

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.

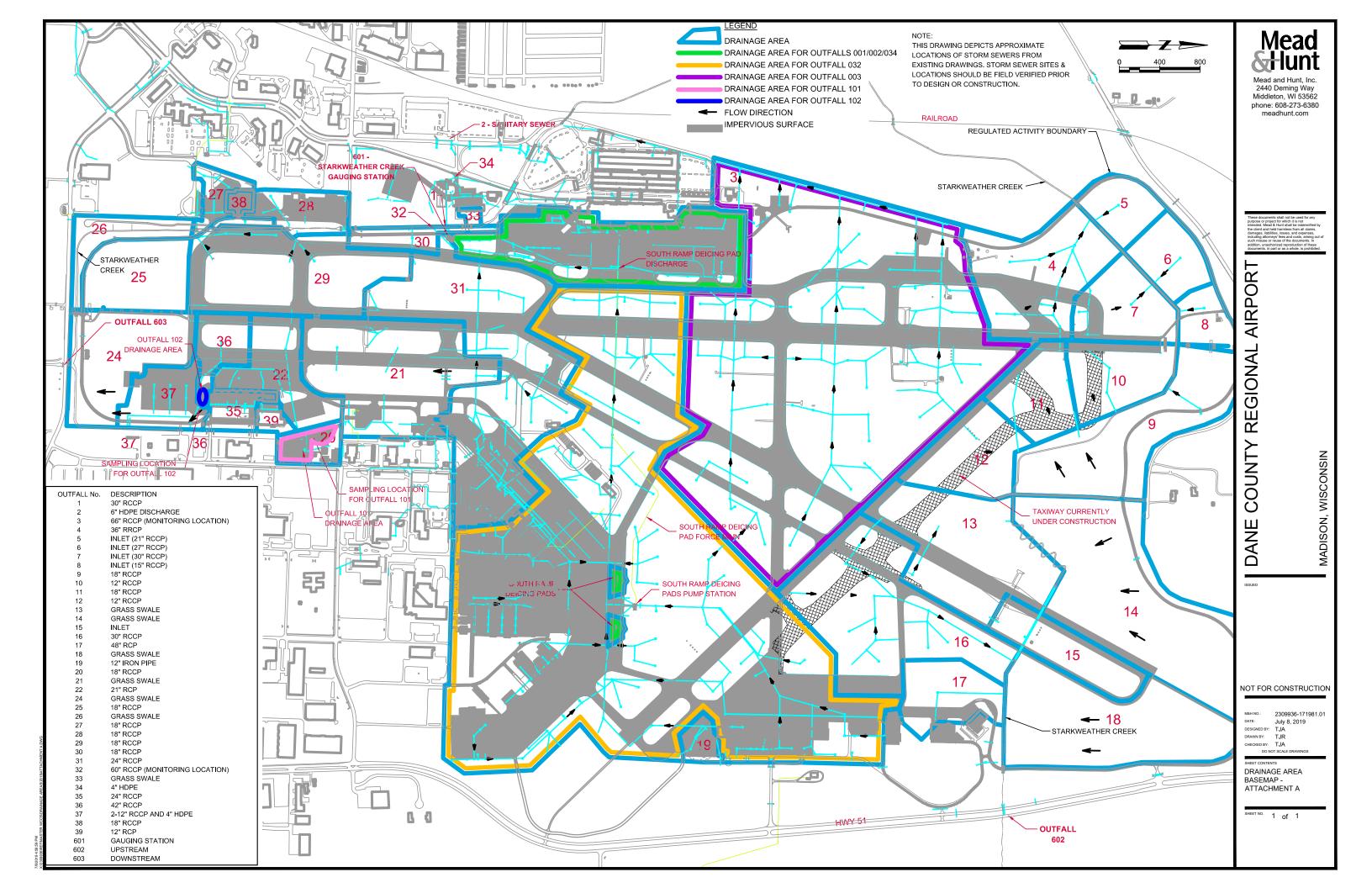
Sincerely,

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)	<ul> <li>EtFOSA</li> <li>(ng/l)</li> <li>ND</li> <li>EtFOSA</li> <li>(ng/l)</li> </ul>	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)	<ul> <li>EtFOSA</li> <li>(ng/l)</li> <li>ND</li> <li>EtFOSA</li> <li>(ng/l)</li> </ul>	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	<ul> <li>EtFOSA</li> <li>(ng/l)</li> <li>ND</li> <li>EtFOSA</li> <li>(ng/l)</li> <li>ND</li> <li>ND</li> </ul>	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)