



Nick Fish, Commissioner  
Michael Stuhr, P.E., Administrator

1120 SW 5<sup>th</sup> Avenue, Room 600  
Portland, Oregon 97204-1926  
Information: 503-823-7404  
www.portlandoregon.gov/water



DATE: April 7, 2017

WQ 0.10.14.4

TO: Oregon Health Authority, Drinking Water Services

**SUBJECT: Monthly Report for March 2017  
Bull Run Treatment Variance and LT2ESWTR Round 2  
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 March. Monitoring for *Cryptosporidium* at the Bull Run intake is done to comply with the conditions of Portland's Bull Run Treatment Variance (OHA Final Order, March 14, 2012). PWB is currently in Demonstration Monitoring. Compliance turbidity readings at the intake for the reporting month were not greater than 2.0 NTU.

This data is also being submitted to meet the requirements for the second round of monitoring for the Long Term 2 Enhanced Surface Water Treatment Rule. The sample collected on March 28th is designated as the "LT2 Round 2" sample, in accordance with PWB's LT2 Round 2 source water monitoring plan submitted to OHA on December 12, 2014.

Analytical Services, Inc. completed the analysis for *Cryptosporidium* (see attached report). Results for the reporting month, previous eleven months, and Demonstration Monitoring to date are summarized below:

***Cryptosporidium* Data Summary for the Reporting Month, Previous Eleven Months, and Demonstration Monitoring**

Date Range		Total Field Samples	Total Field Sample Volume (L)	Total No. Oocysts Counted in Field Samples	Total Matrix Spikes	Average Matrix Spike Recovery (%)
Reporting Month:	3/01/2017-3/31/2017	21	1,050.0	2	2	51.6
Previous 11 Months:	04/01/2016-2/28/2017	223	6,119.2	17	25	41.2
Demonstration Monitoring	1/08/2017-3/31/2017	60	3,000.1	14	6	46.5

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

Sincerely,

Sadie Silkie  
On behalf of Ann Levy, Environmental Program Manager

**Transmitted:** Two pages (including this transmittal memo) emailed to [dwp.dmce@state.or.us](mailto:dwp.dmce@state.or.us) on this date.



Microbiological Testing, Research & Consulting  
130 Allen Brook Ln., Williston VT 05495

**Cryptosporidium Laboratory Analysis Report**

<u>Water System Information</u>		<u>Sample Information</u>	
<b>PWS ID:</b>	OR4100657	<b>Collection Month &amp; Year:</b>	March 2017
<b>PWS Name:</b>	Portland Water Bureau 1900 N Interstate Avenue Portland, Oregon 97227	<b>Report Date:</b>	April 3, 2017
<b>County:</b>	Multnomah	<b>Monitoring Regime:</b>	Demonstration
		<b>Source Water:</b>	Bull Run Intake - WTP-A

**Analytical Services, Inc. (ASI)**

PWB Sample ID	Loc ID	Sample Collection Date	Sample Type	Sample Volume Filtered (L)	No. of Oocysts Spiked	No. of Oocysts Counted	No. Oocysts per Liter	Matrix Spike Recovery (%)	Analysis Method
BB-84503	Headworks	3/1/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB84811	Headworks	3/5/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB84810	Headworks	3/6/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB84817	Headworks	3/6/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB84940	Headworks	3/7/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85140	Headworks	3/8/2017	Field	50.0	0	1	0.02		EPA Method 1623
BB85465	Headworks	3/12/2017	Field	50.0	0	1	0.02		EPA Method 1623
BB85474	Headworks	3/13/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85475	Headworks	3/13/2017	MS	50.0	99	36	0.72	36.4	EPA Method 1623
BB85505	Headworks	3/14/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85535	Headworks	3/14/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85594	Headworks	3/15/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85810	Headworks	3/19/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85812	Headworks	3/20/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85814	Headworks	3/20/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85849	Headworks	3/21/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB85997	Headworks	3/22/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB86334	Headworks	3/26/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB86336	Headworks	3/27/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB86338	Headworks	3/27/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB86339	Headworks	3/27/2017	MS	50.0	99	66	1.32	66.7	EPA Method 1623
BB86387	Headworks	3/28/2017	Field	50.0	0	0	0.00		EPA Method 1623
BB86587	Headworks	3/29/2017	Field	50.0	0	0	0.00		EPA Method 1623

**ASI Data Quality Statement:**

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

Reviewed by PS Jordan

Date Reviewed: April 3, 2017