EBWWTP EFFLUENT

Sample Date	Collection Time	Sample Type	ZIMPRO Hours	Flow MGD	1,4 Dioxane ppb or ug/L	PFOA ppt	PFOS ppt	PFBA ppt	PFPeA ppt	PFHxA ppt	PFHpA ppt	PFNA ppt	PFDA ppt	PFUnDA ppt	PFDoDA ppt	PFTrDA ppt	PFTeDA ppt	PFBS ppt	PFPeS ppt	PFHxS ppt	PFHpS ppt	PFNS ppt	PFDS ppt	PFOSA ppt	N-MeFOSAA ppt	N-EtFOSAA ppt	PFOA + PFOS ppt	SUM ALL ppt	4:2 FTS ppt	6:2 FTS ppt	8:2 FTS ppt	10:2 FTS ppt	FBSA ppt	N-MeFOSE ppt	9Cl-PF3ONS ppt	11Cl-PF3OUdS ppt	PFMOAA ppt	PMPA ppt	ADONA ppt	cmpds ND 20 add
7/16/2019																																								
8/6/2019																																								
9/17/2019																																								
10/31/2019																																								
11/8/2019																																								
11/13/2019	1035	Grab	46 hrs prior	4.28		201	36.4	1140	6280	11700	6940	24	39.1	3.42	1.52	0	0	0	0	0	0	0	0	1.89	7.38	2.04	**237.4**	**26,376.8**													
11/15/2019	0925	Grab	56 hrs prior	3.32	10	238	25	1230	10400	9090	6080	19.1	28.8	2.82	1.35	0	0	0	0	0	0	0	0	1.37	7.41	2.3	**263.0**	**27,126.2**													
11/18/2019	1210	Grab	4 hrs prior	3.01		139	21.7	1570	3310	3680	1430	13.3	29.2	2.64	0	0	0	0	0	0	0	0	0	0	5.29	1.67	**160.7**	**10,202.8**													
11/20/2019	1510	Grab	48 hrs prior	3.53		172	31.8	1070	6360	15300	10300	26.6	41.1	2.98	1.62	0	0	0	0	0	0	0	0	1.56	8.53	2.54	**203.8**	**33,318.7**													
11/22/2019																																								
11/25/2019	1355	Grab	5 hrs prior	4.07		119	0	942	1970	2860	1220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**119.0**	**7,111.0**													
12/4/2019	0910	Grab	60 hrs prior	4.02		111	17.7	599	2550	10200	9660	26.3	22.4	0	0	0	0	0	0	0	0	0	0	0	0	0	**128.7**	**23,186.4**													
12/17/2019	1240	Grab	24 hrs prior	5.17		97.9	28.5	447	1650	6510	6640	21.1	21.9	0	0	0	0	0	0	0	0	0	0	0	9.06	0	**126.4**	**15,425.5**													
12/18/2019	0746	Grab	36 hrs prior	4.98		100	22.7	432	1990	8740	9680	19.2	17.9	0	0	0	0	0	0	0.00	0	0	0	0	7.49	0	**122.7**	**21,009.3**													
12/20/2019	0915	Grab	Shut dn 55hr	4.06	11	183	31.2	934	2290	3540	3600	19.9	28.3	0	0	0	0	0	0	7.09	0	0	0	0	9.65	0	**214.2**	**10,643.1**													
12/22/2019																																								
12/23/2019	1130	Grab	Shut dn 5dys	2.88		143	31.8	1020	1460	1860	989	15.5	33.8	0	0	0	0	0	0	8.67	0	0	0	0	6.51	0	**174.8**	**5,568.3**													
12/27/2019	0930	Grab	shut dn 8 dys	2.96	2.3	81.5	22.9	511	687	825	270	10.2	25.2	0	0	0	0	0	0	6.92	0	0	0	0	0	0	**104.4**	**2,439.7**													
12/31/2019	1405	Grab	24 hrs prior	3.71		80.3	31.0	370	1470	4270.00	3010	12.9	23.1	0	0	0	0	0	0	7.04	0	0	0	0	0	0	**111.3**	**9,274.3**													
1/2/2020	750	Grab	shut dn 48 hrs	3.61		141	30.5	391	2380	4610.00	2970	14.4	21	0	0	0	0	0	0	0.00	0	0	0	0	0	0	**171.5**	**10,557.9**													
1/3/2020	915	Grab	shut dn 72 hrs	7.13	2.7	126	28.6	364	1550	2960.00	1580	12.4	25	0	0	0	0	0	0	8.67	0	0	0	0	0	0	**154.6**	**6,654.7**													
1/10/2020	0950	Grab	shut dn 10 dys	4.13	11	64.6	51.6	183	314	591.00	337	12.5	13.2	0	0	0	0	0	0	0.00	0	0	0	0	0	0	**116.2**	**1,566.9**													
1/16/2020	0835	Grab	40 hrs prior	5.13		121	42	0	1730	6110.00	10100	31.9	14.6	0	0	0	0	0	0	0.00	0	0	0	0	7.66	0	**163.0**	**18,157.2**													
1/17/2020																																								
1/24/2020	1355	Grab	shut dn 60hrs	4.82	13	103	24.6	244	1000	2290.00	3240	20.9	14.3	0	0	0	0	0	0	0.00	0	0	0	0	0	0	**127.6**	**6,936.8**													
1/31/2020	0955	Grab	shut dn 36hrs	4.75		108	24.3	319	988	1870.00	2750	19.6	15.7	0	0	0	0	34.9	0	6.52	0	0	0	0	10.1	0	**132.3**	**6,146.1**													
2/14/2020	1000	Grab	shut dn 14 dys	7.34	6.2	46.3	35.9	0	95.6	172.00	69.2	0	9.17	0	0	0	0	0	0	0.00	0	0	0	0	0	0	**82.2**	**428.2**													
2/17/2020	1335	Grab	5 hours prior	4.62		44.6	32.7	95.9	162	65.50	6.71	7.94	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	**77.3**	**415.4**													
2/18/2020	0917	Grab	24 hours prior	4.43		65	47.4	155	1030	1730.00	5760	22.2	13.4	0	0	0	0	0	0	8.10	0	0	0	0	0	0	**112.4**	**8,831.1**													
2/19/2020	1020	Grab	48 hrs prior	4.95		104	45.7	255	1930	3790.00	9660	35.2	13.3	0	0	0	0	0	0	7.78	0	0	0	0	0	0	**149.7**	**15,841.0**													
2/28/2020	1030	Grab	shut dn 216 hrs	4.65		90.3	79.6	121	220	349.00	137	24.6	31.4	6.88	0	0	0	0	0	9.51	0	0	0	0	13.6	0	**169.9**	**1,082.9**													
3/2/2020	1015	Grab	shut dn 288 hrs	3.43		67.6	39.9	116	207	294.00	105	9.78	12.8	0	0	0	0	0	0	8.03	0	0	0	0	0	0	**107.5**	**860.1**													
3/9/2020	0846	Grab	shut dn 16 dys	3.27		51.8	26.3	0	139	216.00	99.4	14.9	8.16	0	0	0	0	0	0	6.31	0	0	0	0	0	0	**78.1**	**561.9**	0	448	0											
3/10/2020	1545	Grab	13 hrs prior	3.81		58.1	24.7	130	738	1280.00	3090	20.9	10.2	0	0	0	0	0	0	7.93	0	0	0	0	0	0	**82.8**	**5,359.8**	0	213	0											
3/11/2020	1508	Grab	36 hrs prior	4.14		79.3	34.1	241	1540	3600	9370	30.0	13.5	0	0	0	0	0	0	8.41	0	0	0	0	0	0	**113.4**	**14,916.3**	0	132	0											
3/12/2020	1245	Grab	50 hrs prior	4.3		103	33.1	0	2250	4630.00	10400	33.1	12.1	0	0	0	0	0	0	7.06	0	0	0	0	0	0	**136.1**	**17,468.4**	0	79.6	0											
3/13/2020	1227	Grab	shut dn 24 hrs	4.15		111	25.0	347	2300	3800.00	7370	27.8	14.6	0	0	0	0	0	0	0	0	0	0	0	0	0	**136.0**	**13,995.4**	0	50.9	0											
3/26/2020		Comp	66 hrs prior	7.29		115	53.5	495	2340	5640.00	5780	28.9	39.4	0	0	0	0	0	0	6.48	0	0	0	0	0	0	**168.5**	**14,498.3**	0	82.5	0											
4/2/2020		Comp	67 hrs prior	4.35		182	47.1	880	4720	7970.00	8420	42	43.1	0	0	0	0	0	0	0	0	0	0	0	7.16	0	**229.1**	**22,311.4**	0	11.1	0											
4/8/2020		Comp	shut dn 132 hrs	3.78		100	23.9	663	1340	1440.00	638	13.1	33.2	0	0	0	0	0	0	6.17	0	0	0	0	0	0	**123.9**	**4,257.4**	0	0	0											
4/15/2020	0945	Grab	shut dn 384 hrs	3.96		54.2	33.7	184	346	443.00	128	0	20.2	0	0	0	0	0	0	0	0	0	0	0	0	0	**87.9**	**1,209.1**	0	0	0			0	0					0	
4/22/2020		Comp	48 hrs prior	3.98		80.9	39.6	368	2230	6570.00	7710	14.7	19.8	0	0	0	0	0	0	0	0	0	0	0	0	0	**120.5**	**17,033.0**	0	7.9	0			0	0					0	
5/1/2020		Comp	shut dn 168 hrs	4.91		66.5	48.9	268	501	818.00	335	10.3	33.6	0	0	0	0	0	0	0	0	0	0	0	0	0	**115.4**	**2,081.3**	0	93.7	0			0	0					0	
5/8/2020		Comp	shut dn 360 hrs	3.73		54.1	29.8	166	276	421.00	149	6.16	11.8	0	0	0	0	38.9	0	11.0	0	0	0	0	0	0	**83.9**	**1,163.8**	0	38.4	0			0	0					0	
5/15/2020	0945	Grab	shut dn 36 hrs	3.13		93.8	29.3	739	3190	4420.00	3460	10.00	19.2	0	0	0	0	31.00	0	9.97	0	0	0	0	0	0	**123.1**	**12,002.3**	0	13.2	0			0	0					0	
5/18/2020	1420	Grab	shut dn 96 hrs	3.42		80.4	35.4	765	1640	1850.00	933	8.58	21.6	0	0	0	0	0	0	9.04	0	0	0	0	0	0	**115.8**	**5,343.0**	0	10.3	0			0	0					0	
5/29/2020		Comp		5.64		80.3	35.6	0	191	271.00	104	52.6	14.5	0	0	0	0	0	0	0	0	0	0	0	0	0	**115.9**	**749.0**	0	12.8	0			0	0					0	
6/10/2020	1330	Grab		4.45		81.6	33.1	0	173	244.00	119	41.7	12.3	7.04	0	0	0	0	0	0	0	0	0	0	0	0	**114.7**	**711.7**	0	0	0			0	0					0	
6/16/2020		Comp		6.05		100	44.3	0	154	216.00	83.3	48.6	21.2	10.6	0	0	0	0	0	7.91	0	0	0	0	0	0	**144.3**	**685.9**	0	6.54	0			0	0					0	
7/1/2020		Comp		3.36		54	40.6	0	144	183.00	72.2	9.37	8.65	0	0	0	0	0	0	8.39	0	0	0	0	0	0	**94.6**	**520.2**	0	0	0			0	0					0	0
7/6/2020																																								
7/8/2020		Comp		4.09		58.4	59.6	54.7	134	182.00	106	17.2	11.1	0	0	0	0	0	0	7.06	0	0	0	0	0	0	**118.0**	**630.1**	0	5.67	0			0	0					0	0
7/30/2020		Comp		4.18		60.2	83.3	0	123	144.00	62.8	12.2	16.4	0	0	0	0	0	0	5.52	0	0	0	0	0	0	**143.5**	**507.4**	0	17.3	0		5.86		0	0				0	
8/3/2020																																								
8/7/2020		Comp		4.02		57.8	31.2	48.3	105	145.00	51.5	11.2	16.4	0	0	0	0	8.15	0	0	0	0	0	0	0	0	**89.0**	**474.6**	0	8.51	0		0		0	0				0	0
8/18/2020		Comp		4.39		52.9	29.7	55.3	169	154.00	75.6	8.43	13.1	0	0	0	0	0	0	0	0	0	0	0	0	0	**82.6**	**558.0**	0	0	0		0		0	0				0	0
9/18/2020		Comp		6.71		58.5	41.1	0	203	205.00	140	17.2	14.4	0	0	0	0	0	0	8.54	0	0	0	0	0	0	**99.6**	**687.7**	0	20.5	0		0		0	0				0	0
9/23/2020		Comp		3.89		39.8	26.5	0	159	146.00	63.5	7.67	0	0	0	0	0	0	0	8.53	0	0	0	0	0	0	**66.3**	**451.0**													
10/9/2020		comp		3.82		66.6	35.8	0	104	176.00	49.3	11.3	0	0	0	0	0	35.3	0	0	0	0	0	0	0	0	**102.4**	**478.3**	0	0	0		0		0	0				0	
10/26/2020				3.6	13.90																																			
10/28/2020		comp		4.12		51.7	27.3	0	97.8	135.00	39	11.8	0	0	0	0	0	27.9	0	0	0	0	0	0	0	0	**79.0**	**390.5**	0	0	0		0		0	0				0	
11/10/2020		comp		4.24	5.75	57.2	26.5	0	166	156.00	78.8	29.1	7.97	0	0	0	0	25	0	0	0	0	0	0	0	0	**83.7**	**546.6**	0	0	0		7.9		0	0				0	0
11/17/2020		comp		4.96	7.02	46.1	34.7	0	106	120.00	43.7	9.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**80.8**	**360.3**	0	0	0		0		0	0				0	0
12/1/2020		comp		8.82	2.72	33.3	40	0	56.9	90.9	35.8		0	0	0	0	0	26.7	0	0	0	0	0	0	0	0	**73.3**	**283.6**	0	0	0		0		0	0				0	
12/15/2020		comp		9.00	3.55	43.1	45.0	0	73.1	95.60	47.5	13	0	0	0	0	0	10.7	0	6.95	0	0	0	0	0	0	**88.1**	**335.0**	0	7.15	0		0		0	0				0	0
12/29/2020		comp		3.91	<1.00	37	37.3	0	34.8	53.80	19.4	0	0	0	0	0	0	9.63	0	0	0	0	0	0	0	0	**74.3**	**191.9**	0	0	0		0		0	0				0	0
1/12/2021		comp		5.02	6.40	48.7	37.2	0	59.4	90.90	38	0	0	0	0	0	0	12.7	0	0	0	0	0	0	0	0	**85.9**	**286.9**	0	10.3	0		0		0	0				0	0
1/26/2021		comp		5.85	6.55	49.0	35.3	0	53.4	99.3	42.3	15.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**84.3**	**294.6**	0	0	0		0		0	0				0	0
2/9/2021		comp	shut down 277 days	5.59	<1.0	47.2	27.9	0	56.5	116	34.1	7.88	0	0	0	0	0	18.9	0	0	0	0	0	0	0	0	**75.1**	**308.5**	0	0	0		0		0	0				0	0
Event #1 Round 1	2/23/2021	0743	COMP	shut down 291 days	4.80	3.53	48.2	29.9	0	48.5	85.7	28.0	14.1	0	0	0	0	0	0	8.11	0	0	0	0	0	0	**78.1**	**262.5**	0	0	0		0		0	0				0	0
Event #1 Round 2	3/9/2021	0746	COMP		4.94	4.48	60.5	36.2	0	64.2	101	30.6	22.5	0	0	0	0	11	0	9.23	0	0	0	0	0	0	**96.7**	**335.2**	0	0	0	0	0		0	0				0	0
Event #1 Round 3	3/23/2021	0747	COMP	shutdown continued	5.11	7.45	67.8	30.6	40.1	52.2	137	30.1	16.6	0	0	0	0	30.4	0	0	0	0	0	0	0	0	**98.4**	**404.8**	0	157	0	0	0	0	0	0	0	0		0	0
Event #2 Round 1	5/11/2021	0745	COMP	shutdown continued	3.53		30.7	19.1	0	37.5	55.2	17.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**49.8**	**160.1**	0	0	0	0	0	0	0	0	0	0		0	0
Event #2 Round 2	6/8/2021	0742	COMP	shutdown continued	3.31		55.0	27.4	42.1	81.8	109.0	41.4	22	9.24	0	0	0	30.6	0	10.3	0	0	0	0	0	0	**82.4**	**428.8**	0	9.66											
	7/14/2021	0744	COMP	shutdown continued	3.82		40.7	37.9	44.5	82.2	117	34.9	7.79	8.06	0	0	0	27.6	0	7.57	0	0	0	0	0	0	**78.6**	**408.2**	0	8.47	0	0	0	0	0	0	0	0		0	0
	8/9/20221	0720	COMP	shutdown continued	3.02		45.3	30.5	31.7	97.6	90.9	35.8	8.81	0	0	0	0	21.2	0	0	0	0	0	0	0	0	**75.8**	**361.8**	0	0	0	0	0	0	0	0	0	0		0	0
	9/14/2021	0750	COMP	shutdown continued	3.39		51.2	39.7	0	182.0	163.0	69.2	11.1	0	0	0	0	23.3	0	0	0	0	0	7.97	0	0	**90.9**	**547.5**	0	7.73	0	0	0	0	0	0	0	0		0	0
	10/12/2021	0600	COMP	shutdown continued	3.54		45.5	35.5	39.6	140	105	37.6	10.9	0	0	0	0	27.7	0	9.19	0	0	0	0	0	0	**81**	**451.0**	0	7.28	0	0	0	0	0	0	0	0		0	0

NOTES:

* a numeric 0 is used in lieu of ND to facilitate calculation of averages. J values are considered nondetect
* 1,4-Dioxane expressed as ug/L
* 1,4-Dioxane samples are grab
* PFAS compounds expressed as ng/L
* Zimpro running means startup or shutdown was X hours before sample taken. 26 hours prior means startup was 26 hours before sampling. Shut dn 55hr means Zimpro was shut down 55 hours prior to sampling.