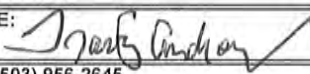


OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas

Conventional or Direct Filtration

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **8/2023**

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

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	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 the 4-hour turbidity readings ≤ 1 NTU? <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: Travis Andrews		
	SIGNATURE: 	9/1/2023	
	PHONE #: (503) 956-2645	CERT #: T450182	

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

Aug-2023

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total		CT Met? ³ Yes / No
	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	
	[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula			[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula					
1/ 11:00	0.67	13368	33.3	22.3	7.43	21.0	20.6	1.1	108.3	0.93	13763	53.5	49.7	7.61	20.3	22.5	2.2	220.9	3.17	329.1	Yes
2/ 19:00	0.83	12361	35.4	29.4	7.64	23.7	18.9	1.6	155.6	0.97	12201	59.5	57.7	7.64	22.7	20.5	2.8	281.5	4.36	437.0	Yes
3/ 15:00	0.63	15451	28.7	18.1	7.56	22.5	19.4	0.9	93.3	0.98	15944	45.6	44.7	7.64	21.3	22.6	2.0	197.8	2.91	291.1	Yes
4/ 22:00	0.89	13152	32.8	29.1	7.66	22.6	20.6	1.4	141.3	0.98	13229	54.9	53.8	7.68	22.0	21.9	2.5	245.7	3.87	386.9	Yes
5/ 18:00	0.81	13368	35.4	29.1	7.58	21.5	21.4	1.4	136.0	0.97	12263	59.7	57.9	7.64	20.7	23.5	2.5	246.4	3.83	382.4	Yes
6/ 07:00	0.81	13409	33.4	27.1	7.41	21.1	20.6	1.3	131.6	0.95	12847	56.5	53.0	7.52	20.6	22.5	2.4	235.6	3.67	367.1	Yes
7/ 13:00	0.49	15361	29.2	14.3	7.45	21.3	19.9	0.7	71.9	1.04	15965	45.8	47.6	7.62	20.4	24.1	2.0	197.5	2.69	269.4	Yes
8/ 17:00	0.69	15541	28.6	19.7	7.58	22.8	19.3	1.0	102.1	0.98	16013	45.3	44.4	7.61	21.6	21.9	2.0	202.7	3.06	304.8	Yes
9/ 15:00	0.65	12986	32.3	21.0	7.58	22.4	19.7	1.1	106.6	1.10	13569	53.9	59.3	7.65	21.3	23.0	2.6	257.8	3.65	364.4	Yes
10/ 16:00	0.52	13493	33.1	17.2	7.59	22.8	19.0	0.9	90.5	1.15	13666	55.4	63.7	7.63	21.6	22.5	2.8	283.1	3.74	373.6	Yes
11/ 22:00	0.87	13152	32.3	28.1	7.64	23.6	19.1	1.5	147.1	1.00	13374	54.5	54.5	7.63	22.8	20.4	2.7	267.2	4.15	414.3	Yes
12/ 16:00	0.81	15673	29.8	24.1	7.60	22.6	19.9	1.2	121.1	0.97	15215	48.5	47.0	7.64	21.4	22.4	2.1	209.8	3.31	330.9	Yes
13/ 10:00	0.78	13194	33.0	25.8	7.43	21.6	20.0	1.3	129.0	1.00	13170	55.5	55.5	7.64	21.0	23.1	2.4	240.3	3.69	369.3	Yes
14/ 17:00	0.69	15624	29.9	20.6	7.65	24.0	18.2	1.1	113.2	0.97	15861	45.8	44.4	7.64	23.0	20.1	2.2	220.9	3.34	334.1	Yes
15/ 08:00	0.07	13319	38.7	2.7	7.65	24.7	16.3	0.2	16.6	0.82	13562	55.5	45.5	7.61	24.1	18.1	2.5	251.4	2.68	267.9	Yes
16/ 13:00	0.48	13194	33.2	15.9	7.52	22.8	18.4	0.9	86.4	0.99	13645	53.4	52.9	7.70	21.9	22.2	2.4	238.3	3.25	324.7	Yes
17/ 10:00	0.77	15541	30.2	23.3	7.46	22.6	18.9	1.2	123.3	0.99	16083	47.8	47.3	7.55	22.3	20.4	2.3	231.9	3.55	355.1	Yes
18/ 21:00	0.79	15361	29.3	23.1	7.69	23.4	19.6	1.2	117.9	0.86	15493	47.4	40.8	7.65	22.8	20.2	2.0	202.0	3.20	319.8	Yes
19/ 15:00	0.80	13194	33.3	26.6	7.60	21.3	21.8	1.2	122.0	0.86	13465	54.1	46.0	7.63	20.2	24.0	1.9	191.7	3.14	313.7	Yes
20/ 10:00	0.81	15541	28.5	23.1	7.45	20.8	21.3	1.1	108.5	0.89	16187	45.2	40.2	7.55	20.4	22.9	1.8	175.5	2.84	284.0	Yes
21/ 19:00	0.74	13368	33.6	24.8	7.73	22.0	21.7	1.1	114.3	1.02	13020	55.0	56.1	7.60	21.0	22.8	2.5	246.1	3.60	360.3	Yes
22/ 16:00	0.76	13069	32.9	25.0	7.65	21.5	21.8	1.1	114.7	0.81	13409	54.2	43.9	7.68	20.4	23.9	1.8	183.7	2.99	298.4	Yes
23/ 13:00	0.60	13194	33.0	19.8	7.53	20.4	22.1	0.9	89.6	0.92	13562	54.1	49.8	7.69	19.4	26.1	1.9	190.8	2.81	280.4	Yes
24/ 18:00	0.97	15312	29.1	28.2	7.72	21.6	22.7	1.2	124.2	0.91	15854	46.0	41.9	7.67	20.6	23.8	1.8	176.1	3.00	300.3	Yes
25/ 18:00	0.83	13277	31.5	26.2	7.69	23.1	20.0	1.3	131.0	0.91	12333	59.4	54.1	7.63	22.1	21.2	2.6	255.2	3.86	386.2	Yes
26/ 16:00	0.79	15541	27.5	21.7	7.66	22.3	20.9	1.0	103.8	0.84	14715	50.8	42.7	7.65	21.3	22.3	1.9	191.5	2.96	295.3	Yes
27/ 10:00	0.81	12944	32.3	26.2	7.43	21.5	20.2	1.3	129.7	0.81	13006	55.8	45.2	7.63	21.0	22.5	2.0	200.9	3.30	330.6	Yes
28/ 17:00	0.72	13152	33.0	23.8	7.42	20.4	21.4	1.1	111.2	0.87	13624	54.0	46.9	7.64	19.6	25.1	1.9	186.9	2.98	298.1	Yes
29/ 14:00	0.54	13319	33.7	18.2	7.40	20.1	21.4	0.9	85.0	0.88	13576	53.8	47.3	7.68	19.1	26.2	1.8	180.5	2.66	265.6	Yes
30/ 10:00	0.37	12402	26.9	10.0	7.41	20.4	20.5	0.5	48.8	0.83	14236	52.8	43.9	7.61	19.8	24.4	1.8	179.9	2.29	228.7	Yes
31/ 10:00	0.38	13152	28.6	10.9	7.40	21.0	20.1	0.5	54.2	0.83	14236	53.1	44.1	7.59	20.40	23.2	1.9	190.1	2.44	244.3	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.