



Cyanobacteria Monitoring Bi-Weekly Report of Orleans Ponds.

Sample Dates: 6/11/21

Report prepared by: The Association to Preserve Cape Cod (APCC)

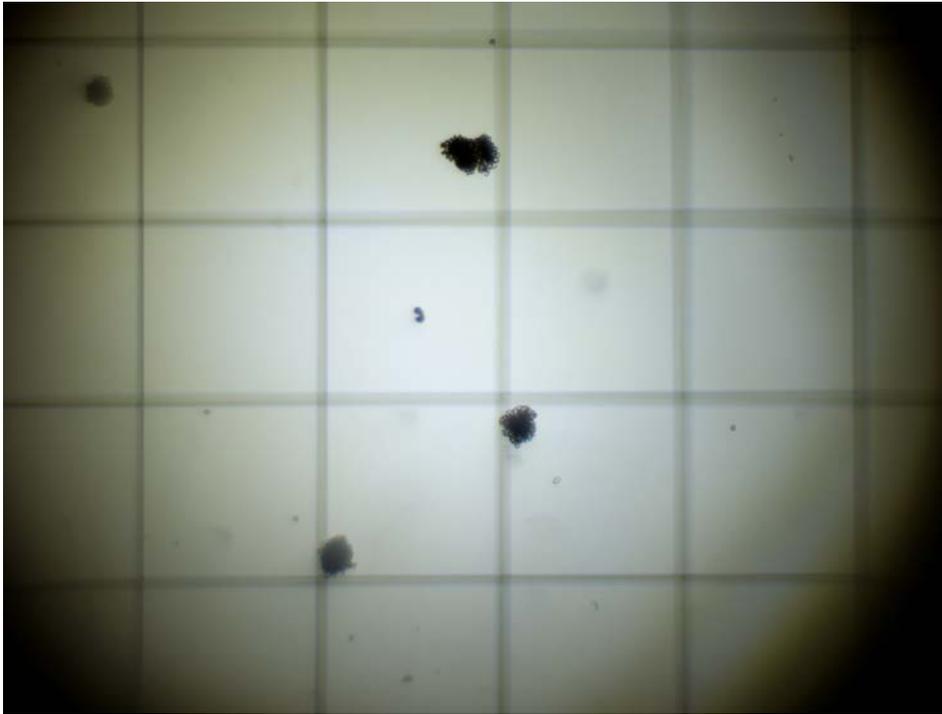
Report prepared for: The Orleans Pond Coalition and The Town of Orleans

Data collected by: Rebecca Miller, Silas Watkins, and Drew Kelly. Reviewed by: Kevin Johnson, Ecologist, APCC Cyanobacteria Monitoring Program.

Sample collection by: Members of the Orleans Pond Coalition

For more information: <https://apcc.org/our-work/science/community-science/cyanobacteria/>

Pond	Date of sample	Warning Tier	C&D	Temp (°F)	Wind Direction	Recent Activity	Notes
Crystal Lake	6/11/21	Low	WO	70.5	E	5/28/21- Low	Low concentrations of cyanobacteria were found.
Ice House Pond	6/11/21	Low	N/A	72	E	5/28/21- Low	Low concentrations of cyanobacteria were found.
Pilgrim Lake	6/11/21	Moderate	DS	69.5	E	5/28/21- Low	There was an increase in cyanobacteria concentrations that brought the pond to the moderate tier of concern. We will sample this pond again next week.
Uncle Harvey Pond	6/11/21	Low	WO	71.6	S	5/28/21- Low	Low concentrations of cyanobacteria were found.



Above: DS found in a Pilgrim Lake sample taken on 6/11/21.

Abbreviations:

C&D (Composition and Dominance) Identifies the dominant genus of cyanobacteria found in the sample.

DS (*Dolichospermum*) Common genus of cyanobacteria. Produces regulated toxins at low level.

MC (*Microcystis*) Common genus of cyanobacteria. Produces regulated toxins at relatively high levels.

Mixed Indicates that no single genus of cyanobacteria was found to be dominant.

WO, AZ (*Woronochinia* and *Aphanizomenon*) Additional genera of cyanobacteria that are believed to produce regulated toxins at a similar rate to *Dolichospermum*.

Warning Tier Descriptions

“Low” (**BLUE**) indicates general safety for recreational activities according to our data and it roughly equates to our blue and yellow tiers from last year.

“Moderate” (**YELLOW**) indicates the cyanobacteria concentrations in the pond are particularly dangerous to children or pets if ingested and it equates to last year’s orange tier and is very similar to the town of Barnstable’s “Pet Advisory” level.

“High” (**RED**) indicates APCC found either toxin levels approaching state standards for recreation or found a visible cyanobacteria scum; each poses a considerable risk for human and pet interactions with the pond. This tier is between the town of Barnstable’s “Warning” and “Closure” tiers and roughly equates to last year’s red tier.

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