



Mingus Mapps, Commissioner  
Gabriel Solmer, Director

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Information: 503-823-7404  
www.portlandoregon.gov/water



**DATE:** March 15, 2022

WQ 0.10.14.4

**TO:** Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for February 2022  
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 February. 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**

<b><i>Cryptosporidium</i> and <i>Giardia</i> Field Samples</b>				<b><i>Cryptosporidium</i> Recoveries</b>		<b>Fecal Coliforms</b>	<b>Turbidity</b>
<b>No. of Samples</b>	<b>Total Volume (L)</b>	<b>Total No. <i>Cryptosporidium</i> Oocysts</b>	<b>Total No. <i>Giardia</i> Cysts</b>	<b>No. of Matrix Spikes</b>	<b>Average Matrix Spike Recovery (%)</b>	<b>Highest Count (CFU/100 mL)</b>	<b>Highest Reading (NTU)</b>
16	800	2	2	1	81.8	<1	0.59

If you have any questions regarding these results, please contact me at 503-823-6135.

Sincerely,

Ann Levy  
Environmental Manager

**Transmitted:** Four pages (including this transmittal memo) emailed to [dwp.dmce@state.or.us](mailto:dwp.dmce@state.or.us) 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>			
<b>PWS ID:</b>	OR4100657			<b>Collection Month &amp; Year:</b>	Feb. 2022		
<b>PWS Name:</b>	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227			<b>Report Date:</b>	March 3, 2022		
<b>County:</b>	Multnomah			<b>Monitoring Regime:</b>	Bilateral Compliance Agreement		
				<b>Source Water:</b>	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 (%)
BC68476	Intake 2PIS	2/1/2022	Field	50	1623.1	0	0		0.0	0	
BC68477	Intake 2PIS	2/1/2022	MS	50.5	1623.1	99	81	81.8	99	72	72.7
BC68478	Intake 2PIS	2/2/2022	Field	50	1623.1	0	0		0.0	0	
BC68939	Intake 2PIS	2/6/2022	Field	50	1623.1	0	0		0.0	0	
BC68940	Intake 2PIS	2/7/2022	Field	50	1623.1	0	0		0.0	0	
BC68941	Intake 2PIS	2/8/2022	Field	50	1623.1	0	0		0.0	1	
BC69351	Intake 2PIS	2/12/2022	Field	50	1623.1	0	0		0.0	0	
BC69352	Intake 2PIS	2/13/2022	Field	50	1623.1	0	0		0.0	0	
BC69353	Intake 2PIS	2/14/2022	Field	50	1623.1	0	2		0.0	0	
BC69354	Intake 2PIS	2/15/2022	Field	50	1623.1	0	0		0.0	0	
BC69355	Intake 2PIS	2/16/2022	Field	50	1623.1	0	0		0.0	0	
BC70023	Intake 2PIS	2/20/2022	Field	50	1623.1	0	0		0.0	1	
BC70024	Intake 2PIS	2/21/2022	Field	50	1623.1	0	0		0.0	0	
BC70025	Intake 2PIS	2/22/2022	Field	50	1623.1	0	0		0.0	0	
BC70026	Intake 2PIS	2/23/2022	Field	50	1623.1	0	0		0.0	0	
BC70429	Intake 2PIS	2/27/2022	Field	50	1623.1	0	0		0.0	0	
BC70430	Intake 2PIS	2/28/2022	Field	50	1623.1	0	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: 03/04/2022

# 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: 02/2022**

DAY	12 AM (NTU)	4 AM (NTU)	8 AM (NTU)	NOON (NTU)	4 PM (NTU)	8 PM (NTU)	Highest Reading (NTU)	
1	0.55	0.54	0.55	0.56	0.59	0.54	<b>0.59</b>	
2	0.54	0.54	0.53	0.54	0.56	0.53	<b>0.56</b>	
3	0.54	0.54	0.54	0.55	0.53	0.53	<b>0.55</b>	
4	0.54	0.57	0.56	0.55	0.50	0.55	<b>0.57</b>	
5	0.54	0.48	0.48	0.49	0.49	0.48	<b>0.54</b>	
6	0.47	0.48	0.48	0.48	0.49	0.49	<b>0.49</b>	
7	0.47	0.47	0.45	0.45	0.46	0.45	<b>0.47</b>	
8	0.45	0.44	0.45	0.44			<b>0.45</b>	
9	<b>100 Percent Groundwater</b>							
10								
11								0.41
12	0.41	0.41	0.43	0.41	0.41	0.40	<b>0.43</b>	
13	0.40	0.40	0.39	0.40	0.38	0.39	<b>0.40</b>	
14	0.38	0.38	0.39	0.38	0.48	0.49	<b>0.49</b>	
15	0.40	0.56	0.36	0.35	0.38	0.35	<b>0.56</b>	
16	0.35	0.33	0.34	0.33	0.48	0.33	<b>0.48</b>	
17	0.32	0.34	0.32	0.32	0.33	0.33	<b>0.34</b>	
18	0.33	0.33	0.32	0.33	0.32	0.32	<b>0.33</b>	
19	0.35	0.33	0.33	0.33	0.33	0.33	<b>0.35</b>	
20	0.32	0.30	0.30	0.29	0.30	0.31	<b>0.32</b>	
21	0.30	0.31	0.31	0.30	0.30	0.33	<b>0.33</b>	
22	0.32	0.32	0.32	0.32	0.33	0.32	<b>0.33</b>	
23	0.32	0.32	0.32	0.32	0.33	0.34	<b>0.34</b>	
24	0.35	0.33	0.33	0.39	0.38	0.40	<b>0.40</b>	
25	0.37	0.39	0.38	0.35	0.41	0.44	<b>0.44</b>	
26	0.43	0.37	0.38	0.35	0.37	0.38	<b>0.43</b>	
27	0.37	0.38	0.41	0.41	0.50	0.43	<b>0.50</b>	
28	0.50	0.45	0.44	0.44	0.39	0.48	<b>0.50</b>	

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

<sup>1</sup>Filtered systems only

Signature: Anna Vosa  
 Anna Vosa, P.E.

Date: 3/9/22

## OHA Drinking Water Services - Raw Coliform Data (Unfiltered)

Portland Water Bureau

ID#: OR 4100657

Month/Year: 02/2022

Date	Fecal Coliform (CFU/100mL)	Comments
2/1/2022	<1	
2/2/2022	<1	
2/3/2022	<1	
2/4/2022	<1	
2/5/2022	<1	
2/6/2022	<1	
2/7/2022	<1	
2/8/2022	<1	
2/9/2022		<b>100 Percent</b>
2/10/2022		<b>Groundwater</b>
2/11/2022	<1	
2/12/2022	<1	
2/13/2022	<1	
2/14/2022	<1	
2/15/2022	<1	
2/16/2022	<1	
2/17/2022	<1	
2/18/2022	<1	
2/19/2022	<1	
2/20/2022	<1	
2/21/2022	<1	
2/22/2022	<1	
2/24/2022	<1	
2/25/2022	<1	
2/26/2022	<1	
2/27/2022	<1	
2/28/2022	<1	

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

**Six Month Summary:**

# of Samples For Fecal Coliform:	176
# of Samples > 20 CFU/100mL:	0
Percent:	0.0%