

Leonard Lake Stakeholders Association (LLSA)

AGM 2023 – July 22, 2023

The LLSA was incorporated on August 31, 2005.

The stated objects of the entity are to advance the best interests of the stakeholders of Leonard Lake, including...

- To preserve promote and enhance the quality of life on Leonard Lake for all users,
- To promote the safe use of Leonard Lake, and
- To recognize and promote the protection of the unique characteristics of Leonard Lake, and to encourage land use policy and stewardship approaches to ensure the long-term protection, maintenance and restoration of its natural, social and physical features, including water, shoreline, watershed and adjacent lands.

Leonard Lake Stakeholders Association (LLSA) AGM 2023 Agenda – July 22, 2023

- Introductions and opening comments
- Review and approval 2022 AGM Minutes (held July 23, 2022)
- Financial Statements fiscal year ended April 30, 2023
- Election of Directors
- Keynote Speaker – Alasdair Smith – Muskoka Algonquin Healthcare
- Report on LLSA activities since the last AGM
- Sanction actions of the Board to date
- Carry out any other business as appropriate
- Adjourn

Leonard Lake Stakeholders Association

Summary of AGM 2022 Minutes

Minutes of last year's AGM were provided to members by e-mail in June/July. The points of interest include:

- Councillor Roberts was in attendance as a lake stakeholder and post adjournment addressed questions in his official capacity
- Chris James of Waterloo Biofilter was keynote speaker on “what’s new in septic systems”
- Betty Isbister received the MWC Doug Cross Foundation Stewardship Recognition Award
- Water Committee - report by Ken Riley
- Social Committee– report by Lynn Jewell Coon
- Development and related – report on Township of ML Official Plan review status, Lake Plan etc - Steve Rohacek and Mark Scarrow
- Membership and Communications - report by Marilyne Doyle
- Financial Statement presentation - by Ann Lowry
- Actions of Directors were sanctioned, election of Directors for upcoming term
- Call for other business from the floor
- Adjourned

LEONARD LAKE STAKEHOLDERS ASSOCIATION

Unaudited Financial Statements

for the year ended April 30, 2023

(with comparative figures for April 30, 2022)

**LEONARD LAKE STAKEHOLDERS
ASSOCIATION**
Statement of Financial Position - Unaudited
As at April 30, 2023
(with comparatives)

	30 Apr 23	30 Apr 22
ASSETS		
Current Assets		
Bank of Montreal	21,964.51	22,402.38
Pay Pal balance	0.00	105.32
GIC - Bank of Montreal	5,607.83	5,596.63
TOTAL ASSETS	27,572.34	28,104.33
LIABILITIES		
Current Liabilities		
Prepaid Memberships	330.00	495.00
TOTAL LIABILITIES	330.00	495.00
RESERVE FUND - DEFERRED DONATIONS	3,195.56	3,195.56
MEMBERS SURPLUS		
Opening balance	24,413.77	20,968.59
Excess (deficiency) of revenues over expenditures	-366.99	3,445.18
Closing balance	24,046.78	24,413.77
TOTAL LIABILITIES & MEMBERS SURPLUS	27,572.34	28,104.33

LEONARD LAKE STAKEHOLDERS ASSOCIATION

Statement of Revenues and Expenditures - Unaudited

Fiscal year May 1, 2022 through April 30, 2023

(with comparatives)

	<u>May '22 - Apr 23</u>	<u>May '21 - Apr 22</u>
Operating revenues		
Donations revenue	8,743.03	1,030.00
Interest Income	11.20	5.94
Membership fees	6,270.00	5,770.00
Membership fees - associate	440.00	330.00
Total Operating revenues	<u>15,464.23</u>	<u>7,135.94</u>
Operating expenditures		
Annual General Meeting	478.72	194.91
Bank and Pay Pal charges	212.62	177.15
FOCA and conference	995.00	774.00
Insurance	1,146.96	1,060.56
Program Expense	1,706.28	170.77
Teleconference and board mtgs	0.00	151.49
Water testing	11,014.64	1,161.88
Web and IT	277.00	0.00
Total Operating expenditures	<u>15,831.22</u>	<u>3,690.76</u>
Excess (deficiency) of revenues over expenditures	<u><u>-366.99</u></u>	<u><u>3,445.18</u></u>

Leonard Lake Stakeholders Association

AGM 2023 – July 22, 2023 Election of Directors

Directors are elected/re-elected in staggered terms of two years and at this year's meeting, four directors are to be elected/re-elected. Nominees include:

Marilyne Doyle - Road 1, first elected 2009

Deb Solarski – Glen Gordon Rd, first elected 2019

Steve Rohacek– Road 2, first elected 2019

Ken Riley– Butter & Egg Rd, first elected 2017

LLSA AGM 2023 – Keynote Speaker

Alasdair Smith

Vice President - Corporate Services, CFO
Muskoka Algonquin Health Care

LLSA AGM 2023

Report on LLSA Activities – Portfolio Reports

- Water Quality – Esther Giesbrecht and Ken Riley
- Social Event Initiatives – Susan Finkbeiner, Carm Sivers and Donna McNeely
- Communication and Membership – Marilyne Doyle and Deb Solariski
- Development & Gov't Affairs – Steve Rohacek and Bruce McNeely

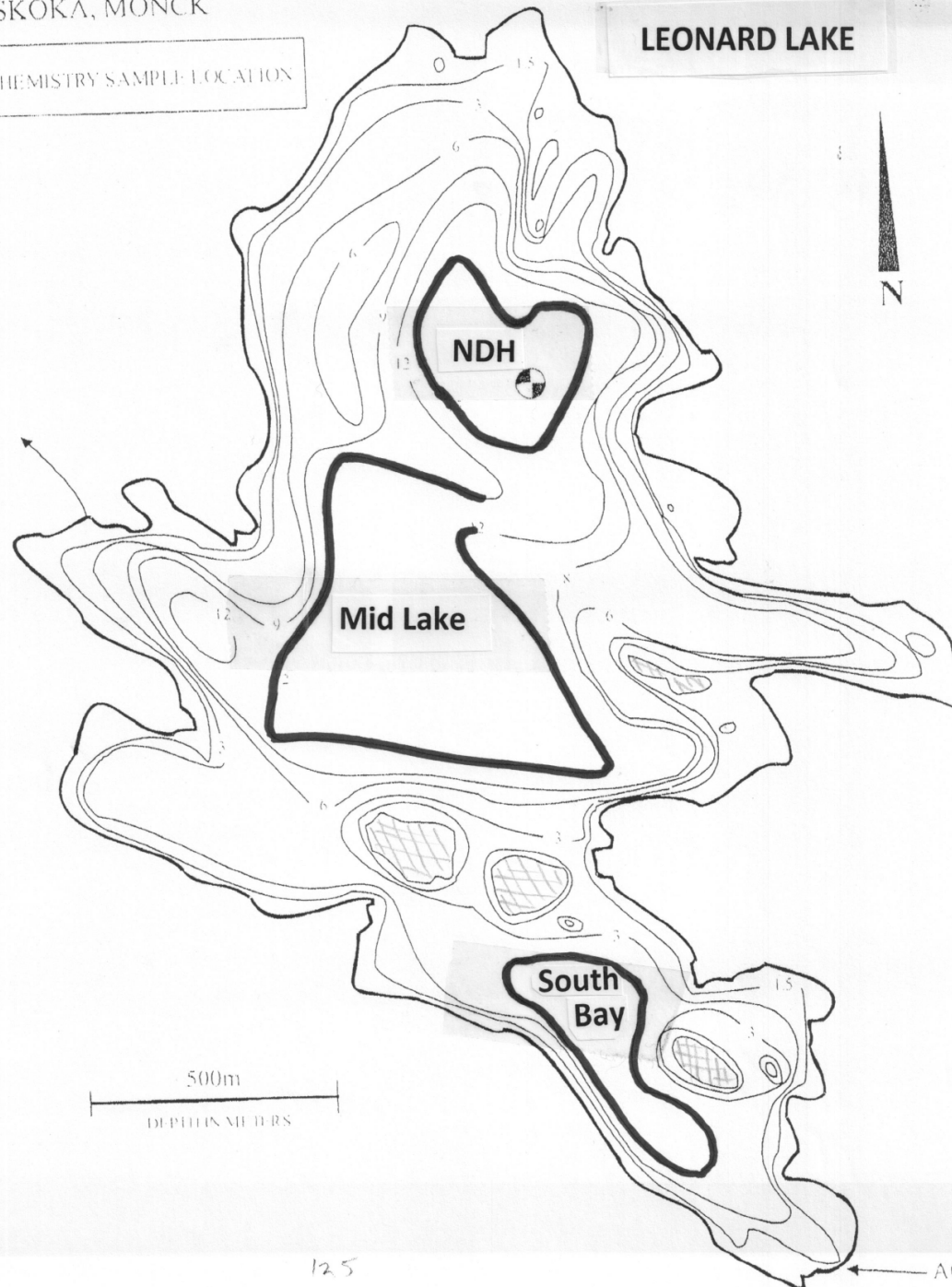
Understanding Algae Blooms

LEONARD LAKE What we learned in 2022

Esther Giesbrecht, Water Quality Team, LLSA

LEONARD LAKE

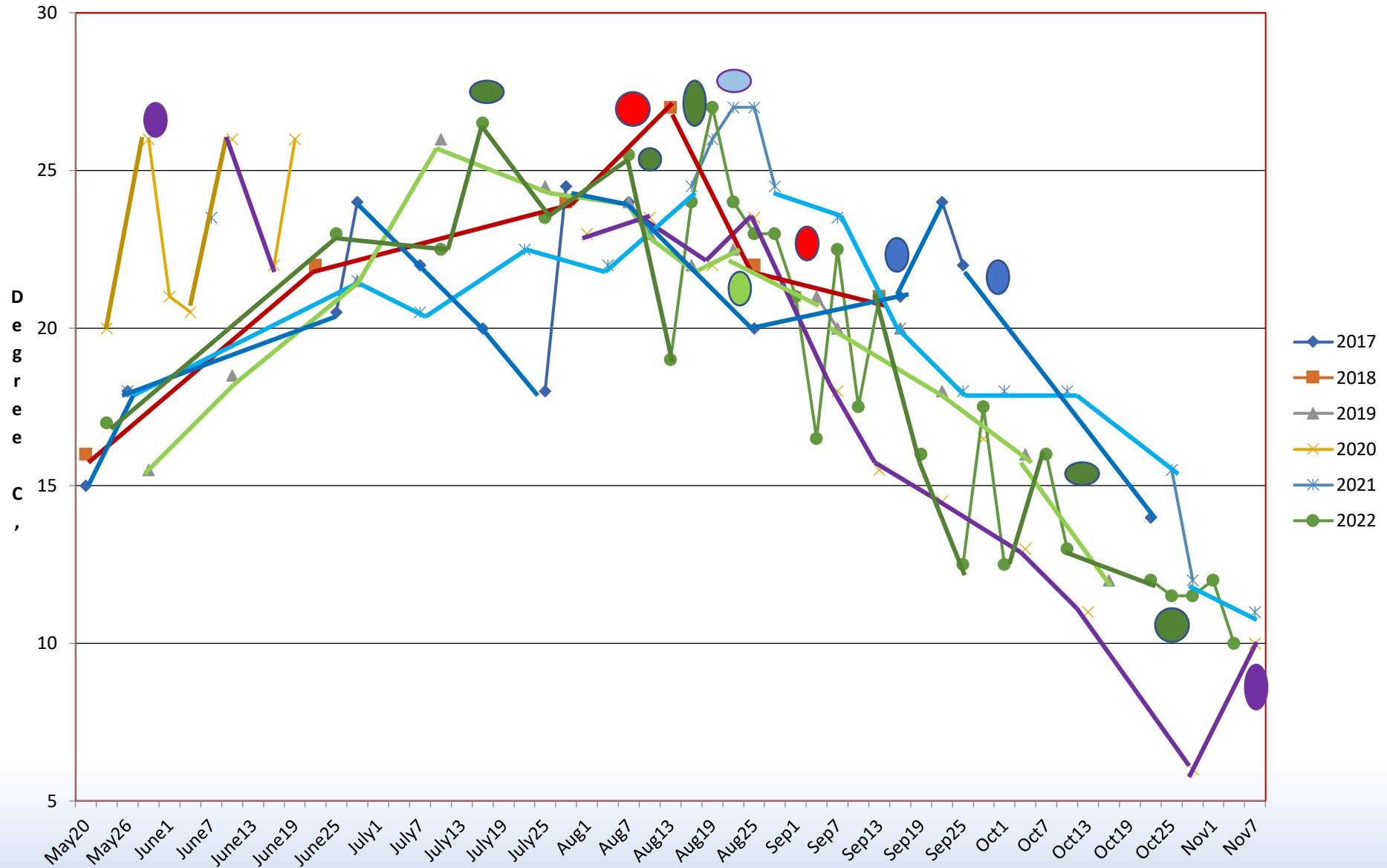
CHEMISTRY SAMPLE LOCATION



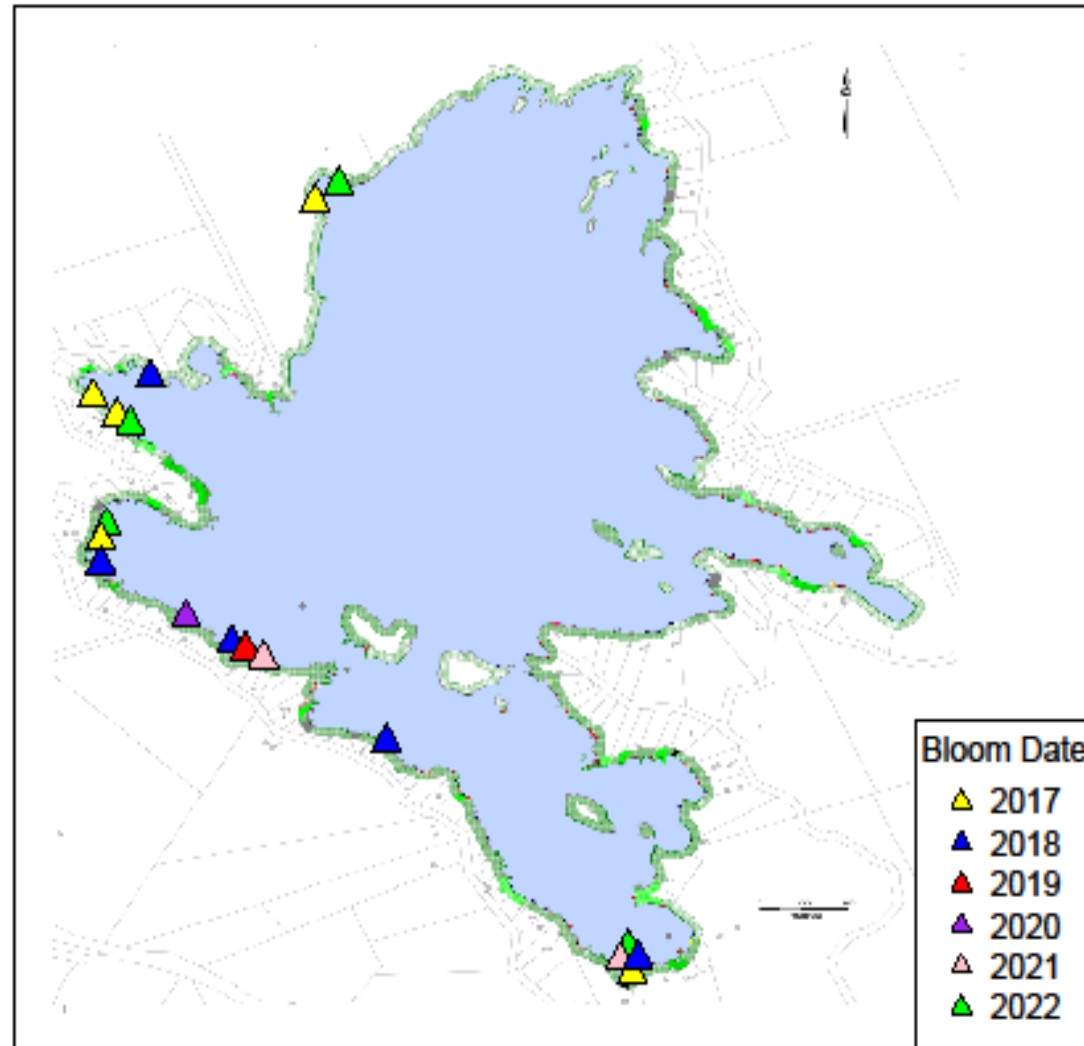
Water Monitoring

- Agencies have often tested at one spot, usually in the Spring.
- Lakes are complex and unique; there are important variations between deep areas and shoreline areas.
- Results change over the course of the Summer and into the Fall.

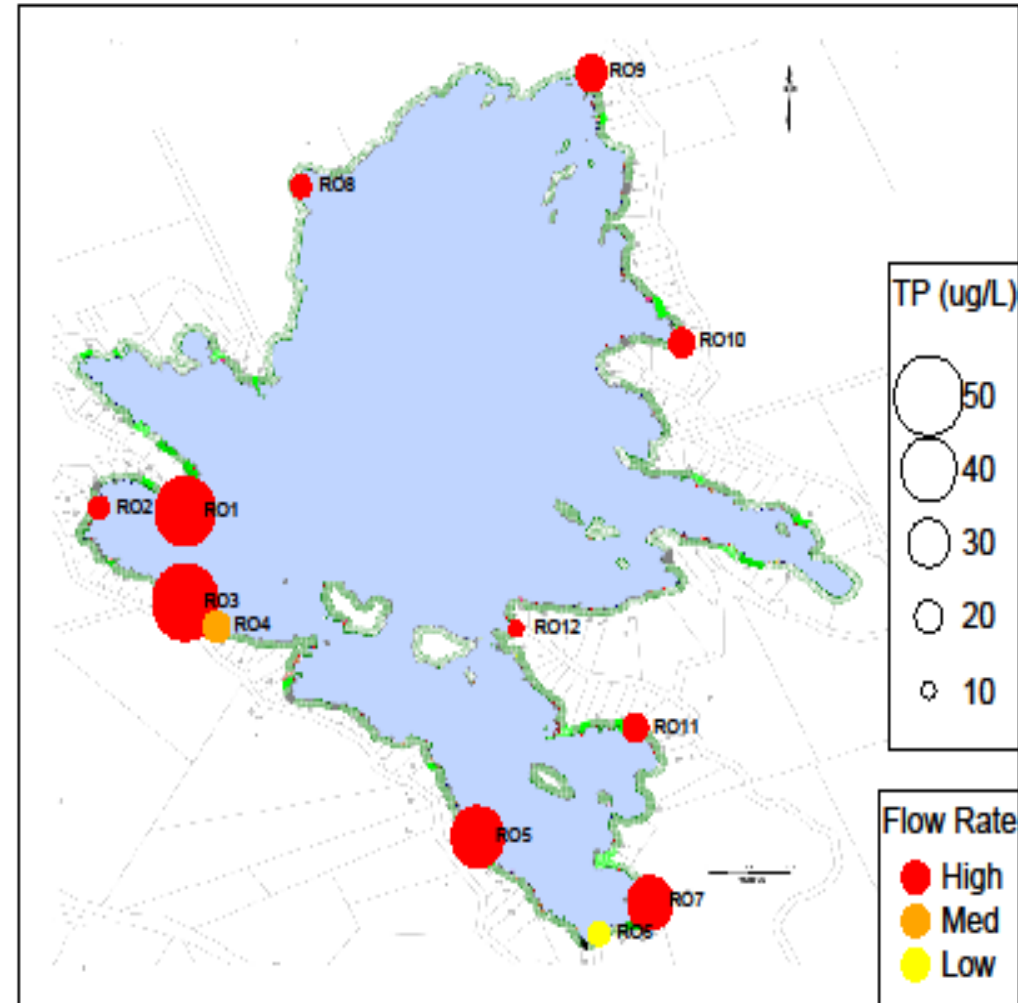
Algal Blooms and LEONARD LAKE Water Temp. 2017-2022



Bloom Sites, 2017-2022



Run -Off Sites

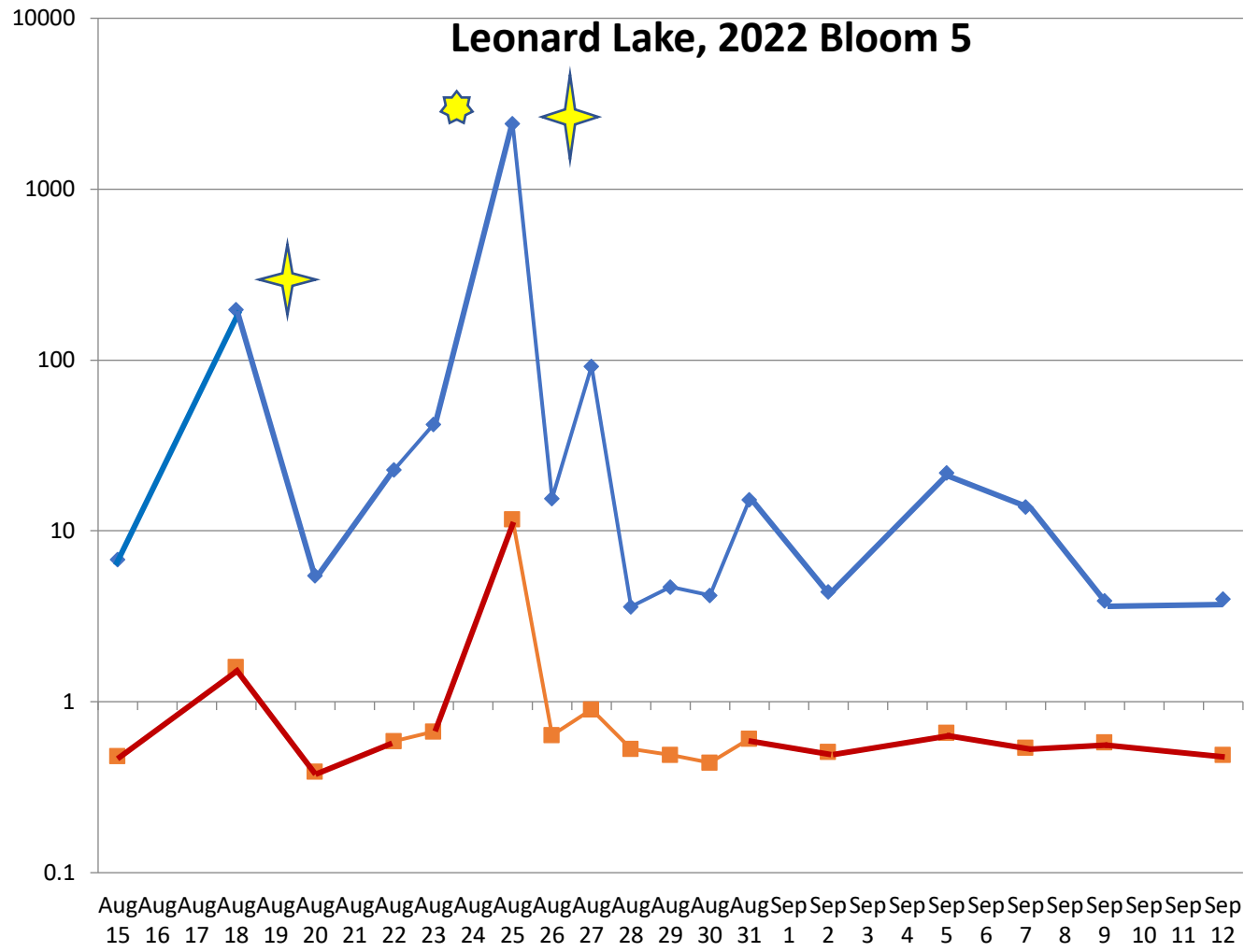


A Closer Look at the Deep Sites

- We studied the deep sites with a Sonde – a probe with multiple sensors on the end that records data from the surface to the sediment.
- Collected data on: July 26, Aug 23, Sep 13.
- Temperature drops from 24 degrees (surface) to 6 degrees (sediment).
- Dissolved Oxygen level drops; if it drops below 1 (anoxia), that area becomes a “dead zone”. South Bay was already anoxic in July; Mid-lake in Aug; and NDH in Sept.

What Happens When There is NO Oxygen near the Sediment ?

- Lack of oxygen means that nutrients, such as **Phosphorus** and **Iron**, that are usually retained in the sediment, can be released into the water. We documented this increase.
- And in mid-Sept, we also detected *Dolichospermum* right above the sediment in South Bay.
- Two weeks later there were blooms of the same species along a section of the western shoreline.



Phycocyanin > 1000 ug/L -- visible bloom

Dolichospermum identified microscopically

In Summary:

- The “Eyes-on-the-Lake” is essential; we can monitor the water, report a bloom, and then have it tested for toxins by the Ministry.
- The Fluorometer rapidly identifies a pre-bloom, then monitors the course of the bloom.
- The Run-off sites are a likely source of **Phosphorus**; some contained up to 10x the amount in the lake. High levels of **Chloride** were found at several sites, especially near Highway 118, indicating that road salt is a primary contributor.

In Summary:

- The “Eyes-on-the-Lake” is essential; we can monitor the water, report a bloom, and then have it tested for toxins by the Ministry.
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Why is it important for you to contact us if you suspect a bloom?

- We can monitor the water and report it to the Ministry if it turns into a bloom; it can then be tested for toxins.
- When a bloom dies, it deposits akinetes, “spores” which can survive the winter.
- “Spores” from previous blooms can initiate blooms again, under the right conditions.
- The South Bay also appears to be “a nursery” for more blooms by supplying nutrients from the sediment.

Monitoring and Determining the Source of Cyanobacteria Blooms in Leonard Lake



Prepared for the Leonard Lake Stakeholders Association (LLSA)

Mark Verschoor, PhD Biology, York University, ON
April 2023

*cover photo: Leonard Lake, August 2022, Google Earth satellite imagery

Monitoring and Determining the Source of Cyanobacteria Blooms in Leonard Lake – Verschoor Report - April 2023

- Full report 25 pages
- Includes the 2022 findings from LLSA Water Team investigations
- Set of recommendations for further work
- Hard copy at the Water Team Table , or
- Check it out on line at www.leonardlake.net

Highlights of the LLSA Water Team Findings and Call to Action July 2023

Brief report in non-technical language:

- Summary of the Verschoor Report
- Call to Action (*9 important things we can all do to be sure we are pro-actively working towards a healthier lake, from checking septics, reducing runoff erosion , to reducing boat speeds in shallow areas*)
- posted at www.leonardlake.net – hard copy here at the water table

Social Committee Report

Events returning to Leonard Lake this year.....

- Yoga on the dock – this afternoon at 5 – 6:30pm
- Social afternoon at the Finkbeiner Dock - Aug 12th 3 - 5pm
- Golf Day – September 16th
- (don't forget about our Benthic count date – Sunday, August 20th – a fun way to introduce your kids and grandkids to aquatic life)

Membership and Communications

- Thank you for continuing to support LLSA!
- Welcome to property owners new to Leonard Lake
- Auto-renewal membership – a ‘no go’
- Volunteer appreciation

...and now to our website lead

website update - www.leonardlake.net

- We are on our way to a much improved website. Thanks to Luke Newman for his assistance in kickstarting change!
- The website is best viewed on a desktop or an IPAD. We are working on formatting improvements for mobile viewing.
- Member's only section is underway. It is password protected and you will be issued a personal password.
- The resource page is a work in progress and could include best practices, septic management, possible referrals for services and other helpful information.
- What would you like to see on the Leonard Lake website?
- We need help to source and sell Leonard Lake merchandise on our website! (tee shirts, visors, hats, drone pictures, etc.)

All suggestions welcome!

Development and Gov't Affairs

LEONARD LAKE STAKEHOLDERS ASSOCIATION AGM 2023

- *Resolution to sanction actions of the board*
- *Other business*
- *Motion to adjourn business meeting*