



DATE: December 12, 2024

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for November 2024
Bilateral Compliance Agreement
Intake *Cryptosporidium* Results
PWS # 4100657**

To Whom It May Concern:

Enclosed are results of laboratory analyses for *Cryptosporidium* from the Bull Run raw water intake for November. Monitoring for *Cryptosporidium* at the Bull Run intake is done to comply with the interim measures of the Bilateral Compliance Agreement (Oregon Health Authority, November 17, 2023).

Analyses for *Cryptosporidium* and *Giardia* were performed by the PWB Laboratory (see attached report). Also attached are copies of the monthly turbidity and raw coliform reports previously submitted to OHA in compliance with the SWTR. Results for the reporting month are summarized below.

***Cryptosporidium*, *Giardia*, Turbidity and Fecal Coliforms Data Summary for the Reporting Month**

<i>Cryptosporidium</i> and <i>Giardia</i> Field Samples				<i>Cryptosporidium</i> Recoveries		Fecal Coliforms	Turbidity
No. of Samples	Total Volume (L)	Total No. <i>Cryptosporidium</i> Oocysts	Total No. <i>Giardia</i> Cysts	No. of Matrix Spikes	Average Matrix Spike Recovery (%)	Highest Count (CFU/100 mL)	Highest Reading (NTU)
24	700	9	8	2	76.8	4	1.14

If you have any questions regarding these results, please contact me at 503-545-8190.

Sincerely,



Ann Levy
Environmental Manager

Transmitted: 4 pages (including this transmittal memo) emailed to dwp.dmcc@odhsoha.oregon.gov on this date.



Portland Water Bureau Laboratory
2010 N Interstate Ave, Portland, OR 97227

***Cryptosporidium and Giardia* Laboratory Analysis Report**

<u>Water System Information</u>			<u>Sample Information</u>		
PWS ID:	OR4100657		Collection Month & Year:	Nov. 2024	
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227		Report Date:	December 5, 2024	
County:	Multnomah		Monitoring Regime:	Bilateral Compliance Agreement	
			Source Water:	Bull Run Intake - WTP-A	

PWB Sample ID	Loc ID	Sample Collection Date	Sample Type	Sample Volume Filtered (L)	Analysis Method	<i>Cryptosporidium</i>			<i>Giardia</i>		
						No. of Oocysts Spiked	No. of Oocysts Counted	Oocyst Matrix Spike Recovery (%)	No. of Cysts Spiked	No. of Cysts Counted	Cyst Matrix Spike Recovery (%)
BD24130	Intake 2PIS	11/3/2024	Field	25	PWBL-SOP-61 3	0	0		0	1	
BD24131	Intake 2PIS	11/3/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24132	Intake 2PIS	11/5/2024	Field	25	PWBL-SOP-61 3	0	0		0	1	
BD24133	Intake 2PIS	11/5/2024	Field	25	PWBL-SOP-61 3	0	1		0	1	
BD24653	Intake 2PIS	11/10/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24654	Intake 2PIS	11/10/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24655	Intake 2PIS	11/10/2024	MS	25	PWBL-SOP-61 3	99	78	78.8	98	71	72.4
BD24656	Intake 2PIS	11/11/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24657	Intake 2PIS	11/11/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24658	Intake 2PIS	11/12/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24659	Intake 2PIS	11/12/2024	Field	25	PWBL-SOP-61 3	0	1		0	0	
BD24660	Intake 2PIS	11/13/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD24661	Intake 2PIS	11/13/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD25047	Intake 2PIS	11/17/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD25048	Intake 2PIS	11/17/2024	Field	25	PWBL-SOP-61 3	0	0		0	1	
BD25049	Intake 2PIS	11/18/2024	Field	25	PWBL-SOP-61 3	0	1		0	0	
BD25050	Intake 2PIS	11/18/2024	Field	25	PWBL-SOP-61 3	0	0		0	1	
BD25051	Intake 2PIS	11/19/2024	Field	25	PWBL-SOP-61 3	0	1		0	1	
BD25052	Intake 2PIS	11/19/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD25053	Intake 2PIS	11/20/2024	Field	25	PWBL-SOP-61 3	0	0		0	1	
BD25054	Intake 2PIS	11/20/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD25597	Intake 2PIS	11/24/2024	Field	50	1623.1	0	1		0	0	
BD25598	Intake 2PIS	11/25/2024	Field	50	1623.1	0	1		0	0	
BD25610	Intake 2PIS	11/25/2024	MS	50.5	1623.1	99	75	74.7	98	73	74.5
BD25599	Intake 2PIS	11/26/2024	Field	50	1623.1	0	2		0	0	
BD25600	Intake 2PIS	11/27/2024	Field	50	1623.1	0	1		0	1	

Unless otherwise noted, all data were generated in accordance with EPA Method 1623-Modified(PWBL-SOP-61 3) / 1623.1 and 100% of the filtered volume was examined for each sample.

Reviewed by Marsha Farooqui

Date Reviewed: 12/06/2024

OHA - Drinking Water Services - Turbidity Monitoring Report Form

County: Multnomah

Slow Sand, Membrane, Diatomaceous Earth Filtration, or Unfiltered Systems

Portland Water Bureau

ID #: OR 4100657

WTP-A

Month/Year: 11/2024

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	12PM (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.59	0.62	0.60	0.58	0.59	0.61	0.62
2	0.70	0.67	0.71	0.71	0.70	0.70	0.71
3	0.70	0.70	0.71	0.69	0.67	0.67	0.71
4	0.67	0.69	0.69	0.66	0.66	0.67	0.69
5	0.67	0.67	0.69	0.67	0.65	0.66	0.69
6	0.64	0.62	0.62	0.60	0.76	1.08	1.08
7	0.82	0.71	0.65	0.75	0.65	0.58	0.82
8	0.57	0.58	0.59	0.66	0.69	0.64	0.69
9	0.64	0.65	0.62	0.61	0.61	0.62	0.65
10	0.62	0.62	0.62	0.61	0.61	0.61	0.62
11	0.61	0.61	0.61	0.62	0.62	0.61	0.62
12	0.62	0.65	0.64	0.61	0.62	0.62	0.65
13	0.59	0.59	0.59	0.61	0.61	0.60	0.61
14	0.60	0.59	0.59	0.58	0.58	0.58	0.60
15	0.59	0.59	0.60	0.60	0.60	0.59	0.60
16	0.59	0.60	0.56	0.54	0.55	0.55	0.60
17	0.54	0.57	0.61	0.58	0.55	0.54	0.61
18	0.61	0.63	0.74	0.76	0.77	1.14	1.14
19	0.72	0.69	0.66	0.61	0.59	0.55	0.72
20	0.57	0.59	0.59	0.57	0.56	0.57	0.59
21	0.57	0.58	0.59	0.62	0.61	0.59	0.62
22	0.58	0.58	0.57	0.58	0.60	0.64	0.64
23	0.58	0.59	0.58	0.58	0.60	0.59	0.60
24	0.57	0.57	0.56	0.56	0.56	0.55	0.57
25	0.56	0.53	0.54	0.54	0.52	0.53	0.56
26	0.52	0.52	0.51	0.52	0.50	0.51	0.52
27	0.50	0.50	0.51	0.49	0.48	0.51	0.51
28	0.48	0.48	0.48	0.47	0.48	0.46	0.48
29	0.47	0.46	0.46	0.46	0.45	0.45	0.47
30	0.44	0.44	0.42	0.44	0.42	0.44	0.44

Slow Sand/Membrane/DE Filtration/Unfiltered			Monthly summary	
95% of daily turbidity readings ≤ 1 NTU? ¹	N/A	CT's met everyday?	Chlorine residual at entry point always ≥ 0.2 mg/L?	Chlorine residual measured in 95% of distribution samples?
All daily turbidity readings ≤ 5 NTU?	Yes	Yes	Yes	Yes

¹Filtered systems only

Signature: Anna Vosa
Anna Vosa, P.E.

Date: 12/6/24

OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 11/2024

Date	Fecal Coliform (CFU/100mL)	Comments
11/1/2024	1	
11/2/2024	2	
11/3/2024	2	
11/4/2024	4	
11/5/2024	4	
11/6/2024	2	
11/7/2024	1	
11/8/2024	2	
11/9/2024	1	
11/10/2024	4	
11/11/2024	1	
11/12/2024	2	
11/13/2024	1	
11/14/2024	2	
11/15/2024	2	
11/16/2024	1	
11/17/2024	1	
11/18/2024	2	
11/19/2024	2	
11/20/2024	4	
11/21/2024	1	
11/22/2024	3	
11/23/2024	2	
11/24/2024	2	
11/25/2024	2	
11/26/2024	2	
11/27/2024	2	
11/28/2024	1	
11/29/2024	1	
11/30/2024	2	

Note: Fecal Coliform sampled at active Headworks Raw Water Intake (either 2P or 2PIS)

Six Month Summary:

# of Samples For Fecal Coliform:	181
# of Samples > 20 CFU/100mL:	1
Percent:	0.6%