



Mingus Mapps, Commissioner
Gabriel Solmer, Director

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Portland, Oregon 97204-1926
Information: 503-823-7404
Portland.gov/water



DATE: February 15, 2024

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for January 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 January. 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)
19	950	3	4	1	67.3	2	1.65

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

Sincerely,

Ann Levy
Environmental Manager

Transmitted: Four pages (including this transmittal memo) emailed to dpw.dmce@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:	Jan. 2024		
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227			Report Date:	February 8, 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 (%)
BD07228	Intake 2PIS	1/1/2024	Field	50	1623.1	0	0		0	0	
BD07229	Intake 2PIS	1/2/2024	Field	50	1623.1	0	0		0	0	
BD07230	Intake 2PIS	1/2/2024	MS	50	1623.1	98	66	67.3	99	75	75.8
BD07231	Intake 2PIS	1/3/2024	Field	50	1623.1	0	0		0	0	
BD07376	Intake 2PIS	1/7/2024	Field	50	1623.1	0	0		0	0	
BD07377	Intake 2PIS	1/8/2024	Field	50	1623.1	0	0		0	0	
BD07378	Intake 2PIS	1/9/2024	Field	50	1623.1	0	0		0	2	
BD07379	Intake 2PIS	1/10/2024	Field	50	1623.1	0	0		0	0	
BD07381	Intake 2PIS	1/15/2024	Field	50	1623.1	0	0		0	0	
BD07382	Intake 2PIS	1/16/2024	Field	50	1623.1	0	0		0	0	
BD07383	Intake 2PIS	1/17/2024	Field	50	1623.1	0	0		0	0	
BD07716	Intake 2PIS	1/18/2024	Field	50	1623.1	0	0		0	0	
BD07717	Intake 2PIS	1/21/2024	Field	50	1623.1	0	0		0	0	
BD07718	Intake 2PIS	1/22/2024	Field	50	1623.1	0	1		0	0	
BD07719	Intake 2PIS	1/23/2024	Field	50	1623.1	0	1		0	0	
BD07720	Intake 2PIS	1/24/2024	Field	50	1623.1	0	1		0	2	
BD07881	Intake 2PIS	1/28/2024	Field	50	1623.1	0	0		0	0	
BD07882	Intake 2PIS	1/29/2024	Field	50	1623.1	0	0		0	0	
BD07883	Intake 2PIS	1/30/2024	Field	50	1623.1	0	0		0	0	
BD07884	Intake 2PIS	1/31/2024	Field	50	1623.1	0	0		0	0	

Unless otherwise noted, all data were generated in accordance with EPA Method 1623/1623.1 and 100% of the filtered volume was examined for each sample.

Reviewed by Marsha Farooqui

Date Reviewed: 02/08/2024

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: 01/2024

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	12 PM (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.76	0.75	0.75	0.75	0.75	0.74	0.76
2	0.72	0.72	0.71	0.71	0.72	0.71	0.72
3	0.71	0.71	0.70	0.70	0.70	0.70	0.71
4	0.70	0.70	0.69	0.69	0.69	0.70	0.70
5	0.69	0.69	0.66	0.66	0.65	0.65	0.69
6	0.64	0.61	0.61	0.63	0.64	0.61	0.64
7	0.62	1.65	0.75	0.62	0.62	0.61	1.65
8	0.60	0.60	0.61	0.61	0.60	0.61	0.61
9	0.62	0.58	0.57	0.56	0.56	0.58	0.62
10	0.56	0.55	0.56	0.58	0.57	0.57	0.58
11	0.57	0.58	0.55	0.56	0.55	0.55	0.58
12	0.55	0.55	0.54	0.55	0.53	0.54	0.55
13	0.59	0.63	0.67	0.70	0.85	0.91	0.91
14	0.87	0.89	0.90	0.92	0.87	0.86	0.92
15	0.82	1.22	0.84	0.87	0.90	0.91	1.22
16	0.94	0.99	1.00	1.01	1.07	0.97	1.07
17	0.96	0.93	0.92	0.96	0.93	0.94	0.96
18	0.92	0.91	0.85	0.79	0.86	0.74	0.92
19	0.72	0.75	0.77	0.81	0.86	0.82	0.86
20	0.80	0.79	0.77	0.77	0.76	0.75	0.80
21	0.74	0.71	0.72	0.72	0.72	0.72	0.74
22	0.71	0.71	0.71	0.70	0.69	0.66	0.71
23	0.64	0.62	0.61	0.58	0.54	0.55	0.64
24	0.55	0.55	0.55	0.55	0.54	0.54	0.55
25	0.52	0.53	0.52	0.52	0.51	0.51	0.53
26	0.49	0.50	0.50	0.49	0.48	0.47	0.50
27	0.48	0.48	0.48	0.45	0.46	0.48	0.48
28	0.52	0.69	0.87	0.86	0.82	0.88	0.88
29	0.87	0.83	0.82	0.77	0.72	0.70	0.87
30	0.67	0.67	0.67	0.70	0.75	0.79	0.79
31	0.86	0.91	0.93	0.92	0.90	0.84	0.93

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?
All daily turbidity readings ≤ 5 NTU?	Yes	Yes	Chlorine residual measured in 95% of distribution samples?
			Yes

¹Filtered systems only

Signature: Anna Vosa
 Anna Vosa, P.E.

Date: 2/7/24

OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 1/2024

Date	Fecal Coliform (CFU/100mL)	Comments
1/1/2024	<1	
1/2/2024	<1	
1/3/2024	<1	
1/4/2024	1	
1/5/2024	<1	
1/6/2024	<1	
1/7/2024	<1	
1/8/2024	1	
1/9/2024	1	
1/10/2024	<1	
1/11/2024	1	
1/12/2024	<1	
1/13/2024	2	
1/14/2024		No raw water coliform samples due to ice storm
1/15/2024		No raw water coliform samples due to ice storm
1/16/2024	<1	
1/17/2024		No raw water coliform samples due to ice storm
1/18/2024	1	
1/19/2024	1	
1/20/2024	<1	
1/21/2024	1	
1/22/2024	1	
1/23/2024	<1	
1/24/2024	<1	
1/25/2024	<1	
1/26/2024	<1	
1/27/2024	1	
1/28/2024	1	
1/29/2024	1	
1/30/2024	1	
1/31/2024	<1	

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

Six Month Summary:	Fecal Coliform	Total Coliform*	Totals
# of Samples Reported:	179	2	181
# of Samples >20 CFU/100mL or >100 MPN/100mL:	0	1	1
Percent:			0.6%

Note: *Total coliform reported on December 5 and 17, 2023 due to invalid fecal coliform results and requirement to report daily raw water coliform results when turbidity is greater than 1 NTU.