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: 1/2022**

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	0.03	0.02	off	off	off	0.03
3	off	off	0.02	0.02	off	off	0.02
4	off	off	0.02	0.02	off	off	0.02
5	off	off	0.03	0.02	0.02	off	0.03
6	off	off	0.03	0.03	off	off	0.03
7	off	off	0.02	0.03	0.02	0.02	0.03
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	0.03	0.03	off	off	0.03
11	off	off	0.02	0.02	0.02	off	0.02
12	off	off	0.03	0.02	0.03	off	0.03
13	off	off	0.02	0.02	0.03	off	0.03
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	off	0.02	0.02	off	off	0.02
17	off	off	0.02	0.02	off	off	0.02
18	off	off	0.02	0.02	0.02	off	0.02
19	off	off	0.02	0.02	0.02	off	0.02
20	off	off	0.02	0.02	0.03	off	0.03
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	off	0.02	0.02	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	0.02	0.02	0.02	0.02	0.02
29	off	off	0.02	0.02	off	off	0.02
30	off	off	0.02	0.02	off	off	0.02
31	off	off	0.02	0.02	0.02	off	0.02

Conventional or Direct Filtration	Monthly Summary (Answer Yes or No)	
95% of the 4-hour turbidity readings ≤ 0.3 NTU? (Yes) / No All the 4-hour turbidity readings ≤ 1 NTU? (Yes) / No All turbidity readings < IFE[2] triggers? (Yes) / No [2]	CT's met everyday? (see back) (Yes) / No	All Cl_2 residuals at entry point ≥ 0.2 mg/l? (Yes) / No
Notes:	PRINTED NAME: **Rob Cummings**	
	SIGNATURE: 	DATE: **2/1/22**
	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 **Jan./2022**

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/ 14:00	0.82	11055	35.3	28.9	7.24	5.6	55.1	0.5	52.6	0.88	12312	56.2	49.5	7.65	4.40	69.8	0.7	70.8	1.23	123.4	yes
2/ 06:00	0.84	9097	40.0	33.6	7.24	5.3	56.3	0.6	59.6	0.88	10013	65.5	57.6	7.65	4.40	69.8	0.8	82.6	1.42	142.2	yes
3/ 09:00	0.44	9354	38.1	16.8	7.14	6.7	47.3	0.4	35.5	0.92	9319	75.6	69.6	7.67	5.10	67.4	1.0	103.3	1.39	138.7	yes
4/ 12:00	0.62	9347	38.0	23.6	7.09	6.8	47.1	0.5	50.0	0.92	10062	71.6	65.9	7.64	5.90	63.1	1.0	104.4	1.54	154.4	yes
5/ 09:00	0.78	11097	36.0	28.1	7.13	7.3	47.1	0.6	59.7	0.93	12076	57.8	53.8	7.65	6.30	61.7	0.9	87.1	1.47	146.8	yes
6/ 10:00	0.81	8576	39.9	32.3	7.07	8.1	43.8	0.7	73.7	0.93	8784	76.3	71.0	7.51	6.90	56.3	1.3	126.0	2.00	199.7	yes
7/ 20:00	0.82	9486	37.7	30.9	7.00	8.3	42.3	0.7	73.1	0.89	10659	61.2	54.5	7.61	7.40	56.2	1.0	97.0	1.70	170.1	yes
8/ 17:00	0.87	9812	38.9	33.8	7.04	8.4	42.8	0.8	79.0	0.88	11805	62.8	55.3	7.65	7.60	56.2	1.0	98.4	1.77	177.4	yes
9/ 10:00	0.80	9666	38.4	30.7	7.13	7.5	46.5	0.7	66.0	0.88	7868	90.0	79.2	7.64	6.60	59.9	1.3	132.3	1.98	198.3	yes
10/ 8:00	0.78	9805	39.9	31.1	7.16	8.0	45.4	0.7	68.6	0.78	9756	70.4	54.9	7.60	6.70	57.9	0.9	94.8	1.63	163.3	yes
11/ 13:00	0.90	9618	38.4	34.6	7.18	8.1	46.0	0.8	75.1	0.88	12486	52.5	46.2	7.66	7.20	57.9	0.8	79.8	1.55	154.8	yes
12/ 13:00	0.68	9437	38.2	26.0	7.19	8.5	43.9	0.6	59.2	0.92	9437	68.4	62.9	7.63	7.50	56.4	1.1	111.6	1.71	170.8	yes
13/ 14:00	0.85	9291	39.0	33.2	7.23	8.4	45.7	0.7	72.6	0.89	8805	75.4	67.1	7.66	7.40	57.2	1.2	117.3	1.90	189.9	yes
14/ 15:00	0.88	9555	38.2	33.6	7.07	8.5	43.0	0.8	78.1	0.89	9124	78.4	69.8	7.62	7.40	56.4	1.2	123.8	2.02	201.9	yes
15/ 16:00	0.81	9687	38.6	31.3	7.07	8.4	43.0	0.7	72.7	0.88	11166	64.2	56.5	7.63	7.40	56.5	1.0	100.0	1.73	172.7	yes
16/ 10:00	0.86	10999	33.8	29.1	7.05	7.6	45.3	0.6	64.2	0.91	13256	51.6	47.0	7.62	6.80	58.8	0.8	79.8	1.44	144.0	yes
17/ 11:00	0.87	10159	36.2	31.5	7.08	7.5	45.9	0.7	68.6	0.90	11819	62.7	56.4	7.67	6.90	59.4	0.9	94.9	1.64	163.5	yes
18/ 16:00	0.76	9284	38.4	29.2	7.23	7.8	47.0	0.6	62.0	0.90	11277	64.6	58.1	7.67	7.00	59.0	1.0	98.5	1.60	160.5	yes
19/ 12:00	1.02	9437	39.6	40.4	7.22	8.0	47.7	0.8	84.8	0.87	9701	77.1	67.1	7.67	7.10	58.4	1.1	114.8	2.00	199.5	yes
20/ 14:00	0.64	8312	50.0	32.0	7.10	8.6	42.1	0.8	76.1	0.92	9805	74.5	68.5	7.64	7.70	55.8	1.2	122.7	1.99	198.8	yes
21/ 18:00	0.84	11562	33.2	27.9	7.13	8.7	43.2	0.6	64.6	0.87	10347	63.3	55.1	7.62	7.90	54.4	1.0	101.3	1.66	165.9	yes
22/ 16:00	0.82	9354	39.4	32.3	7.06	8.6	42.3	0.8	76.3	0.90	10069	73.2	65.9	7.57	7.60	54.7	1.2	120.4	1.97	196.8	yes
23/ 12:00	0.88	5347	55.0	48.4	7.08	7.5	46.1	1.0	104.9	0.90	4930	144.7	130.2	7.61	6.60	59.4	2.2	219.4	3.24	324.3	yes
24/ 17:00	0.81	8840	38.5	31.2	7.13	7.4	46.9	0.7	66.5	0.91	8840	81.0	73.7	7.65	6.40	61.1	1.2	120.6	1.87	187.1	yes
25/ 13:00	0.78	8784	40.4	31.5	7.14	7.0	48.2	0.7	65.4	0.87	8937	74.0	64.4	7.63	6.00	62.1	1.0	103.7	2.01	169.1	yes
26/ 15:00	0.82	8861	41.2	33.8	7.16	6.8	49.4	0.7	68.4	0.92	8937	72.4	66.6	7.64	5.70	64.0	1.0	104.2	1.73	172.6	yes
27/ 10:00	0.76	10340	37.0	28.1	7.22	6.6	50.8	0.6	55.4	0.97	7874	85.8	83.2	7.59	6.10	61.5	1.4	135.4	1.91	190.8	yes
28/ 16:00	0.82	9263	40.1	32.9	7.20	6.8	50.1	0.7	65.7	0.89	9361	74.8	66.6	7.63	5.80	63.1	1.1	105.6	1.71	171.2	yes
29/ 13:00	0.78	9159	41.1	32.0	7.19	6.1	52.1	0.6	61.4	0.72	8722	86.6	62.4	7.66	5.10	65.6	1.0	95.1	1.57	156.6	yes
30/ 09:00	0.80	5326	56.3	45.0	7.21	6.1	52.6	0.9	85.7	0.92	5006	138.4	127.3	7.63	5.50	64.6	2.0	197.1	2.83	282.8	yes
31/ 13:00	0.96	9187	41.1	39.5	7.24	6.6	52.3	0.8	75.4	0.90	9138	70.4	63.4	7.64	5.70	63.8	1.0	99.3	1.75	174.7	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