

**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: Dec-2023

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	0.02	0.02	0.02
2	off	off	0.02	0.02	off	off	0.02
3	off	0.02	0.03	off	off	off	0.03
4	off	off	0.05	0.05	off	off	0.05
5	off	off	0.04	0.05	off	off	0.05
6	off	off	0.05	0.05	off	off	0.05
7	off	off	0.05	0.05	off	off	0.05
8	off	off	0.05	0.05	0.05	0.04	0.05
9	off	off	0.03	0.03	off	off	0.03
10	off	0.03	0.03	off	off	off	0.03
11	off	off	0.06	0.05	off	off	0.06
12	off	off	0.06	0.06	off	off	0.06
13	off	off	0.06	0.06	off	off	0.06
14	off	off	0.05	0.05	off	off	0.05
15	off	off	off	0.02	0.05	0.05	0.05
16	off	off	0.05	0.05	off	off	0.05
17	off	0.05	0.05	off	off	off	0.05
18	off	off	0.02	0.02	off	off	0.02
19	off	off	0.05	0.05	off	off	0.05
20	off	off	0.02	0.03	off	off	0.03
21	off	off	0.02	0.02	off	off	0.02
22	off	off	0.02	0.04	0.02	0.03	0.04
23	off	off	0.03	0.03	off	off	0.03
24	off	0.03	0.03	off	off	off	0.03
25	off	off	0.02	0.03	off	off	0.03
26	off	off	0.03	0.03	off	off	0.03
27	off	off	0.02	0.02	off	off	0.02
28	off	off	0.02	0.02	off	off	0.02
29	off	off	0.02	0.03	0.03	0.03	0.03
30	off	off	0.03	0.02	off	off	0.03
31	off	0.02	0.02	off	off	off	0.02

Conventional or Direct Filtration		Monthly Summary (Answer Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? <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	CT's met everyday? (see back) <input checked="" type="radio"/> Yes / <input type="radio"/> No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes / <input type="radio"/> No
All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes / <input type="radio"/> No		Notes:	
PRINTED NAME: <u>Travis Andrews</u>		SIGNATURE: <u>[Signature]</u>	
PHONE #: <u>503 956-2645</u>		DATE: <u>1-8-24</u>	
		CERT #: <u>T-450182</u>	

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))

OHA - Drinking Water Program - Surface Water Quality Data Form

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

Dec-2023

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total		CT Met? ³ Yes / No
	Minimum free chlorine residual after pre-chlorination (C) ₃ [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) ₃ [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/ 20:00	0.77	9645	35.3	27.1	7.43	8.2	49.4	0.5	54.9	1.26	10145	71.8	90.4	7.58	7.2	59.0	1.5	153.2	2.08	208.1	Yes
2/ 17:00	0.70	7215	48.8	34.1	7.25	8.4	45.3	0.8	75.3	1.25	7999	91.1	113.9	7.61	7.4	58.7	1.9	194.0	2.69	269.3	Yes
3/ 10:00	0.73	7319	48.4	35.3	7.24	7.8	47.1	0.7	74.9	1.26	7805	93.3	117.5	7.60	6.8	61.1	1.9	192.3	2.67	267.3	Yes
4/ 13:00	0.38	10409	36.1	13.7	6.77	10.1	33.0	0.4	41.5	1.26	10798	67.2	84.7	7.61	9.1	52.3	1.6	162.0	2.03	203.5	Yes
5/ 08:00	0.26	9722	39.6	10.3	6.81	10.8	31.7	0.3	32.5	1.10	11055	68.7	75.6	7.63	9.6	50.1	1.5	150.9	1.83	183.4	Yes
6/ 08:00	0.78	13111	30.3	23.6	6.90	11.1	33.9	0.7	69.6	1.28	13743	53.6	68.6	7.70	10.1	50.5	1.4	135.8	2.06	205.5	Yes
7/ 12:00	0.65	13277	32.4	21.0	6.95	10.7	35.0	0.6	60.0	1.25	13645	53.4	66.7	7.64	9.7	50.8	1.3	131.3	1.91	191.3	Yes
8/ 22:00	0.75	9124	40.8	30.6	7.04	9.7	38.8	0.8	78.9	1.23	9916	73.4	90.3	7.64	8.8	53.6	1.7	168.5	2.47	247.3	Yes
9/ 16:00	0.75	10062	38.4	28.8	7.08	8.9	41.4	0.7	69.6	1.25	8993	78.6	98.2	7.64	7.8	57.5	1.7	170.8	2.40	240.3	Yes
10/ 09:00	0.74	7423	45.8	33.9	6.99	9.4	38.7	0.9	87.6	1.25	7944	91.4	114.3	7.65	8.3	55.9	2.0	204.5	2.92	292.1	Yes
11/ 12:00	0.76	10333	35.2	26.7	6.92	10.1	36.4	0.7	73.4	1.23	10826	67.9	83.5	7.64	9.1	52.5	1.6	159.0	2.33	232.4	Yes
12/ 09:00	0.57	10180	36.3	20.7	6.91	9.8	36.2	0.6	57.2	1.25	10638	69.1	86.4	7.64	9.1	52.6	1.6	164.3	2.21	221.4	Yes
13/ 12:00	0.85	9909	37.6	32.0	7.02	9.4	39.6	0.8	80.8	1.23	10736	67.8	83.4	7.66	8.5	55.2	1.5	151.1	2.32	231.9	Yes
14/ 15:00	0.94	9833	36.4	34.2	7.09	9.4	41.0	0.8	83.4	1.25	10666	68.7	85.9	7.64	8.5	54.9	1.6	156.5	2.40	239.9	Yes
15/ 15:00	0.84	13027	31.3	26.3	7.13	8.9	42.6	0.6	61.7	1.25	13027	55.7	69.6	7.66	7.9	57.7	1.2	120.6	1.82	182.4	Yes
16/ 18:00	0.92	12694	32.7	30.0	7.17	8.7	44.3	0.7	67.7	1.23	12812	57.8	71.0	7.62	7.7	57.6	1.2	123.3	1.91	191.0	Yes
17/ 10:00	0.72	5201	60.0	43.2	7.16	7.8	45.5	0.9	94.9	1.24	5222	141.3	175.2	7.62	7.1	60.1	2.9	291.5	3.86	386.5	Yes
18/ 13:00	0.84	9687	38.5	32.4	7.18	8.5	44.6	0.7	72.6	1.24	10624	68.6	85.1	7.66	7.4	59.6	1.4	142.8	2.15	215.4	Yes
19/ 08:00	0.61	12326	33.3	20.3	7.23	8.9	43.0	0.5	47.2	1.15	13340	54.1	62.2	7.64	7.6	57.8	1.1	107.6	1.55	154.8	Yes
20/ 12:00	0.65	12819	28.4	18.4	7.19	8.3	44.4	0.4	41.4	1.29	16076	45.2	58.3	7.66	7.3	60.5	1.0	96.4	1.38	137.8	Yes
21/ 08:00	0.73	12736	31.9	23.3	7.26	8.6	45.0	0.5	51.8	1.15	13631	54.3	62.4	7.67	7.5	58.9	1.1	105.9	1.58	157.7	Yes
22/ 21:00	0.81	8402	42.3	34.3	7.24	8.8	44.5	0.8	77.1	1.22	8555	84.9	103.5	7.63	7.9	57.0	1.8	181.6	2.59	258.7	Yes
23/ 13:00	0.70	9722	38.2	26.8	7.20	8.3	44.9	0.6	59.7	1.24	9944	72.1	89.4	7.67	7.3	60.3	1.5	148.3	2.08	207.9	Yes
24/ 10:00	0.71	8368	39.8	28.2	7.22	7.8	46.8	0.6	60.3	1.26	8548	84.9	107.0	7.64	6.8	61.7	1.7	173.4	2.34	233.7	Yes
25/ 10:00	1.05	9811	38.0	39.9	7.26	8.3	47.7	0.8	83.6	1.46	10548	69.1	100.9	7.48	7.2	58.1	1.7	173.7	2.57	257.3	Yes
26/ 09:00	0.35	9722	37.4	13.1	7.20	8.7	42.0	0.3	31.2	1.29	10666	68.8	88.8	7.60	7.5	58.3	1.5	152.3	1.83	183.5	Yes
27/ 08:00	0.97	13194	31.9	30.8	7.25	8.8	45.4	0.7	67.8	1.20	15826	46.9	56.3	7.70	8.0	57.9	1.0	97.2	1.65	165.1	Yes
28/ 08:00	0.82	13576	30.8	25.2	7.25	8.7	45.0	0.6	56.0	1.18	13756	54.7	64.5	7.73	7.9	58.8	1.1	109.7	1.66	165.7	Yes
29/ 21:00	0.71	7215	43.8	31.1	7.28	9.3	43.1	0.7	72.2	1.24	7888	92.7	115.0	7.65	8.4	55.5	2.1	207.2	2.79	279.4	Yes
30/ 18:00	0.84	9798	39.3	33.0	7.27	9.8	42.3	0.8	78.0	1.22	9479	77.3	94.2	7.68	8.8	54.4	1.7	173.2	2.51	251.2	Yes
31/ 08:00	0.81	5201	44.7	36.2	7.25	9.2	43.3	0.8	83.6	1.25	5715	129.0	161.2	7.60	8.30	54.9	2.9	293.6	3.77	377.2	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.