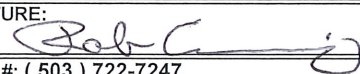


OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas

Conventional or Direct Filtration

System Name: **CLACKAMAS RIVER WATER - CLACKAMAS** ID #: **4100187** WTP-: **WTP-A** Month/Year: **2/2021**

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

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 / No	CT's met everyday? (see back) <input checked="" type="radio"/> Yes / No	All Cl ₂ residuals at entry point ≥ 0.2 mg/l? <input checked="" type="radio"/> Yes / No	
All the 4-hour turbidity readings ≤ 1 NTU? <input checked="" type="radio"/> Yes / No			
All turbidity readings < IFE ² triggers? <input checked="" type="radio"/> Yes / No			
Notes:	PRINTED NAME: Rob Cummings		
	SIGNATURE: 	DATE: 3/2/21	
	PHONE #: (503) 722-7247	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: February 2021

Disinfection
Giardia Log
Inactiv: 1

Date / Time	Pre-Chlorination Segment									Post-Chlorination Segment									Total		CT Met? ³
	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/ 13:00	0.95	10722	37.9	36.0	7.08	7.8	45.6	0.8	79.0	0.89	11256	67.0	59.6	7.61	6.80	58.5	1.0	101.9	1.81	180.9	yes
2/ 14:00	0.82	10347	37.1	30.4	7.11	8.1	44.5	0.7	68.3	0.88	11006	68.2	60.0	7.61	7.00	57.6	1.0	104.1	1.72	172.5	yes
3/ 10:00	0.83	11034	41.1	34.1	7.07	7.7	45.1	0.8	75.6	0.89	11763	60.4	53.8	7.60	6.90	57.9	0.9	92.8	1.68	168.5	yes
4/ 11:00	0.87	10958	39.3	34.2	7.06	7.7	45.2	0.8	75.7	0.88	12666	57.2	50.3	7.60	6.80	58.2	0.9	86.5	1.62	162.2	yes
5/ 11:00	0.84	11034	34.4	28.9	7.07	8.1	44.0	0.7	65.7	0.90	11499	60.5	54.5	7.61	7.10	57.4	0.9	94.9	1.61	160.6	yes
6/ 17:00	0.80	8569	43.0	34.4	7.09	8.2	43.8	0.8	78.5	0.90	7548	94.0	84.6	7.60	7.20	56.8	1.5	148.9	2.27	227.5	yes
7/ 09:00	0.79	9479	41.6	32.9	7.05	7.8	44.3	0.7	74.2	0.91	10118	71.8	65.3	7.60	7.10	57.3	1.1	114.1	1.88	188.3	yes
8/ 08:00	0.37	10048	39.8	14.7	7.07	8.0	42.0	0.4	35.1	0.82	10833	63.7	52.2	7.60	7.30	55.9	0.9	93.4	1.29	128.5	yes
9/ 13:00	0.81	9035	42.2	34.2	7.05	7.9	44.1	0.8	77.5	0.83	8687	73.1	60.7	7.59	6.90	57.3	1.1	105.9	1.83	183.4	yes
10/ 13:00	0.81	10784	33.3	27.0	7.09	7.1	47.2	0.6	57.2	0.88	11423	59.0	51.9	7.62	6.10	61.5	0.8	84.4	1.42	141.6	yes
11/ 11:00	0.85	11590	35.8	30.4	7.10	7.0	47.9	0.6	63.6	0.88	11680	62.9	55.4	7.62	6.20	61.1	0.9	90.6	1.54	154.2	yes
12/ 09:00	0.89	9298	39.9	35.5	7.10	5.7	52.5	0.7	67.7	0.95	8777	78.4	74.5	7.62	5.60	64.1	1.2	116.1	1.84	183.8	yes
13/ 12:00	0.91	8840	43.8	39.9	7.07	4.7	55.6	0.7	71.6	0.86	7631	94.4	81.2	7.63	4.10	70.6	1.2	115.0	1.87	186.6	yes
14/ 10:00	0.83	8979	41.4	34.4	7.05	5.0	53.6	0.6	64.1	0.90	10326	72.9	65.6	7.62	4.40	69.2	0.9	94.8	1.59	158.8	yes
15/ 08:00	0.73	11416	34.2	25.0	7.09	5.4	52.4	0.5	47.7	0.84	12861	52.2	43.8	7.61	4.60	67.6	0.6	64.9	1.13	112.6	yes
16/ 17:00	0.87	12624	31.5	27.4	7.01	6.5	48.0	0.6	57.0	0.89	12618	55.2	49.1	7.60	5.60	63.2	0.8	77.6	1.35	134.7	yes
17/ 01:00	0.78	12777	32.5	25.4	6.93	6.5	46.2	0.5	54.8	0.89	12687	56.1	49.9	7.60	5.60	63.2	0.8	79.0	1.34	133.8	yes
18/ 13:00	0.83	8416	41.6	34.5	6.89	6.9	44.6	0.8	77.3	0.87	8979	81.4	70.8	7.59	6.10	60.8	1.2	116.5	1.94	193.9	yes
19/ 21:00	0.83	12194	36.6	30.4	6.96	7.9	42.8	0.7	70.9	0.90	12180	62.1	55.9	7.60	7.00	57.6	1.0	97.1	1.68	168.0	yes
20/ 18:00	0.87	9374	38.8	33.8	6.98	8.3	42.2	0.8	80.0	0.88	10347	66.1	58.2	7.60	7.30	56.3	1.0	103.3	1.83	183.3	yes
21/ 10:00	0.92	9930	40.8	37.5	6.96	7.8	43.6	0.9	86.2	0.89	10381	60.9	54.2	7.61	7.00	57.7	0.9	93.9	1.80	180.1	yes
22/ 08:00	0.86	9180	38.1	32.8	6.98	8.0	43.0	0.8	76.2	0.81	10944	71.4	57.8	7.58	7.10	56.2	1.0	102.9	1.79	179.1	yes
23/ 11:00	0.84	9986	38.3	32.2	7.00	7.6	44.4	0.7	72.5	0.88	11284	64.1	56.4	7.69	6.80	60.1	0.9	93.8	1.66	166.3	yes
24/ 15:00	0.81	11944	34.2	27.7	6.99	8.3	42.1	0.7	65.8	0.89	13312	53.6	47.7	7.60	7.10	57.1	0.8	83.5	1.49	149.4	yes
25/ 11:00	0.77	11965	35.0	27.0	7.00	7.5	44.3	0.6	60.8	0.89	11645	59.0	52.5	7.61	6.50	59.7	0.9	88.0	2.01	148.8	yes
26/ 20:00	0.98	10937	38.2	37.4	7.05	7.8	45.3	0.8	82.7	0.90	10638	72.0	64.8	7.59	7.00	57.4	1.1	113.0	1.96	195.7	yes
27/ 12:00	0.93	9743	40.0	37.2	7.05	7.5	45.9	0.8	81.0	0.92	10090	67.7	62.3	7.60	6.50	59.7	1.0	104.3	1.85	185.4	yes
28/ 08:00	0.76	8805	38.9	29.6	7.07	8.1	43.6	0.7	67.8	0.88	7361	69.8	61.4	7.60	6.90	57.8	1.1	106.2	1.74	174.0	yes
29/ 00:00				0.0			8.4	0.0	0.0				0.0			8.4	0.0	0.0	0.00	0.0	no
30/ 00:00				0.0			8.4	0.0	0.0				0.0			8.4	0.0	0.0	0.00	0.0	no
31/ 00:00				0.0			8.4	0.0	0.0				0.0			8.4	0.0	0.0	0.00	0.0	no

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