

Man-made Lake data - Detected PFAS					Spring	Surface Water	Sediment	Fish Tissue				
<b>Spring and Surface Water results in part-per-trillion; Sediment data in part-per-trillion (dry weight); and, Fish Filet Tissue results in part-per-million (wet weight)</b>					sample identification	Spring inflow to Lake	Lake Surface Water - Mean	Sediment - Mean	Blue Catfish fillet, single fish	Redear Sunfish fillet, 7-part composite	Largemouth Bass fillet, MEAN 5-part composite (smaller fish) -	Largemouth Bass fillet, 2-part composite (Larger fish)
					fish ecological specification				Omnivore, bottom feeder, TL 4	Insectvore, middle feeder, TL 3	Piscivore, top predator, TL 4	Piscivore, top predator, TL 4
					collected date	3/7/2018	3/7/2018	3/7/2018	4/23/2018	3/7/2018	3/7/2018	3/7/2018
					analyzed date	3/15/2018	3/15/2018	3/21/2018	5/11/2018	3/27/2018	3/27/2018	3/27/2018
PFAS Chemical Name	PFAS Code	CASN	Chemical Formula	Concentration <sup>a</sup>	ng/L	ng/L	ng/kg - dry wt.	mg/kg - wet wt.	mg/kg - wet wt.	mg/kg - wet wt.	mg/kg - wet wt.	mg/kg - wet wt.
Perfluoro- 2-methoxyacetic acid (PFMOAA)	PFMOAA	674-13-5	C3HF5O3	X	0.713	0.507						
Perfluoro- butyric acid (PFBA)	PFBA	375-22-4	C4HF7O2		14.4	12.5						
Perfluoro- butane- sulfonate (PFBS)	PFBS	375-73-5	C4HF9O3S		1.33 J	1.42 J						
Perfluoro- 3-methoxy- propanoic acid (PFMOPrA)	PFMOPrA	377-73-1	C4HF7O3	X	255	263						
Perfluoro- (3,5-dioxahexanoic) acid (PFO2HxA)	PFO2HxA	39492-88-1	C4HF7O4	X	126	167						
Perfluoro-4-methoxy- butanoic acid (PFMOBA)	PFMOBA	863090-89-5	C5HF9O3	X	29.7	36.0						
Perfluoro- (3,5,7-trioxaoctanoic) acid (PFO3OA)	PFO3OA	39492-89-2	C5HF9O5	X	16.9	23.4						
Perfluoro- pentanoic acid (PFPeA)	PFPeA	2706-90-3	C5HF9O2		20.2	15.1						
Perfluoro- pentane- sulfonate (PFPeS)	PFPeS	2706-91-4	C5HF11O3S									
Fluorotelomer sulfonate 4:2 (4:2 FTS)	4:2 FTS	757124-72-4	C6H5F9O3S									
Perfluoro- hexanoic acid (PFHxA)	PFHxA	307-24-4	C6HF11O2		6.10	4.36						
Perfluoro- hexanesulfonate (PFHxS)	PFHxS	355-46-4	C6HF13O3S		0.896 J	0.796 J						
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)- propanoic acid (PFPrOPrA, "GenX")	PFPrOPrA (GenX)	13252-13-6	C6HF11O3		1160	968	0.00180		0.000270			
Nafion Byproduct 1	Nafion-bp 1	29311-67-9	C7HF13SO5	X								
Nafion Byproduct 2	Nafion-bp 2	749836-20-2	C7H2F14SO5	X	57.0	54.1						
Perfluoro- heptanoic acid (PFHpA)	PFHpA	375-85-9	C7HF13O2		2.84	2.78						
Perfluoro- heptanesulfonate (PFHpS)	PFHpS	375-92-8	C7HF15O3S									
Fluorotelomer sulfonate 6:2 (6:2 FTS)	6:2 FTS	27619-97-2	C8H5F13O3S									
Perfluoro- octanoic acid (PFOA)	PFOA	335-67-1	C8HF15O2		4.23	9.61						
Perfluorooctane- sulfonate (PFOS)	PFOS	1763-23-1	C8HF17O3S		1.32 J	0.756 J			0.000496 J	0.00284	0.00249	
Perfluoro- octane- sulfonamide (PFOSA)	PFOSA	754-91-6	C8H2F17NO2S									
Perfluoro- nonane- sulfonate (PFNS)	PFNA	68259-12-1	C9HF19O3S									
Perfluoro- nonanoic acid (PFNA)	PFNA	375-95-1	C9HF17O2									
Fluorotelomer sulfonate 8:2 (8:2 FTS)	8:2 FTS	39108-34-4	C10H5F17O3S									
Perfluoro- decanoic acid (PFDA)	PFDA	335-76-2	C10GF19O2									
Perfluoro- decanesulfonate (PFDS)	PFDS	335-77-3	C10HF21O3S									
Perfluoro- (3,5,7,9- tetraoxadecanoic) acid (PFO4DA)	PFO4DA	39492-90-5	C10H7F11O6	X	7.24	13.3						
N-methylperfluoro- 1-octane-sulfon- amidoacetic acid (N-MeFOSAA)	n-MeFOSAA	2355-31-9	C11H6F17NO4S									
Perfluoro- undecanoic acid (PFUdA)	PFUdA	2058-94-8	C11HF21O2					0.000872 J		0.00121	0.00109	
N-ethylperfluoro- 1-octane- sulfon-amidoacetic acid (N-EtFOSAA)	n-EtFOSAA	2991-50-6	C12H8F17NO4S									
Perfluoro- dodecanoic acid (PFDoA)	PFDoA	307-55-1	C12HF23O2					0.000710 J		0.000859 J	0.000691 J	
Perfluoro- tridecanoic acid (PFTrDA)	PFTrDA	72629-94-8	C13HF25O2					0.00127		0.000994 J	0.000813 J	
Perfluoro- tetradecanoic acid (PFTeDA)	PFTeDA	376-06-7	C14HF27O2					0.000483 J		0.000468 J	0.000361 J	
No. of PFAS detected:					16	16	1	4	2	5	5	
Sediment Organic Carbon, average, in mg/kg							40,600					
Fish Length, average, in mm								320	216	409	508	
Fish Weight, average, in grams								7928	168	971	1812	
Fish Fillet % Lipids, average								0.528	0.122	0.236	0.158	

<sup>a</sup> Estimated concentration = No calibration standard available for this PFAS at the time of the analysis, the reported concentration is estimated from the GenX calibration curve

Nafion-bp 1 = Nafion byproduct 1

ppt = parts-per-trillion

J = estimated concentration

Nafion-bp 2 = Nafion byproduct 2

ppm = parts-per-million

ng/L = ng PFAS per liter water = ppt

TL = trophic level

ng/kg - dry wt. = ng PFAS per kg dry weight sediment = ppt

mm = millimeters

mg/kg - wet wt. = mg PFAS per kg wet weight filet tissue = ppm