



DATE: November 14, 2024

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

SUBJECT: **Monthly Report for October 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 October. 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)
13	450	0	2	2	74.0	26	0.67

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:	Oct. 2024		
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227				Report Date:	November 6, 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 (%)
BD21167	Intake 2PIS	10/1/2024	Field	50	1623.1	0	0		0	0	
BD21168	Intake 2PIS	10/1/2024	MS	50.5	1623.1	98	61	62.2	99	68	68.7
BD21768	Intake 2PIS	10/6/2024	Field	50	1623.1	0	0		0	0	
BD21769	Intake 2PIS	10/8/2024	Field	50	1623.1	0	0		0	0	
BD22360	Intake 2PIS	10/13/2024	Field	50	1623.1	0	0		0	0	
BD22361	Intake 2PIS	10/15/2024	Field	50	1623.1	0	0		0	1	
BD22839	Intake 2PIS	10/20/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD22840	Intake 2PIS	10/20/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD22841	Intake 2PIS	10/20/2024	MS	25	PWBL-SOP-61 3	99	85	85.8	98	73	74.5
BD22842	Intake 2PIS	10/22/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD22843	Intake 2PIS	10/22/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD23452	Intake 2PIS	10/27/2024	Field	25	PWBL-SOP-61 3	0	0		0	1	
BD23453	Intake 2PIS	10/27/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD23454	Intake 2PIS	10/29/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	
BD23455	Intake 2PIS	10/29/2024	Field	25	PWBL-SOP-61 3	0	0		0	0	

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: 11/06/2024

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: 10/2024

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	12PM (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.48	0.49	0.49	0.49	0.48	0.48	0.49
2	0.49	0.50	0.52	0.51	0.51	0.53	0.53
3	0.55	0.54	0.50	0.50	0.50	0.53	0.55
4	0.52	0.52	0.54	0.52	0.52	0.53	0.54
5	0.54	0.53	0.54	0.53	0.53	0.54	0.54
6	0.53	0.53	0.52	0.50	0.53	0.54	0.54
7	0.54	0.54	0.54	0.52	0.53	0.55	0.55
8	0.55	0.56	0.55	0.67	0.58	0.55	0.67
9	0.54	0.55	0.55	0.55	0.55	0.56	0.56
10	0.56	0.54	0.53	0.49	0.49	0.48	0.56
11	0.49	0.48	0.49	0.49	0.49	0.49	0.49
12	0.50	0.50	0.50	0.49	0.53	0.53	0.53
13	0.54	0.52	0.52	0.51	0.50	0.50	0.54
14	0.53	0.51	0.51	0.54	0.53	0.52	0.54
15	0.53	0.54	0.52	0.53	0.53	0.53	0.54
16	0.54	0.54	0.54	0.52	0.51	0.51	0.54
17	0.51	0.51	0.53	0.51	0.50	0.48	0.53
18	0.49	0.50	0.50	0.49	0.48	0.49	0.50
19	0.48	0.49	0.50	0.50	0.48	0.49	0.50
20	0.50	0.51	0.50	0.48	0.48	0.50	0.51
21	0.53	0.54	0.54	0.51	0.50	0.50	0.54
22	0.49	0.49	0.50	0.49	0.48	0.48	0.50
23	0.48	0.49	0.52	0.52	0.47	0.47	0.52
24	0.50	0.50	0.55	0.51	0.51	0.53	0.55
25	0.50	0.54	0.58	0.60	0.60	0.62	0.62
26	0.64	0.64	0.64	0.62	0.61	0.62	0.64
27	0.64	0.65	0.66	0.65	0.62	0.64	0.66
28	0.64	0.64	0.61	0.59	0.59	0.61	0.64
29	0.61	0.65	0.64	0.62	0.65	0.64	0.65
30	0.62	0.59	0.64	0.58	0.58	0.61	0.64
31	0.62	0.64	0.60	0.59	0.58	0.56	0.64

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: 11/7/24

OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 10/2024

Date	Fecal Coliform (CFU/100mL)	Comments
10/1/2024	3	
10/2/2024	6	
10/3/2024	2	
10/4/2024	2	
10/5/2024	2	
10/6/2024	2	
10/7/2024	2	
10/8/2024	2	
10/9/2024	2	
10/10/2024	4	
10/11/2024	2	
10/12/2024	3	
10/13/2024	4	
10/14/2024	8	
10/15/2024	4	
10/16/2024	8	
10/17/2024		Not Reportable, High Count (NRHC): Results greater than 60 CFU/100mL, maximum allowed by the method.
10/18/2024	26	
10/19/2024	8	
10/20/2024	7	
10/21/2024	6	
10/22/2024	3	
10/23/2024	4	
10/24/2024	6	
10/25/2024	4	
10/26/2024	2	
10/27/2024	4	
10/28/2024	4	
10/29/2024	4	
10/30/2024	4	
10/31/2024	1	

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

Six Month Summary:

# of Samples For Fecal Coliform:	182
# of Samples > 20 CFU/100mL:	1
Percent:	0.6%