

August 5th 2016

FOR IMMEDIATE RELEASE

Tenmile Lakes water monitoring – July 2016 Update

Tenmile Lakes Basin Partnership is monitoring the Tenmile Lakes waters on a regular basis over the summer with help from a contribution of up to \$5,000 from Coos County through its Coos Health & Wellness Public Health Division.

Because Blue Green Algae have been present in the lakes for many years, it is important that the toxicity levels of the lakes be monitored to ensure toxin levels remain within safe levels, especially when the lakes are used by the public and their pets for recreational activities such as swimming, boating, and fishing.

The first water sampling occurred on July 18th and the results came in on July 25th 2016 for three different sites:

1. Coos Bay Yacht Club swimming area (C2)
2. Wulfy Beach swimming area and immediate surroundings (C1)
3. Tenmile Lakes Canal near North Lake RV Resort and Marina swimming area (C3)

See attached results.

Toxin levels are below OHA recreational advisory standards; however, it is not recommended for people or pets to drink the Tenmile Lakes waters unless properly treated prior to consumption.

The next water sampling is scheduled for August 15th. We would like to thank North Lake Resort and the Tenmile Yacht club for their cooperation.

Summary of Blue Green Algae toxin safety levels for health advisory from the Oregon Health Authority (2015)

Guideline	Microcystin (ug/L)	Anatoxin –a (ug/L)	Cylindrospermopsin (ug/L)
Drinking water	1.0	3.0	1.0
Recreational	10	20	6
Pets	0.2	0.4	0.1

Some additional information about the attached results:

- Microcystin has various congeners (slightly different forms of the same molecule). The HPLC toxin test we are using tests for the most common congeners. That's the -RR, -YR, -LR, -LA, -LF, -LW that you see on the test results.
- To get the TOTAL Microcystin at a particular site, you need to add all the congeners together. So in the last results, one would report the total microcystin at site C1 as the sum of 0.95 (MYC-RR) + 2.20 (MYC-LR) + 0.50 (MYC-LA) = **3.65ug/L total**.



LAKE SUPERIOR STATE UNIVERSITY

Environmental Analysis Laboratory

Date: July 25, 2016

To: Mike Mader
Tenmile Lakes Basin Partnership

From: Mr. Benjamin Southwell, Environmental Laboratory Manager and Chemist, LSSU

Subject: Data Report for Cyanotoxin Samples Supplied 7/19/2016

Summary: Listed below are the results for the analysis of the supplied sample. HPLC-PDA was utilized for the analysis of Anatoxin-a, Cylindrospermopsin and Microcystin.

Sample Identification:	Collection Date	Anatoxin-a (µg/L)	Cylindrospermopsin (µg/L)	MYC-RR (µg/L)	MYC-YR (µg/L)	MYC-LR (µg/L)	MYC-LA (µg/L)	MYC-LF (µg/L)	MYC-LW (µg/L)
C1	7/18/2016	<0.20	<0.20	0.95	<0.20	2.20	0.50	<0.20	<0.20
C2	7/18/2016	<0.20	<0.20	<0.20	<0.20	0.40	<0.20	<0.20	<0.20
C3	7/18/2016	<0.20	<0.20	0.20	<0.20	0.70	<0.20	<0.20	<0.20
Assay Limit of Detection									
		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

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