



Mingus Mapps, Commissioner
Gabriel Solmer, Director



1120 SW Fifth Avenue, Room 405
Portland, Oregon 97204-1926
Information: 503-823-7404
Portland.gov/water

DATE: May 15, 2023

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

SUBJECT: Monthly Report for April 2023
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 April. Monitoring for *Cryptosporidium* at the Bull Run intake is done to comply with the interim measures of the Bilateral Compliance Agreement (Oregon Health Authority, December 18, 2017).

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)
17	850	4	3	1	79.8	1	0.80

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 dwp.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:	April 2023		
PWS Name:	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227			Report Date:	May 8, 2023		
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	Cryptosporidium			Giardia		
						No. of Oocysts Spiked	No. of Oocysts Counted	Oocyst Matrix Spike Recovery (%)	No. of Cysts Spiked	No. of Cysts Counted	Cyst Matrix Spike Recovery (%)
BC95924	Intake 2PIS	4/2/2023	Field	50	1623.1	0	0		0	0	
BC95925	Intake 2PIS	4/3/2023	Field	50	1623.1	0	1		0	0	
BC95926	Intake 2PIS	4/3/2023	MS	50.5	1623.1	99	80	79.8	100	79	79
BC95927	Intake 2PIS	4/4/2023	Field	50	1623.1	0	0		0	0	
BC95928	Intake 2PIS	4/5/2023	Field	50	1623.1	0	0		0	1	
BC96194	Intake 2PIS	4/9/2023	Field	50	1623.1	0	0		0	0	
BC96195	Intake 2PIS	4/10/2023	Field	50	1623.1	0	0		0	1	
BC96196	Intake 2PIS	4/11/2023	Field	50	1623.1	0	0		0	0	
BC96197	Intake 2PIS	4/12/2023	Field	50	1623.1	0	1		0	1	
BC96654	Intake 2PIS	4/16/2023	Field	50	1623.1	0	0		0	0	
BC96655	Intake 2PIS	4/17/2023	Field	50	1623.1	0	0		0	0	
BC96656	Intake 2PIS	4/18/2023	Field	50	1623.1	0	1		0	0	
BC96657	Intake 2PIS	4/19/2023	Field	50	1623.1	0	0		0	0	
BC96818	Intake 2PIS	4/23/2023	Field	50	1623.1	0	0		0	0	
BC96819	Intake 2PIS	4/24/2023	Field	50	1623.1	0	0		0	0	
BC96820	Intake 2PIS	4/25/2023	Field	50	1623.1	0	0		0	0	
BC96821	Intake 2PIS	4/26/2023	Field	50	1623.1	0	1		0	0	
BC97219	Intake 2PIS	4/30/2023	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: 05/09/2023

OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 04/2023

Date	Fecal Coliform (CFU/100mL)	Comments
4/1/2023	<1	
4/2/2023	<1	
4/3/2023	1	
4/4/2023	<1	
4/5/2023	<1	
4/6/2023	1	
4/7/2023	<1	
4/8/2023	<1	
4/9/2023	<1	
4/10/2023	<1	
4/11/2023	1	
4/12/2023	1	
4/13/2023	<1	
4/14/2023	<1	
4/15/2023	<1	
4/16/2023	<1	
4/17/2023	<1	
4/18/2023	<1	
4/19/2023	1	
4/20/2023	<1	
4/21/2023	1	
4/22/2023	1	
4/23/2023	1	
4/24/2023	<1	
4/25/2023	<1	
4/26/2023	<1	
4/27/2023	<1	
4/28/2023	1	
4/29/2023	<1	
4/30/2023	1	

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

Six Month Summary:

# of Samples For Fecal Coliform:	164
# of Samples > 20 CFU/100mL:	1
Percent:	0.6%

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: 04/2023

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	NOON (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)
1	0.27	0.27	0.27	0.27	0.27	0.27	0.27
2	0.27	0.28	0.29	0.27	0.27	0.28	0.29
3	0.28	0.28	0.28	0.28	0.27	0.29	0.29
4	0.28	0.28	0.28	0.27	0.80	0.55	0.80
5	0.38	0.38	0.37	0.42	0.36	0.32	0.42
6	0.33	0.33	0.34	0.42	0.33	0.30	0.42
7	0.29	0.28	0.29	0.27	0.25	0.27	0.29
8	0.25	0.25	0.27	0.25	0.25	0.25	0.27
9	0.27	0.27	0.27	0.25	0.25	0.25	0.27
10	0.25	0.25	0.24	0.24	0.24	0.25	0.25
11	0.26	0.27	0.28	0.27	0.28	0.29	0.29
12	0.32	0.32	0.30	0.29	0.29	0.33	0.33
13	0.30	0.31	0.29	0.29	0.30	0.30	0.31
14	0.29	0.28	0.29	0.27	0.34	0.33	0.34
15	0.34	0.33	0.31	0.33	0.32	0.33	0.34
16	0.30	0.32	0.32	0.32	0.30	0.30	0.32
17	0.30	0.33	0.30	0.45	0.28	0.28	0.45
18	0.28	0.28	0.29	0.27	0.27	0.25	0.29
19	0.26	0.25	0.25	0.25	0.24	0.25	0.26
20	0.24	0.24	0.25	0.25	0.26	0.25	0.26
21	0.25	0.26	0.25	0.24	0.24	0.24	0.26
22	0.25	0.26	0.27	0.28	0.28	0.27	0.28
23	0.28	0.27	0.25	0.24	0.25	0.25	0.28
24	0.25	0.26	0.25	0.25	0.27	0.29	0.29
25	0.28	0.29	0.28	0.28	0.27	0.28	0.29
26	0.28	0.29	0.29	0.28	0.25	0.27	0.29
27	0.28	0.27	0.25	0.27	0.28	0.28	0.28
28	0.27	0.28	0.25	0.28	0.25	0.27	0.28
29	0.28	0.25	0.26	0.25	0.25	0.26	0.28
30	0.26	0.27	0.26	0.27	0.25	0.25	0.27

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: 5/8/23