GreenWater laboratories
205 Zeagler Drive, Suite 302
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Potentially Toxigenic (PTOX) Cyanobacteria Screen Report
Report #PTOX-AEL_240415

Table 1: Client and sample receipt information

Submitted to:	Josh Snead
Project:	NA
PO/Contract#:	NA
Organization:	Advanced Environmental Laboratories
Address:	13100 Westlinks Terrace Ste 10 Fort Myers, FL 33913
Email:	jsnead@aellab.com
Sample Receipt Date:	17 April 2024
Temp Upon Receipt:	3.1 ° C
Date Report Prepared:	17 April 2024
Prepared by:	Amanda Foss / Madison Clark
Amended:	4/24/2024 – Per client email request, final statement added to recommendation section 4/30/2024 – Per client request, Table 3 modified

Table 2: Laboratory identification (Lab ID), sample identification, description/site, and collection date

Lab ID	Sample ID	Site	Date	Flag
Barfield Bridge	Barfield Bridge	Marco	15 April 2024	
Olde Marco	Olde Marco	Marco	15 April 2024	
JH Park	JH Park	Marco	15 April 2024	
Kendall	Kendall	Marco	15 April 2024	
Collier Bridge	Collier Bridge	Marco	15 April 2024	
Landmark	Landmark	Marco	15 April 2024	
HC Center	HC Center	Marco	15 April 2024	
Swallow	Swallow	Marco	15 April 2024	
W Winterberry Bridge	W Winterberry Bridge	Marco	15 April 2024	
E Winterberry Bridge	E Winterberry Bridge	Marco	15 April 2024	
Mcilvaine	Mcilvaine	Marco	15 April 2024	
Hummingbird	Hummingbird	Marco	15 April 2024	
Hollyhock	Hollyhock	Marco	15 April 2024	
Windmill	Windmill	Marco	15 April 2024	

Method (SOP 101)

Potentially toxigenic (PTOX) cyanobacteria were scanned for using a Sedgewick Rafter cell at 100X magnification via an Inverted microscope equipped with phase contrast optics. Dilution of scum sample, subsampling of benthic cyanobacteria, and higher magnifications were used as necessary.

Results

Barfield Bridge
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Olde Marco
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

JH Park
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

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Kendall
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Collier Bridge
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Landmark
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

HC Center
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) and the non-PTOX dinoflagellate *Ceratium* sp. were observed.

Swallow
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) and a single dinoflagellate resembling the PTOX dinoflagellate *Pyrodinium* sp. were observed.

W Winterberry Bridge
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

E Winterberry Bridge
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Mcilvaine
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Hummingbird
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Hollyhock
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed.

Windmill
PTOX cyanobacteria were not observed. Diatoms (Bacillariophyta) were observed in high abundance.

Table 3: Potential toxin producing cyanobacterial genera observed

Microcystins	Saxitoxins	Anatoxin-a	Cylindrospermopsin
none	*none*	*none*	*none*

Recommendations:
Based on these observations (PTOX cyanobacteria were not observed), analyses are not currently recommended.

Submitted by: Amanda Foss Date: April 30, 2024

Amanda Foss, M.S., M.S.