

OHA - Drinking Water Services - Surface Water Quality Data Form

County: **Clackamas**

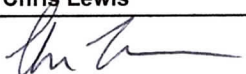
Filtration with Disinfection: UV for *Giardia/Crypto.* & Chlorination for Viruses

Month/Year: **24-Jun**

System Name: **Estacada**

WS ID#: **41-00279** WTP ID: **A**

Day	Turbidity							Viral CT's						
	12 AM [NTU]	4 AM [NTU]	8 AM [NTU]	NOON [NTU]	4 PM [NTU]	8 PM [NTU]	Highest NTU of the day ¹	Minimum Cl ₂ Residual at 1 st User (C) [mg/L] ²	Contact Time (T) [minutes]	Actual CT C X T	Temp	Required CT [from table next page]	Peak Hour Demand Flow [gpm]	Required CT Met? ² [Yes / No]
1	0.03	0.03		0.03	0.03		0.06	0.57	29	16.53	13	6	1300	YES
2		0.03		0.06	0.03		0.06	0.53	29	15.37	13.2	6	1300	YES
3	0.04	0.03			0.03		0.11	0.56	29	16.24	13.3	6	1300	YES
4		0.08	0.08	0.04			0.25	0.53	29	15.37	12.2	6	1300	YES
5	0.04	0.03		0.04	0.04		0.08	0.45	29	13.05	11.9	6	1300	YES
6	0.03	0.03		0.03	0.03		0.08	0.65	29	18.85	12.6	6	1300	YES
7	0.03	0.03		0.03	0.03		0.05	0.58	29	16.82	12.9	6	1300	YES
8	0.04	0.03		0.03	0.03		0.04	0.59	29	17.11	13.3	6	1300	YES
9		0.03		0.03	0.03		0.08	0.65	29	18.85	13.5	6	1300	YES
10	0.03	0.03		0.03	0.03		0.06	0.63	29	18.27	14.4	6	1300	YES
11	0.03	0.03	0.03	0.03	0.03		0.05	0.62	29	17.98	14	6	1300	YES
12	0.03		0.03	0.03		0.03	0.05	0.62	29	17.98	14.2	6	1300	YES
13	0.03		0.03	0.03			0.06	0.59	29	17.11	15.1	6	1300	YES
14	0.03	0.03	0.04	0.03	0.03	0.03	0.06	0.60	29	17.4	15	4	1300	YES
15	0.03			0.03	0.03		0.07	0.55	29	15.95	15.1	4	1300	YES
16	0.03	0.04	0.03	0.03		0.03	0.05	0.53	29	15.37	14.9	4	1300	YES
17		0.03		0.03			0.06	0.48	29	13.92	14.7	6	1300	YES
18	0.03		0.03	0.03	0.03		0.10	0.64	29	18.56	14.2	6	1300	YES
19	0.04	0.03	0.03	0.03		0.03	0.08	0.60	29	17.4	13.5	6	1300	YES
20	0.03		0.03	0.03	0.04	0.04	0.08	0.60	29	17.4	14.3	6	1300	YES
21	0.04		0.04	0.04		0.04	0.13	0.55	29	15.95	14.9	4	1300	YES
22	0.05		0.04	0.04		0.04	0.26	0.53	29	15.37	15.9	4	1300	YES
23	0.04		0.05	0.05			0.15	0.53	29	15.37	15.4	4	1300	YES
24	0.04		0.04	0.04	0.04		0.09	0.49	29	14.21	16	4	1300	YES
25	0.04		0.04	0.03	0.03		0.11	0.45	29	13.05	16.2	4	1300	YES
26		0.04	0.06	0.04	0.03	0.04	0.19	0.56	29	16.24	16.1	4	1300	YES
27	0.04	0.04	0.03	0.03		0.03	0.12	0.55	29	15.95	16.8	4	1300	YES
28	0.03		0.04	0.04	0.04	0.04	0.10	0.64	29	18.56	16.6	4	1300	YES
29	0.04		0.04	0.04	0.04	0.04	0.09	0.51	29	14.79	16.7	4	1300	YES
30		0.04	0.04	0.04		0.04	0.10	0.58	29	16.82	16.7	4	1300	YES
31														

Conventional or Direct Filtration 95% of 4-hr turbidity readings ≤ 0.3 NTU? Yes/No All 4-hour turbidity readings < 1 NTU? Yes/No All turbidity readings < IFE triggers? Yes/No ³		Monthly Summary (circle Yes or No) Virus CT's met everyday? Yes/No All Cl ₂ residual at entry point ≥ 0.2 mg/L? Yes/No	
Monthly UV Summary (circle Yes or No) Was the volume of off-spec water produced less than 5% for the month? Yes/No		503-572-6262 DATE: 7-8-24 PRINTED NAME: Chris Lewis SIGNATURE: 	CERT #: T-6933

¹ If one NTU value per day measured, value same as Compliance Turbidity. Intended for multiple readings per day. Used for optimization efforts only.

² Highest NTU of the day is for optimization, not compliance. Highest is only for state-wide tracking of performance among all treatment systems.

³ If CT not met or Cl₂ at entry point (1st user) < 0.2 mg/L, notify DWS within 24 hours.

³ IFE= Individual Filter Effluent (OAR 333-061-0040(1)(e)(B&C))

OHA - Drinking Water Services - Surface Water Quality Data Form	County: Clackamas
Conventional Filtration with UV Disinfection of <i>Giardia/Crypto</i>.	Month/Year: 24-Jun
System Name: <u>Estacada</u>	WTP ID: <u>A</u>
ID# 41- <u>00279</u>	

Minimum UVT during month: 90.3 % Duty sensor variation from reference sensor %: 1.9
 Minimum Validated UVT: 69% Min. UV Dose achieved/intended this month: 4.41 / 2.1 ^{mJ}/cm²

Date	Peak Hourly Demand Flow	Minimum Dosage	All Lamps On?	Daily Water Produced {A}	Water outside Validated Conditions {B}	Cumulative % Off-Spec Water Produced
	[^{gpm} / _{unit}]	[^{mJ} / _{cm²}]	[Y or N]	[MGD]	[gal]	(Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%]
1	650	4.71	Y	0.821	0	
2	650	4.71	Y	0.747	0	
3	650	4.71	Y	0.585	0	
4	650	4.41	Y	0.831	0	
5	650	4.47	Y	0.805	0	
6	650	4.51	Y	0.753	0	
7	650	4.58	Y	1.075	0	
8	650	4.96	Y	0.892	0	
9	650	5.03	Y	0.985	0	
10	650	5.08	Y	0.957	0	
11	650	4.82	Y	0.773	0	
12	650	5.15	Y	1.02	0	
13	650	5.1	Y	0.968	0	
14	650	5.17	Y	0.959	0	
15	650	5.06	Y	0.807	0	
16	650	4.82	Y	1.002	0	
17	650	4.91	Y	0.728	0	
18	650	4.99	Y	0.968	0	
19	650	4.98	Y	1.009	0	
20	650	4.98	Y	1.147	0	
21	650	5.15	Y	1.185	0	
22	650	5.11	Y	0.938	0	
23	650	5.14	Y	1.02	0	
24	650	5.05	Y	1.103	0	
25	650	5.04	Y	1.208	0	
26	650	4.9	Y	1.224	0	
27	650	5.11	Y	1.081	0	
28	650	4.91	Y	1.274	0	
29	650	5.1	Y	1.178	0	
30	650	5.1	Y	1.082	0	
31						
Monthly Cumulative % Off-Spec Water Produced ⁴						0

29.125 0

⁴ If ≥ 5% of total water produced is off-spec., notify DWS within 24 hours.

For previous page calculation - Required CT for viral inactivation (for pH range of 6.0 to 9.9)						
Temp (C°)	0 - 4.9	5.0 - 9.9	10.0 - 14.9	15.0 - 19.9	20 - 24.9	≥ 25.0 C
Required CT	12	8	6	4	3	2

Return by 10th of following month by email, fax or mail to:

dwp.dmce@dhsosha.state.or.us; 971-673-0694; or Drinking Water Services, POB 14350, Portland, OR 97293-0350