MW - 602 | | | | | | | | | | | | |
| Sample Date/Time: 2-4-22 /2:25 | | | | | | | | | | | | |
| Sampler: N | | | | | | | | | | | | |
| Filtered Metal | COLUMN TO SERVICE STREET, STRE | : Y/M |) Filt | ter Size: | | | | | | | | |
| Sample Observations | | | | | | | | | | | | |
| Parameters: | | | | | | | | | | | | |
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| Well Number: | nw-(| 003 | | | Site: S. Milwewkey Survey Shording Contr | | | | | | |
|---|-------------------|-----------------------|-----------------|-----------------|---|----------------------------|------------|-------------|--------------------------------|------------|--|
| Field Staff: [\(\lambda\) | | | w | | Site: S. Milwowker Sunrice Sheppine Center Date: 2 3 22 Project #: 6255 | | | | | | |
| Well depth (ft b | gs): 6 | 0 14.8 | (D | | Purge equipment: | | Diameter | Gal per ft | | | |
| Depth to water | | 1.54 | | | Proactive Mega typhion | | | | (2") | 0.163 | |
| Water Column D | epth (ft): | 8.26 | | | Pump Intake Depth | | | 3" | 0.367 | | |
| Well Diameter (i | | | | | Pump Intake Depth | | | 4" | 0.653 | | |
| Well Volume (ga | | 15 | | | Water quality mete | r. | | | 6" | 1.469 | |
| Screened Interva | | 5'-15' | 36,5 | | YSI | 550 | | | 8" | 2.611 | |
| | (| , ,, | , , , | | Field Paramet | | | | | | |
| | Depth to | | Total | | | | | | | | |
| Time | Water (ft bgs) | Flow Rate (mL/min) | Volume (gal) | Temp (deg C) | Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | pH (SU) | ORP (mV) | Turbidity (NTU) | Color/Odor | |
| Stabilization | N/A | <300 | N/A | +/- 0.1 deg C | +/-5 μS/cm if <1000 μS/cm | +/- 0.2 mg/L | +/- 0.1 | +/- 30 mV | <5 NTUs if metals not filtered | N/A | |
| | | | .,, | | +/-10 μS/cm if >1000 μS/cm | | | (optional) | +/- 10% (recommended) | , | |
| 1.35 | 6.6 | 250 | | 8.4 | 2.94 | 16.76 | 8.55 | 7.3 | | clear | |
| 1:40 | 7-20 | 250 | | 8-9 | 3.05 | 11.15 | 8-77 | 12.5 | | // | |
| 1.45 | 7.54 | 360 | | 8-2 | 3.06 | 10.28 | 8-76 | 14.9 | , | 11 | |
| 1:30 | 7.71 | 300 | | 8.3 | 3.07 | 10.20 | 8-75 | 14.6 | | 1> | |
| 例 1755 | 7.79 | 250 | | 8-3 | 3.09 | 10.19 | 8.74 | 14-6 | | £1 | |
| 2:00 | | | | | | | | | | | |
| 2.05 | | | | | | | | | | | |
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| | | | | | Sampling | | | | | | |
| Depth to Wat | er Before Sa | ampling: (| 0.69 | | | | | | | | |
| Sample Meth | | Low F | -ان، | | | | | | | | |
| Sample Name | | | | | | | | | | | |
| Sample Date/Time: 2.3.22 2.00 pm | | | | | | | | | | | |
| Sampler: MU | | | | | | | | | | | |
| Filtered Metals Collected: Y/N Filter Size: | | | | | | | | | | | |
| Sample Observations | | | | | | | | | | | |
| Parameters: | | PFA | ζ | | | | | | | | |