Trigger Levels

Table 1 below provides recommendations to post advisory signs based on trigger levels for the following criteria: concentrations of three major cyanotoxins in water, cell count of potential toxin producers, and site-specific indicators. These trigger levels were developed to protect human and animal (dogs, livestock) health from cyanobacteria HABs; for more information on how these levels were derived refer to Appendix A - Description of cyanotoxin trigger levels in recreational water bodies. The advisory signs communicate potential risk to the public.

Table 1: Trigger Levels for Human and Animal Health			
	Caution Action Trigger	Warning TIER I	Danger TIER II
Primary Triggers			
Total Microcystins	0.8 μg/L	6 μg/L	20 μg/L
Anatoxin-a	Detection	20 μg/L	90 μg/L
Cylindrospermopsin	1 μg/L	4 μg/L	17 μg/L
Secondary Triggers			
Cell Density (Toxin Producers)	4,000 cells/mL	ı	
Site Specific Indicators of CyanoHAB	Visible bloom/discoloration, scum, algal mats, satellite imagery,		

^aThe primary triggers are met when ANY toxin exceeds criteria

[▶] Microcystins refers to the sum of all measured microcystin congeners

[∘] Must use an analytical method that detects ≤ 1 µg/L Anatoxin-a