

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

**System Name:** CLACKAMAS RIVER WATER - CLACKAMAS    **ID #:** 4100187    **WTP:** A    **Month/Year:** Feb-2024

DAY	2 AM [NTU]	6 AM [NTU]	10 AM [NTU]	2 PM [NTU]	6 PM [NTU]	10 PM [NTU]	Highest Reading of the Day <sup>1</sup> [NTU]
1	off	off	0.07	0.07	0.07	off	0.07
2	off	off	0.03	0.04	0.03	0.03	0.04
3	off	off	0.03	0.03	off	off	0.03
4	off	0.03	0.03	off	off	off	0.03
5	off	off	0.1	0.1	0.12	off	0.12
6	off	off	0.08	0.06	0.06	off	0.08
7	off	off	0.09	0.09	0.07	off	0.09
8	off	off	0.07	0.08	0.09	off	0.09
9	off	off	0.07	0.07	0.07	0.07	0.07
10	off	off	0.07	0.06	off	off	0.07
11	off	0.1	0.1	off	off	off	0.1
12	off	off	0.11	0.09	0.08	off	0.11
13	off	off	0.09	0.09	off	off	0.09
14	off	off	0.07	0.07	0.08	off	0.08
15	off	off	0.1	0.08	0.05	off	0.1
16	off	off	0.06	0.08	0.07	0.1	0.1
17	off	off	0.08	0.09	off	off	0.09
18	off	0.07	0.08	off	off	off	0.08
19	off	off	0.06	0.06	off	off	0.06
20	off	off	0.06	0.1	0.1	off	0.1
21	off	off	0.1	0.11	0.1	0.14	0.14
22	off	off	0.08	0.08	0.13	0.11	0.13
23	off	off	0.09	0.1	0.1	0.09	0.1
24	off	off	0.09	0.1	off	off	0.1
25	off	0.09	0.09	off	off	off	0.09
26	off	off	0.09	0.09	0.09	0.1	0.1
27	off	off	0.07	0.09	0.09	0.08	0.09
28	off	off	0.08	0.08	0.08	0.06	0.08
29	off	off	0.07	0.07	0.1	off	0.1
30							
31							

<b>Conventional or Direct Filtration</b>		<b>Monthly Summary (Answer Yes or No)</b>	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No	CT's met everyday? (see back) <input checked="" type="radio"/> Yes <input type="radio"/> No	All Cl <sub>2</sub> residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes <input type="radio"/> No	
All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes <input type="radio"/> No			
All turbidity readings < IFE <sup>2</sup> triggers? <input checked="" type="radio"/> Yes <input type="radio"/> No <sup>2</sup>			
<b>Notes:</b>	PRINTED NAME: <u>Tavis Andrews</u>		
	SIGNATURE: <u>[Signature]</u>	DATE: <u>3-7-24</u>	
	PHONE #: <u>(503) 956-2645</u>	CERT #: <u>T-450182</u>	

<sup>1</sup> 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.    <sup>2</sup> IFE = Individ. Filter Eff. (OAR 333-061-0040(1)(e)(B&C))



OHA - Drinking Water Program - Surface Water Quality Data Form

System Name: Clackamas River Water-Clackamas ID#: 4100187 WTP: A Disinfection *Giardia* Log Inactiv: 1

Feb-2024

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? <sup>3</sup> Yes / No		
	Minimum free chlorine residual after pre-chlorination (C) <sub>3</sub> [ppm or mg/L]	Peak hourly demand flow (Pre) [GPM]	Contact time (Pre) (T) [minutes]	Actual CT (Pre) C X T	pH (Pre)	temp (Pre) [° C]	Required CT (Total) formula	Actual CT / Required CT (Pre)	Percent log inactivation achieved (Pre)	Minimum free chlorine residual after post-chlorination (C) <sub>3</sub> [ppm or mg/L]	Peak hourly demand flow (Post) [GPM]	Contact Time (Post) (T) [minutes]	Actual CT (Post) C X T	pH (Post)	temp (Post) [° C]	Required CT (Total) formula	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
1/ 08:00	0.84	7180	46.4	38.9	7.16	9.6	41.2	0.9	94.4	1.02	7979	93.4	95.3	7.68	8.9	52.7	1.8	180.8	2.75	275.3	Y	
2/ 22:00	0.72	7118	45.6	32.9	7.19	9.2	42.1	0.8	78.1	1.09	7486	97.9	106.7	7.73	8.8	54.6	2.0	195.4	2.74	273.6	Y	
3/ 19:00	0.74	7013	47.8	35.4	7.24	9.1	43.1	0.8	82.1	1.03	7215	102.1	105.1	7.69	8.6	54.2	1.9	193.9	2.76	276.0	Y	
4/ 10:00	0.71	7118	46.8	33.2	7.21	8.1	45.6	0.7	72.8	1.05	7479	97.9	102.8	7.67	7.6	57.9	1.8	177.5	2.50	250.4	Y	
5/ 21:00	0.72	7118	44.7	32.1	7.24	8.6	44.7	0.7	71.8	1.06	7986	91.8	97.3	7.71	7.9	57.5	1.7	169.2	2.41	241.0	Y	
6/ 08:00	0.81	9687	36.5	29.6	7.24	8.6	45.0	0.7	65.8	1.04	11534	65.0	67.6	7.68	7.7	57.7	1.2	117.2	1.83	182.9	Y	
7/ 08:00	0.80	7118	44.4	35.5	7.24	8.6	45.0	0.8	78.9	1.02	7965	92.8	94.7	7.69	7.8	57.3	1.7	165.3	2.44	244.2	Y	
8/ 14:00	0.63	8291	42.1	26.5	7.24	8.7	43.9	0.6	60.4	1.07	8222	90.8	97.1	7.67	7.7	57.7	1.7	168.3	2.29	228.6	Y	
9/ 18:00	0.81	8222	41.2	33.4	7.30	8.8	45.4	0.7	73.6	1.29	7999	94.4	121.8	7.61	7.9	57.0	2.1	213.7	2.87	287.3	Y	
10/ 12:00	0.59	4965	57.7	44.4	7.28	9.0	44.3	1.0	100.2	1.05	5368	135.4	142.2	7.69	7.9	57.1	2.5	249.0	3.49	349.3	Y	
11/ 10:00	0.97	5020	57.5	55.8	7.30	8.5	47.2	1.2	118.2	1.06	5416	135.3	143.4	7.67	7.5	58.2	2.5	246.4	3.65	364.6	Y	
12/ 09:00	1.01	12034	31.3	31.6	7.31	8.6	47.1	0.7	67.1	1.14	13659	55.3	63.0	7.55	7.8	55.2	1.1	114.1	1.81	181.2	Y	
13/ 12:00	0.59	9569	30.2	27.8	7.28	8.1	46.2	0.6	60.2	1.08	12604	61.1	66.0	7.70	7.3	53.8	1.2	122.7	1.49	182.8	Y	
14/ 08:00	0.78	12034	31.0	24.2	7.34	8.2	47.9	0.5	50.5	1.13	15659	47.6	53.7	7.73	7.6	59.7	0.9	89.9	1.40	140.5	Y	
15/ 12:00	0.85	6979	45.2	38.5	7.29	8.2	47.4	0.8	81.2	0.99	10597	69.3	68.6	7.62	7.2	58.0	1.2	118.3	1.99	199.5	Y	
16/ 21:00	0.58	6979	45.3	26.2	7.33	8.1	46.9	0.6	55.9	1.07	7534	96.5	103.2	7.69	7.2	60.1	1.7	171.7	2.28	227.6	Y	
17/ 17:00	0.84	8152	41.5	34.9	7.36	8.0	49.2	0.7	70.9	1.02	9256	78.5	80.1	7.71	7.1	60.4	1.3	132.6	2.03	203.6	Y	
18/ 08:00	0.74	6979	45.5	33.7	7.30	7.4	49.4	0.7	68.2	1.03	7465	98.2	101.1	7.57	6.8	58.8	1.7	171.9	2.40	240.2	Y	
19/ 09:00	0.90	9347	38.8	34.9	7.32	7.5	50.2	0.7	69.5	1.05	9847	74.5	78.2	7.50	6.8	57.1	1.4	137.0	2.06	206.5	Y	
20/ 08:00	0.75	9423	38.3	28.7	7.31	8.0	47.9	0.6	59.9	1.09	11888	64.2	70.0	7.74	7.4	60.4	1.2	115.9	1.76	175.8	Y	
21/ 09:00	0.41	4444	59.4	24.3	7.41	8.8	45.1	0.5	53.9	1.00	5354	138.7	138.7	7.68	7.7	57.3	2.4	242.1	2.96	295.9	Y	
22/ 19:00	0.46	7048	43.8	20.1	7.35	9.4	42.6	0.5	47.2	1.08	7979	91.7	99.0	7.70	8.3	55.9	1.8	177.1	2.24	224.3	Y	
23/ 18:00	0.77	7013	46.3	35.7	7.40	9.6	44.5	0.8	80.2	1.11	8166	90.1	100.0	7.70	8.3	56.1	1.8	178.3	2.58	258.5	Y	
24/ 19:00	0.79	11916	32.6	25.8	7.39	9.8	43.8	0.6	58.9	1.02	12465	58.6	59.8	7.72	8.9	53.5	1.1	111.8	1.70	170.7	Y	
25/ 13:00	0.81	6979	45.5	36.8	7.36	8.9	46.0	0.8	80.0	1.02	8048	91.3	93.2	7.71	7.9	57.3	1.6	162.7	2.43	242.7	Y	
26/ 18:00	0.68	4583	50.3	34.2	7.32	8.7	45.4	0.8	75.3	1.05	5374	136.9	143.7	7.72	7.6	58.8	2.4	244.4	3.20	319.7	Y	
27/ 17:00	0.69	4555	58.9	40.7	7.36	8.6	46.5	0.9	87.5	1.04	5395	136.9	142.3	7.71	7.4	59.5	2.4	239.2	3.27	326.7	Y	
28/ 17:00	0.65	8437	42.6	27.7	7.30	8.7	44.8	0.6	61.8	1.05	10937	67.7	71.1	7.71	7.7	58.3	1.2	122.0	1.84	183.8	Y	
29/ 18:00	0.71	12736	31.5	22.4	7.22	8.3	45.3	0.5	49.4	1.04	13805	53.5	55.5	7.75	7.3	60.6	0.9	91.6	1.41	141.0	Y	
30/								#DIV/0!	#DIV/0!								#DIV/0!	#DIV/0!		#DIV/0!		
31/								#DIV/0!	#DIV/0!									#DIV/0!	#DIV/0!		#DIV/0!	

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