

Potentially Toxigenic (PTOX) Cyanobacteria Screen

Project: Lacawac Sanctuary

Submitted to: Beth Norman

Organization: Lacawac Sanctuary

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Sample Receipt Date: 27 May 2022

Sample Condition: 11.1 °C upon arrival

Report# 220526_PTOX_Lacawac

Date Prepared: 31 May 2022 Prepared by: Amanda Foss

Sample ID	<u>Site</u>	<u>Collected</u>
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:

Date:

May 31, 2022

Amanda Foss, M.S.

manda Foss

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