Potentially Toxigenic (PTOX) Cyanobacteria Screen

Project: Lacawac Sanctuary

Submitted to:	Beth Norman
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Sample Receipt Date:	27 May 2022
Sample Condition:	11.1 ºC upon arrival
Report#	220526_PTOX_Lacawac
Date Prepared:	31 May 2022
Prepared by:	Amanda Foss

Sample ID	Site	Collected
BTWIN-05262022	Big Twin Lake	26 May 2022
BTWIN-05262022-Swamp	Big Twin Lake Swamp	26 May 2022

Method

A one mL aliquot of each non-preserved sample was prepared using a Sedgewick Rafter cell. The samples were scanned at 100X for the presence of potentially toxigenic (PTOX) cyanobacteria using a Nikon TE200 Inverted Microscope equipped with phase contrast optics. Higher magnification was used as necessary for identification and micrographs.

Results

BTWIN-05262022

The sample was dominated by conjugated filamentous green algae (Charophyta) and diatoms (Bacillariophyta). Potentially toxigenic (PTOX) cyanobacteria were not observed.

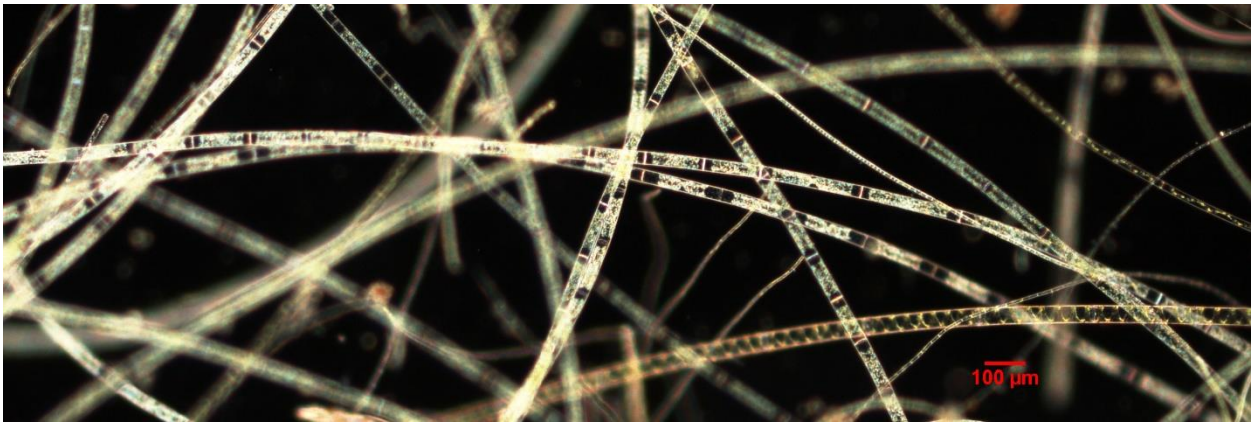
BTWIN-05262022-Swamp

The sample was dominated by conjugated filamentous green algae (Charophyta) and diatoms (Bacillariophyta). Potentially toxigenic (PTOX) cyanobacteria were not observed.

Recommendations:

Based on these observations, toxin analyses are not recommended.

Micrographs



filamentous green algae at 40X (BTWIN-05262022-Swamp)

Submitted by: Amanda Foss Date: May 31, 2022

Amanda Foss, M.S.

The results in this report relate only to the samples listed above.
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