

## YUROK TRIBE ENVIRONMENTAL PROGRAM (YTEP) MEMORANDUM

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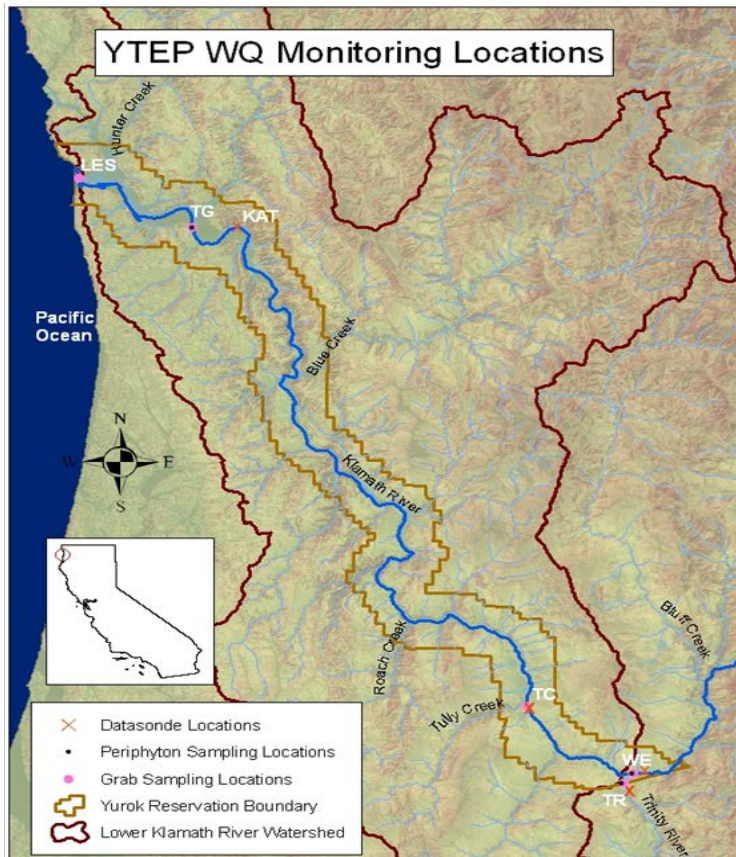
**TO:** Klamath River BGA workgroup  
**FROM:** Suzanne Fluharty <sfluharty@yuroktribe.nsn.us>  
**DATE:** July 26, 2019  
**RE:** **July 23-24 Microcystin Results**

YTEP has received results for water samples collected July 23-24 for blue green algae and associated toxins within the external boundaries of the Yurok Reservation. The areas above Tully Creek at Weitchpec and the Trinity River remain with no detections at this time.

**However, toxin levels have been detected in local areas of low flow water at Tully Creek mouth (0.12 ug/L) and in the South Slough of the estuary (0.33 ug/L).**

**Because these detections are below the Health Advisory Level public access points from river mile 38.5 to the mouth will be posted with Level 1 Informative, Caution flyers.**

Caution should be used due to the patchy nature of algal blooms and YTEP's limited sampling budget at all regions with slow moving water. Please see the attached flyer for recommended precautions.



The figure to the left, illustrates the locations of Grab Sampling Locations on the Yurok Reservation by a pink dot. Individual results from physical water samples may be referenced in Table 1, below.

The Klamath Basin Monitoring Program has developed a BGA Tracker and can be viewed at: <http://www.kbmp.net/maps-data/blue-green-algae-tracker>

If you have questions about the algae monitoring from Weitchpec to the mouth of the Klamath River, please contact the Yurok Tribe Environmental Program:

Matt Hanington,  
Water Division Manager  
(707) 954-7519; or

Suzanne Fluharty,  
Ecosystem & Community Manager  
(707) 482-1350 X1013.

**TABLE ONE: Yurok Phytoplankton Identification and Enumeration Results 2019**

Date	Time	Location	River Mile	Sample ID	Depth (cm)	MSAE (cells/ml)	AFA (cells/ml)	ANA (cells/ml)	Other (cells/ml)	Microcystin (ug/L)
5/7/2019	10:20	LES	0.5	LES050719-OC	30	*	*	*	*	ND
5/7/2019	11:17	TG	6	TG050719-OC	30	*	*	*	*	ND
5/8/2019	10:12	TC	38.5	TC050819-OC	30	*	*	*	*	ND
5/8/2019	11:17	WE	43.5	WE050819-OC	30	*	*	*	*	ND
5/21/2019	11:27	LES	0.5	LES052119-OC	30	*	*	*	*	ND
5/21/2019	12:05	TG	6	TG052119-OC	30	*	*	*	*	ND
5/22/2019	11:36	TR	0.06	TR052219-OC	30	*	*	*	*	ND
5/22/2019	10:35	TC	38.5	TC052219-OC	30	*	*	*	*	ND
5/22/2019	11:50	WE	43.5	WE052219-OC	30	*	*	*	*	ND
6/4/2019	13:01	SS	0.2	SS060419-SG	10	*	*	*	*	ND
6/4/2019	11:40	LES	0.5	LES060419-OC	30	*	*	*	*	ND
6/4/2019	12:27	TG	6	TG060419-OC	30	*	*	*	*	ND
6/4/2019	12:27	TG	6	TG060419-SG	10	*	*	*	*	ND
6/5/2019	10:30	TC	38.5	TC060519-OC	30	*	*	*	*	ND
6/5/2019	11:40	WE	43.5	WE060519-OC	30	*	*	*	*	ND
6/5/2019	11:40	WE	43.5	WE060519-SG	10	*	*	*	*	ND
6/18/2019	11:39	LES	0.5	LES061819-OC	30	DNS	DNS	DNS	DNS	ND
6/18/2019	11:10	TG	6	TG061819-OC	30	DNS	DNS	DNS	DNS	ND
6/19/2019	11:33	TR	0.06	TR061919-OC	30	DNS	DNS	DNS	DNS	ND
6/19/2019	10:12	TC	38.5	TC061919-OC	30	DNS	DNS	DNS	DNS	ND
6/19/2019	11:52	WE	43.5	WE061919-OC	30	DNS	DNS	DNS	DNS	ND
6/25/2019	13:14	TG	6	TG06262019-SG	10	broken	broken	broken	broken	broken
6/25/2019	14:14	WE	43.5	WE062519-SG	10	DNS	DNS	DNS	DNS	ND
6/26/2019	12:25	SS	0.2	SS062619-SG	10	DNS	DNS	DNS	DNS	ND
6/26/2019	11:10	NA	NA	KBW062619-SG	10	DNS	DNS	DNS	DNS	ND
7/9/2019	11:58	SS	0.2	SS070919-SG	10	DNS	DNS	DNS	DNS	ND
7/9/2019	10:10	LES	0.5	LES070919-OC	30	DNS	DNS	DNS	DNS	ND
7/9/2019	11:12	TG	6	TG070919-OC	30	DNS	DNS	DNS	DNS	ND
7/9/2019	11:12	TG	6	TG070919-SG	10	DNS	DNS	DNS	DNS	ND
7/10/2019	10:29	TC	38.5	TC071019-OC	30	DNS	DNS	DNS	DNS	ND
7/10/2019	11:47	WE	43.5	WE071019-OC	30	DNS	DNS	DNS	DNS	ND
7/10/2019	11:47	WE	43.5	WE071019-SG	10	DNS	DNS	DNS	DNS	ND
7/23/2019	12:42	SS	0.2	SS072319-SG	10	*	*	*	*	0.33
7/23/2019	11:22	LES	0.5	LES072319-OC	30	*	*	*	*	ND
7/23/2019	11:45	TG	6	TG072319-OC	30	*	*	*	*	ND
7/23/2019	11:56	TG	6	TG072319-SG	10	*	*	*	*	ND
7/24/2019	10:30	TC	38.5	TC072419-OC	30	*	*	*	*	0.12
7/24/2019	11:26	TR	0.06	TR072419-OC	30	*	*	*	*	ND
7/24/2019	11:55	WE	43.5	WE072419-OC	30	*	*	*	*	ND
7/24/2019	11:57	WE	43.5	WE072419-SG	10	*	*	*	*	ND

**KEY to TABLE ONE**

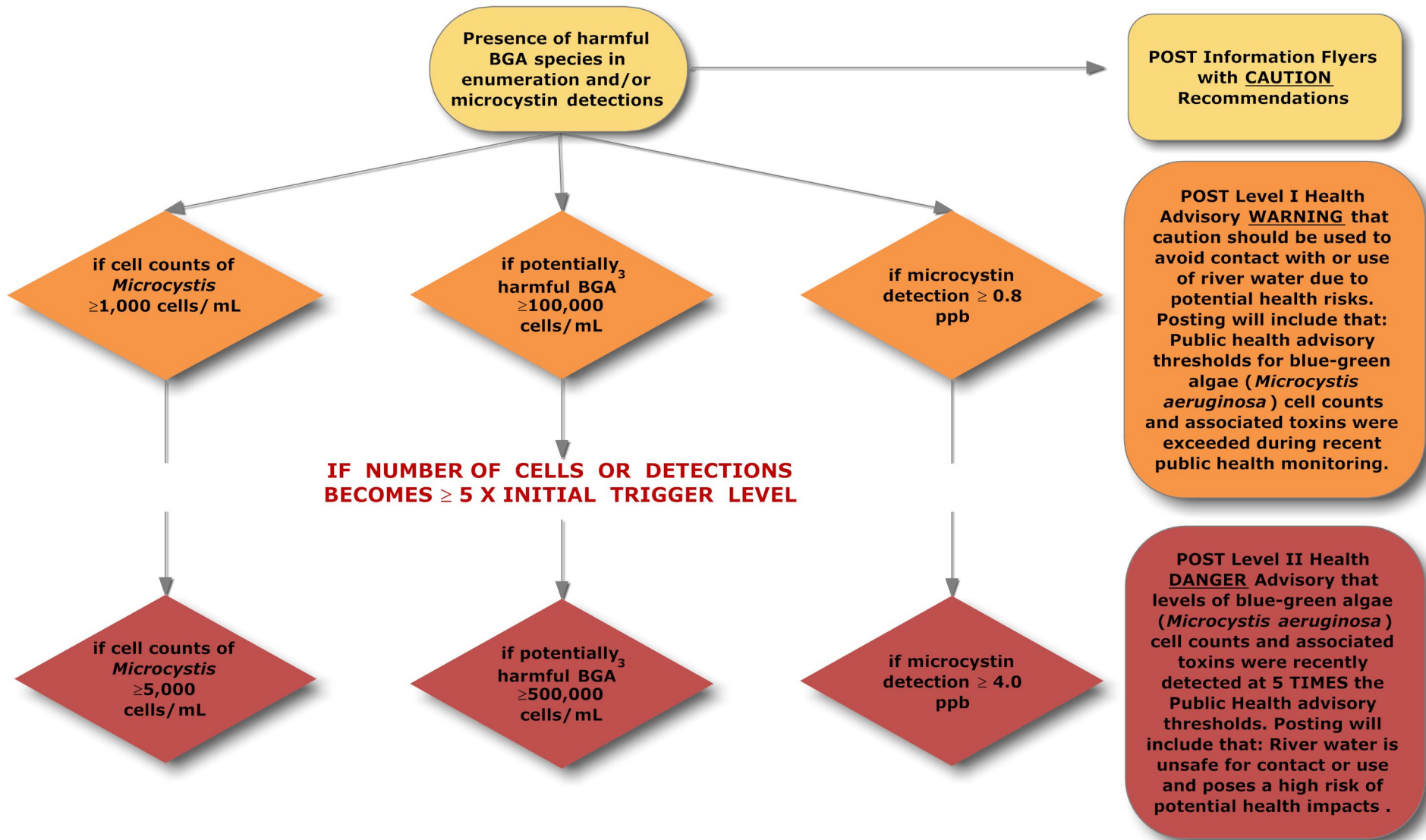
LES Lower Estuary  
 SS South Slough  
 TC Above Tully Creek  
 TG Above Turwar Gage  
 TR Trinity River  
 WE Weitchpec

MSAE *Microcystis aeruginosa*  
 AFA *Aphanizomenon flos-aquae*  
 ANA *Anabaena circinalis*  
 Other<sup>1</sup> *Oscillatoria* sp.  
 Other<sup>2</sup> *Gloeotrichia echinulata*  
 Other<sup>3</sup> *Aphanizomenon* sp.

Other<sup>4</sup> *Pseudanabaena* sp.  
 Other<sup>5</sup> *Anabaena* sp.  
 Other<sup>6</sup> *Anabaena variabilis*  
 Other<sup>7</sup> *Anabaena planctonica*  
 Other<sup>8</sup> *Limnithrix* sp.  
 Other<sup>9</sup> *Dolichospermum* sp.

DNS Did not sample  
 \* Not available at this time  
 BRL Below Reporting Limit  
 ND No detections

**Highlighted rows denote results by week.**



# CAUTION

## BLUE GREEN ALGAE IS PRESENT IN THE KLAMATH RIVER (July 26, 2019)



1. Avoid swimming or wading in areas when the water has a strong bright green color or where algae mats are present.



2. Keep pets, especially dogs out of strong bright green watercolor. Do not allow them to drink river water or lick algae from their fur.



3. Swimmers should shower & rinse pets with tap water after swimming.

4. Fish may be eaten after removing guts & liver- rinse fillets in tap water.

5. Do not drink or cook with river water.

Blue green algae in the river during the summer & fall may result in dangerous buildup of toxins in the water.

**ACTIVITIES NEAR THE WATER SUCH AS FISHING, CAMPING & HIKING ARE SAFE**

If you have questions please contact: Matt Hanington, Division Manager, Yurok Tribe Environmental Program (707) 954-7519.

• North Coast Regional Water Quality Control Board at 707-576-2220

• California Department of Public Health website: <http://www.cdph.ca.gov/HealthInfo/environhealth/water/Pages/Bluegreenalgae.aspx>

If you have questions about the algae monitoring from Weitchpec to the mouth of the Klamath River, please contact Matt Hanington, Acting Assistant Director, Yurok Tribe Environmental Program (707) 954-7519.