

October 7, 2019

Mr. Nathan Willis Wisconsin Department of Natural Resources PO Box 7921 Madison, WI 53707-7921

Subject: Supplemental PFAS Sampling for WPDES Permit # WI 0048747-04-0 Renewal Application

Dear Mr. Willis:

The Dane Country Regional Airport (Airport) is submitting the attached supplemental sampling data for select PFAS compounds as requested by the Wisconsin Department of Natural Resources as part of the Wisconsin Pollution Discharge Elimination System (WPDES) permit application. **Table 1** summarizes the supplemental sampling the Airport conducted for PFAS compounds.

| Sample Date | Precipitation | Outfalls Sampled |
|----------------|---------------------|-------------------------|
| April 9, 2019 | 0.0 | 003, 032 |
| April 10, 2019 | 0.32 (melting snow) | 001, 003, 032, 034, 102 |
| May 14, 2019 | 0.0 | 001, 003, 032, 101 |
| June 4, 2019 | 0.53 | 003, 032, 101, 102 |

The location of the outfalls and their drainage areas are shown in **Attachment A**. The drainage area for outfalls 001, 002, and 034 is the same and includes the west ramp and the two deicing pads located adjacent to the south ramp. Outfall 001 is for stormwater runoff during the non-deicing season (typically mid-May to mid-October) and for runoff during the deicing season that meets the discharge requirements of the WPDES permit. Water that does not meet the discharge requirements of the WPDES permit, is discharged to outfall 002 (a sanitary sewer) after being pumped to underground storage tanks. Runoff that is pumped to the underground storage tanks and then found to meet the WPDES permit discharge requirements, can be discharge to outfall 034. Outfall 003 drains an area north and east of the west ramp. The Outfall 003 drainage area includes taxiways, runways, and infield areas. Outfall 032 drains an area east of the west ramp and includes the east ramp, the south ramp, part of the Truax Field Wisconsin Air National Guard (WI ANG) base, taxiways, runways, and infield areas. The Outfall 101 drainage area includes the WI ANG fuel tanks and fuel transfer areas. The Outfall 102 drainage area includes the containment area for the Wisconsin Army National Guard base fueling truck parking area.

Samples were collected by Mead & Hunt, Inc. and Airport personnel following sampling procedures in the Interstate Technology Regulatory Council's Site Characterization Considerations, Sampling Precautions, and Laboratory Analytical Methods for Per- and Polyfluoroalkyl Substances. Samples were sent to Vista Analytical Laboratory for PFAS analysis using the Modified EPA Method 537. The laboratory reports from the testing are presented in **Attachment B**. A summary of the laboratory results is presented in **Attachment C**.

Please contact me with any questions or comments on this information.

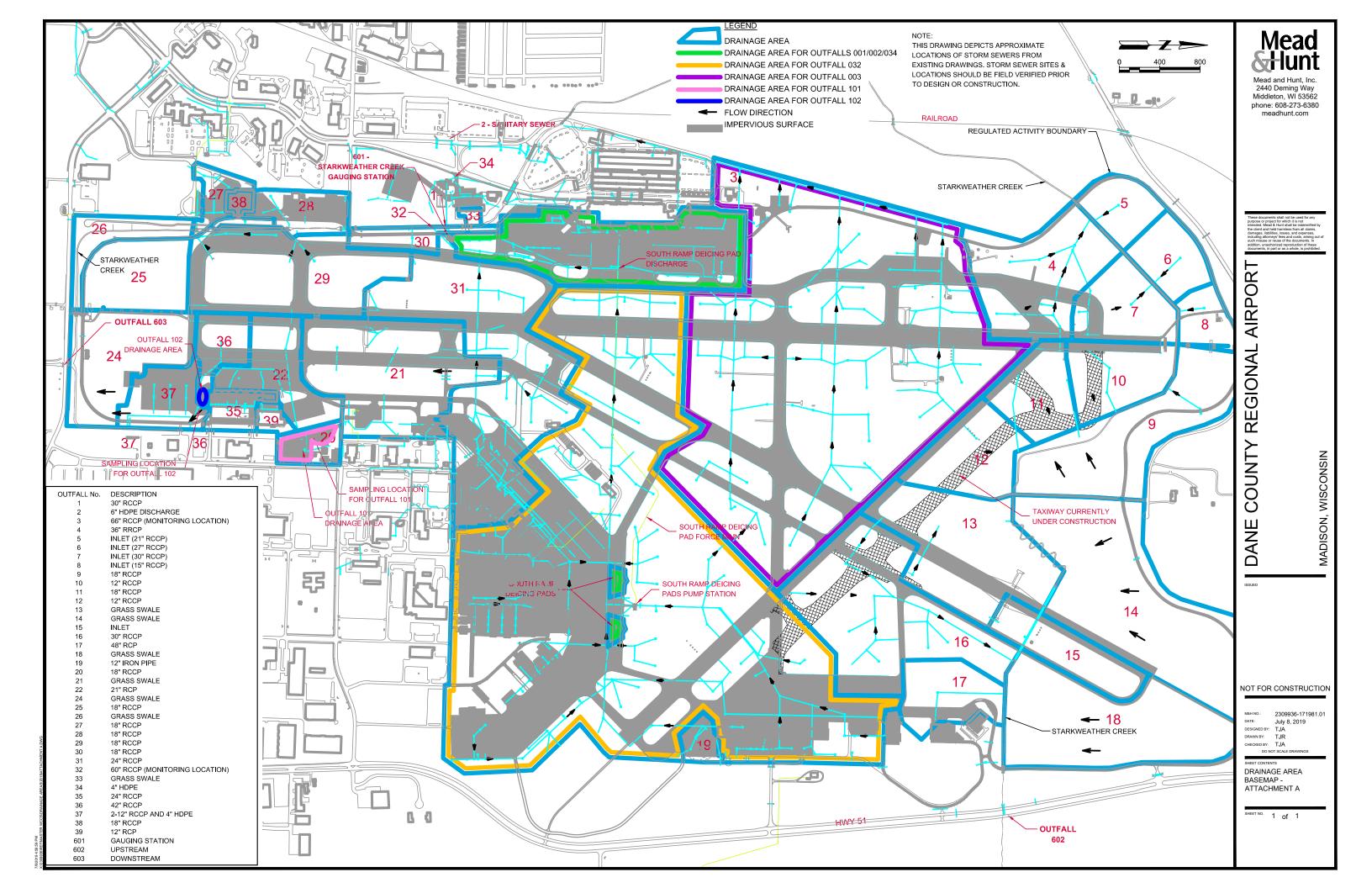
Sincerely,

Dane County Regional Airport

Michael J Kirchner, PE Director of Engineering

Attachments

cc: Lt. Col. Dan Statz, 115 FW WI ANG Tim Astfalk, Mead & Hunt, Inc.



MSN PFAS Sampling Results by Outfall

| Date | Outfall | Event | PFBA | PFPeA | PFBS | 4:2FTS | ΡΕΗγΔ | PFPeS | PFHpA | PFHxS | 6.2 FT | 5 PFOA | PFHpS | ρενα | PFOSA | PFOS | PFDA | 8:2 FTS | PFNS | MeFOSAA | EtFOSAA | PFUnA | PFDS | PFDoA | MeFOSA | PFTrDA | PFTeDA | EtFOSA | PFHxDA | PFODA | MeEOSE | EtFOSE | GenX | ADONA | F-53B Major | E-53B Mino | r PEDOS | 10.2 FTS |
|---|---|---|---|---|--|--|---|---|--|---|---|--|---|--|---|--|---|---|--|---|---|---|--|--|--|--|--|--|--|---|--|--|--|---|---|--|---|--|
| Dute | outian | LVCIIC | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) |
| 9-Apr-19 | 3 | Dry | 19.1 | 19.5 | 8.36 | ND | 23.40 | 1 0. 1 | 8.71 | 61.70 | ND | 17.6 | ND | ND | ND | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10-Apr-19 | 3 | Wet | 17.7 | 19.9 | 9.61 | ND | 23.90 | | | 94.30 | ND | 14.5 | ND | ND | ND | 39 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 14-May-19 | 3 | Dry | 14.6 | 18.3 | 8.06 | ND | 22.20 | | | 71.90 | ND | 13.2 | ND | ND | ND | 38.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Jun-19 | 3 | Wet | 11.8 | 10.7 | 4.70 | ND | 15.90 | | 5.54 | 67.10 | ND | 8.98 | ND | ND | ND | 23.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Average | | | | | 7.68 | | | | | 73.75 | | 13.57 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | I |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Outfall | Event | PFBA | PFPeA | PFBS | 4:2FTS | PFHxA | PFPeS | PFHpA | PFHxS | 6:2 FTS | 5 PFOA | PFHpS | PFNA | PFOSA | PFOS | PFDA | 8:2 FTS | PFNS | MeFOSAA | EtFOSAA | PFUnA | PFDS | PFDoA | MeFOSA | PFTrDA | PFTeDA | EtFOSA | PFHxDA | PFODA | MeFOSE | EtFOSE | GenX | ADONA | F-53B Major | F-53B Mino | r PFDoS | 10:2 FTS |
| | | | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | | (ng/l) |
| 9-Apr-19 | 32 | Dry | 30.3 | 70.1 | 43.7 | ND | 92.80 | 50.00 | 38.00 | 332.00 | 102.00 | 82.80 | 13.40 | 5.81 | 7.46 | 631.0 | ND | 32.80 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10-Apr-19 | 32 | Wet | 31.2 | 70.7 | 47.4 | ND | 94.60 | 51.20 | 37.20 | 331.00 | 95.80 | 87.90 | 13.80 | 5.29 | 7.35 | 641.0 | ND | 34.30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 14-May-19 | 32 | Dry | 31.9 | 75.4 | 45.1 | ND | 89.80 | 56.60 | 40.50 | 288.00 | 93.80 | 84.90 | 16.20 | 7.01 | 10.80 | 815.0 | ND | 34.60 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Jun-19 | 32 | Wet | 20.2 | 53.4 | 29.8 | ND | 65.40 | 48.40 | 27.60 | 268.00 | 77.70 | 50.40 | 11.90 | 4.96 | 12.20 | 562.0 | ND | 39.10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Average | | | 28.4 | 67.4 | 41.5 | | 85.65 | 51.55 | 35.83 | 304.75 | 92.33 | 76.50 | 13.83 | 5.77 | 9.45 | 662.3 | | 35.20 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Outfall | Event | PFBA | PFPeA | PFBS | 4:2FTS | PFHxA | PFPeS | PFHpA | PFHxS | 6:2 FTS | 5 PFOA | PFHpS | PFNA | PFOSA | PFOS | PFDA | 8:2 FTS | PFNS | MeFOSAA | EtFOSAA | PFUnA | PFDS | PFDoA | MeFOSA | PFTrDA | PFTeDA | EtFOSA | PFHxDA | PFODA | MeFOSE | EtFOSE | GenX | ADONA | F-53B Major | F-53B Mino | r PFDoS | 10:2 FTS |
| | | | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) | (ng/l) |
| 10-Apr-19 | 1 | Wet | 24.9 | 74 | 12.7 | ND | 108 | 16.5 | 36.6 | 76.7 | 30.7 | | ND | 12.7 | ND | 89.4 | 36.5 | ND | ND | ND | ND | ND | ND | 12.20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ND | | |
| 14-May-19 | 1 | Dry | 36.6 | 116 | 12.3 | ND | 155 | 11.5 | 43.1 | 63.3 | 22.1 | 107 | 4.63 | 11.1 | ND | 88.2 | 28.9 | ND | ND | ND | ND | ND | ND | 9.59 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 14-May-19 Average | 1 | . Dry | 36.6 30.75 | | 12.3 12.5 | ND | 155 131.5 | | 43.1 39.85 | | | 107 97.85 | | | ND | | 28.9 32.7 | ND | ND | ND | ND | ND | ND | 9.59 10.90 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1 | , , | 30.75 | 95 | 12.5 | · | 131.5 | 14 | 39.85 | 70 | 26.4 | 97.85 | 2.32 | 11.9 | | 88.8 | 32.7 | - | | | - | | | 10.90 | | - I. | - | - | - | | | | | | | | | - |
| | 1 Outfall | , , | | 95 PFPeA | 12.5 PFBS | 4:2FTS | 131.5 PFHxA | 14 PFPeS | 39.85 PFHpA | 70 PFHxS | 26.4 6:2 FTS | 97.85 6 PFOA | 2.32 PFHpS | 11.9 PFNA | PFOSA | 88.8 PFOS | | ND 8:2 FTS | | ND MeFOSAA | EtFOSAA | PFUnA | PFDS | 10.90 PFDoA | ND MeFOSA | PFTrDA | PFTeDA | EtFOSA | ND PFHxDA | PFODA | | EtFOSE | GenX | ADONA | F-53B Major | F-53B Mino | r PFDoS | 10:2 FTS |
| Average Date | | Event | 30.75 PFBA (ng/l) | 95 PFPeA (ng/l) | 12.5 PFBS (ng/l) | 4:2FTS (ng/l) | 131.5 PFHxA (ng/l) | 14 PFPeS (ng/l) | 39.85 PFHpA (ng/l) | 70 PFHxS (ng/l) | 26.4 6:2 FTS (ng/l) | 97.85 97.85 (ng/l) | 2.32 PFHpS (ng/l) | 11.9 PFNA (ng/l) | PFOSA (ng/l) | 88.8 PFOS (ng/l) | 32.7 PFDA (ng/l) | 8:2 FTS (ng/l) | PFNS (ng/l) | MeFOSAA (ng/l) | EtFOSAA (ng/l) | PFUnA (ng/l) | PFDS (ng/l) | 10.90 PFDoA (ng/l) | MeFOSA (ng/l) | PFTrDA (ng/l) | PFTeDA (ng/l) | EtFOSA | PFHxDA (ng/l) | PFODA (ng/l) | MeFOSE (ng/l) | EtFOSE (ng/l) | GenX (ng/l) | ADONA (ng/l) | F-53B Major (ng/l) | F-53B Mino (ng/l) | r PFDoS (ng/l) | 10:2 FTS (ng/l) |
| Average | | , , | 30.75 PFBA | 95 PFPeA | 12.5 PFBS | 4:2FTS | 131.5 PFHxA | 14 PFPeS | 39.85 PFHpA | 70 PFHxS | 26.4 6:2 FTS | 97.85 6 PFOA | 2.32 PFHpS | 11.9 PFNA | PFOSA | 88.8 PFOS | 32.7 | - | PFNS | MeFOSAA | EtFOSAA | PFUnA | PFDS | 10.90 PFDoA | MeFOSA | PFTrDA | PFTeDA | EtFOSA | PFHxDA | PFODA | MeFOSE | EtFOSE | GenX | ADONA | F-53B Major | F-53B Mino | r PFDoS | 10:2 FTS |
| Average Date 10-Apr-19 | 34 | Event Wet | 30.75 PFBA (ng/l) 22.5 | 95 PFPeA (ng/l) 60.8 | 12.5 PFBS (ng/l) 7.89 | 4:2FTS (ng/l) ND | 131.5 PFHxA (ng/l) 102 | 14 PFPeS (ng/l) 9.02 | 39.85 PFHpA (ng/l) 34.4 | 70 PFHxS (ng/l) 43.5 | 26.4 6:2 FTS (ng/l) 24.1 | 97.85 6 PFOA (ng/l) 127 | 2.32 PFHpS (ng/l) ND | 11.9 PFNA (ng/l) 28.2 | PFOSA (ng/l) ND | 88.8 PFOS (ng/l) 59.8 | 32.7 PFDA (ng/l) 121 | 8:2 FTS (ng/l) ND | PFNS (ng/l) ND | MeFOSAA (ng/l) ND | EtFOSAA (ng/l) ND | PFUnA (ng/l) 11.4 | PFDS (ng/l) ND | 10.90 PFDoA (ng/l) 33.2 | MeFOSA (ng/l) ND | PFTrDA (ng/l) ND | PFTeDA (ng/l) ND | EtFOSA (ng/l) ND | PFHxDA (ng/I) ND | PFODA (ng/l) ND | MeFOSE (ng/l) ND | EtFOSE (ng/l) ND | GenX (ng/l) ND | ADONA (ng/l) ND | F-53B Major (ng/l) ND | F-53B Mino (ng/l) ND | r PFDoS (ng/l) ND | 10:2 FTS (ng/l) ND |
| Average Date | 34 | Event | 30.75 PFBA (ng/l) 22.5 PFBA | 95 PFPeA (ng/l) 60.8 PFPeA | 12.5 PFBS (ng/l) 7.89 PFBS | 4:2FTS (ng/l) ND 4:2FTS | 131.5 PFHxA (ng/l) 102 PFHxA | 14 PFPeS (ng/l) 9.02 PFPeS | 39.85 PFHpA (ng/l) 34.4 PFHpA | 70 PFHxS (ng/l) 43.5 PFHxS | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS | 97.85 5 PFOA (ng/l) 127 5 PFOA | 2.32 PFHpS (ng/l) ND PFHpS | 11.9 PFNA (ng/l) 28.2 PFNA | PFOSA (ng/l) ND PFOSA | 88.8 PFOS (ng/l) 59.8 PFOS | 32.7 PFDA (ng/l) | 8:2 FTS (ng/l) ND 8:2 FTS | PFNS (ng/l) ND PFNS | MeFOSAA (ng/l) ND MeFOSAA | EtFOSAA (ng/l) ND EtFOSAA | PFUnA (ng/l) 11.4 PFUnA | PFDS (ng/l) ND PFDS | 10.90 PFDoA (ng/l) 33.2 PFDoA | MeFOSA (ng/l) ND MeFOSA | PFTrDA (ng/l) ND PFTrDA | PFTeDA (ng/l) ND PFTeDA | EtFOSA (ng/l) ND | PFHxDA (ng/l) ND PFHxDA | PFODA (ng/l) ND PFODA | MeFOSE (ng/l) ND MeFOSE | EtFOSE (ng/l) ND EtFOSE | GenX (ng/l) ND GenX | ADONA (ng/l) ND ADONA | F-53B Major (ng/l) ND F-53B Major | F-53B Mino (ng/l) ND F-53B Mino | r PFDoS (ng/l) ND r PFDoS | 10:2 FTS (ng/l) ND 10:2 FTS |
| Average Date 10-Apr-19 Date | 34 Outfall | Event Wet Event | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) | 4:2FTS (ng/l) ND 4:2FTS (ng/l) | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) | 97.85 5 PFOA (ng/l) 127 5 PFOA (ng/l) | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) | PFOSA (ng/l) ND PFOSA (ng/l) | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) | 32.7 PFDA (ng/l) 121 PFDA (ng/l) | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) | PFNS (ng/l) ND PFNS (ng/l) | MeFOSAA (ng/l) ND MeFOSAA (ng/l) | EtFOSAA (ng/l) ND EtFOSAA (ng/l) | PFUnA (ng/l) 11.4 PFUnA (ng/l) | PFDS (ng/l) ND PFDS (ng/l) | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) | MeFOSA (ng/l) ND MeFOSA (ng/l) | PFTrDA (ng/l) ND PFTrDA (ng/l) | PFTeDA (ng/l) ND PFTeDA (ng/l) | EtFOSA (ng/l) ND EtFOSA (ng/l) | PFHxDA (ng/l) ND PFHxDA (ng/l) | PFODA (ng/l) ND PFODA (ng/l) | MeFOSE (ng/l) ND MeFOSE (ng/l) | EtFOSE (ng/l) ND EtFOSE (ng/l) | GenX (ng/l) ND GenX (ng/l) | ADONA (ng/l) ND ADONA (ng/l) | F-53B Major (ng/l) ND F-53B Major (ng/l) | F-53B Mino (ng/l) ND F-53B Mino (ng/l) | r PFDoS (ng/l) ND r PFDoS (ng/l) | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) |
| Average Date 10-Apr-19 Date 14-May-19 | 34 Outfall 101 | Event Wet Event Wet | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) ND | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND | 97.85 PFOA (ng/l) 127 S PFOA (ng/l) ND | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND | PFOSA (ng/l) ND PFOSA (ng/l) ND | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND | PFNS (ng/l) ND PFNS (ng/l) ND | MeFOSAA (ng/I) ND MeFOSAA (ng/I) ND | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND | PFDS (ng/l) ND PFDS (ng/l) ND | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND | MeFOSA (ng/l) ND MeFOSA (ng/l) ND | PFTrDA (ng/l) ND PFTrDA (ng/l) ND | PFTeDA (ng/l) ND PFTeDA (ng/l) ND | EtFOSA (ng/l) ND EtFOSA (ng/l) ND | PFHxDA (ng/l) ND PFHxDA (ng/l) ND | PFODA (ng/l) ND PFODA (ng/l) ND | MeFOSE (ng/l) ND MeFOSE (ng/l) ND | EtFOSE (ng/l) ND EtFOSE (ng/l) ND | GenX (ng/l) ND GenX (ng/l) ND | ADONA (ng/l) ND ADONA (ng/l) ND | F-53B Major (ng/l) ND F-53B Major (ng/l) ND | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND | r PFDoS (ng/l) ND r PFDoS (ng/l) ND | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND |
| Average Date 10-Apr-19 Date 14-May-19 4-Jun-19 | 34 Outfall 101 | Event Wet Event | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 ND | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) | 4:2FTS (ng/l) ND 4:2FTS (ng/l) | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) | 97.85 5 PFOA (ng/l) 127 5 PFOA (ng/l) | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) | PFOSA (ng/l) ND PFOSA (ng/l) | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) | 32.7 PFDA (ng/l) 121 PFDA (ng/l) | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) | PFNS (ng/l) ND PFNS (ng/l) | MeFOSAA (ng/l) ND MeFOSAA (ng/l) | EtFOSAA (ng/l) ND EtFOSAA (ng/l) | PFUnA (ng/l) 11.4 PFUnA (ng/l) | PFDS (ng/l) ND PFDS (ng/l) | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) | MeFOSA (ng/l) ND MeFOSA (ng/l) | PFTrDA (ng/l) ND PFTrDA (ng/l) | PFTeDA (ng/l) ND PFTeDA (ng/l) | EtFOSA (ng/l) ND EtFOSA (ng/l) | PFHxDA (ng/l) ND PFHxDA (ng/l) | PFODA (ng/l) ND PFODA (ng/l) | MeFOSE (ng/l) ND MeFOSE (ng/l) | EtFOSE (ng/l) ND EtFOSE (ng/l) | GenX (ng/l) ND GenX (ng/l) | ADONA (ng/l) ND ADONA (ng/l) | F-53B Major (ng/l) ND F-53B Major (ng/l) | F-53B Mino (ng/l) ND F-53B Mino (ng/l) | r PFDoS (ng/l) ND r PFDoS (ng/l) | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) |
| Average Date 10-Apr-19 Date 14-May-19 | 34 Outfall 101 | Event Wet Event Wet | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) ND | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND | 97.85 PFOA (ng/l) 127 S PFOA (ng/l) ND | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND | PFOSA (ng/l) ND PFOSA (ng/l) ND | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND | PFNS (ng/l) ND PFNS (ng/l) ND | MeFOSAA (ng/I) ND MeFOSAA (ng/I) ND | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND | PFDS (ng/l) ND PFDS (ng/l) ND | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND | MeFOSA (ng/l) ND MeFOSA (ng/l) ND | PFTrDA (ng/l) ND PFTrDA (ng/l) ND | PFTeDA (ng/l) ND PFTeDA (ng/l) ND | EtFOSA (ng/l) ND EtFOSA (ng/l) ND | PFHxDA (ng/l) ND PFHxDA (ng/l) ND | PFODA (ng/l) ND PFODA (ng/l) ND | MeFOSE (ng/l) ND MeFOSE (ng/l) ND | EtFOSE (ng/l) ND EtFOSE (ng/l) ND | GenX (ng/l) ND GenX (ng/l) ND | ADONA (ng/l) ND ADONA (ng/l) ND | F-53B Major (ng/l) ND F-53B Major (ng/l) ND | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND | r PFDoS (ng/l) ND r PFDoS (ng/l) ND | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND |
| Average Date 10-Apr-19 Date 14-May-19 Average | 34 Outfall 101 101 | Event Wet Event Wet Wet | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 ND 2.33 | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND ND | 12.5 (ng/l) 7.89 PFBS (ng/l) ND ND | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND ND | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND ND | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND ND | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND ND | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND ND | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND ND | 97.85 PFOA (ng/l) 127 PFOA (ng/l) ND ND | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND ND | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND ND | PFOSA (ng/l) ND PFOSA (ng/l) ND ND | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND ND | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND ND | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND ND | PFNS (ng/l) ND PFNS (ng/l) ND ND | MeFOSAA (ng/l) ND MeFOSAA (ng/l) ND ND | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND ND | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND ND | PFDS (ng/l) ND PFDS (ng/l) ND ND | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND ND | MeFOSA (ng/l) ND MeFOSA (ng/l) ND ND | PFTrDA (ng/l) ND PFTrDA (ng/l) ND ND | PFTeDA (ng/l) ND PFTeDA (ng/l) ND | EtFOSA (ng/l) ND EtFOSA (ng/l) ND ND | PFHxDA (ng/l) ND PFHxDA (ng/l) ND ND | PFODA (ng/l) ND PFODA (ng/l) ND ND | MeFOSE (ng/l) ND MeFOSE (ng/l) ND ND | EtFOSE (ng/l) ND EtFOSE (ng/l) ND ND | GenX (ng/l) ND GenX (ng/l) ND ND | ADONA (ng/l) ND ADONA (ng/l) ND ND | F-53B Major (ng/l) ND F-53B Major (ng/l) ND ND | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND ND | r PFDoS (ng/l) ND r PFDoS (ng/l) ND ND | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND ND |
| Average Date 10-Apr-19 Date 14-May-19 4-Jun-19 | 34 Outfall 101 | Event Wet Event Wet Wet | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 ND 2.33 PFBA | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND ND PFPeA | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) ND ND PFBS | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND ND 4:2FTS | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND ND PFHxA | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND ND PFPeS | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND ND | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND ND | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND ND 6:2 FTS | 97.85 5 PFOA (ng/l) 127 5 PFOA (ng/l) ND ND 5 PFOA | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND ND PFHpS | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND ND | PFOSA (ng/I) ND PFOSA (ng/I) ND ND | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND | PFNS (ng/l) ND PFNS (ng/l) ND ND PFNS | MeFOSAA (ng/l) ND MeFOSAA (ng/l) ND ND | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND ND EtFOSAA | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND ND | PFDS (ng/l) ND PFDS (ng/l) ND ND PFDS | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND ND PFDoA | MeFOSA (ng/l) ND MeFOSA (ng/l) ND ND MeFOSA | PFTrDA (ng/l) ND PFTrDA (ng/l) ND ND | PFTeDA (ng/l) ND PFTeDA (ng/l) ND ND | EtFOSA (ng/l) ND EtFOSA (ng/l) ND ND | PFHxDA (ng/l) ND PFHxDA (ng/l) ND ND | PFODA (ng/l) ND PFODA (ng/l) ND ND PFODA | MeFOSE (ng/l) ND MeFOSE (ng/l) ND ND MeFOSE | EtFOSE (ng/l) ND EtFOSE (ng/l) ND ND EtFOSE | GenX (ng/l) ND GenX (ng/l) ND ND GenX | ADONA (ng/l) ND ADONA (ng/l) ND ND ADONA | F-53B Major (ng/l) ND F-53B Major (ng/l) ND F-53B Major | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND ND F-53B Mino | r PFDoS (ng/l) ND r PFDoS (ng/l) ND ND | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND ND 10:2 FTS |
| Average Date 10-Apr-19 Date 14-May-19 Average Date Date | 34 Outfall 101 101 Outfall | Event Wet Wet Wet Event | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 ND 2.33 PFBA (ng/l) | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND ND PFPeA (ng/l) | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) ND ND PFBS (ng/l) | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND 4:2FTS (ng/l) | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND PFHxA (ng/l) | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND PFPeS (ng/l) | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND PFHpA (ng/l) | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND ND PFHxS (ng/l) | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND ND 6:2 FTS (ng/l) | 97.85 5 PFOA (ng/l) 127 5 PFOA (ng/l) ND ND 5 PFOA (ng/l) | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND PFHpS (ng/l) | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND PFNA (ng/l) | PFOSA (ng/I) ND PFOSA (ng/I) ND PFOSA (ng/I) | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND ND PFOS (ng/l) | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND ND PFDA (ng/l) | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND ND 8:2 FTS (ng/l) | PFNS (ng/l) ND PFNS (ng/l) ND ND PFNS (ng/l) | MeFOSAA (ng/l) ND MeFOSAA (ng/l) ND MeFOSAA (ng/l) | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND EtFOSAA (ng/l) | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND ND PFUnA (ng/l) | PFDS (ng/l) ND PFDS (ng/l) ND ND PFDS (ng/l) | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND PFDoA (ng/l) | MeFOSA (ng/l) ND MeFOSA (ng/l) ND MeFOSA (ng/l) | PFTrDA (ng/l) ND PFTrDA (ng/l) ND PFTrDA (ng/l) | PFTeDA (ng/l) ND PFTeDA (ng/l) ND PFTeDA (ng/l) | EtFOSA (ng/l) ND EtFOSA (ng/l) ND ND EtFOSA (ng/l) | PFHxDA (ng/l) ND PFHxDA (ng/l) ND PFHxDA (ng/l) | PFODA (ng/l) ND PFODA (ng/l) ND ND PFODA (ng/l) | MeFOSE (ng/l) ND MeFOSE (ng/l) ND MeFOSE (ng/l) | EtFOSE (ng/l) ND EtFOSE (ng/l) ND ND EtFOSE (ng/l) | GenX (ng/l) ND GenX (ng/l) ND ND GenX (ng/l) | ADONA (ng/l) ND ADONA (ng/l) ND ADONA (ng/l) | F-53B Major (ng/l) ND F-53B Major (ng/l) ND F-53B Major (ng/l) | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND F-53B Mino (ng/l) | r PFDoS (ng/l) ND r PFDoS (ng/l) ND ND r PFDoS (ng/l) | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) |
| Average Date 10-Apr-19 Date 14-May-19 Average Date Date 10-Apr-19 | 34 Outfall 101 101 Outfall 102 | Event Wet Wet Wet Event Event Wet | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 ND 2.33 PFBA (ng/l) 8.73 | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND PFPeA (ng/l) ND ND | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) ND PFBS (ng/l) ND | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND PFHxA (ng/l) 4.67 | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND PFPeS (ng/l) ND | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND PFHpA (ng/l) ND | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND PFHxS (ng/l) ND ND | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND ND 6:2 FTS (ng/l) 38.4 | 97.85 PFOA (ng/l) 127 PFOA (ng/l) ND ND S PFOA (ng/l) ND ND | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND PFHpS (ng/l) ND | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND PFNA (ng/l) ND | PFOSA (ng/l) ND PFOSA (ng/l) ND PFOSA (ng/l) ND | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND ND PFOS (ng/l) 14.5 | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND PFDA (ng/l) ND | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND | PFNS (ng/l) ND PFNS (ng/l) ND ND PFNS (ng/l) ND | MeFOSAA (ng/l) ND MeFOSAA (ng/l) ND MeFOSAA (ng/l) ND | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND PFUnA (ng/l) ND | PFDS (ng/l) ND PFDS (ng/l) ND ND PFDS (ng/l) ND | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND PFDoA (ng/l) ND | MeFOSA (ng/l) ND MeFOSA (ng/l) ND MeFOSA (ng/l) ND | PFTrDA (ng/l) ND PFTrDA (ng/l) ND PFTrDA (ng/l) ND | PFTeDA (ng/l) ND PFTeDA (ng/l) ND PFTeDA (ng/l) ND | EtFOSA (ng/l) ND EtFOSA (ng/l) ND ND EtFOSA (ng/l) ND | PFHxDA (ng/l) ND PFHxDA (ng/l) ND PFHxDA (ng/l) ND | PFODA (ng/l) ND PFODA (ng/l) ND ND PFODA (ng/l) ND | MeFOSE (ng/l) ND MeFOSE (ng/l) ND MeFOSE (ng/l) ND | EtFOSE (ng/l) ND EtFOSE (ng/l) ND EtFOSE (ng/l) ND | GenX (ng/l) ND GenX (ng/l) ND ND GenX (ng/l) ND | ADONA (ng/l) ND ADONA (ng/l) ND ADONA (ng/l) ND | F-53B Major (ng/l) ND F-53B Major (ng/l) ND F-53B Major (ng/l) ND | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND | r PFDoS (ng/l) ND r PFDoS (ng/l) ND ND r PFDoS (ng/l) ND | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND |
| Average Date 10-Apr-19 Date 14-May-19 Average Date Date | 34 Outfall 101 101 Outfall 102 | Event Wet Wet Wet Event | 30.75 PFBA (ng/l) 22.5 PFBA (ng/l) 4.65 ND 2.33 PFBA (ng/l) | 95 PFPeA (ng/l) 60.8 PFPeA (ng/l) ND ND PFPeA (ng/l) | 12.5 PFBS (ng/l) 7.89 PFBS (ng/l) ND ND PFBS (ng/l) | 4:2FTS (ng/l) ND 4:2FTS (ng/l) ND 4:2FTS (ng/l) | 131.5 PFHxA (ng/l) 102 PFHxA (ng/l) ND PFHxA (ng/l) | 14 PFPeS (ng/l) 9.02 PFPeS (ng/l) ND PFPeS (ng/l) | 39.85 PFHpA (ng/l) 34.4 PFHpA (ng/l) ND PFHpA (ng/l) | 70 PFHxS (ng/l) 43.5 PFHxS (ng/l) ND ND PFHxS (ng/l) | 26.4 6:2 FTS (ng/l) 24.1 6:2 FTS (ng/l) ND ND 6:2 FTS (ng/l) | 97.85 PFOA (ng/l) 127 PFOA (ng/l) ND ND PFOA (ng/l) ND ND ND | 2.32 PFHpS (ng/l) ND PFHpS (ng/l) ND PFHpS (ng/l) | 11.9 PFNA (ng/l) 28.2 PFNA (ng/l) ND PFNA (ng/l) | PFOSA (ng/I) ND PFOSA (ng/I) ND PFOSA (ng/I) | 88.8 PFOS (ng/l) 59.8 PFOS (ng/l) ND ND PFOS (ng/l) | 32.7 PFDA (ng/l) 121 PFDA (ng/l) ND ND PFDA (ng/l) | 8:2 FTS (ng/l) ND 8:2 FTS (ng/l) ND ND 8:2 FTS (ng/l) | PFNS (ng/l) ND PFNS (ng/l) ND ND PFNS (ng/l) | MeFOSAA (ng/l) ND MeFOSAA (ng/l) ND MeFOSAA (ng/l) | EtFOSAA (ng/l) ND EtFOSAA (ng/l) ND EtFOSAA (ng/l) | PFUnA (ng/l) 11.4 PFUnA (ng/l) ND ND PFUnA (ng/l) | PFDS (ng/l) ND PFDS (ng/l) ND ND PFDS (ng/l) | 10.90 PFDoA (ng/l) 33.2 PFDoA (ng/l) ND PFDoA (ng/l) | MeFOSA (ng/l) ND MeFOSA (ng/l) ND MeFOSA (ng/l) | PFTrDA (ng/l) ND PFTrDA (ng/l) ND PFTrDA (ng/l) | PFTeDA (ng/l) ND PFTeDA (ng/l) ND PFTeDA (ng/l) | EtFOSA (ng/l) ND EtFOSA (ng/l) ND ND EtFOSA (ng/l) | PFHxDA (ng/l) ND PFHxDA (ng/l) ND PFHxDA (ng/l) | PFODA (ng/l) ND PFODA (ng/l) ND ND PFODA (ng/l) | MeFOSE (ng/l) ND MeFOSE (ng/l) ND MeFOSE (ng/l) | EtFOSE (ng/l) ND EtFOSE (ng/l) ND ND EtFOSE (ng/l) | GenX (ng/l) ND GenX (ng/l) ND ND GenX (ng/l) | ADONA (ng/l) ND ADONA (ng/l) ND ADONA (ng/l) | F-53B Major (ng/l) ND F-53B Major (ng/l) ND F-53B Major (ng/l) | F-53B Mino (ng/l) ND F-53B Mino (ng/l) ND F-53B Mino (ng/l) | r PFDoS (ng/l) ND r PFDoS (ng/l) ND ND r PFDoS (ng/l) | 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) ND 10:2 FTS (ng/l) |