

# OHA - DWS

## Membrane Filter Monthly Operating Report

County: **Clackamas**

System Name: **NCCWC**

Month/Year: **Oct-2024**

PWS ID#: 41 - **00580**

Minimum test pressure applied: **13.5** psi

Plant ID: WTP - \_\_\_\_\_

Minimum test pressure req'd: **11.4** psi

(e.g., "A")

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

PDR = Pressure Decay Rate

PDR<sub>Max</sub> [<sup>psi</sup>/<sub>min</sub>]

LRC [log removal]

LRC = Log Removal Credit

**0.484**

**4.00**

DIT Daily

Day	CFE Daily Turbidity [NTU]	Highest CFE* [NTU]	Highest IFE [NTU]	Highest PDR of day [ <sup>psi</sup> / <sub>min</sub> ]	Lowest LRV <sub>ambient</sub> of day [log removal]	[Y/N] or "off"
1	0.050	0.05	0.050	0.42	4.07	YES
2	0.040	0.05	0.050	0.42	4.07	YES
3	0.050	0.05	0.050	0.42	4.06	YES
4	0.050	0.05	0.050	0.42	4.05	YES
5	0.070	0.07	0.070	0.43	4.05	YES
6	0.050	0.05	0.050	0.43	4.06	YES
7	0.050	0.05	0.060	0.43	4.04	YES
8	0.060	0.06	0.060	0.43	4.06	YES
9	0.060	0.06	0.060	0.43	4.06	YES
10	0.050	0.05	0.080	0.43	4.04	YES
11	0.050	0.05	0.080	0.42	4.05	YES
12	0.050	0.05	0.080	0.41	4.04	YES
13						OFF
14	0.050	0.05	0.080	0.41	4.05	YES
15	0.060	0.06	0.060	0.41	4.05	YES
16						OFF
17	0.050	0.05	0.080	0.44	4.04	YES
18	0.020	0.02	0.050	0.30	4.19	YES
19						OFF
20	0.060	0.06	0.060	0.42	4.04	YES
21	0.070	0.07	0.070	0.42	4.04	YES
22	0.050	0.05	0.080	0.42	4.03	YES
23	0.050	0.05	0.080	0.42	4.03	YES
24	0.050	0.05	0.080	0.42	4.00	YES
25	0.050	0.05	0.080	0.42	4.00	YES
26						OFF
27	0.050	0.05	0.080	0.42	4.02	YES
28	0.050	0.05	0.080	0.41	4.00	YES
29	0.060	0.06	0.060	0.41	4.12	YES
30	0.050	0.05	0.050	0.41	4.12	YES
31						OFF

**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?
<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
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?	
		<b>Yes</b>	<b>Yes</b>	

PRINTED NAME: *Bret Biengath*  
 SIGNATURE: *Bret Biengath*  
 Notes:

DATE: *5 Nov 2024*  
 WT CERT #: *T-08749*  
 PHONE #: *971-356-6943*

\* Used for optimization purposes only.

**OHA - Drinking Water Program - Turbidity Monitoring Report Form County: Clackamas  
Slow Sand, Membrane, Diatomaceous Earth Filtration, or Unfiltered System**

System name: NORTH CLACKAMAS COUNTY WC ID # OR4100580 WTP:- WTP-B2 Month/Year: October 2024							
Day	12:00 AM [NTU]	4:00 AM [NTU]	8:00 AM [NTU]	Noon [NTU]	4:00 PM [NTU]	8:00 PM [NTU]	Highest Reading of the Day [NTU]
1	N/A	N/A	0.05	N/A	N/A	N/A	0.05
2	N/A	N/A	0.06	N/A	N/A	N/A	0.06
3	N/A	N/A	0.06	N/A	N/A	N/A	0.06
4	N/A	N/A	0.05	N/A	N/A	N/A	0.05
5	N/A	N/A	0.07	N/A	N/A	N/A	0.07
6	N/A	N/A	0.06	N/A	N/A	N/A	0.06
7	N/A	N/A	0.07	N/A	N/A	N/A	0.07
8	N/A	N/A	0.07	N/A	N/A	N/A	0.07
9	N/A	N/A	0.06	N/A	N/A	N/A	0.06
10	N/A	N/A	0.05	N/A	N/A	N/A	0.05
11	N/A	N/A	0.06	N/A	N/A	N/A	0.06
12	N/A	N/A	0.05	N/A	N/A	N/A	0.05
13	N/A	N/A	DOWN	N/A	N/A	N/A	DOWN
14	N/A	N/A	0.06	N/A	N/A	N/A	0.06
15	N/A	N/A	0.06	N/A	N/A	N/A	0.06
16	N/A	N/A	DOWN	N/A	N/A	N/A	DOWN
17	N/A	N/A	0.06	N/A	N/A	N/A	0.06
18	N/A	N/A	0.06	N/A	N/A	N/A	0.06
19	N/A	N/A	DOWN	N/A	N/A	N/A	DOWN
20	N/A	N/A	0.06	N/A	N/A	N/A	0.06
21	N/A	N/A	0.07	N/A	N/A	N/A	0.07
22	N/A	N/A	0.07	N/A	N/A	N/A	0.07
23	N/A	N/A	0.06	N/A	N/A	N/A	0.06
24	N/A	N/A	0.05	N/A	N/A	N/A	0.05
25	N/A	N/A	0.06	N/A	N/A	N/A	0.06
26	N/A	N/A	DOWN	N/A	N/A	N/A	DOWN
27	N/A	N/A	0.05	N/A	N/A	N/A	0.05
28	N/A	N/A	0.09	N/A	N/A	N/A	0.09
29	N/A	N/A	0.06	N/A	N/A	N/A	0.06
30	N/A	N/A	0.05	N/A	N/A	N/A	0.05
31	N/A	N/A	DOWN	N/A	N/A	N/A	DOWN
Slow Sand/Membrane/DE Filtration/ Unfiltered				<b>Monthly Summary</b>			
95% of daily turbidity readings ≤ 1 NTU? <b>YES</b>				CT's met everyday? (see back) <b>YES</b>		All CL2 residual at entry point ≥ 0.2 mg/l? <b>YES</b>	
All daily readings ≤ 5 NTU? <b>YES</b>				Notes:			
				PRINTED NAME: <i>Bret Bienerth</i>			
				SIGNATURE <i>Bret Bienerth</i>		DATE 11/1/24	
				PHONE #: (503) -723-3505		CERT #: T-09162	

T-08749

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

**NORTH CLACKAMAS COUNTY WC ID#: OR4100580 WTP:-: WTP-B2 Month/Year: October 2024**

**Membrane Filters**

Date	Time	Minimum Cl <sub>2</sub> Residual at 1 <sup>st</sup> User (C)*	Contact Time (T)	Actual CT	Temp	pH	Required CT	CT Met?*	Peak Hourly Demand Flow
		(mg/L)	(minutes)	C x T	(°C)		Use Tables	Yes / No	(gpm)
10/01/24	6:00 AM	1.40	82	115	16.1	8.0	18	Yes	1603
10/02/24	6:00 AM	1.40	40	55	16.3	7.7	16	Yes	3246
10/03/24	6:00 AM	1.34	48	64	16.9	8.0	17	Yes	2794
10/04/24	6:00 AM	1.16	73	84	16.6	7.8	16	Yes	1788
10/05/24	6:00 AM	1.41	47	66	13.5	7.7	20	Yes	2872
10/06/24	6:00 AM	1.05	95	99	14.0	7.8	19	Yes	1374
10/07/24	6:00 AM	1.09	83	90	14.3	7.9	19	Yes	1529
10/08/24	6:00 AM	1.22	63	77	16.5	8.1	18	Yes	2123
10/09/24	6:00 AM	1.13	39	45	16.1	7.6	15	Yes	3305
10/10/24	6:00 AM	1.11	42	46	15.9	7.6	15	Yes	3170
10/11/24	6:00 AM	1.15	45	52	14.2	7.6	17	Yes	2942
10/12/24	6:00 AM	1.07	40	43	14.7	7.6	16	Yes	3397
10/13/24	6:00 AM	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	0
10/14/24	6:00 AM	1.06	45	48	16.0	7.9	17	Yes	2933
10/15/24	6:00 AM	1.16	92	106	15.0	7.6	16	Yes	1421
10/16/24	6:00 AM	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	0
10/17/24	6:00 AM	1.24	49	60	13.2	7.6	19	Yes	2676
10/18/24	6:00 AM	1.45	55	80	13.3	7.5	18	Yes	2316
10/19/24	6:00 AM	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	0
10/20/24	6:00 AM	1.57	75	117	13.2	7.5	19	Yes	1773
10/21/24	6:00 AM	1.10	46	51	15.6	7.7	16	Yes	2746
10/22/24	6:00 AM	1.21	29	35	14.8	7.6	16	Yes	4470
10/23/24	6:00 AM	1.26	26	32	14.2	7.6	17	Yes	5000
10/24/24	6:00 AM	1.37	22	30	13.0	7.6	19	Yes	5823
10/25/24	6:00 AM	1.29	22	28	13.0	7.5	18	Yes	6024
10/26/24	6:00 AM	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	0
10/27/24	6:00 AM	1.35	30	40	12.6	7.5	19	Yes	4341
10/28/24	6:00 AM	1.38	22	31	13.6	7.6	19	Yes	5641
10/29/24	6:00 AM	1.37	31	43	12.5	7.6	20	Yes	4168
10/30/24	6:00 AM	1.30	30	39	13.1	7.6	19	Yes	4251
10/31/24	6:00AM	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	0

\*If Cl<sub>2</sub> at entry point <0.2 mg/L OR CT not met, notify DWP by end of next business day