OHA - DWS

Membrane Filter Monthly Operating Report

System Name: **South Coast Water Co**
PWS ID#: 41 - **00302**
Plant ID: WTP - **A** *(e.g., "A")*

County: **Lane**
Month/Year: **Mar-2025**
Minimum test pressure **applied**: **17.8** psi
Minimum test pressure **req'd**: **17.8** psi

DIT = Direct Integrity Test on filter(s) [Yes, No, or "off" if all filters are offline] ⇨
PDR = Pressure Decay Rate
LRC = Log Removal Credit

PDR_{Max} [$^{psi}/_{min}$]	LRC [log removal]	DIT Daily
0.140	4.00	

Day	CFE Daily Turbidity [NTU]	Highest CFE♣ [NTU]	Highest IFE [NTU] (>15 min duration)	Highest PDR of day [$^{psi}/_{min}$]	Lowest $LRV_{ambient}$ of day [log removal]	[Y/N] or "off"
1	0.030	0.058	0.058	0.10	4.60	Y
2	0.024	0.031	0.031	0.11	4.60	Y
3	0.021	0.024	0.024	0.11	4.60	Y
4	0.022	0.026	0.026	0.10	4.60	Y
5	0.023	0.026	0.026	0.10	4.47	Y
6	0.024	0.034	0.034	0.10	4.47	Y
7	0.020	0.023	0.023	0.10	4.47	Y
8	0.023	0.027	0.027	0.12	4.30	Y
9	0.027	0.034	0.034	0.12	4.30	Y
10	0.024	0.026	0.026	0.12	4.30	Y
11	0.035	0.057	0.057	0.11	4.30	Y
12	0.025	0.030	0.030	0.11	4.30	Y
13	0.025	0.027	0.027	0.11	4.30	Y
14	0.026	0.027	0.027	0.11	4.30	Y
15	0.027	0.030	0.030	0.10	4.30	Y
16	0.026	0.029	0.029	0.11	4.50	Y
17	0.027	0.028	0.028	0.11	4.60	Y
18	0.027	0.028	0.028	0.10	4.30	Y
19	0.025	0.028	0.028	0.08	4.30	Y
20	0.026	0.030	0.030	0.08	4.30	Y
21	0.026	0.030	0.030	0.08	4.40	Y
22	0.026	0.028	0.028	0.08	4.40	Y
23	0.026	0.028	0.028	0.10	4.60	Y
24	0.027	0.032	0.032	0.10	4.60	Y
25	0.028	0.034	0.034	0.08	4.60	Y
26	0.027	0.032	0.032	0.08	4.60	Y
27	0.028	0.030	0.030	0.08	4.60	Y
28	0.029	0.034	0.034	0.09	4.60	Y
29	0.026	0.031	0.031	0.10	4.60	Y
30	0.027	0.036	0.036	0.11	4.60	Y
31	0.029	0.033	0.033	0.10	4.60	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_{Max}, LRV ≥ LRC)	DIT Daily?
Yes	**Yes**	**Yes**	**Yes**	**Yes**

CT's met daily? (p. 2)	All Cl_2 residual at EP ≥ 0.2 $^{mg}/_{L}$?	PDR ≤ PDR_{Max}?	$LRV_{ambient}$ ≥ LRC?
Yes	**Yes**	**Yes**	**Yes**

PRINTED NAME: DANIEL REITZ **DATE:** 4/9/2025
SIGNATURE: **WT CERT #:** **6528**
Notes: **PHONE #:** **541-342-1718**

♣ *Used for optimization purposes only.*

OHA-DWS

Disinfection Monthly Operating Report

System Name: **South Coast Water Co** Date: **Mar-2025**

PWS ID#: 41 - **00302**

Plant ID : WTP - **A**

0.5 ⇦ Log Inactivation Required via Disinfection

Day	Minimum Cl_2 Residual at 1st User (**C**) ♦ [$^{mg}/_{L}$ = ppm]	Contact Time (**T**) [minutes]	Actual CT **C** x **T** (Formula)	Temp [° C]	pH	Required CT (Formula)	CT Met? ♦ [Yes / No] (Formula)	Peak Hourly Demand Flow [GPM]	Notes (e.g. "Plant Off")
1	0.95	104	98.8	12.2	7.5	19.7	YES		
2	0.90	104	93.6	12.2	7.5	19.7	YES		
3	0.91	104	94.6	12.3	7.5	19.6	YES		
4	0.89	104	92.6	11.8	7.6	20.7	YES		
5	0.83	104	86.3	12.0	7.6	20.5	YES		
6	0.75	104	78.0	11.7	7.6	20.7	YES		
7	0.74	104	77.0	11.1	7.6	21.5	YES		
8	0.63	104	65.5	12.2	7.6	19.7	YES		
9	0.55	104	57.2	12.8	7.6	18.7	YES		
10	0.50	104	52.0	12.3	7.6	19.4	YES		
11	0.43	104	44.7	11.7	7.6	20.0	YES		
12	0.28	104	29.1	11.6	7.5	19.1	YES		
13	0.25	104	26.0	10.7	7.5	20.2	YES		
14	0.26	104	27.0	10.2	7.5	20.9	YES		
15	0.26	104	27.0	10.6	7.5	20.4	YES		
16	0.27	104	28.1	10.2	7.5	20.9	YES		
17	0.27	104	28.1	10.3	7.4	20.0	YES		
18	0.27	104	28.1	10.0	7.4	20.4	YES		
19	0.23	104	23.9	10.6	7.3	19.0	YES		
20	0.23	104	23.9	10.6	5.0	9.0	YES		
21	0.24	104	25.0	10.6	7.4	19.6	YES		
22	0.23	104	23.9	11.1	7.4	18.9	YES		
23	0.20	104	20.8	11.7	7.5	18.8	YES		
24	0.44	104	45.8	13.9	7.6	17.2	YES		
25	0.34	104	35.4	13.1	7.5	17.3	YES		
26	0.39	104	40.6	14.3	7.4	15.5	YES		
27	0.44	104	45.8	12.8	7.5	17.8	YES		
28	0.38	104	39.5	12.8	7.5	17.7	YES		
29	0.42	104	43.7	12.1	7.4	18.1	YES		
30	0.36	104	37.4	12.2	7.4	17.9	YES		
31	0.30	104	31.5	11.6	7.4	18.5	YES		

♦ If chlorine concentration at entry point < 0.2 $^{mg}/_{L}$, or CT not met, notify DWS within 24 hours.

Submit this monthly report by the 10th of following month by

mail: Drinking Water Services
PO Box 14350
Portland, OR 97293-0350

email: dwp.dmce@odhsoha.oregon.gov

fax: 971-673-0458

Revised 7/31/2023

Definitions & Additional Information

Glossary of Terms:

CFE = Combined Filter Effluent **IFE** = Individual Filter Effluent
PDR = Pressure Decay Rate ≅ **DIT** = Direct Integrity Test **LRC** = Log Removal Credit
LRV = Log Removal Value **TMP** = Transmembrane Pressure
Cl_2 = Chlorine **CT** = chlorine **C**oncentration x contact **T**ime

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$LRV_{ambient}$: The preferred performance metric Oregon is moving towards

$LRV_{ambient}$ is a performance metric of the filter's *Cryptosporidium* removal efficiency; [log] units.

$LRV_{ambient}$ is calculated using the last DIT results & operating condtions (e.g., flow, temp. & TMP)

A filter whose $LRV_{ambient}$ is less than the LRC must be taken off-line, repaired and then re-tested.

$LRV_{ambient}$ is an LRV calculated using most recent DIT results (e.g., PDR in $^{psi}/_{min}$), current filter flowrate, water temperature, and TMP.

An $LRV_{ambient}$ of 4-log is equivalent to 99.99% removal of *Cryptosporidium* .

The nature of membrane filtration requires higher pathogen removal rates. Therefore, 4-log is typically the minimum pathogen removal target.

Highest PDR (Pressure Decay Rate):

Enter the highest pressure decay rate in $^{psi}/_{min}$ measured for DITs of all operating filters in a day.

A filter whose PDR exceeds the PDR_{Max} must be taken off-line, repaired and re-tested.

(PDR_{Max} is an Upper Control Limit (UCL) based on the DIT Pressure Decay Rate)

DIT Daily:

Enter "Y" if ALL filters operating in a given day were subjected to a DIT.
Enter "N" if ANY operating filter did not have a DIT.
Enter "Off" if ALL filters were off-line for the day.
Each filter producing water for human consumption in a given day must undergo a DIT

Highest IFE [NTU]: Must be continuously monitored.

If ever exceeds 0.15 NTU for > 15 minutes: Run a DIT, & complete Turbidity Triggered DIT form

Highest CFE [NTU]:

Data is collected for optimization purposes. Not for compliance.

Revised 7/31/2023

Turbidity-Triggered Direct Integrity Test (DIT) Reporting Form **OHA - Drinking Water Services**

To be used when IFE exceeds 0.15 NTU, and submitted to OHA-DWS ♠

Water System Name: **South Coast Water Co**

Water System ID: **00302** 00302 Water System Profile on DataOnline

Treatment Plant ID: WTP- **A** PDR_{Max} = maximum allowed pressure decay rate for a passing DIT

County: **Lane** LRC = Log Removal Credit granted for filtration, $LRV_{ambient}$ must be ≥ LRC.

Month - Year: **Mar-25**

Date/Time and membrane unit(s) affected		Pressure Decay Rate (PDR) [$^{psi}/_{min}$]: **0.14**			LRC: **4.00**	
Date/Time	Membrane unit/skid/cell ID#	Turbidity level > 0.15 NTU resulting in DIT [NTU]	Corrective action	DIT Re-test Results [$^{psi}/_{min}$]	Return-to-service turbidity [NTU]	Return-to-service $LRV_{ambient}$ [log]

Monthly Summary

All return to service turbidity readings ≤ 0.15 NTU? (Enter Yes or No) ⇨	
All membrane units removed from service until a DIT passes? (Enter Yes or No) ⇨	
All return to service $LRV_{ambient}$ ≥ LRC? (Enter Yes or No) ⇨	

Name: _____

Signature: _____ **Date:** _____

Phone #: _____ **WT Cert #:** _____

♠ OAR 333-061-0036(5)(d)(C)(iv) states that if indirect integrity monitoring includes turbidity and the filtrate turbidity readings are above 0.15 NTU for a period greater than 15 minutes (i.e., two consecutive 15-minute readings above 0.15 NTU), direct integrity testing in accordance with subparagraphs (5)(d)(B)(i) through (v) of this rule must immediately be performed on the associated membrane unit.

Return by 10th of following month by email, fax, or mail to:
dwp.dmce@odhsoha.oregon.gov; 971-673-0458; or Drinking Water Services, PO Box 14350, Portland, OR 97293-0350