

2010 Lake Hope Algal Toxin Sampling Data

Ohio EPA, Division of Surface Water

ppb = parts per billion

World Health Organization Provisional Guidelines for Microcystin Toxin:

- Recreational Contact = 20 ppb (upper end of moderate risk range)
- Public Drinking Water = 1 ppb

There are no national standards or benchmarks for Anatoxin-a, Cylindrospermopsin or Saxitoxin.

Ohio Harmful Algae Bloom Websites:

- Ohio Environmental Protection Agency – www.epa.ohio.gov/dsw/HAB.aspx and www.epa.ohio.gov/pic/glsm_algae.aspx
- Ohio Department of Natural Resources – www.ohiodnr.com/tabid/22957/Default.aspx
- Ohio Department of Health – www.odh.ohio.gov/features/odhfeatures/algalblooms.aspx

Sample Collection Date	Collected By / Analyzed By	Toxin Tested	Beach (surface) (ppb)	Beach (1' depth) (ppb)	Launch Ramp (surface) (ppb)	Launch Ramp (1' depth) (ppb)	Biomass (ppb)
10/11/10	Ohio DNR / Celina-PWS	Microcystin	Non-detect	Non-detect	-	-	-
8/29/10	Ohio DNR / Green Water	Anatoxin-a	Non-detect	Non-detect	-	-	-
	Ohio DNR / Green Water	Cylindrospermopsin	Non-detect	Non-detect	-	-	-
	Ohio DNR / Celina-PWS	Microcystins	Non-detect	Non-detect	-	-	-
	Ohio DNR / Green Water	Saxitoxin	Non-detect	Non-detect	-	-	-
8/23/10	Ohio DNR / Green Water	Anatoxin-a	Non-detect	Non-detect	-	-	-
	Ohio DNR / Green Water	Cylindrospermopsin	Non-detect	Non-detect	-	-	-
	Ohio DNR / Celina-PWS	Microcystins	0.2	0.2	-	-	-
	Ohio DNR / Green Water	Saxitoxin	Non-detect	Non-detect	-	-	-
8/15/10	Ohio DNR / Green Water	Anatoxin-a	Non-detect	Non-detect	-	-	-
	Ohio DNR / Green Water	Cylindrospermopsin	Non-detect	Non-detect	-	-	-
	Ohio DNR / Celina-PWS	Microcystins	Non-detect	Non-detect	-	-	-
	Ohio DNR / Green Water	Saxitoxin	Non-detect	Non-detect	-	-	-
8/9/10	Ohio DNR / Green Water	Anatoxin-a	Non-detect	-	Non-detect	Non-detect	-
	Ohio DNR / Green Water	Cylindrospermopsin	Non-detect	-	Non-detect	Non-detect	-
	Ohio DNR / Celina-PWS	Microcystins	-	-	Non-detect	Non-detect	-
	Ohio DNR / Green Water	Saxitoxin	Non-detect	-	Non-detect	Non-detect	-
8/7/10	Ohio DNR / Celina-PWS	Microcystins	-	-	-	-	Non-detect

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The initial sample collected on 8/3/10 as well as the sample collected on 8/8/10 was analyzed by Green Water Labs. The samples were dominated by *Planktothrix* which can potentially produce microcystins and other toxins.