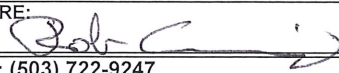


OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP: **WTP-A** Month/Year: **8/2021**

DAY	2 AM [NTU]	6 AM [NTU]	10 AM [NTU]	2 PM [NTU]	6 PM [NTU]	10 PM [NTU]	Highest Reading of the Day ¹ [NTU]
1	off	off	0.02	0.02	off	off	0.02
2	off	off	0.02	0.02	0.02	off	0.02
3	off	off	0.02	0.02	0.02	off	0.02
4	off	off	0.02	0.02	0.02	off	0.02
5	off	off	0.02	0.02	0.02	off	0.02
6	off	off	0.02	0.02	0.02	0.02	0.02
7	off	off	off	0.02	0.02	off	0.02
8	off	off	0.02	0.02	off	off	0.02
9	off	off	0.02	0.02	0.02	off	0.02
10	off	off	0.02	0.02	0.02	off	0.02
11	off	off	0.02	0.02	0.02	off	0.02
12	off	off	0.02	0.02	0.02	off	0.02
13	off	off	0.02	0.02	0.02	0.02	0.02
14	off	off	off	0.02	0.02	off	0.02
15	off	0.02	0.02	off	off	off	0.02
16	off	off	0.02	0.02	0.02	off	0.02
17	off	off	0.02	0.02	0.02	off	0.02
18	off	off	0.03	0.02	0.02	off	0.03
19	off	off	0.02	0.02	off	off	0.02
20	off	off	0.02	0.02	0.02	0.02	0.02
21	off	off	off	0.02	0.02	off	0.02
22	off	0.02	0.02	off	off	off	0.02
23	off	off	0.02	0.02	0.02	off	0.02
24	off	off	off	0.02	0.02	off	0.02
25	off	off	0.02	0.02	0.02	off	0.02
26	off	off	0.02	0.02	0.03	off	0.03
27	off	off	0.03	0.02	0.02	0.02	0.03
28	off	off	off	0.02	0.02	off	0.02
29	off	0.02	0.02	off	off	off	0.02
30	off	off	0.02	0.02	0.02	off	0.02
31	off	off	0.02	0.02	0.02	off	0.02

Conventional or Direct Filtration		Monthly Summary (Answer Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? ☒ Yes / No	CT's met everyday? (see back) ☒ Yes / No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? ☒ Yes / No	
All the 4-hour turbidity readings ≤ 1 NTU? ☒ Yes / No			
All turbidity readings < IFE ² triggers? ☒ Yes / No ²			
Notes:		PRINTED NAME: Rob Cummings	
		SIGNATURE: 	DATE: 9/1/21
		PHONE #: (503) 722-9247	CERT #: 5017

¹ Including continuous turbidity data, if applicable, for optimization recording purposes. Compliance values in columns "12 AM" through "8 PM" may not correspond to continuous readings' maximum.

² IFE = Individ. Filter Effl. (OAR 333-061-0040(1)(e)(B&C))

	Pre-Chlorination Segment									Post-Chlorination Segment										Total	
Date / Time	Minimum free chlorine residual after pre-chlorination (C) ₃	Peak hourly demand flow (Pre)	Contact time (Pre) (T)	Actual CT (Pre)	pH (Pre)	temp (Pre)	Required CT (Total)	Actual CT / Required CT (Pre)	Percent log inactivation achieved (Pre)	Minimum free chlorine residual after post-chlorination (C) ₃	Peak hourly demand flow (Post)	Contact Time (Post) (T)	Actual CT (Post)	pH (Post)	temp (Post)	Required CT (Total)	Actual CT / Required CT (Post)	Percent log inactivation achieved (Post)	Actual CT / Required CT Sum of Pre and Post	Total percent of require log inactivation achieved	CT Met? ³
	[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula			[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula					Yes / No
1/ 09:00	0.83	10666	31.8	26.4	7.27	21.5	20.4	1.3	129.6	0.93	11881	56.2	52.3	7.59	20.60	24.0	2.2	217.8	3.47	347.3	yes
2/ 14:00	0.63	13687	27.5	17.3	7.41	22.8	19.4	0.9	89.5	0.94	15534	42.1	39.6	7.62	21.40	23.1	1.7	171.2	2.61	260.7	yes
3/ 10:00	0.68	11687	28.7	19.5	7.38	23.3	18.7	1.0	104.2	0.63	14979	53.6	33.8	7.57	23.40	19.6	1.7	172.0	2.76	276.2	yes
4/ 18:00	0.73	12694	28.6	20.9	7.52	24.3	18.6	1.1	112.5	0.97	15034	46.9	45.5	7.59	23.10	20.8	2.2	218.9	3.31	331.4	yes
5/ 17:00	0.79	13048	29.5	23.3	7.49	22.9	18.7	1.2	124.6	0.95	14729	46.4	44.1	7.62	21.80	22.6	2.0	195.0	3.20	319.7	yes
6/ 21:00	0.79	12138	31.5	24.9	7.57	23.2	20.2	1.2	123.3	0.95	12152	55.9	53.1	7.63	22.10	22.3	2.4	238.4	3.62	361.8	yes
7/ 15:00	0.74	12236	34.5	25.5	7.45	23.1	19.5	1.3	131.2	0.97	11819	60.5	58.7	7.61	21.70	22.7	2.6	258.4	3.90	389.6	yes
8/ 10:00	0.82	11270	32.7	26.8	7.32	21.3	20.9	1.3	128.2	0.94	12180	55.2	51.9	7.61	20.40	24.5	2.1	212.0	3.40	340.3	yes
9/ 18:00	0.74	10583	29.8	22.1	7.53	23.2	19.8	1.1	111.2	0.95	14388	51.9	49.3	7.60	21.70	21.5	2.3	229.3	3.41	340.5	yes
10/ 12:00	0.54	13694	28.6	15.4	7.37	21.7	18.9	0.8	81.7	0.96	14743	46.4	44.5	7.64	20.60	24.5	1.8	182.1	2.64	263.8	yes
11/ 09:00	0.71	12812	30.6	21.7	7.33	22.5	19.4	1.1	112.2	0.99	14965	49.5	49.0	7.58	22.10	22.0	2.2	222.6	3.35	334.8	yes
12/ 10:00	0.81	12881	30.1	24.4	7.35	23.2	18.9	1.3	129.0	0.94	14979	48.6	45.7	7.60	22.70	21.3	2.1	214.7	3.44	343.7	yes
13/ 19:00	0.80	11680	32.0	25.6	7.57	24.4	18.9	1.4	135.8	0.93	11840	54.6	50.8	7.64	23.30	20.8	2.4	244.3	3.80	380.1	yes
14/ 17:00	0.89	15722	27.1	24.1	7.54	24.2	19.1	1.3	126.5	0.93	15993	44.1	41.0	7.65	23.10	21.1	1.9	194.5	3.21	321.0	yes
15/ 19:00	0.82	11777	29.4	24.1	7.36	22.8	19.4	1.2	124.2	0.92	12999	57.3	52.7	7.64	22.00	22.4	2.4	235.3	3.59	359.4	yes
16/ 12:00	0.51	12965	30.3	15.5	7.38	22.7	19.1	0.8	81.1	0.94	14729	51.5	48.4	7.66	21.60	23.1	2.1	209.2	2.90	290.3	yes
17/ 12:00	0.66	13131	31.9	21.1	7.38	21.3	21.0	1.0	100.4	0.91	14652	52.1	47.4	7.67	20.50	24.7	1.9	191.8	2.92	292.2	yes
18/ 20:00	0.80	12673	32.3	25.8	7.64	22.9	21.0	1.2	123.1	0.93	13131	54.7	50.9	7.63	21.70	22.8	2.2	223.5	3.47	346.6	yes
19/ 13:00	0.59	15715	29.4	17.3	7.46	21.7	20.9	0.8	83.2	0.93	16333	46.6	43.3	7.67	20.50	24.8	1.7	174.9	2.58	258.1	yes
20/ 19:00	0.90	14576	26.5	23.9	7.56	21.3	22.7	1.0	104.9	0.91	14118	51.6	47.0	7.67	20.40	24.9	1.9	188.8	2.94	293.7	yes
21/ 17:00	0.87	12881	29.2	25.4	7.55	20.9	23.1	1.1	109.8	0.92	14326	44.9	41.3	7.67	19.80	25.8	1.6	160.0	2.70	269.8	yes
22/ 08:00	0.76	7854	66.4	50.5	7.42	20.4	22.6	2.2	223.2	0.91	7062	96.2	87.5	7.62	19.80	25.4	3.4	344.9	5.68	568.1	yes
23/ 09:00	0.80	11805	29.0	23.2	7.39	18.4	25.4	0.9	91.5	0.98	13638	57.3	56.2	7.65	18.00	28.8	1.9	194.7	2.86	286.2	yes
24/ 19:00	0.62	10826	31.4	19.5	7.65	21.1	23.0	0.8	84.6	0.93	14236	54.5	50.7	7.65	20.10	25.2	2.0	201.0	2.86	285.6	yes
25/ 20:00	0.87	12291	30.3	26.4	7.51	21.1	22.6	1.2	116.8	0.91	14131	52.4	47.7	7.65	20.20	25.0	1.9	190.6	2.01	307.4	yes
26/ 16:00	0.63	10819	32.8	20.7	7.45	20.1	22.9	0.9	90.1	0.94	11673	57.8	54.3	7.67	18.90	27.3	2.0	198.7	2.89	288.8	yes
27/ 21:00	0.81	10118	34.3	27.8	7.60	20.3	24.2	1.1	114.7	0.92	11527	60.9	56.0	7.65	19.40	26.3	2.1	213.1	3.28	327.9	yes
28/ 18:00	0.92	14034	30.4	28.0	7.54	20.5	23.7	1.2	117.8	0.91	14034	48.7	44.3	7.66	19.30	26.5	1.7	167.2	2.85	285.0	yes
29/ 08:00	0.80	12159	32.1	25.7	7.39	19.7	23.4	1.1	109.5	0.93	13569	54.4	50.6	7.63	19.00	26.8	1.9	188.8	2.98	298.3	yes
30/ 15:00	0.70	12958	30.6	21.4	7.52	19.5	24.5	0.9	87.5	0.93	12208	53.7	49.9	7.69	18.50	28.2	1.8	177.2	2.65	264.7	yes
31/ 13:00	0.53	14756	27.2	14.4	7.35	18.7	23.9	0.6	60.3	0.92	16055	46.5	42.8	7.67	17.90	29.0	1.5	147.3	2.08	207.7	yes

³ If Cl2 at entry point < 0.2 mg/l or CT not met, DWP to be notified by end of next business day.