

EBWWTP COMBINED INFLUENT																		
Sample Date	Collection Time	Sample Type	ZIMPRO hours	1,4 Dioxane ppb or µg/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	
7/16/2019	10:10	Grab	26 hrs prior	21.3	73.0	49.8	116.0	374	511	873	11.7	20.8	4.97	4.86	0.0	0.0	49.5	
8/6/2019	9:15	Grab	30 hrs prior	15.6	64.6	56.4	141.0	523	706	845	10.6	25.3	5.28	7.47	0.0	0.0	0.0	
9/17/2019	12:30	Grab	shut dn 9 days	18.7	10.8	12.5	0.0	0	8.00	5.39	0	0.0	0.0	0.0	0.0	0.0	0.0	
10/31/2019	9:00	Grab	50 hrs prior		46.0	30.9	0.0	583	716	896	4.88	4.59	0.0	0.0	0.0	0.0	24.3	
11/8/2019																		
11/13/2019	10:45	Grab	46 hrs prior		45.2	29.7	123.0	669	987	834	4.49	6.4	0.0	0.0	0.0	0.0	0.0	
11/15/2019	9:30	Grab	56 hrs prior		34.8	20.1	103.0	650	905.00	675	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
11/18/2019	12:20	Grab	4 hrs prior		28.5	17.1	136.0	338	449	201	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
11/20/2019	15:10	Grab	48 hrs prior		27.8	25.5	101.0	531	932.00	1130	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
11/22/2019																		
11/25/2019	13:55	Grab	5 hrs prior		0.0	0.0	123.0	228	351	179	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
11/27/2019																		
12/4/2019	9:10	Grab	60 hrs prior		36.7	19.6	34.4	351	690	1180	6.21	0.0	0.0	0.0	0.0	0.0	0.0	
12/17/2019	12:45	Grab	24 hrs prior		27.2	0.0	0.0	200	417.00	795	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
12/18/2019																		
12/20/2019	9:20	Grab	Shut dn 55hr		65.8	35.0	0.0	296	544.00	476	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
12/23/2019	11:40	Grab	Shut dn 5dys		47.1	29.2	0.0	184	302.00	177	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
12/27/2019																		
12/31/2019	14:10	Grab	24 hrs prior		33.7	32.2	0.0	190	380.00	347	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
1/2/2020	7:40	Grab	shut dn 48 hrs		94.3	42.3	0.0	394	735.00	503	7.62	12.2	0.0	0.0	0.0	9.3	0.0	
1/3/2020	9:20	Grab	shut dn 72hrs		32.6	25.8	0.0	186	343.00	216	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
1/10/2020	9:55	Grab	shut dn 10 dys		45.3	55.5	0.0	0	172.00	58.7	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
1/16/2020	8:45	Grab	40 hrs prior		30.8	35.3	0.0	165	343.00	994	6.27	0.0	0.0	0.0	0.0	0.0	0.0	
1/17/2020	9:45	Grab	64 hrs prior		44.6	39.7	0.0	207	400.00	668	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
1/24/2020	14:00	Grab	shut dn60hrs		35.2	31.1	39.3	120	261	399	0.00	0.0	0.0	0.0	0.0	10.5	0.0	
1/31/2020	10:00	Grab	shut dn36hrs		33.3	26.2	0.0	120	227	329	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
2/14/2020	10:20	Grab	shut dn 200+		31.5	38.3	0.0	0	59.20	19.2	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
2/17/2020	13:50	Grab	5 hrs prior		24.1	53.1	0.0	0	32.90	14.8	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
2/18/2020	9:34	Grab	24 hrs prior		51.5	43.0	0.0	126	212.00	600	51.50	0.0	0.0	0.0	0.0	0.0	0.0	
2/19/2020	10:25	Grab	48 hrs prior		82.3	43.3	0.0	224	417.00	925	8.43	6.63	0.0	0.0	0.0	0.0	51.7	
2/28/2020	10:45	Grab	shut dn216 hrs		28.9	32.6	0.0	0	47.80	20.7	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/2/2020	10:30	Grab	shut dn288hrs		57.4	46.1	0.0	0	142.00	29.7	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2020	8:50	Grab	shut dn16dys		32.1	29.1	0.0	0	70.3	19.5	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2020	15:40	Grab	13 hrs prior		32.9	20.6	0.0	96.2	148	324	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2020	15:15	Grab	36 hrs prior		31.4	29.4	0.0	164	259	784	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/12/2020	12:56	Grab	50 hrs prior		29.1	25.7	0.0	257	419	1120	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2020	12:33	Grab	shut dn24 hrs		36.3	29.4	0.0	228	345	711	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
3/26/2020		Comp	66 hrs prior		28.5	31.8	0.0	213	334	494	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
4/2/2020		Comp	67 hrs prior		41.2	39.9	0.0	468	579	787	0.00	6.73	0.0	0.0	0.0	0.0	0.0	
4/8/2020		Comp	shut dn132hrs		47.3	58.3	92.5	202	266	133	0.00	8.52	0.0	0.0	0.0	0.0	0.0	
4/15/2020					52.0	58.5	0.0	75.6	152	34.3	0.00	0	0.0	0.0	0.0	0.0	0.0	
4/22/2020		Comp	48 hrs prior		30.7	31.2	0.0	187	316	543	0.00	0.0	0.0	0.0	0.0	0.0	0.0	



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7/16/2019	10:10	Grab	26 hrs prior							
8/6/2019	9:15	Grab	30 hrs prior							
9/17/2019	12:30	Grab	shut dn 9 days							
10/31/2019	9:00	Grab	50 hrs prior							
11/8/2019										
11/13/2019	10:45	Grab	46 hrs prior							
11/15/2019	9:30	Grab	56 hrs prior							
11/18/2019	12:20	Grab	4 hrs prior							
11/20/2019	15:10	Grab	48 hrs prior							
11/22/2019										
11/25/2019	13:55	Grab	5 hrs prior							
11/27/2019										
12/4/2019	9:10	Grab	60 hrs prior							
12/17/2019	12:45	Grab	24 hrs prior							
12/18/2019										
12/20/2019	9:20	Grab	Shut dn 55hr							
12/23/2019	11:40	Grab	Shut dn 5dys							
12/27/2019										
12/31/2019	14:10	Grab	24 hrs prior							
1/2/2020	7:40	Grab	shut dn 48 hrs							
1/3/2020	9:20	Grab	shut dn 72hrs							
1/10/2020	9:55	Grab	shut dn 10 dys							
1/16/2020	8:45	Grab	40 hrs prior							
1/17/2020	9:45	Grab	64 hrs prior							
1/24/2020	14:00	Grab	shut dn60hrs							
1/31/2020	10:00	Grab	shut dn36hrs							
2/14/2020	10:20	Grab	shut dn 200+							
2/17/2020	13:50	Grab	5 hrs prior							
2/18/2020	9:34	Grab	24 hrs prior							
2/19/2020	10:25	Grab	48 hrs prior							
2/28/2020	10:45	Grab	shut dn216 hrs							
3/2/2020	10:30	Grab	shut dn288hrs							
3/9/2020	8:50	Grab	shut dn16dys	0						
3/10/2020	15:40	Grab	13 hrs prior	0						
3/11/2020	15:15	Grab	36 hrs prior	0						
3/12/2020	12:56	Grab	50 hrs prior	0						
3/13/2020	12:33	Grab	shut dn24 hrs	0						
3/26/2020		Comp	66 hrs prior							
4/2/2020		Comp	67 hrs prior							
4/8/2020		Comp	shut dn132hrs							
4/15/2020				0	0	0				
4/22/2020		Comp	48 hrs prior							

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Sample Date	Collection Time	Sample Type	ZIMPRO hours	1,4 Dioxane ppb or µg/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	
5/1/2020		Comp	shut dn 168		20.2	34.6	0.0	57.9	96.7	34.3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
5/8/2020																		
5/15/2020	9:55	Grab	shut dn 36		52.3	42.0	98.5	419	610.0	542	0.00	0.0	0.0	0.0	0.0	0.0	42.5	
5/18/2020	14:25	Grab	shut dn 96		80.5	31.0	762.0	1590	1710	931	7.62	26.3	0.0	0.0	0.0	0.0	28.7	
5/29/2020		Comp			55.6	36.6	0.0	53.9	101.0	29.8	13.20	7.06	0.0	0.0	0.0	0.0	0.0	
6/10/2020																		
6/16/2020																		
7/1/2020		Comp	shut dn 50 days		38.0	36.0	0.0	43.8	82.0	18.8	0.00	0	0.0	0.0	0.0	0.0	0.0	
7/6/2020																		
7/8/2020		Comp	shut dn 57 days		45.8	41.0	0.0	43.0	105.0	32.5	0.00	0	0.0	0.0	0.0	0.0	0.0	
7/30/2020		Comp		21.30	21.3	29.1	0.0	45.1	83.0	20.1	0.00	0	0.0	0.0	0.0	0.0	0.0	
8/3/2020																		
8/7/2020		Comp			31.4	31.3	0.0	37.4	66.8	18.3	0.00	0	0.0	0.0	0.0	0.0	0.0	
8/18/2020		Comp			29.9	33.0	0.0	58.2	94.7	17.5	0.00	0	0.0	0.0	0.0	0.0	0.0	
9/18/2020		Comp			36.2	50.8	0.0	68.1	113.0	24.7	0.00	0	0.0	0.0	0.0	0.0	0.0	
9/23/2020		Comp	shut down 134 days		32.9	33.1	0.0	0.0	91.8	19	0.00	0	0.0	0.0	0.0	0.0	0.0	
10/9/2020		comp			39.9	35.5	0.0	41.7	108.0	17.3	0.00	0	0.0	0.0	0.0	0.0	18.9	
10/12/2020		comp			34.2	37.5	0.0	38.6	73.9	14.7	0.00	0	0.0	0.0	0.0	0.0	18.8	
10/26/2020		comp		12.30														
10/28/2020		comp			46.5	41.3	0.0	50.6	131.0	17.6	0.00	0	0.0	0.0	0.0	0.0	39.6	
11/10/2020		comp		9.31	55.5	39.6	0.0	62.4	133.0	23	8.18	0	0.0	0.0	0.0	0.0	0.0	
11/17/2020		comp		14.10	61.8	45.8	0.0	58.6	146.0	31.9	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
12/1/2020		comp		2.93	25.5	37.6	0.0	28.7	55.2	12.6	0.00	0.0	0.0	0.0	0.0	0.0	16.6	
12/15/2020		comp		5.32	28.9	40.8	0.0	42.4	56.4	19.8	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
12/29/2020		Comp		2.16	34.6	43.4	0.0	21.8	43.8	12.9	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
1/12/2021		Comp		6.37	44.9	37.7	0.0	39.3	91.8	23.3	0.00	0.0	0.0	0.0	0.0	0.0	25.0	
1/26/2021		Comp		7.95	45.3	24.5	0.0	36.3	79.3	24.1	7.87	0.0	0.0	0.0	0.0	0.0	11.9	
2/9/2021		Comp	shut down 277 days	1.29	45.3	32.0	0.0	34.1	81.2	19.2	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
Event #2 Round 1	5/11/2021	0745	COMP	shutdown continues		44.2	28.2	0.0	28.1	74.9	17.7	0.00	0.0	0.0	0.0	0.0	0.0	
Event #2 Round 2	6/8/2021	0740	COMP	shutdown continues		29.4	26.8	17.4	29.5	59.3	18.1	0.00	0.0	0.0	0.0	0.0	0.0	
	7/14/2021	0740	COMP	shutdown continues		33.4	37.4	22.0	44.4	75.3	17.1	0.00	0.0	0.0	0.0	0.0	20.7	
	8/9/2021	0728	COMP	shutdown continues		47.9	43.9	15.0	40.0	36.4	13.8	16.30	0.0	0.0	0.0	0.0	0.0	
	9/14/2021	0745	COMP	shutdown continues		39.9	34.0	0.0	56.5	80.5	16.6	9.62	0.0	0.0	0.0	0.0	0.0	
	10/12/2021	0600	COMP	shutdown continues		31.1	34.9	24.5	37.1	60.2	14.3	0.00	0.0	0.0	7.6	27.5	16.3	
<b>NOTES:</b>																		
* 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.																		



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5/1/2020		Comp	shut dn 168							
5/8/2020										
5/15/2020	9:55	Grab	shut dn 36							
5/18/2020	14:25	Grab	shut dn 96							
5/29/2020		Comp								
6/10/2020										
6/16/2020										
7/1/2020		Comp	shut dn 50 days							
7/6/2020										
7/8/2020		Comp	shut dn 57 days							
7/30/2020		Comp								
8/3/2020										
8/7/2020		Comp								
8/18/2020		Comp								
9/18/2020		Comp								
9/23/2020		Comp	shut down 134 days							
10/9/2020		comp								
10/12/2020		comp								
10/26/2020		comp								
10/28/2020		comp								
11/10/2020		comp								
11/17/2020		comp								
12/1/2020		comp								
12/15/2020		comp								
12/29/2020		Comp								
1/12/2021		Comp								
1/26/2021		Comp								
2/9/2021		Comp	shut down 277 days							
Event #2 Round 1	5/11/2021	0745	COMP	shutdown continues						
Event #2 Round 2	6/8/2021	0740	COMP	shutdown continues						
	7/14/2021	0740	COMP	shutdown continues						
	8/9/2021	0728	COMP	shutdown continues						
	9/14/2021	0745	COMP	shutdown continues						
	10/12/2021	0600	COMP	shutdown continues						
<b>NOTES:</b>										
* a numeric 0 is used in lieu of ND to facilitate calculation c										
* 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 b										