

OHA - Drinking Water Services - Surface Water Quality Data Form

County: **Clackamas**


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

Month/Year: **23-Apr**

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	0.05	OFF	0.04	0.05	OFF	0.04	0.06	0.69	75	51.75	7.4	8	700	YES
2	OFF	0.04	0.04	OFF	0.06	0.04	0.06	0.55	75	41.25	7.8	8	700	YES
3	0.04	OFF	OFF	0.04	0.04	0.04	0.07	0.55	75	41.25	7.3	8	700	YES
4	0.04	OFF	0.04	0.05	0.04	0.04	0.10	0.57	75	42.75	7.2	8	700	YES
5	0.04	OFF	0.04	0.04	0.04	OFF	0.08	0.62	75	46.5	7	8	700	YES
6	0.04	0.06	OFF	0.04	0.04	OFF	0.08	0.64	75	48	7.1	8	700	YES
7	0.04	OFF	OFF	0.05	0.04	0.05	0.07	0.51	75	38.25	7.6	8	700	YES
8	0.05	OFF	0.05	0.05	OFF	0.05	0.08	0.61	75	45.75	8.4	8	700	YES
9	OFF	0.05	OFF	0.05	0.05	0.05	0.09	0.50	75	37.5	8.1	8	700	YES
10	0.05	OFF	OFF	0.05	0.04	0.04	0.08	0.50	75	37.5	8.2	8	700	YES
11	OFF	0.04	OFF	0.05	0.05	OFF	0.06	0.51	75	38.25	8.2	8	700	YES
12	0.05	OFF	0.06	0.05	0.05	OFF	0.08	0.54	75	40.5	7.9	8	700	YES
13	0.05	0.05	OFF	0.05	0.05	0.05	0.07	0.61	75	45.75	8.2	8	700	YES
14	0.05	OFF	OFF	0.05	0.05	0.05	0.07	0.70	75	52.5	7.7	8	700	YES
15	OFF	OFF	0.05	0.05	0.05	OFF	0.06	0.67	75	50.25	8.2	8	700	YES
16	0.05	0.05	OFF	0.05	0.05	0.05	0.07	0.66	75	49.5	8	8	700	YES
17	0.05	OFF	0.06	0.05	0.05	0.05	0.07	0.73	75	54.75	8.4	8	700	YES
18	OFF	0.05	OFF	0.05	0.05	0.05	0.07	0.67	75	50.25	8.7	8	700	YES
19	0.05	OFF	OFF	0.05	0.05	0.05	0.06	0.66	75	49.5	8.2	8	700	YES
20	OFF	OFF	0.05	OFF	0.05	0.05	0.06	0.71	75	53.25	7.8	8	700	YES
21	OFF	0.05	OFF	0.05	0.05	0.05	0.06	0.72	75	54	8	8	700	YES
22	0.05	OFF	OFF	0.05	0.05	0.06	0.07	0.64	75	48	8.6	8	700	YES
23	0.05	OFF	0.05	0.05	OFF	0.05	0.07	0.72	75	54	9.4	8	700	YES
24	OFF	0.05	OFF	0.05	0.05	OFF	0.07	0.60	75	45	9.4	8	700	YES
25	0.06	OFF	0.05	0.05	0.05	0.05	0.08	0.65	75	48.75	9.6	8	700	YES
26	0.05	OFF	0.05	0.05	0.05	0.05	0.06	0.79	75	59.25	9.9	8	700	YES
27	OFF	OFF	0.05	0.05	0.05	0.06	0.07	0.69	75	51.75	10.1	6	700	YES
28	0.05	OFF	OFF	0.05	0.05	0.05	0.07	0.61	75	45.75	10.8	6	700	YES
29	0.05	0.05	OFF	0.05	0.05	0.07	0.08	0.71	75	53.25	10.5	6	700	YES
30	0.06	0.07	OFF	0.05	0.05	0.05	0.07	0.79	75	59.25	10.3	6	700	YES
31														YES

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: 5-3-2023 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. Highest NTU of the day is for optimization, not compliance. Highest is only for state-wide tracking of performance among all treatment systems.

² 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: 23-Apr
System Name: <u>Estacada</u>	WTP ID: <u>A</u>
ID# 41- <u>00279</u>	

Minimum UVT during month: 93.8 % Duty sensor variation from reference sensor %: 1.08
 Minimum Validated UVT: 69% Min. UV Dose achieved/intended this month: 4.7 / 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} /cm ²]	[Y or N]	[gal]	[gal]	(Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%]
1	700	4.99	Y	0.514	0	
2	700	5.04	Y	0.47	0	
3	700	5.04	Y	0.547	0	
4	700	5.1	Y	0.595	0	
5	700	4.7	Y	0.57	0	
6	700	4.7	Y	0.513	0	
7	700	4.7	Y	0.564	0	
8	700	4.7	Y	0.518	0	
9	700	4.7	Y	0.497	0	
10	700	4.7	Y	0.58	0	
11	700	4.7	Y	0.59	0	
12	700	4.7	Y	0.534	0	
13	700	4.7	Y	0.504	0	
14	700	4.7	Y	0.516	0	
15	700	4.8	Y	0.659	0	
16	700	4.7	Y	0.504	0	
17	700	4.7	Y	0.653	0	
18	700	4.7	Y	0.578	0	
19	700	4.7	Y	0.614	0	
20	700	4.7	Y	0.602	0	
21	700	4.7	Y	0.582	0	
22	700	4.7	Y	0.537	0	
23	700	4.7	Y	0.511	0	
24	700	4.7	Y	0.596	0	
25	700	4.7	Y	0.497	0	
26	700	4.7	Y	0.65	0	
27	700	4.7	Y	0.531	0	
28	700	4.7	Y	0.658	0	
29	700	4.7	Y	0.703	0	
30	700	4.7	Y	0.569	0	
31						
Monthly Cumulative % Off-Spec Water Produced ⁴						0

16.956 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