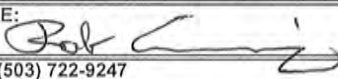


OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas
Conventional or Direct Filtration

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **6/2021**

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	0.02	off	0.05
2	off	off	0.02	0.02	0.02	off	0.07
3	off	off	0.02	0.02	off	off	0.06
4	off	off	0.02	0.02	0.02	0.02	0.04
5	off	off	off	0.02	0.02	off	0.10
6	off	0.02	0.02	off	off	off	0.03
7	off	off	0.02	0.02	0.02	off	0.06
8	off	off	0.02	0.02	0.02	off	0.05
9	off	off	0.02	0.02	0.02	off	0.04
10	off	off	0.02	0.02	0.02	off	0.04
11	off	off	0.02	0.02	0.02	0.02	0.21
12	off	off	off	0.02	0.02	off	0.04
13	off	0.02	0.02	off	off	off	0.04
14	off	off	0.02	0.02	0.02	off	0.14
15	off	off	0.02	0.02	0.02	off	0.09
16	off	off	0.02	0.02	0.02	off	0.16
17	off	off	0.02	0.02	0.02	off	0.06
18	off	off	0.02	0.02	0.02	0.02	0.09
19	off	off	off	0.02	0.02	off	0.06
20	off	off	0.02	0.02	off	off	0.06
21	off	off	0.02	0.02	0.02	off	0.06
22	off	off	0.03	0.02	0.02	off	0.06
23	off	off	0.02	0.02	off	off	0.06
24	off	off	0.02	0.02	0.02	off	0.18
25	off	off	0.03	0.04	0.02	0.02	0.10
26	off	off	off	0.02	0.03	off	0.15
27	off	0.02	0.02	off	off	off	0.10
28	off	off	0.02	0.02	0.02	off	0.11
29	off	off	0.02	0.03	off	off	0.16
30	off	0.02	0.03	0.02	0.05	off	0.11
31							

Conventional or Direct Filtration		Monthly Summary (Answer Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? <input checked="" type="checkbox"/> Yes / No	All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="checkbox"/> Yes / No	CT's met everyday? (see back) <input checked="" type="checkbox"/> Yes / No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="checkbox"/> Yes / No
All turbidity readings < IFE ² triggers? <input checked="" type="checkbox"/> Yes / No ²		Notes:	
PRINTED NAME: Rob Cummings			
SIGNATURE: 		DATE: 7/2/21	
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))

OHA - Drinking Water Program - Surface Water Quality Data Form

WTP- : A

System Name: Clackamas River Water-Clackamas ID#: 4100187

Month/Year: Jun-21

Disinfection
Giardia Log
Inactiv: 1

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/ 19:00	0.85	12131	31.9	27.1	7.01	19.7	20.9	1.3	129.7	0.89	12576	60.2	53.6	7.58	18.00	27.9	1.9	191.9	3.22	321.6	yes	
2/ 13:00	0.68	12597	29.2	19.9	7.24	17.0	26.0	0.8	76.4	0.90	14590	48.4	43.6	7.64	15.50	33.4	1.3	130.6	2.07	207.0	yes	
3/ 14:00	0.69	12534	30.3	20.9	7.27	17.8	25.0	0.8	83.6	0.91	14833	51.0	46.4	7.64	16.20	31.9	1.5	145.3	2.29	228.9	yes	
4/ 09:00	0.81	10305	37.2	30.1	7.24	16.7	26.8	1.1	112.3	0.96	11659	54.7	52.5	7.63	16.40	31.6	1.7	166.1	2.78	278.5	yes	
5/ 13:00	0.75	13937	25.7	19.3	7.32	17.2	26.5	0.7	72.6	0.96	14236	44.1	42.3	7.65	16.00	32.6	1.3	129.7	2.02	202.3	yes	
6/ 08:00	0.76	9826	39.3	29.9	7.25	16.1	27.8	1.1	107.5	0.91	10243	65.1	59.2	7.62	15.90	32.3	1.8	183.2	2.91	290.7	yes	
7/13:00	0.75	11465	34.3	25.7	7.30	16.3	27.9	0.9	92.3	0.92	11930	63.1	58.1	7.61	15.20	33.7	1.7	172.1	2.64	264.4	yes	
8/ 13:00	0.71	11701	34.4	24.4	7.32	16.6	27.4	0.9	89.1	0.87	11951	62.1	54.0	7.64	15.40	33.5	1.6	161.4	2.51	250.5	yes	
9/ 09:00	0.84	8972	38.5	32.3	7.27	15.6	29.1	1.1	111.2	0.92	9249	77.2	71.0	7.67	16.10	32.5	2.2	218.4	3.30	329.6	yes	
10/ 20:00	0.91	9486	38.8	35.3	7.38	17.5	27.0	1.3	130.7	0.91	10958	65.2	59.3	7.54	16.40	30.5	1.9	194.5	3.25	325.2	yes	
11/18:00	0.81	9472	39.9	32.3	7.35	16.0	29.0	1.1	111.3	0.92	9006	75.7	69.6	7.57	14.80	34.1	2.0	204.0	3.15	315.2	yes	
12/ 19:00	0.80	10826	31.4	25.1	7.43	19.4	24.2	1.0	103.9	0.91	11354	59.7	54.3	7.53	18.00	27.5	2.0	197.4	3.01	301.3	yes	
13/ 12:00	0.71	8374	38.4	27.3	7.26	16.6	26.9	1.0	101.4	0.93	11444	59.6	55.4	7.55	15.60	32.3	1.7	171.8	2.73	273.2	yes	
14/ 11:00	0.76	9861	40.1	30.5	7.27	15.9	28.3	1.1	107.7	0.92	9326	81.9	75.3	7.57	15.10	33.5	2.2	224.9	3.33	332.6	yes	
15/ 11:00	0.65	9402	40.3	26.2	7.29	15.7	28.5	0.9	91.9	0.90	9347	82.1	73.9	7.57	15.00	33.6	2.2	219.7	3.12	311.5	yes	
16/ 15:00	0.00	8756	39.7	0.0	7.28	17.5	23.8	0.0	0.0	0.88	9305	73.1	64.3	7.60	15.80	32.2	2.0	199.6	2.00	199.6	yes	
17/ 05:00	0.00	16041	31.3	0.0	7.35	18.4	23.1	0.0	0.0	0.88	14618	47.0	41.4	7.61	16.60	30.7	1.3	134.5	1.35	134.5	yes	
18/ 12:00	0.00	11034	40.2	0.0	7.31	17.1	24.6	0.0	0.0	0.89	11361	56.6	50.4	7.65	15.80	32.8	1.5	153.5	1.54	153.5	yes	
19/ 14:00	0.00	11249	34.0	0.0	7.39	17.6	24.5	0.0	0.0	0.88	11701	56.7	49.9	7.63	16.60	30.9	1.6	161.2	1.61	161.2	yes	
20/ 10:00	0.00	11618	32.5	0.0	7.32	17.4	24.2	0.0	0.0	0.88	11999	55.2	48.6	7.60	16.90	30.1	1.6	161.6	1.62	161.6	yes	
21/ 09:00	0.00	12562	29.0	0.0	7.31	18.5	22.6	0.0	0.0	0.87	14770	50.1	43.6	7.58	18.30	27.3	1.6	159.4	1.59	159.4	yes	
22/ 16:00	0.00	12506	28.0	0.0	7.48	21.0	20.6	0.0	0.0	0.85	14673	49.5	42.1	7.59	19.50	25.4	1.7	165.4	1.65	165.4	yes	
23/ 12:00	0.00	11861	28.8	0.0	7.39	19.0	22.5	0.0	0.0	0.87	16166	42.3	36.8	7.61	17.90	28.3	1.3	130.0	1.30	130.0	yes	
24/14:00	0.00	13763	31.5	0.0	7.42	20.4	20.9	0.0	0.0	0.86	14395	52.0	44.7	7.59	18.90	26.4	1.7	169.3	1.69	169.3	yes	
25/ 09:00	0.00	12583	35.0	0.0	7.41	20.1	21.2	0.0	0.0	0.87	12013	58.0	50.5	7.58	19.90	24.8	2.0	203.5	2.01	203.5	yes	
26/ 15:00	0.00	15472	28.1	0.0	7.47	23.0	18.3	0.0	0.0	0.91	16423	46.4	42.2	7.67	21.20	23.7	1.8	178.2	1.78	178.2	yes	
27/ 12:00	0.00	15618	28.2	0.0	7.40	22.2	18.8	0.0	0.0	0.92	16472	42.2	38.9	7.62	20.90	23.8	1.6	163.6	1.64	163.6	yes	
28/ 14:00	0.00	14166	27.7	0.0	7.52	24.4	17.2	0.0	0.0	0.88	16555	46.0	40.5	7.59	22.90	20.8	1.9	194.2	1.94	194.2	yes	
29/ 08:00	0.00	14430	25.9	0.0	7.45	22.9	18.3	0.0	0.0	0.91	16361	43.6	39.7	7.57	23.00	20.7	1.9	192.1	1.92	192.1	yes	
30/ 07:00	0.00	14861	27.4	0.0	7.46	23.5	17.8	0.0	0.0	0.88	15916	45.6	40.1	7.60	23.70	20.0	2.0	201.0	2.01	201.0	yes	
31/ 00:00																						

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