

**Membrane Filter Monthly Operating Report**

County: **Columbia**

System Name: **St. Helens**

Month/Year: **Jan-2024**

PWS ID#: 41 - **00724**

Minimum test pressure applied: **30** psi

Plant ID: WTP - **A**

Minimum test pressure req'd: **18.34** psi

(e.g., "A")

DIT = Direct Integrity Test on filter(s) [Yes, No, or "off" if all filters are offline] ⇔


PDR = Pressure Decay Rate

LRC = Log Removal Credit

Day	CFE Daily Turbidity [NTU]	Highest CFE* [NTU]	Highest IFE [NTU]	PDR <sub>Max</sub> [psi/min]		LRC [log removal]	DIT Daily
				0.074			
				Highest PDR of day [psi/min]		Lowest LRV <sub>ambient</sub> of day [log removal]	
1	0.017	0.02	0.043	0.05	4.55	Y	
2	0.018	0.02	0.040	0.05	4.55	Y	
3	0.017	0.02	0.045	0.05	4.55	Y	
4	0.017	0.02	0.039	0.05	4.55	Y	
5	0.014	0.02	0.042	0.04	4.63	Y	
6	0.017	0.02	0.047	0.04	4.64	Y	
7	0.017	0.02	0.043	0.06	4.55	Y	
8	0.017	0.02	0.045	0.05	4.55	Y	
9	0.015	0.02	0.035	0.05	4.55	Y	
10	0.017	0.02	0.036	0.04	4.63	Y	
11	0.017	0.02	0.036	0.05	4.53	Y	
12	0.017	0.02	0.037	0.05	4.53	Y	
13	0.017	0.02	0.048	0.04	4.61	Y	
14	0.017	0.02	0.035	0.04	4.62	Y	
15	0.018	0.02	0.037	0.04	4.62	Y	
16	0.018	0.02	0.041	0.05	4.54	Y	
17	0.017	0.02	0.036	0.05	4.54	Y	
18	0.017	0.02	0.036	0.04	4.62	Y	
19	0.018	0.02	0.038	0.04	4.62	Y	
20	0.018	0.02	0.041	0.05	4.53	Y	
21	0.017	0.02	0.040	0.05	4.53	Y	
22	0.017	0.02	0.036	0.05	4.61	Y	
23	0.017	0.02	0.036	0.05	4.53	Y	
24	0.017	0.02	0.037	0.04	4.60	Y	
25	0.017	0.02	0.036	0.05	4.60	Y	
26	0.017	0.02	0.035	0.05	4.60	Y	
27	0.017	0.02	0.037	0.05	4.51	Y	
28	0.017	0.02	0.043	0.05	4.51	Y	
29	0.017	0.02	0.039	0.05	4.51	Y	
30	0.017	0.02	0.133	0.05	4.60	Y	
31	0.017	0.02	0.224	0.04	4.58	Y	

**Compliance summary (operator to complete any blank fields)**

95% of daily turbidity readings ≤ 1 NTU? [Y/N]	All turbidity readings ≤ 5 NTU? [Y/N]	All IFE turbidity readings ≤ 0.15 NTU? [Y/N]	Performance std met? [Y/N] (PDR ≤ PDR <sub>Max</sub> , LRV ≥ LRC)	DIT Daily?
Yes	Yes	No	Yes	Yes
CT's met daily? (p. 2)	All Cl <sub>2</sub> residual at EP ≥ 0.2 mg/L?	PDR ≤ PDR <sub>Max</sub> ?	LRV <sub>ambient</sub> ≥ LRC?	
		Yes	Yes	

PRINTED NAME: **Aaron Kunders** DATE: \_\_\_\_\_  
 SIGNATURE:  WT CERT #: 684854  
 Notes: 1/31-High IFE was when rack was offline during pinning. PHONE #: 503-397-2344

\* Used for optimization purposes only.

**OHA - Drinking Water Program - Surface Water Quality Data Form**

**St Helens Oregon**

**PWS#4100724 WFP - A**

Month:

**January**

Year:

**2024**

DAY	DATE	Time of Peak Flow	Minimum Chlorine Residual (mg/L) C [AIT-4705]	Contact Time T (min)	Actual Minimum C X T	Temp. (Deg. C) [TIT-4008]	pH [AIT-4713]	Required CT from tables (0.5-log)	CT Met? Yes/No	Peak Hourly Demand Flow (GPM)
1	01/01/24	8:59	0.73	115	84.1	13.9	7.4	22	Yes	2028
2	01/02/24	21:59	0.73	116	85.0	13.9	7.4	22	Yes	2018
3	01/03/24	11:59	0.71	115	82.1	13.8	7.5	22	Yes	2032
4	01/04/24	3:59	0.72	116	83.5	13.9	7.5	22	Yes	2018
5	01/05/24	13:59	0.72	117	84.0	13.9	7.6	26	Yes	2004
6	01/06/24	13:59	0.72	116	83.8	13.8	7.4	22	Yes	2010
7	01/07/24	17:59	0.73	116	84.7	13.8	7.4	22	Yes	2012
8	01/08/24	22:59	0.73	116	84.5	13.8	7.5	22	Yes	2011
9	01/09/24	15:59	0.72	115	83.1	13.8	7.5	22	Yes	2027
10	01/10/24	13:59	0.68	115	78.5	13.6	7.9	26	Yes	2028
11	01/11/24	0:59	0.67	115	77.2	13.6	8.0	26	Yes	2037
12	01/12/24	0:59	0.67	115	76.4	13.6	8.0	26	Yes	2038
13	01/13/24	4:59	0.66	113	75.0	13.4	7.6	26	Yes	2066
14	01/14/24	15:59	0.67	115	77.0	13.5	7.4	22	Yes	2031
15	01/15/24	12:59	0.67	115	77.6	13.4	7.5	22	Yes	2027
16	01/16/24	17:59	0.68	116	78.6	13.4	7.5	22	Yes	2018
17	01/17/24	9:59	0.68	116	79.0	13.4	7.5	22	Yes	2015
18	01/18/24	6:59	0.69	116	80.4	13.5	7.5	22	Yes	2018
19	01/19/24	18:59	0.78	117	90.8	13.4	7.5	22	Yes	1996
20	01/20/24	13:59	0.76	116	88.8	13.5	7.6	26	Yes	2010
21	01/21/24	14:59	0.76	116	88.3	13.5	7.5	22	Yes	2018
22	01/22/24	14:59	0.76	116	87.4	13.5	7.5	22	Yes	2023
23	01/23/24	15:59	0.74	115	85.5	13.5	7.7	26	Yes	2026
24	01/24/24	12:59	0.74	115	84.4	13.4	7.6	26	Yes	2041
25	01/25/24	23:59	0.73	114	83.5	13.4	7.5	22	Yes	2048
26	01/26/24	23:59	0.71	114	81.7	13.3	7.6	26	Yes	2043
27	01/27/24	15:59	0.70	113	79.5	13.3	7.5	22	Yes	2071
28	01/28/24	12:59	0.67	112	75.5	13.3	7.7	26	Yes	2083
29	01/29/24	14:59	0.67	113	75.2	13.2	7.8	26	Yes	2067
30	01/30/24	12:59	0.68	113	76.9	13.1	7.8	26	Yes	2070
31	01/31/24	13:59	0.69	111	76.4	13.1	7.5	22	Yes	2100

Notes:

Clearwell Baffling Factor = 0.541

Min Clearwell Level = 432206 gallons 1

1 25.2' Pause level multiplied by 17155 gal/foot