PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

Randy Leonard, Commissioner
David G. Shaff, Administrator

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DATE: November 6, 2012 WQ 0.10.14.4

TO: Oregon Health Authority
Environmental Public Health
Drinking Water Program

SUBJECT: **Monthly Report for October 2012**
Bull Run Treatment Variance
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 2012. 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 Observation Monitoring. During the reporting month compliance turbidity readings at the intake were greater than 2.0 NTU on October 30, 2012, requiring the collection of turbidity-based samples (see attached report).

Analytical Services, Inc. completed the analysis for *Cryptosporidium* (see attached report). A summary of the results for the reporting month and the previous eleven months is shown in the table below:

***Cryptosporidium* Data Summary for the Reporting Month and the Previous Eleven Months.**

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:	10/1/2012-10/31/2012	45	449.74	0	5	41.8
Previous 11 Months*:	4/1/2012-09/30/2012	149	2651.66	0	18	41.4

*Please note that because April 2012 is the first reporting month under the Bull Run Treatment Variance, this table currently summarizes less than 11 months of monitoring.

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

Sincerely,

Ann Richter

Ann Richter
Environmental Program Manager

Transmitted: Four pages (including this transmittal memo) emailed to dwp.dmce@state.or.us on this date.

Bull Run Treatment Variance
Turbidity-based Sampling Report

PWS Name: **Portland Water Bureau**
ID #: **OR4100657**
Month/Year: **10/2012**

Notes: Highest compliance readings are from the Turbidity Monitoring Report submitted with the Surface Water Treatment Rule monthly report.

DAY	Highest Compliance Reading (NTU)	50-L Sample Required?	Sample ID(s)
10/1/2012	0.66	No	N/A
10/2/2012	0.76	No	N/A
10/3/2012	1.39	No	N/A
10/4/2012	1.10	No	N/A
10/5/2012	0.83	No	N/A
10/6/2012	0.56	No	N/A
10/7/2012	0.74	No	N/A
10/8/2012	0.85	No	N/A
10/9/2012	0.82	No	N/A
10/10/2012	0.81	No	N/A
10/11/2012	0.81	No	N/A
10/12/2012	0.82	No	N/A
10/13/2012	0.79	No	N/A
10/14/2012	0.85	No	N/A
10/15/2012	0.85	No	N/A
10/16/2012	0.94	No	N/A
10/17/2012	1.42	No	N/A
10/18/2012	1.32	No	N/A
10/19/2012	1.20	No	N/A
10/20/2012	1.15	No	N/A
10/21/2012	1.28	No	N/A
10/22/2012	1.17	No	N/A
10/23/2012	0.98	No	N/A
10/24/2012	0.98	No	N/A
10/25/2012	0.94	No	N/A
10/26/2012	0.92	No	N/A
10/27/2012	0.77	No	N/A
10/28/2012	0.74	No	N/A
10/29/2012	1.91	No	N/A
10/30/2012	**2.03**	**Yes**	**BB23053, BB23055, BB23056, BB23057, BB23058**
10/31/2012	1.36	No	N/A

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

Cryptosporidium Laboratory Analysis Report

Water System Information		Sample Information	
PWS ID:	OR4100657	**Collection Month & Year:**	October 2012
PWS Name:	Portland Water Bureau	**Report Date:**	November 5, 2012
	1900 N Interstate Avenue	**Monitoring Regime:**	Observation
	Portland, Oregon 97227	**Source Water:**	Bull Run Intake - WTP-A
County:	Multnomah		

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
BB21830	2P	10/2/2012	Field	10.00	0	0	0.00	-	Modified 1623
BB21831	2P	10/2/2012	Matrix Spike	10.10	100	41	4.06	41.0	Modified 1623
BB21832	2P	10/2/2012	Field	9.96	0	0	0.00	-	Modified 1623
BB21833	2P	10/2/2012	Field	9.90	0	0	0.00	-	Modified 1623
BB21834	2P	10/2/2012	Field	10.07	0	0	0.00	-	Modified 1623
BB21835	2P	10/2/2012	Field	9.92	0	0	0.00	-	Modified 1623
BB22041	2P	10/7/2012	Field	10.09	0	0	0.00	-	Modified 1623
BB22042	2P	10/7/2012	Field	10.05	0	0	0.00	-	Modified 1623
BB22043	2P	10/7/2012	Field	10.05	0	0	0.00	-	Modified 1623
BB22044	2P	10/7/2012	Field	10.06	0	0	0.00	-	Modified 1623
BB22045	2P	10/7/2012	Field	10.02	0	0	0.00	-	Modified 1623
BB22238	2P	10/9/2012	Field	9.94	0	0	0.00	-	Modified 1623
BB22243	2P	10/9/2012	Matrix Spike	9.97	100	42	4.21	42.0	Modified 1623
BB22239	2P	10/9/2012	Field	9.96	0	0	0.00	-	Modified 1623
BB22240	2P	10/9/2012	Field	9.92	0	0	0.00	-	Modified 1623
BB22241	2P	10/9/2012	Field	9.99	0	0	0.00	-	Modified 1623
BB22242	2P	10/9/2012	Field	10.01	0	0	0.00	-	Modified 1623
BB22323	2P	10/14/2012	Field	10.02	0	0	0.00	-	Modified 1623
BB22324	2P	10/14/2012	Field	10.01	0	0	0.00	-	Modified 1623
BB22325	2P	10/14/2012	Field	10.01	0	0	0.00	-	Modified 1623
BB22326	2P	10/14/2012	Field	10.06	0	0	0.00	-	Modified 1623
BB22327	2P	10/14/2012	Field	10.06	0	0	0.00	-	Modified 1623
BB22475	2P	10/16/2012	Field	10.03	0	0	0.00	-	Modified 1623
BB22476	2P	10/16/2012	Matrix Spike	10.01	100	41	4.10	41.0	Modified 1623
BB22477	2P	10/16/2012	Field	10.01	0	0	0.00	-	Modified 1623
BB22478	2P	10/16/2012	Field	9.99	0	0	0.00	-	Modified 1623
BB22479	2P	10/16/2012	Field	10.01	0	0	0.00	-	Modified 1623
BB22480	2P	10/16/2012	Field	10.00	0	0	0.00	-	Modified 1623

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
BB22627	2P	10/21/2012	Field	9.94	0	0	0.00	-	Modified 1623
BB22628	2P	10/21/2012	Field	9.99	0	0	0.00	-	Modified 1623
BB22629	2P	10/21/2012	Field	9.95	0	0	0.00	-	Modified 1623
BB22630	2P	10/21/2012	Field	9.94	0	0	0.00	-	Modified 1623
BB22631	2P	10/21/2012	Field	9.93	0	0	0.00	-	Modified 1623
BB22778	2P	10/23/2012	Field	9.94	0	0	0.00	-	Modified 1623
BB22783	2P	10/23/2012	Matrix Spike	9.91	100	53	5.35	53.0	Modified 1623
BB22779	2P	10/23/2012	Field	9.93	0	0	0.00	-	Modified 1623
BB22780	2P	10/23/2012	Field	10.10	0	0	0.00	-	Modified 1623
BB22781	2P	10/23/2012	Field	9.95	0	0	0.00	-	Modified 1623
BB22782	2P	10/23/2012	Field	9.98	0	0	0.00	-	Modified 1623
BB22937	2P	10/28/2012	Field	9.94	0	0	0.00	-	Modified 1623
BB22938	2P	10/28/2012	Field	9.93	0	0	0.00	-	Modified 1623
BB22939	2P	10/28/2012	Field	10.05	0	0	0.00	-	Modified 1623
BB22940	2P	10/28/2012	Field	9.98	0	0	0.00	-	Modified 1623
BB22941	2P	10/28/2012	Field	9.90	0	0	0.00	-	Modified 1623
BB23053	2P	10/30/2012	Field	10.03	0	0	0.00	-	Modified 1623
BB23054	2P	10/30/2012	Matrix Spike	10.02	100	32	3.19	32.0	Modified 1623
BB23055	2P	10/30/2012	Field	10.01	0	0	0.00	-	Modified 1623
BB23056	2P	10/30/2012	Field	10.00	0	0	0.00	-	Modified 1623
BB23057	2P	10/30/2012	Field	10.03	0	0	0.00	-	Modified 1623
BB23058	2P	10/30/2012	Field	10.08	0	0	0.00	-	Modified 1623

Notes: "Modified 1623" involves precoating the HV filter and modified elution solution (ASI SOP 224-7).

ASI Data Quality Statement:

All data reported above, unless otherwise noted, were generated in accordance with EPA Method 1623.

Reviewed by PSWanden Date Reviewed: 5-Nov-2012