Community Science Institute, Inc.
NYSDOH ELAP #11790 www.communityscience.org EPA Lab Code NY01518

Test Report

Client: Seneca Lake Guardian (SLG) Yvonne Taylor / Joseph Campbell PO Box 333 Watkins Glen, NY 14891 Receipt: Invoice Attached	Sample matrix: Non-Potable Water Date & time sampled: 10/6/2021, 2:45 PM Sampled by: Donna Rae Sutherland Sampling location: Seneca Lake. Shoreline at 1255 Arrowhead Beach Rd. Dresden, NY. GPS Coordinates: 42.694, -76.959. Date and time received: 10/7/2021, 3:55 PM

Client Code: Projects
Project Code: Seneca Lake HABs
Sample Lab ID: SL-21003
Report ID: SL-21003
Test Methods: <Total Microcystins and Nodularins>EPA Method 546; <Chlorophyll a> EPA 446.0;

Test For	Allowed Level*	Reporting Limit⁜	Result[1]	Units	Test Date, Time	Additional Information
Total Microcystin and Nodularins	4.0	0.3	**899**	µg/L	10/11/2021, 12:35 PM	
Total Chlorophyll a	NA	NA	3,430	µg/L	10/7/2021, 4:35 PM	
Microscopy	NA	NA	See Attached Report	NA	9/2/2021	

*Upper limit allowed for lake water in public bathing beaches regulated by NYS Dept. of Health.
⁜Reporting limit is set by the standard method and/or by historical data of laboratory performance.
[1] Results that exceed the Allowed Level are listed in bold.

Result applies only to sample listed above and not to any other samples.

Sample was received on ice: Yes
Sample Temperature recorded: 9.6°C

Additional Information: None.

Report prepared by: Stephen Penningroth, Executive Director Date: 10/22/2021

Community Science Institute, Inc.
NYSDOH ELAP #11790 www.communityscience.org EPA Lab Code NY01518

Microscopy of Aquatic Life in SL-21003 Sample

Sample processed 10/21/21, 10:45 AM

The sample submitted to the lab contained a few different genera of cyanobacteria, which are also called blue-green algae and can cause surface scums known as harmful algal blooms (HABs).

The cyanobacteria detected included two taxa that may produce toxins harmful to humans and pets (*Microcystis* and *Dolichospermum*). *Microcystis* has been associated with high toxin blooms in the Finger Lakes region. Therefore, caution is advised while conditions like those present at time of sampling persist. Any human or pet health concerns should be reported to the local Health Department.

Taxa list gives an overview of the most dominant material present.

REG-1574 – Lake Sample		
	Types present	Notes
Cyanobacteria	*Microcystis, Dolichospermum*, and possible *Pseudoanabaena*	Dense *Microcystis,* sparse/moderate *Dolichospermum*, and possible *Pseudoanabaena* present
General Phytoplankton	*Spirogyra*, *Mougeotia*, colonial green algae, Tabellaria	
General Zooplankton	Cladocerans	

Recommendations:

1. Test for microcystin, the most common cyanobacterial toxin found in New York and the only one for which a certified test is available. Note: Recommended upper limit for swimming is 4 ug/L. Avoid contact with the HAB and with any suspicious bloom.

Adrianna Hirtler, Biomonitoring Coordinator Date: 10/21/2021

283 Langmuir Lab/Box 1044 95 Brown Road Ithaca NY 14850 Voice/Fax (607) 257-6606
2080 Cayuga View Road Trumansburg NY 14886 Voice/Fax 607 387 3820
info@communityscience.org