

# 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: 1/2021

DAY	2 AM [NTU]	6 AM [NTU]	10 AM [NTU]	2 PM [NTU]	6 PM [NTU]	10 PM [NTU]	Highest Reading of the Day <sup>1</sup> [NTU]
1	off	off	0.02	0.02	0.02	0.02	0.04
2	off	off	off	0.02	0.02	off	0.05
3	off	0.02	0.02	off	off	off	0.05
4	off	off	0.02	0.03	off	off	0.06
5	off	off	0.03	0.04	off	off	0.09
6	off	off	0.04	0.05	off	off	0.06
7	off	off	0.04	0.03	off	off	0.05
8	off	off	0.03	0.03	0.03	0.02	0.05
9	off	off	off	0.02	0.02	off	0.05
10	off	0.02	0.02	off	off	off	0.04
11	off	off	0.02	0.02	off	off	0.05
12	off	off	0.03	0.03	off	off	0.05
13	off	off	0.04	0.03	0.03	0.02	0.05
14	off	off	0.03	0.03	off	off	0.22
15	off	off	0.03	0.03	0.02	0.02	0.03
16	off	off	off	0.02	0.02	off	0.04
17	off	0.02	0.02	off	off	off	0.04
18	off	off	0.02	off	off	off	0.04
19	off	off	0.02	0.02	off	off	0.04
20	off	off	0.03	0.03	off	off	0.04
21	off	off	0.02	0.02	off	off	0.04
22	off	off	0.03	0.02	0.02	0.02	0.04
23	off	off	off	0.02	0.02	off	0.04
24	off	0.02	0.02	off	off	off	0.04
25	off	off	0.02	0.02	off	off	0.07
26	off	off	0.02	0.03	off	off	0.04
27	off	off	0.02	0.02	off	off	0.05
28	off	off	0.02	0.03	off	off	0.04
29	off	off	0.02	0.02	0.02	0.02	0.04
30	off	off	off	0.02	0.02	off	0.04
31	off	off	0.02	0.02	off	off	0.04

<b>Conventional or Direct Filtration</b> 95% of the 4-hour turbidity readings $\leq$ 0.3 NTU? <u>Yes</u> / No All the 4-hour turbidity readings $\leq$ 1 NTU? <u>Yes</u> / No All turbidity readings < IFE <sup>2</sup> triggers? <u>Yes</u> / No <sup>2</sup> Notes:	<b>Monthly Summary (Answer Yes or No)</b> <table style="width: 100%;"> <tr> <td style="width: 50%;">CT's met everyday? (see back) <u>Yes</u> / No</td> <td style="width: 50%;">All Cl<sub>2</sub> residuals at entry point <math>\geq</math> 0.2 mg/l? <u>Yes</u> / No</td> </tr> </table> PRINTED NAME: <u>Robert Cummings</u> <table style="width: 100%;"> <tr> <td style="width: 60%;">SIGNATURE: <u>[Signature]</u></td> <td style="width: 40%;">DATE: <u>2/3/21</u></td> </tr> <tr> <td>PHONE #: ( )</td> <td>CERT #: <u>5017</u></td> </tr> </table>	CT's met everyday? (see back) <u>Yes</u> / No	All Cl <sub>2</sub> residuals at entry point $\geq$ 0.2 mg/l? <u>Yes</u> / No	SIGNATURE: <u>[Signature]</u>	DATE: <u>2/3/21</u>	PHONE #: ( )	CERT #: <u>5017</u>
CT's met everyday? (see back) <u>Yes</u> / No	All Cl <sub>2</sub> residuals at entry point $\geq$ 0.2 mg/l? <u>Yes</u> / No						
SIGNATURE: <u>[Signature]</u>	DATE: <u>2/3/21</u>						
PHONE #: ( )	CERT #: <u>5017</u>						

<sup>1</sup> 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.

<sup>2</sup> IFE = Indiv. Filter Effl. (OAR 333-061-0040(1)(e)(B&C))



	Pre-Chlorination Segment									Post-Chlorination Segment										Total	
Date / Time	Minimum free chlorine residual after pre-chlorination ( C ) <sub>3</sub>	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 ) <sub>3</sub>	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? <sup>3</sup>
	[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/ 22:00	0.83	10972	35.9	29.8	7.00	8.3	42.3	0.7	70.4	0.89	13194	57.1	50.8	7.57	8.10	52.8	1.0	96.2	1.67	166.6	yes
2/ 16:00	0.82	9916	40.8	33.5	7.04	8.7	41.8	0.8	80.1	0.89	11784	57.0	50.7	7.59	7.40	55.8	0.9	91.0	1.71	171.1	yes
3/ 10:00	0.71	9104	45.4	32.2	6.96	8.6	40.4	0.8	79.9	0.89	7840	84.9	75.6	7.58	8.60	51.3	1.5	147.4	2.27	227.2	yes
4/ 10:00	0.66	10472	35.8	23.6	6.81	9.0	37.1	0.6	63.6	0.88	11812	66.6	58.6	7.57	8.00	53.1	1.1	110.3	1.74	174.0	yes
5/ 10:00	0.77	11326	34.2	26.3	6.85	8.6	39.1	0.7	67.3	0.90	11465	63.3	57.0	7.60	8.00	53.8	1.1	105.9	1.73	173.2	yes
6/ 13:00	0.82	10874	35.4	29.0	6.83	8.5	39.3	0.7	73.8	0.88	12138	53.0	46.6	7.60	7.60	55.2	0.8	84.6	1.58	158.4	yes
7/ 12:00	0.76	11034	34.4	26.1	6.85	8.5	39.3	0.7	66.5	0.93	11472	57.9	53.8	7.59	7.80	54.5	1.0	98.7	1.65	165.2	yes
8/ 16:00	0.86	12958	32.1	27.6	6.94	9.1	39.5	0.7	70.0	0.89	11756	57.1	50.8	7.56	8.20	52.3	1.0	97.2	1.67	167.2	yes
9/ 16:00	0.87	9486	35.1	30.5	6.98	8.5	41.7	0.7	73.3	0.91	10631	64.3	58.5	7.58	7.50	55.3	1.1	105.8	1.79	179.1	yes
10/ 06:00	0.84	9083	43.7	36.7	6.96	8.2	42.0	0.9	87.3	0.86	8840	74.7	64.2	7.55	7.70	53.7	1.2	119.6	2.07	206.9	yes
11/ 10:00	0.93	9243	40.3	37.5	7.00	7.8	44.2	0.8	84.7	0.95	13638	58.5	55.6	7.59	7.20	56.9	1.0	97.6	1.82	182.4	yes
12/ 12:00	0.76	11680	35.5	27.0	6.95	9.3	38.6	0.7	69.8	0.88	11548	62.3	54.8	7.57	8.10	52.8	1.0	103.9	1.74	173.7	yes
13/ 09:00	0.84	7180	46.3	38.9	6.83	9.3	37.4	1.0	104.0	0.97	8069	85.1	82.5	7.58	8.40	52.4	1.6	157.4	2.61	261.4	yes
14/ 10:00	0.85	9347	48.5	41.2	6.71	8.4	38.1	1.1	108.2	1.10	7354	84.7	93.2	7.59	7.70	56.0	1.7	166.4	2.75	274.6	yes
15/ 11:00	0.90	9263	37.0	33.3	6.86	8.4	40.3	0.8	82.5	0.94	7326	92.3	86.8	7.58	7.60	55.1	1.6	157.3	2.40	239.9	yes
16/ 15:00	0.80	9847	39.5	31.6	6.89	8.6	39.8	0.8	79.4	0.91	11555	57.0	51.9	7.58	7.60	55.0	0.9	94.4	1.74	173.8	yes
17/ 07:00	0.86	8697	39.4	33.9	6.95	8.5	41.2	0.8	82.3	0.93	7749	88.8	82.6	7.58	7.60	55.1	1.5	149.9	2.32	232.2	yes
18/ 09:00	0.83	10666	36.8	30.5	6.94	8.4	41.2	0.7	74.2	0.93	11611	66.3	61.7	7.60	7.80	54.7	1.1	112.6	1.87	186.8	yes
19/ 09:00	0.82	10597	37.9	31.1	6.95	7.6	43.5	0.7	71.5	0.94	11638	64.9	61.0	7.59	7.20	56.9	1.1	107.3	1.79	178.8	yes
20/ 13:00	0.76	11645	33.8	25.7	6.99	7.3	44.7	0.6	57.5	0.90	11541	60.2	54.2	7.61	6.40	60.2	0.9	90.0	1.48	147.5	yes
21/ 11:00	0.78	9152	42.9	33.5	7.00	7.7	43.8	0.8	76.4	0.89	8881	77.0	68.5	7.62	6.80	58.7	1.2	116.7	1.93	193.2	yes
22/ 13:00	0.98	11597	35.6	34.9	7.03	7.6	45.5	0.8	76.6	0.89	11493	60.5	53.8	7.62	6.50	59.9	0.9	89.9	1.66	166.5	yes
23/ 16:00	0.95	9479	40.0	38.0	7.04	6.9	47.7	0.8	79.6	0.90	7736	91.9	82.7	7.62	5.90	62.5	1.3	132.4	2.12	212.0	yes
24/ 12:00	0.86	9083	45.0	38.7	7.05	6.7	48.0	0.8	80.6	0.89	7638	97.8	87.0	7.61	6.00	61.8	1.4	140.9	2.21	221.5	yes
25/ 13:00	0.87	10548	40.4	35.1	7.04	6.9	47.3	0.7	74.3	0.89	11645	57.3	51.0	7.61	6.10	61.3	0.8	83.1	2.01	157.5	yes
26/ 08:00	0.78	8868	40.3	31.4	7.07	6.4	48.9	0.6	64.3	0.83	8736	75.7	62.8	7.59	5.70	62.1	1.0	101.1	1.65	165.4	yes
27/ 15:00	0.67	11270	35.6	23.9	7.09	6.8	47.4	0.5	50.4	0.91	11354	56.2	51.1	7.62	5.80	63.0	0.8	81.2	1.32	131.6	yes
28/ 11:00	0.72	11652	38.7	27.9	7.05	6.8	47.0	0.6	59.3	0.91	10395	62.5	56.9	7.62	5.90	62.6	0.9	90.9	1.50	150.2	yes
29/ 19:00	0.83	8645	41.8	34.7	7.10	7.5	46.2	0.8	75.1	0.90	7840	87.9	79.1	7.60	6.50	59.6	1.3	132.8	2.08	207.9	yes
30/ 13:00	0.87	12506	33.7	29.3	7.09	7.1	47.5	0.6	61.7	0.95	13361	52.2	49.6	7.61	6.10	61.8	0.8	80.3	1.42	142.0	yes
31/ 08:00	0.82	8868	44.3	36.3	7.07	7.1	46.9	0.8	77.5	0.96	10159	64.5	61.9	7.60	6.50	60.0	1.0	103.2	1.81	180.7	yes

<sup>3</sup> 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