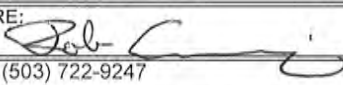
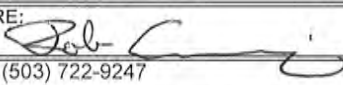
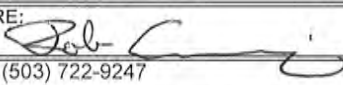


OHA - Drinking Water Program – Turbidity Monitoring Report Form County: Clackamas

Conventional or Direct Filtration

System Name: CLACKAMAS RIVER WATER - CLACKAMAS ID #: 4100187 WTP-: WTP-A Month/Year: 10/2022

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	0.02
2	off	0.02	0.02	off	off	off	0.02
3	off	off	0.02	0.02	0.02	off	0.02
4	off	off	0.02	0.02	off	off	0.02
5	off	off	0.02	0.02	off	off	0.02
6	off	off	0.03	0.01	off	off	0.03
7	off	off	0.02	0.02	0.02	off	0.02
8	off	off	0.02	0.02	off	off	0.02
9	off	0.02	0.02	off	off	off	0.02
10	off	off	0.01	0.02	0.02	off	0.02
11	off	off	0.02	0.02	0.02	off	0.02
12	off	off	0.02	0.02	0.02	off	0.02
13	off	off	0.02	0.02	0.02	off	0.02
14	off	off	0.02	0.02	0.02	0.02	0.02
15	off	off	0.02	0.02	off	off	0.02
16	off	0.02	0.02	off	off	off	0.02
17	off	off	0.02	0.02	0.02	off	0.02
18	off	off	0.02	0.02	0.02	off	0.02
19	off	off	off	0.02	0.02	off	0.02
20	off	off	0.02	0.02	0.02	off	0.02
21	off	off	0.02	0.02	0.02	0.02	0.02
22	off	off	0.02	0.02	off	off	0.02
23	off	0.02	0.02	off	off	off	0.02
24	off	off	0.02	0.02	0.02	off	0.02
25	off	off	0.02	0.02	0.02	off	0.02
26	off	off	0.02	0.02	0.02	off	0.02
27	off	off	0.02	0.02	0.02	off	0.02
28	off	off	0.04	0.03	0.02	0.02	0.04
29	off	off	0.02	0.02	off	off	0.02
30	off	0.02	0.02	off	off	off	0.02
31	off	0.02	0.02	off	off	off	0.02

<p style="text-align: center;">Conventional or Direct Filtration</p> <p>95% of the 4-hour turbidity readings ≤ 0.3 NTU? <u>Yes</u>/ No</p> <p>All the 4-hour turbidity readings ≤ 1 NTU? <u>Yes</u>/ No</p> <p>All turbidity readings < IFE² triggers? <u>Yes</u>/ No²</p> <p>Notes:</p>	<p style="text-align: center;">Monthly Summary (Answer Yes or No)</p> <table style="width: 100%;"> <tr> <td style="width: 50%;">CT's met everyday? (see back)</td> <td style="width: 50%;">All Cl₂ residuals at entry point ≥ 0.2 mg/l?</td> </tr> <tr> <td style="text-align: center;"><u>Yes</u>/ No</td> <td style="text-align: center;"><u>Yes</u>/ No</td> </tr> </table> <p>PRINTED NAME: Rob Cummings</p> <table style="width: 100%;"> <tr> <td style="width: 60%;">SIGNATURE: </td> <td style="width: 40%;">DATE: 11/1/2022</td> </tr> <tr> <td>PHONE #: (503) 722-9247</td> <td>CERT #: 5017</td> </tr> </table>	CT's met everyday? (see back)	All Cl ₂ residuals at entry point ≥ 0.2 mg/l?	<u>Yes</u> / No	<u>Yes</u> / No	SIGNATURE: 	DATE: 11/1/2022	PHONE #: (503) 722-9247	CERT #: 5017
CT's met everyday? (see back)	All Cl ₂ residuals at entry point ≥ 0.2 mg/l?								
<u>Yes</u> / No	<u>Yes</u> / No								
SIGNATURE: 	DATE: 11/1/2022								
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 = Indivd. 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: Oct-22					Disinfection Giardia Log Inactiv: 1	

	Pre-Chlorination Segment									Post-Chlorination Segment										Total	
Date / Time	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	CT Met? ³
	[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula			[ppm or mg/L]	[GPM]	[minutes]	C X T		[° C]	formula					Yes / No
1/ 18:00	0.74	9791	40.2	29.7	7.63	17.7	28.5	1.0	104.5	0.87	9534	71.7	62.4	7.62	16.80	30.4	2.1	205.0	3.10	309.6	yes
2/ 11:00	0.76	9791	40.2	30.6	7.41	16.3	28.9	1.1	105.6	0.87	10840	61.8	53.8	7.62	15.90	32.2	1.7	167.0	2.73	272.6	yes
3/ 13:00	0.69	12569	33.2	22.9	7.38	16.2	28.6	0.8	80.1	0.89	12506	55.6	49.5	7.58	15.60	32.5	1.5	152.5	2.33	232.6	yes
4/ 14:00	0.77	13472	32.5	25.0	7.43	16.0	29.7	0.8	84.3	0.89	14631	50.8	45.2	7.58	15.20	33.3	1.4	135.8	2.20	220.1	yes
5/ 10:00	0.89	13472	32.3	28.7	7.54	15.8	31.6	0.9	90.9	0.94	13618	56.0	52.6	7.57	15.30	33.1	1.6	158.8	2.50	249.8	yes
6/ 15:00	0.74	15486	28.7	21.2	7.47	16.6	28.9	0.7	73.5	0.95	14736	50.6	48.1	7.70	15.70	33.8	1.4	142.2	2.16	215.7	yes
7/ 19:00	0.82	13472	30.3	24.8	7.67	17.3	29.8	0.8	83.3	0.94	14194	49.9	46.9	7.61	16.40	31.3	1.5	149.7	2.33	233.0	yes
8/ 19:00	0.83	11388	35.2	29.2	7.57	17.2	29.1	1.0	100.5	0.89	9499	69.4	61.8	7.63	16.30	31.6	2.0	195.6	2.96	296.2	yes
9/ 10:00	0.85	9791	40.3	34.3	7.35	15.9	29.4	1.2	116.7	0.89	8083	86.7	77.2	7.60	15.60	32.7	2.4	236.2	3.53	352.9	yes
10/ 09:00	0.21	9791	39.8	8.4	7.46	16.1	28.1	0.3	29.8	0.77	10118	72.1	55.5	7.61	15.10	33.4	1.7	166.2	1.96	196.0	yes
11/ 17:00	0.82	12569	36.4	29.8	7.51	16.8	29.2	1.0	102.3	0.89	12409	59.6	53.1	7.63	16.00	32.2	1.7	165.0	2.67	267.3	yes
12/ 14:00	0.67	12569	37.1	24.9	7.44	15.3	30.8	0.8	80.7	0.88	12326	63.0	55.4	7.61	14.40	35.4	1.6	156.8	2.37	237.5	yes
13/ 13:00	0.72	12569	34.3	24.7	7.45	14.7	32.3	0.8	76.5	0.95	12583	55.4	52.6	7.62	14.20	36.2	1.5	145.3	2.22	221.8	yes
14/ 21:00	0.80	12569	33.9	27.1	7.58	16.3	30.7	0.9	88.2	0.90	11631	57.3	51.6	7.63	15.50	33.3	1.6	155.1	2.43	243.3	yes
15/ 17:00	0.80	11388	34.0	27.2	7.55	15.8	31.4	0.9	86.6	0.88	11840	54.5	48.0	7.62	14.90	34.4	1.4	139.6	2.26	226.2	yes
16/ 08:00	0.80	9791	41.2	33.0	7.40	15.5	30.4	1.1	108.3	0.90	8048	84.2	75.8	7.56	15.20	33.1	2.3	229.0	3.37	337.2	yes
17/ 10:00	0.44	9791	39.1	17.2	7.44	15.4	29.9	0.6	57.6	0.77	11097	64.7	49.8	7.62	14.30	35.3	1.4	141.2	1.99	198.8	yes
18/ 12:00	0.68	9791	36.0	24.5	7.40	14.3	32.4	0.8	75.5	0.94	11173	66.5	62.5	7.62	13.80	37.1	1.7	168.4	2.44	243.9	yes
19/ 17:00	0.87	12569	36.2	31.5	7.53	15.2	32.7	1.0	96.4	0.94	11812	60.1	56.5	7.62	14.00	36.6	1.5	154.2	2.51	250.6	yes
20/ 18:00	0.89	12569	34.7	30.9	7.53	14.5	34.2	0.9	90.2	0.95	12083	62.0	58.9	7.63	13.70	37.5	1.6	156.9	2.47	247.2	yes
21/ 17:00	0.82	12569	35.5	29.1	7.47	13.6	35.2	0.8	82.6	0.94	11881	58.7	55.2	7.63	12.80	39.8	1.4	138.8	2.21	221.4	yes
22/ 19:00	0.80	9791	38.9	31.1	7.47	13.9	34.5	0.9	90.2	0.90	7999	86.8	78.1	7.66	13.20	39.0	2.0	200.5	2.91	290.7	yes
23/ 10:00	0.71	9791	39.4	28.0	7.27	12.8	34.2	0.8	81.7	0.90	11805	56.5	50.9	7.62	12.20	41.0	1.2	124.0	2.06	205.7	yes
24/ 10:00	0.68	9791	42.1	28.6	7.29	12.9	33.7	0.8	84.9	0.73	10013	76.9	56.1	7.63	12.30	40.1	1.4	139.9	2.25	224.9	yes
25/ 19:00.	0.73	9791	40.3	29.4	7.40	12.7	36.1	0.8	81.5	0.92	9833	78.6	72.3	7.61	11.90	41.8	1.7	173.1	2.01	254.6	yes
26/ 15:00	0.64	9791	40.0	25.6	7.31	12.3	35.6	0.7	72.0	0.93	10097	69.1	64.3	7.53	11.70	41.2	1.6	156.0	2.28	227.9	yes
27/ 10:00	0.67	12569	36.4	24.4	7.26	11.6	36.7	0.7	66.5	0.96	12361	54.9	52.7	7.49	11.30	41.9	1.3	125.9	1.92	192.4	yes
28/ 19:00	0.70	11388	38.5	27.0	7.31	12.0	36.5	0.7	73.8	0.85	10180	67.9	57.7	7.62	11.40	43.0	1.3	134.3	2.08	208.1	yes
29/ 16:00	0.76	11388	37.2	28.3	7.28	12.5	35.2	0.8	80.3	0.87	10888	62.7	54.5	7.64	12.00	41.7	1.3	130.8	2.11	211.1	yes
30/ 10:00	0.67	11388	37.2	24.9	7.23	12.3	34.7	0.7	71.8	0.87	10916	61.3	53.3	7.64	11.90	42.0	1.3	127.0	1.99	198.8	yes
31/ 14:00	0.61	7638	53.2	32.5	7.26	12.4	34.6	0.9	93.7	0.85	7118	110.7	94.1	7.64	11.90	41.9	2.2	224.7	3.18	318.4	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.

Revised April 2020