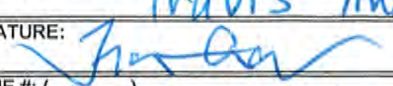


**OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration**

System Name: CLACKAMAS RIVER WATER - CLACKAMAS	ID #: 4100187	WTP: A	Month/Year: Nov-2023
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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	0.03	0.02	off	0.03
2	off	off	0.03	off	0.04	0.03	0.04
3	off	off	0.02	0.03	0.02	0.02	0.03
4	off	off	0.03	0.02	off	off	0.03
5	off	0.03	0.02	off	off	off	0.03
6	off	off	0.04	0.02	0.03	0.03	0.04
7	off	off	0.02	0.02	0.03	0.03	0.03
8	off	off	0.03	0.04	off	off	0.04
9	off	off	off	0.03	off	off	0.03
10	off	off	0.03	0.04	0.04	0.03	0.04
11	off	off	0.03	0.03	off	off	0.03
12	off	0.03	0.03	off	off	off	0.03
13	off	off	0.02	0.05	0.02	off	0.05
14	off	off	0.04	0.04	0.02	off	0.04
15	off	off	0.03	0.02	0.02	0.03	0.03
16	off	off	0.02	0.02	0.03	off	0.03
17	off	off	0.02	0.02	0.02	0.02	0.02
18	off	off	0.02	0.02	off	off	0.02
19	off	0.02	0.02	off	off	off	0.02
20	off	off	0.02	0.03	0.03	off	0.03
21	off	off	0.04	0.04	0.04	off	0.04
22	off	off	0.03	0.04	off	off	0.04
23	off	off	0.04	0.06	off	off	0.05
24	off	off	0.04	0.04	0.03	0.02	0.04
25	off	off	0.02	0.02	off	off	0.02
26	off	0.02	0.02	off	off	off	0.02
27	off	off	0.04	0.05	0.04	0.05	0.05
28	off	off	0.04	0.05	0.05	0.04	0.05
29	off	off	0.04	0.05	0.05	off	0.05
30	off	off	0.05	0.05	0.05	off	0.05
31							

<p align="center">Conventional or Direct Filtration</p> <p>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 All turbidity readings < IFE² triggers? <input checked="" type="radio"/> Yes / <input type="radio"/> No</p> <p>Notes:</p>	<p align="center">Monthly Summary (Answer Yes or No)</p> <p>CT's met everyday? (see back) <input checked="" type="radio"/> Yes / <input type="radio"/> No All Cl₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes / <input type="radio"/> No</p> <p>PRINTED NAME: Travis Andrews</p> <p>SIGNATURE: </p> <p>DATE: 12-7-23</p> <p>PHONE #: (817) 320-2056</p> <p>CERT #: T-450182</p>
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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

Nov-2023

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total	CT Met? ³ Yes / No		
	Minimum free chlorine residual after pre-chlorination (C) [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/ 15:00	0.77	9423	38.2	29.4	7.35	10.1	42.3	0.7	69.5	1.22	10208	71.1	86.8	7.63	9.1	52.4	1.7	165.6	2.35	235.2	Yes	
2/ 15:00	0.65	8187	39.1	25.4	7.27	11.2	37.6	0.7	67.6	1.21	15763	45.9	55.6	7.63	10.1	48.9	1.1	113.7	1.81	181.3	Yes	
3/ 21:00	0.77	7249	47.0	36.2	7.43	11.1	40.5	0.9	89.4	1.21	7506	95.9	116.0	7.61	10.3	47.8	2.4	242.7	3.32	332.1	Yes	
4/ 16:00	0.68	9645	39.0	26.5	7.23	11.8	36.0	0.7	73.6	1.21	10104	71.9	87.0	7.67	10.9	47.0	1.9	185.1	2.58	258.7	Yes	
5/ 09:00	0.61	8472	45.3	27.6	7.10	10.9	36.0	0.8	76.7	1.24	7666	94.8	117.6	7.64	10.2	48.9	2.4	240.5	3.15	317.2	Yes	
6/ 21:00	0.62	7284	47.9	29.7	7.01	12.1	32.3	0.9	92.0	1.24	7868	93.0	115.3	7.60	11.5	44.4	2.6	259.7	3.51	351.6	Yes	
7/ 14:00	0.48	7319	45.0	21.6	6.93	12.0	31.3	0.7	69.0	1.23	7986	90.9	111.8	7.58	11.1	45.0	2.5	248.4	3.17	317.5	Yes	
8/ 12:00	0.53	9986	37.8	20.0	6.96	11.3	33.1	0.6	60.4	1.24	10708	68.2	84.6	7.63	10.4	48.1	1.8	175.9	2.36	236.3	Yes	
9/ 12:00	0.41	7423	47.8	19.6	7.01	11.6	32.9	0.6	59.6	1.02	7777	94.2	96.1	7.47	10.6	52.5	1.8	183.0	2.43	242.6	Yes	
10/ 21:00	0.63	11791	34.5	21.7	7.05	11.0	35.3	0.6	61.5	1.04	11916	59.4	61.8	7.58	10.2	46.8	1.3	132.1	1.94	193.5	Yes	
11/ 18:00	0.73	11513	34.6	25.3	7.13	10.9	37.0	0.7	68.4	1.01	11562	61.1	61.7	8.65	10.0	69.5	0.9	88.8	1.57	157.2	Yes	
12/ 10:00	0.75	11916	34.8	26.1	7.06	10.1	38.0	0.7	68.7	1.03	11284	65.8	67.8	7.62	9.3	50.5	1.3	134.3	2.03	202.9	Yes	
13/ 09:00	0.34	7388	44.9	15.3	7.11	10.6	35.9	0.4	42.6	0.86	8055	90.6	77.9	7.63	9.4	49.4	1.6	157.7	2.00	200.3	Yes	
14/ 19:00	0.71	7423	45.8	32.5	7.23	10.7	38.8	0.8	83.8	1.26	8131	89.8	113.1	7.62	9.7	50.5	2.2	224.0	3.08	307.7	Yes	
15/ 09:00	0.85	7354	46.6	39.6	7.14	10.4	38.8	1.0	102.1	1.21	8236	88.3	106.9	7.60	9.7	49.8	2.1	214.7	3.17	316.7	Yes	
16/ 19:00	0.81	7354	46.8	37.9	7.34	11.0	39.8	1.0	95.2	1.25	8152	89.6	112.9	7.63	10.0	49.5	2.3	228.1	3.23	323.3	Yes	
17/ 22:00	0.80	9611	38.0	30.4	7.29	10.4	40.5	0.8	75.1	1.25	9805	74.1	92.6	7.61	9.7	50.3	1.8	184.1	2.59	259.2	Yes	
18/ 19:00	0.83	9722	39.0	32.4	7.38	10.2	42.7	0.8	75.9	1.26	10124	71.3	89.8	7.64	9.3	52.2	1.7	172.0	2.48	247.9	Yes	
19/ 10:00	0.71	9798	39.1	27.7	7.17	10.0	39.7	0.7	69.8	1.26	9805	73.4	92.5	7.64	9.1	52.6	1.8	175.9	2.46	245.6	Yes	
20/ 09:00	0.32	7458	42.3	13.5	7.29	10.2	39.1	0.3	34.5	1.13	8173	88.8	100.4	7.63	9.1	52.0	1.9	193.1	2.28	227.6	Yes	
21/ 20:00	0.73	7388	46.8	34.2	7.38	9.8	43.3	0.8	79.0	1.25	8145	89.3	111.6	7.61	8.8	53.1	2.1	210.2	2.89	289.2	Yes	
22/ 10:00	0.71	7215	45.7	32.5	7.22	9.8	40.9	0.8	79.5	1.28	8069	91.0	116.5	7.59	8.8	53.0	2.2	219.8	2.99	299.3	Yes	
23/ 09:00	0.74	9611	39.5	29.2	7.19	9.6	41.3	0.7	70.7	1.27	10361	70.3	89.3	7.63	8.7	54.1	1.7	165.1	2.36	235.8	Yes	
24/ 22:00	0.79	11590	33.9	26.7	7.33	8.8	45.8	0.6	58.3	1.26	11687	55.4	69.9	7.62	7.9	56.7	1.2	123.3	1.82	181.6	Yes	
25/ 17:00	0.86	5173	55.8	48.0	7.42	8.1	50.1	1.0	95.8	1.25	5215	140.6	175.7	7.63	7.0	60.9	2.9	288.5	3.85	384.3	Yes	
26/ 09:00	0.71	7249	47.2	33.5	7.23	7.4	48.0	0.7	69.8	1.24	8055	90.5	112.2	7.61	6.7	61.2	1.8	183.3	2.53	253.1	Yes	
27/ 19:00	0.82	7180	45.6	37.4	7.42	7.6	51.3	0.7	72.9	1.26	8166	89.3	112.6	7.66	6.8	62.4	1.8	180.4	2.53	253.4	Yes	
28/ 18:00	0.78	9534	39.2	30.6	7.46	7.2	53.1	0.6	57.6	1.25	10229	71.2	89.0	7.64	6.3	63.9	1.4	139.3	1.97	196.9	Yes	
29/ 16:00	0.71	9611	38.8	27.6	7.42	6.9	53.1	0.5	52.0	1.26	10222	71.5	90.1	7.66	5.8	66.4	1.4	135.7	1.88	187.7	Yes	
30/ 18:00	0.82	7388	45.5	37.3	7.35	6.9	52.5	0.7	71.0	1.25	7993	91.6	114.5	7.61	5.9	64.7	1.8	177.0	2.48	248.0	Yes	
31/								#DIV/0!	#DIV/0!													

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