



Welcome to the Brandy Lake Association Annual General Meeting 2022



Virtual Meeting Protocol

- You will be able to use the chat box feature and use the “raise hand” option to vote and ask questions.
- There will be an opportunity to ask questions during each section of the presentation. The presenter will ask for questions. Please use the chat box or raise your virtual hand to ask your questions.
- Voting will take place by “raising your hand”. The meeting moderator will tally the votes and inform the meeting of the results.
- Only registered BLA members can vote (by themselves or by proxy).
- If you get disconnected, you can dial in again using the information sent to you as part of registration.

***Margrit Kroll
Director at Large
Sunset Bay***



***New Director
Amie de Veth
Launch Bay***



***Ken Martin
Director at Large
West Bay***



***Moreen Miller
Secretary
Sunset Bay***



2021 Executive Committee

***Don Burn
President
Lagoon Bay***



***Derek Stevens
Membership Director
Launch Bay***



***Daniela Von Bredow
Past President
Sunset Bay***



***Jeff McBain
Director at Large
The Narrows***



***Linda Mathers
Treasurer
West Bay***



Agenda



- Welcome and President's Opening Remarks
- Approval of the Minutes of the 2021 Annual General Meeting
- Treasurer's Report
- Environment Report
- BLA Lake Plan Update
- Election of Executive Members
- New Business from the Floor
- Motion to Close the Annual Meeting

President's Report

- Record membership number for the BLA – 95 members
- Activities since 2021 AGM
 - Water testing program
 - All previous programs resumed plus new testing
 - Brandy Lights Flotilla
 - New event for this year!
 - Brandy Lake – Lake Plan Approved!



President's Report



- Municipal election on October 24th
 - Owners of property in Muskoka can vote in the local election
 - We encourage you to learn about the issues that are important to you and support candidates that share your views
- Need for additional volunteers
 - Exec members
 - Water quality monitoring team

President's Report



- Thank you to our volunteers
 - Kevin Trimble – Chair of the Environment Committee
 - Water Quality monitoring team
 - Bill Berlett - reviewer of the annual Treasurer's report
 - Jon de Veth - buoy installation, removal and maintenance

Approval of Minutes from August 2021 AGM



- Minutes were previously circulated to all members on August 21, 2022
- Margrit Kroll moves the motion:
 - “To accept the minutes of the 2021 Brandy Lake Association Annual General Meeting held on August 28, 2021”.

BLA Treasurer's Annual Report January 1 2021- December 31 2021

Opening Balance Jan. 1 2021 (year end Dec. 31, 2020) \$7903.09

Income

BLA Memberships 2 yr (81 x \$70)	\$5670.00
BLA Memberships 1 yr (10 x \$35.00)	\$350.00
Donations (overpaid memberships)	\$10.00

Total income \$6030.00

Expenses

Bank fees (3.95 x 12)	\$47.40
Cade Liability insurance	\$1112.40
Riverstone Environmental (maps for Lake Plan)	\$904.00
MLA Water Testing (\$946.80 - \$600.00)	\$346.80
Aspen Valley Wildlife Centre (Honorarium donation Speaker 2019 AGM)	\$70.00

Total expenditures \$2480.60

Balance Fiscal Year End Dec. 31, 2021 \$11452.49

Reviewed by member M. B. Bertet Date Aug 24 2022

Annual treasurer's report prepared on behalf of BLA for Annual Meeting

Treasurer Linda Mathus Date Aug. 24, 2022



Treasurer's Report

BLA Treasurer's Report Year to Date Aug 15 2022

Balance forward from Dec 31, 2021	\$ 11452.40
Income	
BLA memberships 2 year (2 x \$70)	\$ 140.00
BLA membership 1 year (6 x \$35)	\$ 210.00
Total Income	\$ 350.00
Expenses	
Cade Insurance (Liability insurance)	\$ 1179.36
Bank Fees (Jan – July 7 x \$3.95)	\$ 27.65
Muskoka Watershed Council Algal Testing	\$ 250.00
Buoy Replacement Parts	\$ 153.67
Total Expenses	\$ 1610.68
Balance August 15th 2022	\$ 10191.72



**Year to
Date
Financials
2022**



Environment Report

Environment Report



- Blue-Green Algae
- Phosphorus and other water quality Trends
- Water Levels and Precipitation
- Weather
- MWC Blue-Green algae monitoring project

Water Quality Crew



Kevin Trimble
Derek Stevens
Andy von Bredow
Paige Stevens
Don Burn
Phil Luhovy



Blue-Green Algae



- 2001-2003 reported blooms studied by MECP (published 2006).
- 2019 - reported bloom in early September
- 2020 - reported bloom in late July
- 2020 >25 lakes in MECP Central District reported blooms – we weren't alone
- 2021 & 2022 – NO reported bloom so far - some nearshore morning concentrations

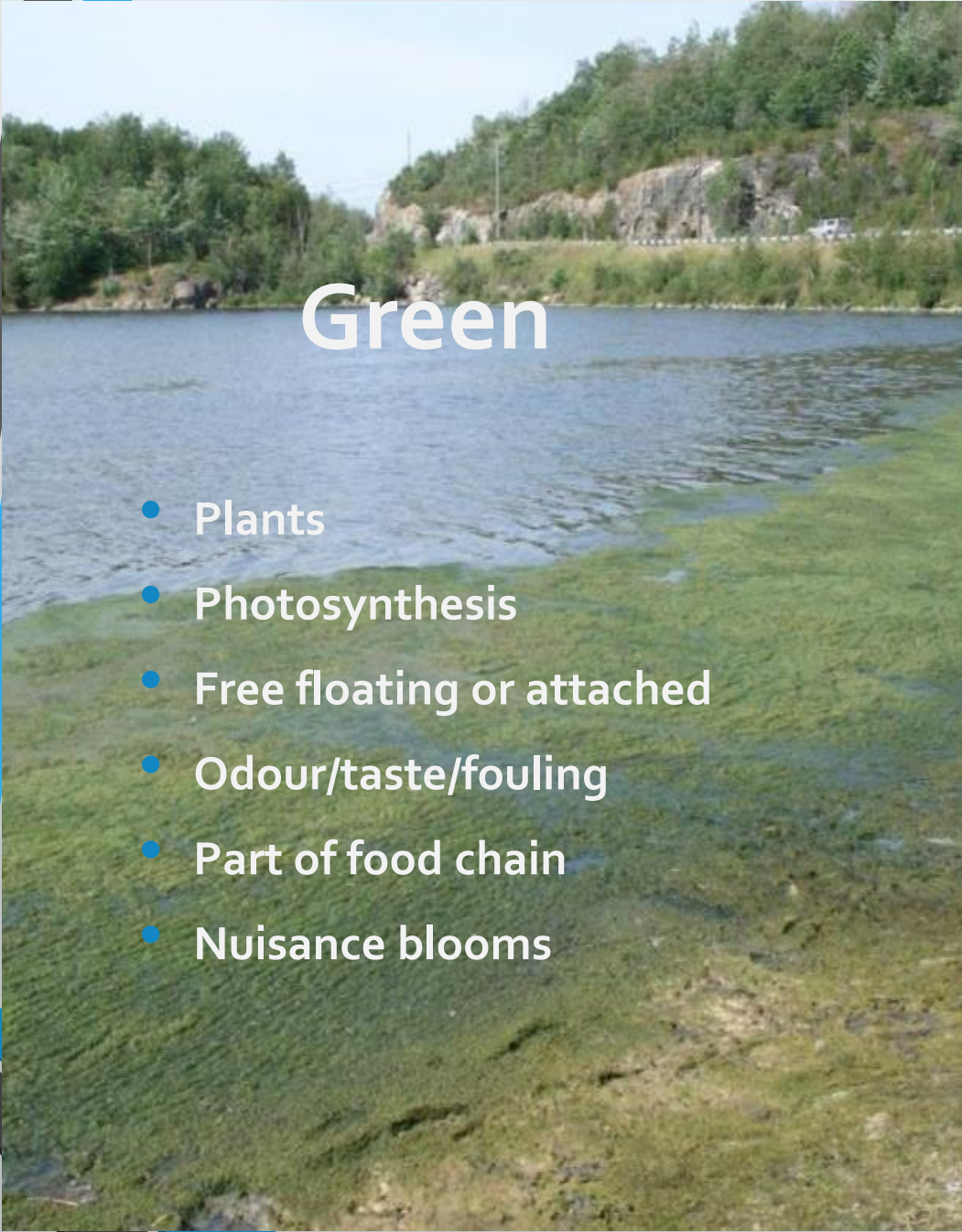
Blue-Green Algae



Recent Algae Blooms in the Muskoka Region

- ▶ 16 confirmed blooms in the Muskoka Region in 2020
- ▶ 14 confirmed in 2021

2020	2021
Leonard Lake	Three Mile Lake
Three Mile Lake	Leonard Lake
Bass Lake	Bass Lake
Bruce Lake	
Brandy Lake	Kahshe Lake
Silver Lake (Port Carling)	Black Lake
Muskoka Lake (Weismiller Bay)	Cooks Bay (Lake Simcoe)
	Stewart Lake
Georgian Bay (Southeast Shoreline)	Little Lake
Little Lake	Ril Lake
Stewart Lake	Ten Mile Bay (Lake of Bays)
Paint Lake	Little Lake Park
Lake St. John	Lake St. John
Kahshe Lake	Sparrow Lake
Mary Lake	Otter Lake
Menominee Lake	
Fawn Lake	



Green

- Plants
- Photosynthesis
- Free floating or attached
- Odour/taste/fouling
- Part of food chain
- Nuisance blooms



Blue-Green

- Bacteria with chlorophyll
- Photosynthesis
- Control their own buoyancy
- Odour/taste/fouling
- Not used in food chain
- May produce toxins
- Nitrogen fixing, resilient & adaptive

Factors in Blue-Green Algae

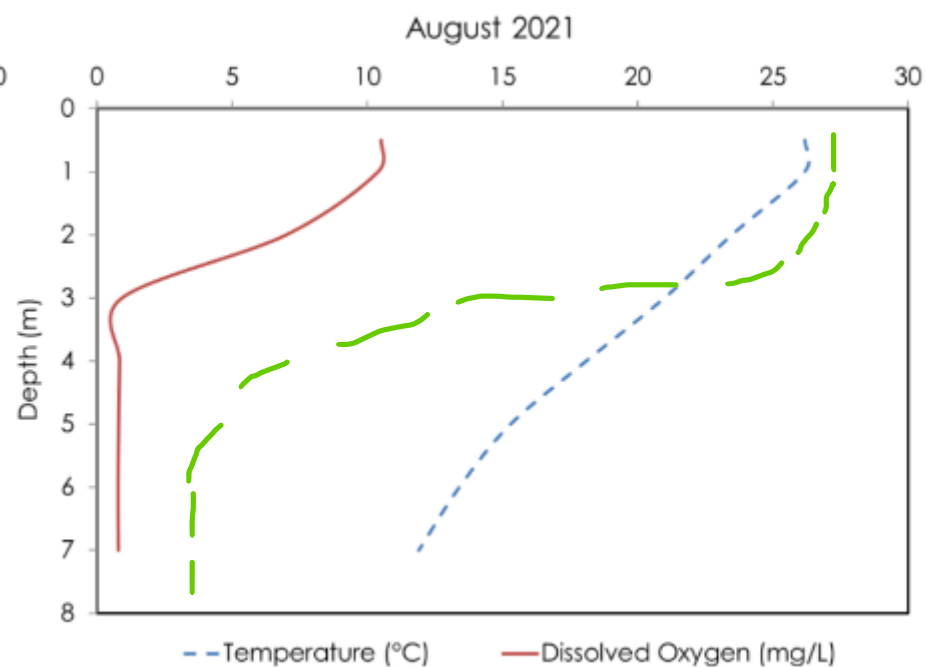
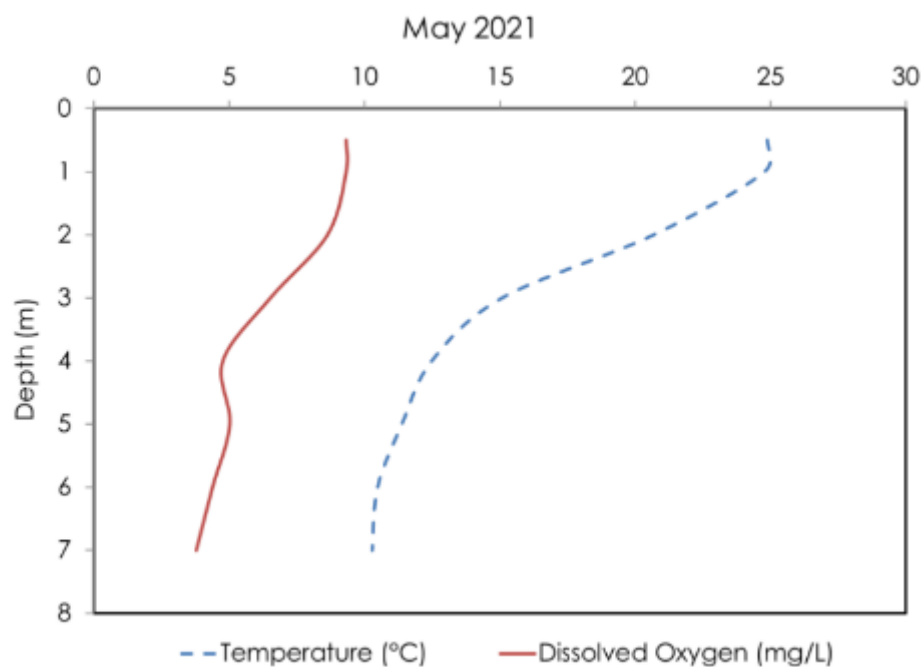


- Phosphorus – trending lower
- Precipitation, lake levels and flow-through
- Stratification (water columns layers very stable) – anoxic bottom layer
- Climate Change – temperature and timing of precipitation
- Wind – may be decreasing
- Calcium decline in Muskoka lakes
- Water clarity

Brandy Lake

Sample Point: 45.1077 -79.5252

Municipality:	Muskoka Lakes	Quaternary Watershed:	Lake Muskoka
Surface Area:	1.15 km²	Watershed Area (excluding lake):	38.83 km²
Maximum Depth:	8 m	Cold Water Fishery?	No
Wetland Area:	20 %	Secchi Depth (10-year average):	1.4 m
Phosphorus (10-year average):	17.2 µg/L	Listed as Vulnerable?	Yes

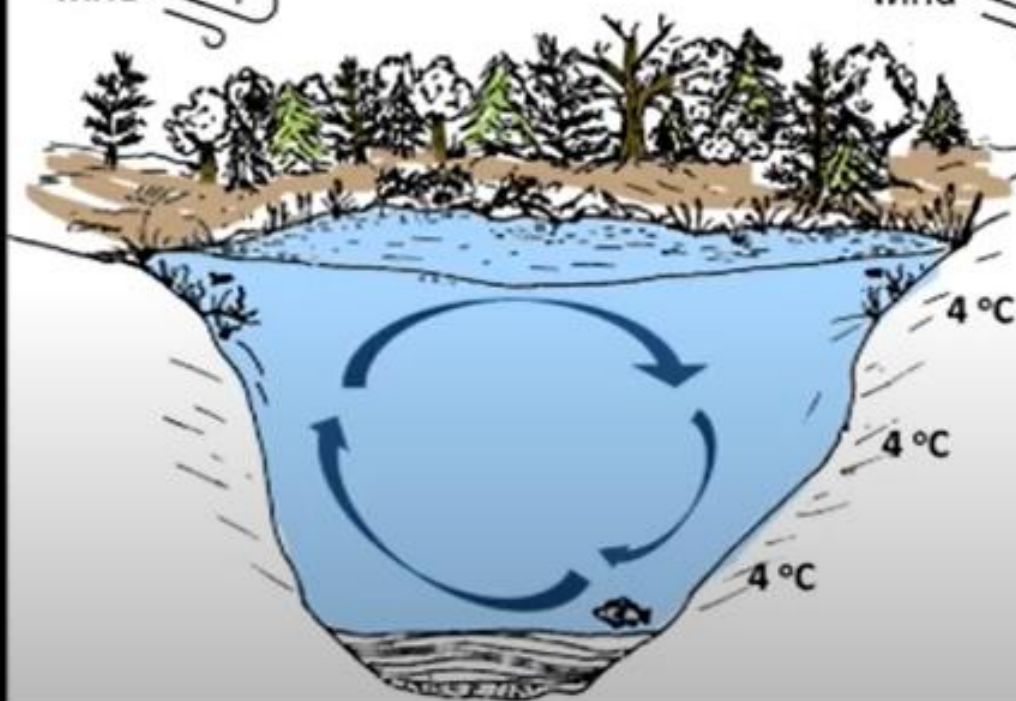


THERMAL STRATIFICATION IN LAKES

Spring

cool, **well-mixed**, water column with oxygen throughout

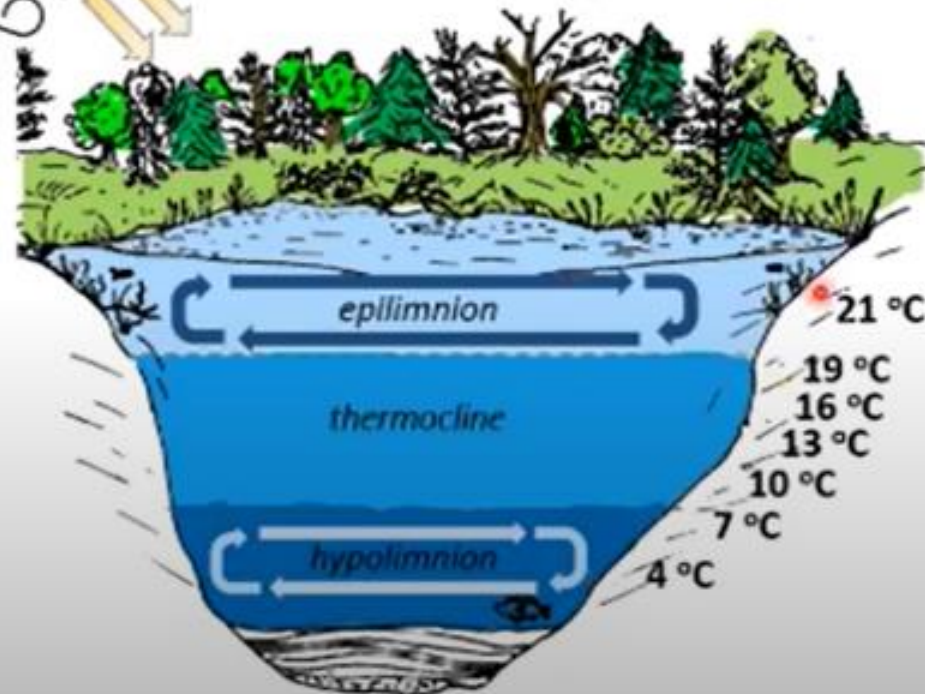
wind



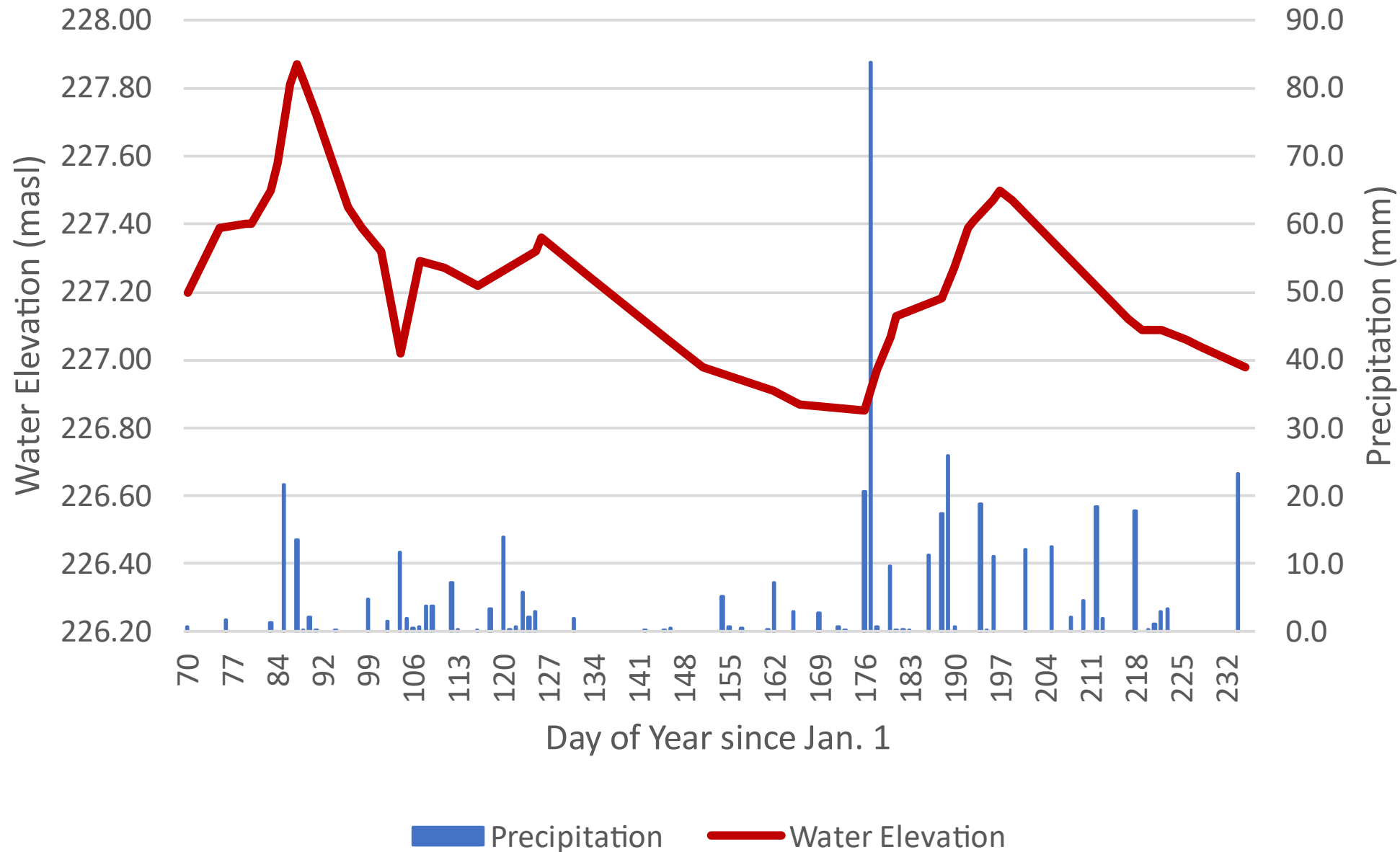
Summer

warming surface creates a temperature and density gradient with layers of water that do not mix (**stratified**)

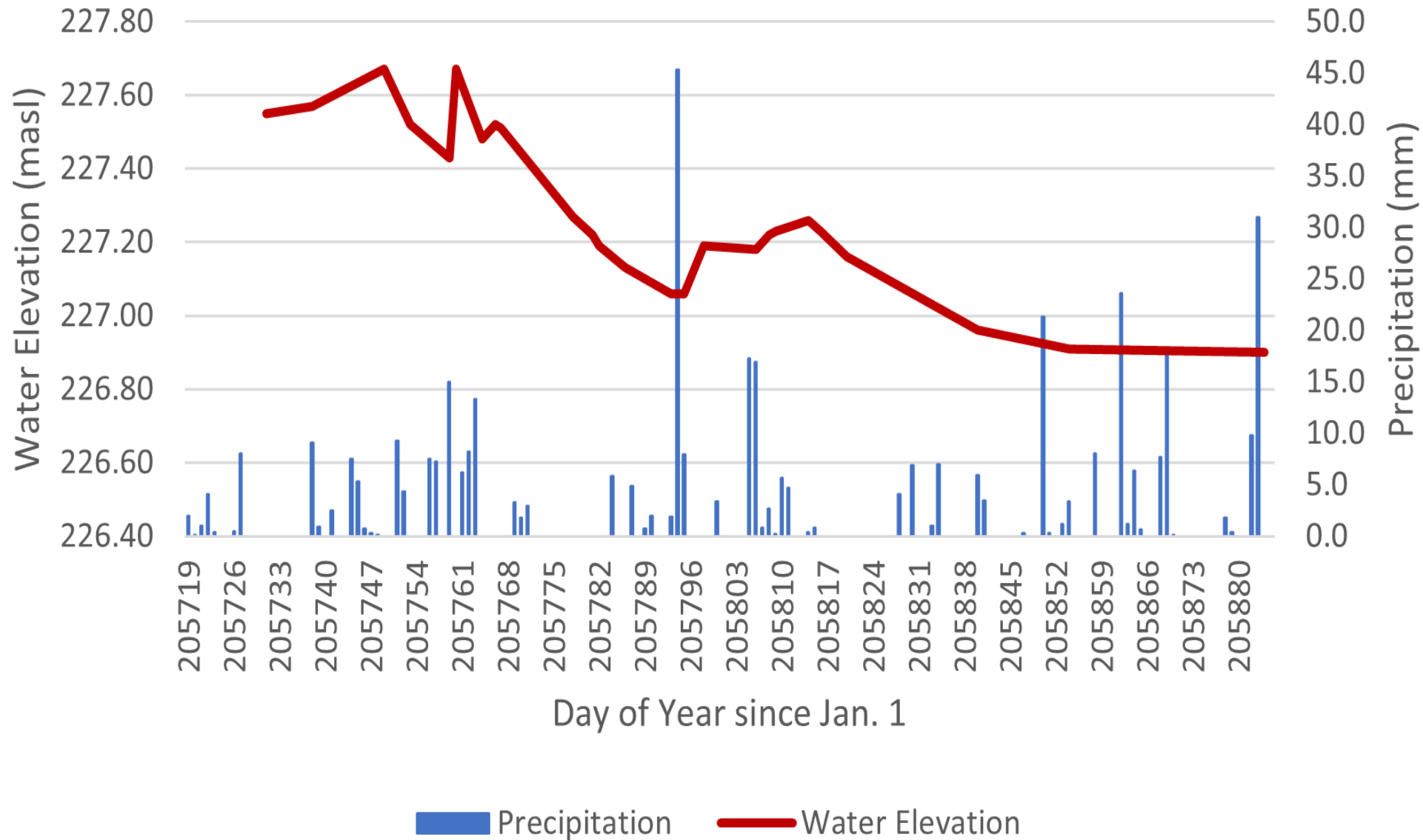
wind



Water Levels and Precipitation 2021



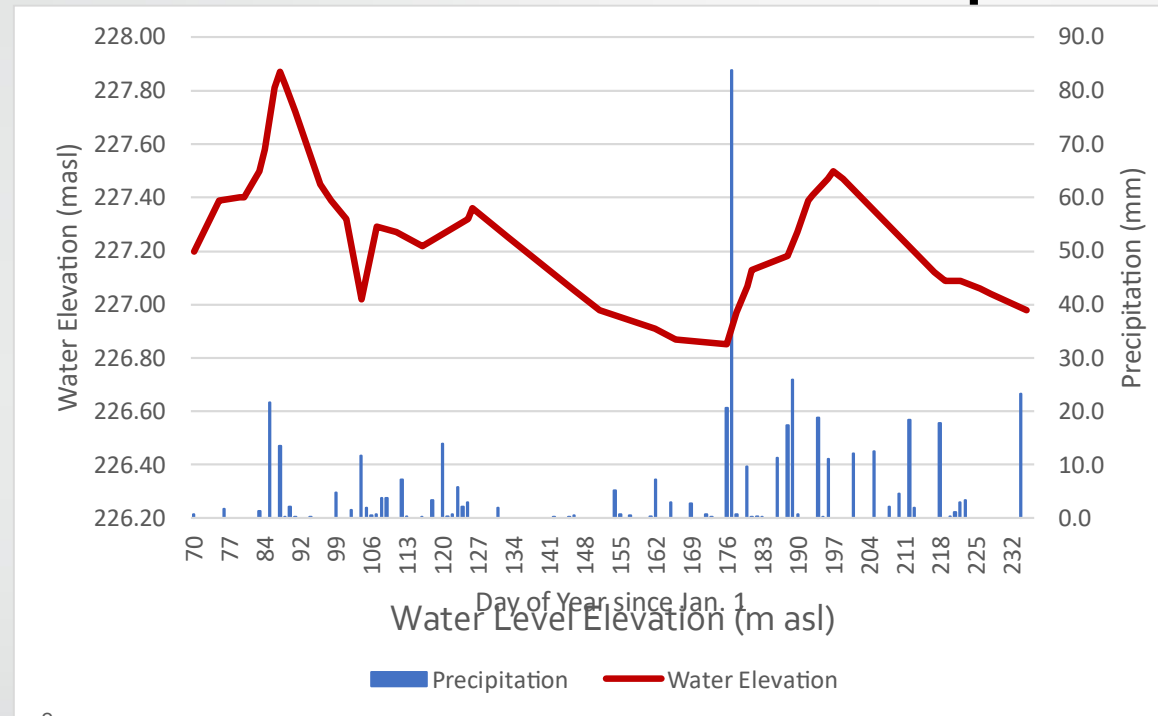
Water Levels and Precipitation 2022



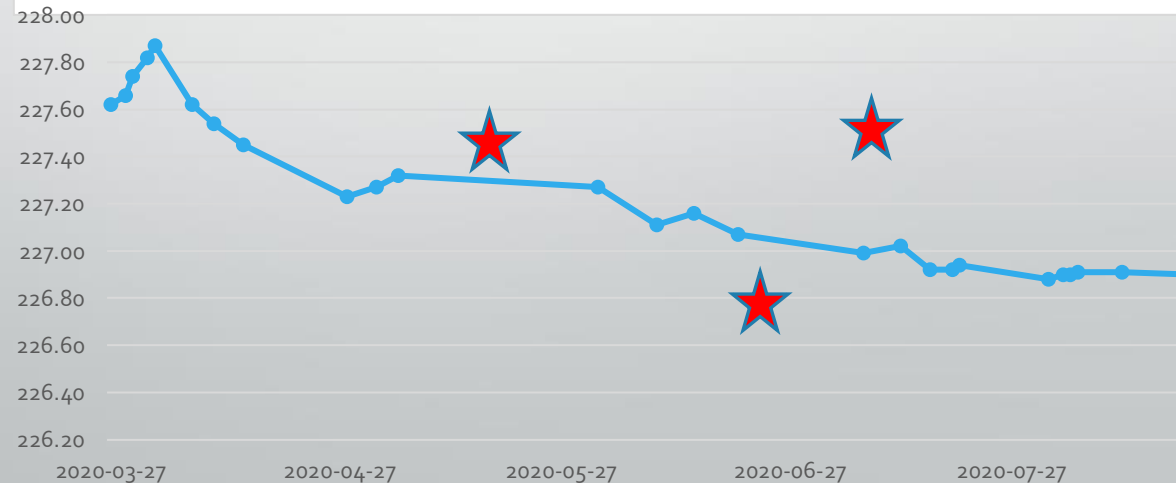
Water Levels and Precipitation



2021



2020



Weather Monitoring



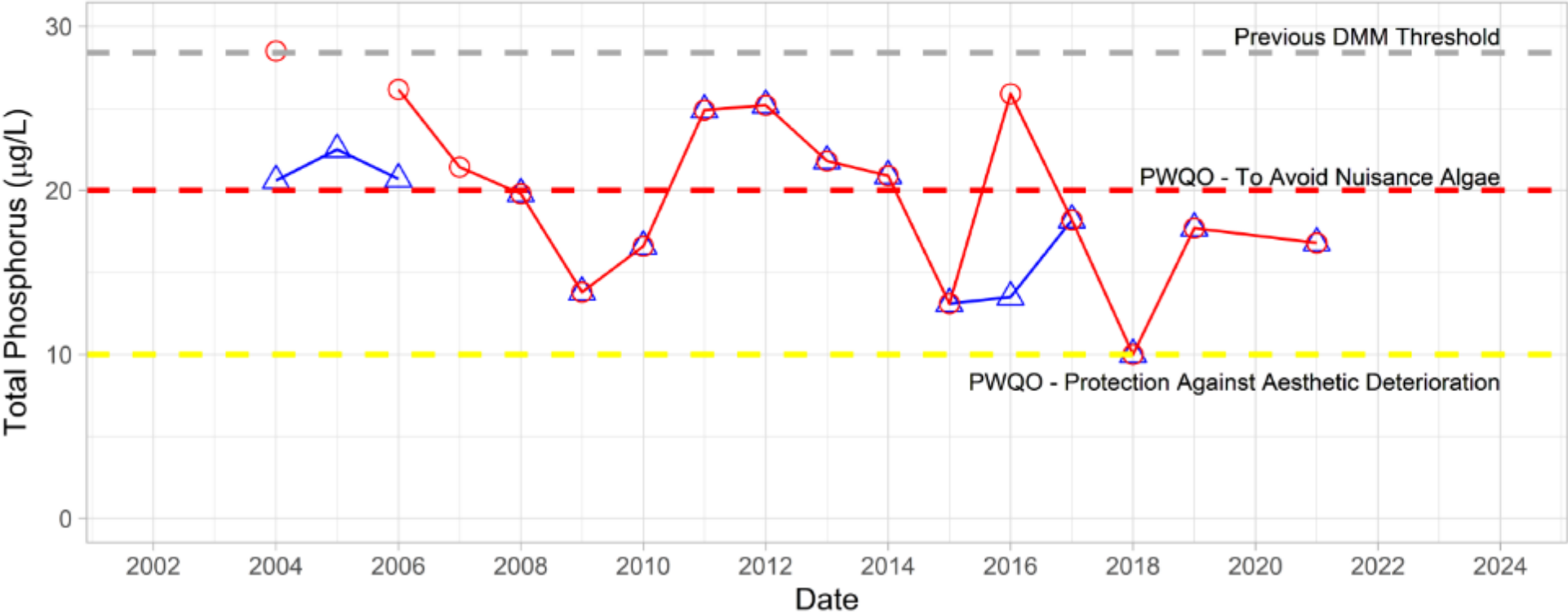
AVERAGE TEMP					
	Norms				
	1981-2010	2019	2020	2021	2022
APRIL	4.4	3.3	2.7	5.9	3.9
MAY	11.0	9.1	9.9	10	13.3
JUNE	15.8	14.2	16.4	17.4	15.4
JULY	18.2	19.3	20.5	17.6	17.3
AUGUST	17.3	16.5	17.3	19.8	18.4
SEPT	13.1	13.2	12.4	13.2	

Phosphorus



Phosphorus at BDY-0

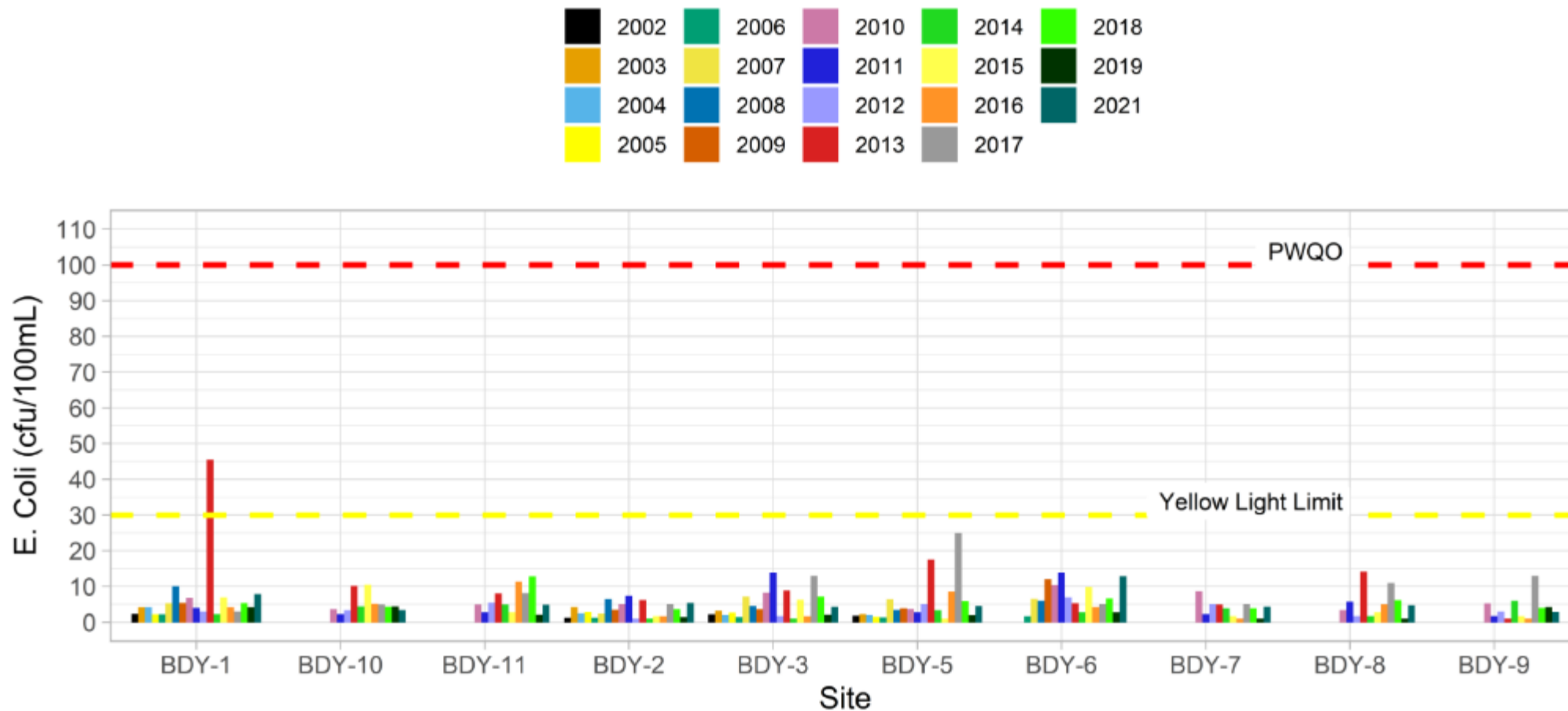
Yearly Mean (MLA) Spring Turnover (MLA)



E. Coli Monitoring



E. Coli Annual Geometric Mean at Brandy Lake



Blue-Green Algae



Blue-Green Algae



The **goal** of MWC's Algae Monitoring Program is to collect information on the distribution, abundance and seasonal cycles of a) all phytoplankton combined, and b) blue-green algae in particular, across Muskoka area lakes, so that, over time, it may be possible to identify conditions favoring algae, detect trends in phytoplankton abundance, and provide management advice.

Blue-Green Algae



Note: This program is not intended to replace the existing monitoring and reporting structure for algal blooms through the Simcoe Muskoka District Health Unit (SMDHU) and the Ontario Ministry of the Environment, Conservation and Parks (MECP). Algae blooms should continue to be reported to the MECP through the Public Pollution Reporting Hotline at 1-866-663-8477 and advisories will continue to be managed by the SMDHU.

- Algae monitoring can't be used to identify or report blooms
- BLA does NOT report blooms nor recommend whether to report

Blue-Green Algae



Analysis

The frozen water samples were collected by MWC staff, thawed out and analyzed using a handheld fluorometer.

The fluorometer measured the fluorescence of Chlorophyll *a*, a pigment found in all algae, and Phycocyanin, a pigment found only in blue-green algae.



Muskoka
WATERSHED COUNCIL





Brandy Lake Watershed, Muskoka

About

Members 1

Brandy Lake is part of a 40 square kilometre watershed draining into Lake Muskoka, but stretching all the way to Bracebridge. This project creates a space for us to discover and share the biodiversity we depend on for the watershed we live, work and play in.

[Read More >](#)[Edit Project](#)[Project Journal](#)

Overview

32,252
OBSERVATIONS3,514
SPECIES2,199
IDENTIFIERS1,904
OBSERVERS[Stats](#)

Recent Observations →

[View All](#)

RG



RG



Map of Observations



Recent Observations



Brandy Lake Lake Plan 2022



Lake Plan

Why did we create a lake plan?



- Most important activity identified in the 2019 strategic plan
- Protecting our investment in our lake properties and properties within the Brandy Lake watershed
- Protecting the lake's health
- Asking for Brandy Lake to be treated differently than the hundreds of lakes in TML

Lake Plan 2022

What is a lake plan?



- Document that becomes part of the Township of Muskoka Lakes Official Plan
- Contains information and guidance to differentiate Brandy Lake from other lakes and explain how the lake functions and how our community uses it
- Contains information to help property owners and their guests understand the existing framework of approvals, policies, and best practices
- At least 5 other lakes in TML have completed lake plans and had them approved by TML

Lake Plan 2022

A Lake Plan is not...



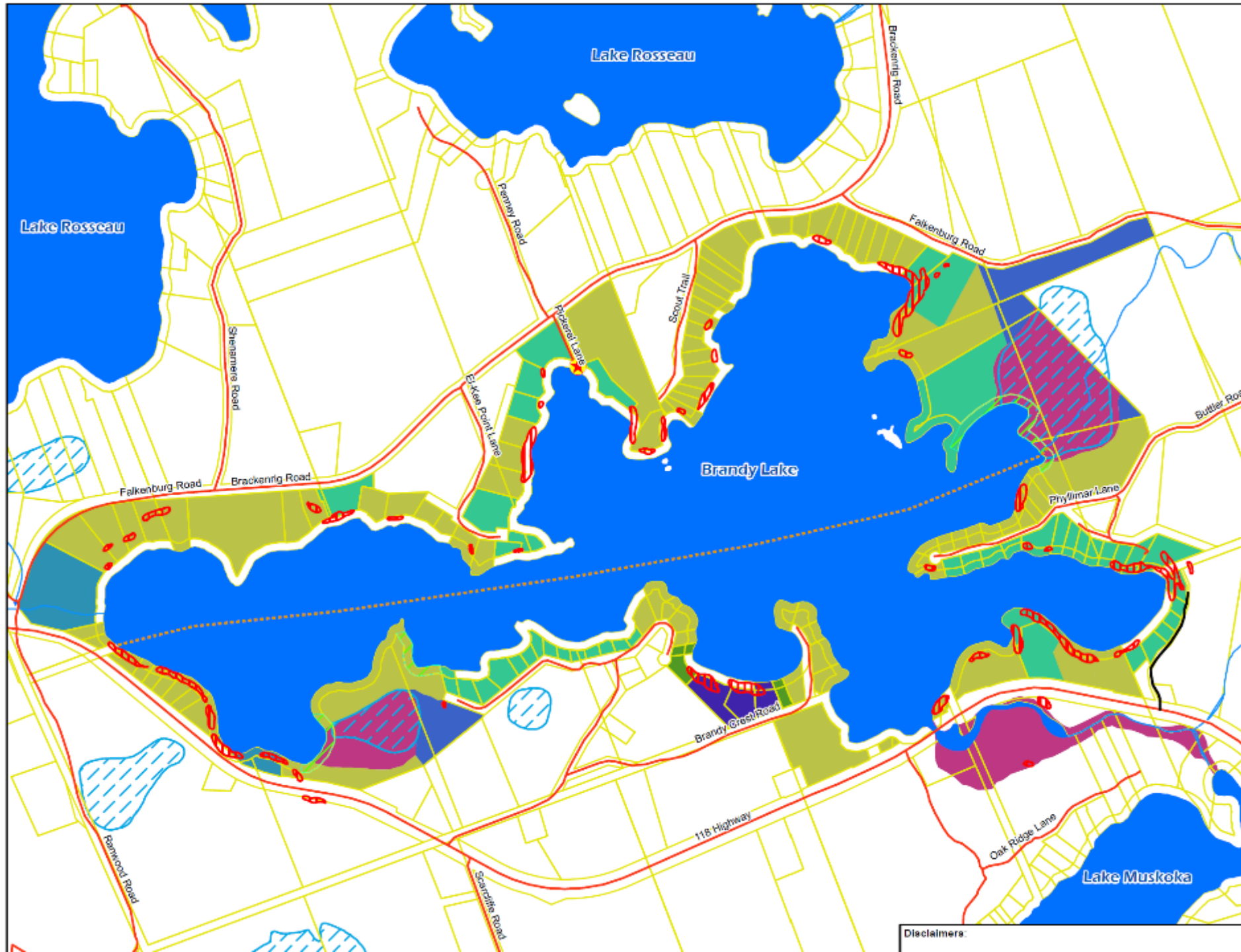
- A set of rules and regulations that the Brandy Lake Association will enforce
- A document that will change anything that is approved/in place/built
- A document that contains any rules or regulations about boating legislation; this is covered strictly by provincial & federal laws

Lake Plan 2022

What's in a lake plan?

- Physical details about the lake
 - Depth, water sources, watershed configuration, shoreline character
- History of the community around the lake
 - Early settlers, current community, profile of lake association
- Ecological information
 - How the lake functions, water monitoring details
- Unique identity of the lake (cultural and environmental)
 - Why the lake is different from other lakes
- Recommendations
 - How WE as Brandy Lake landowners want to protect the lake and our investment
 - What WE want TML and District to do to help us protect the lake and our investment





Legend

- Boat Launch
- Roads
- Private Road
- Snowmobile Trail C1020
- Watercourses
- Lot Fabric
- Slopes Greater Than 50 Percent
- Wetlands
- Shoreline Wetlands (DMM)

Township of Muskoka Lakes Comprehensive Zoning By-law 2014-14 (December 2017 Consolidation)

- Environmental Protection (EP1)
- Rural (RU1)
- Rural (RU1-2)
- Rural Commercial (RUC1)
- Waterfront Commercial (WC1A1)
- Waterfront Residential (WR1)
- Waterfront Residential (WR1-7)
- Waterfront Residential (WR5)
- Waterfront Residential (WR5-7)

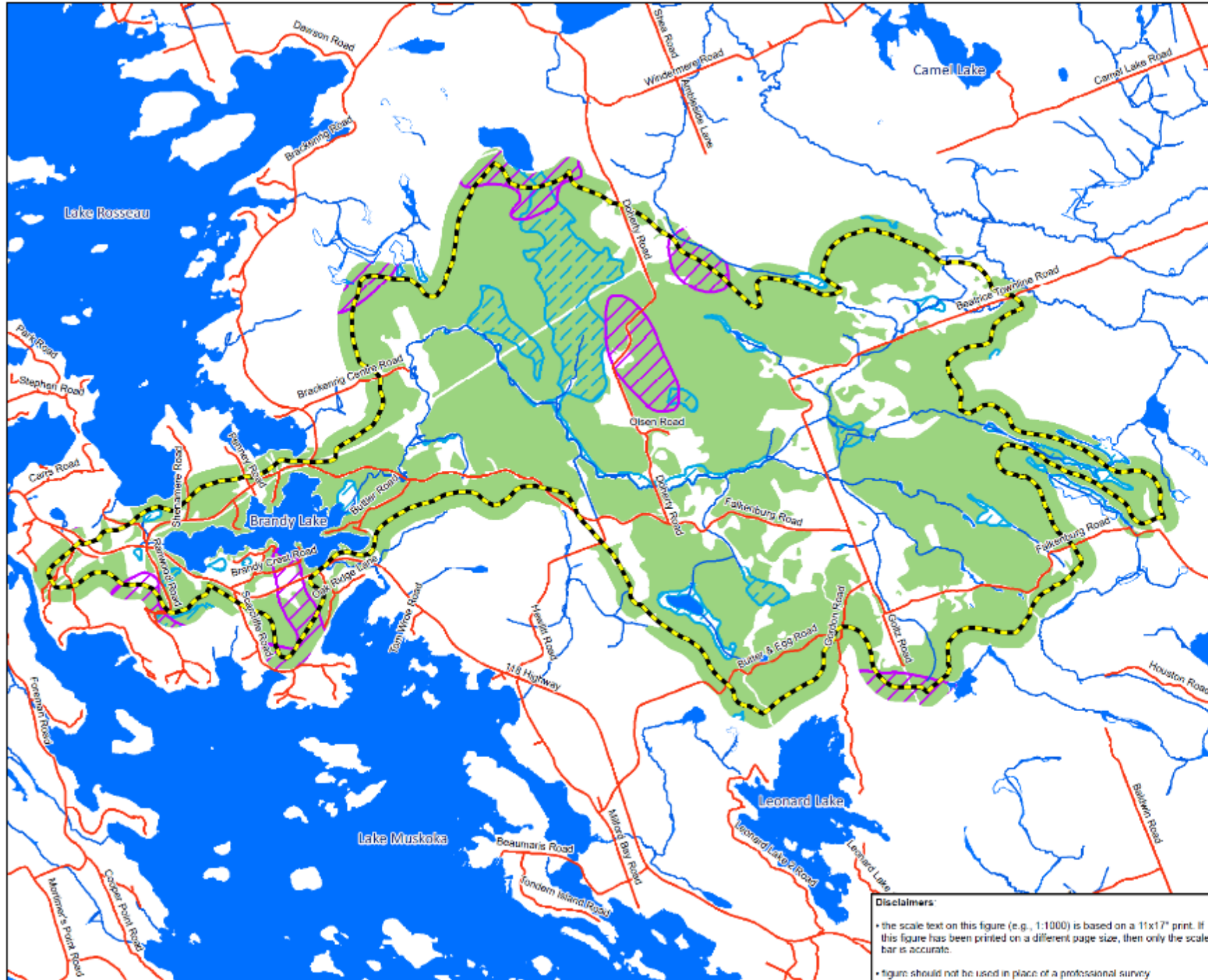
Scale	RS Project No.	Date Last Updated	By
1:9,000	2021-095	May 17, 2021	JG

0 130 260 Metres

RIVERSTONE
CONSULTING, INC.

MAP 1. Existing Conditions of Brandy Lake
Brandy Lake Plan Mapping Project
Prepared for: Brandy Lake Association

Disclaimers:



Legend

- Roads
- Watercourses
- Brandy Lake Watershed
- Deer Wintering Areas (Stratum 2)
- Wetlands
- Forested Area

Scale	RS Project No.	Date Last Updated	By
1:45,000	2021-095	May 12, 2021	JG

MAP 3. Environmental Features of Brandy Lake and its Watershed
 Brandy Lake Plan Mapping Project

Prepared for: Brandy Lake Association

Disclaimers:

- the scale text on this figure (e.g., 1:1000) is based on a 11x17" print. If this figure has been printed on a different page size, then only the scale bar is accurate.
- figure should not be used in place of a professional survey

Lake Plan : Path to approval



BLA Members
ask for plan
2019

Plan created
and ratified by
members
Oct 2021

Plan
Submitted to
Twp Muskoka
Lakes
Nov 2021

Incorporated
into draft TML
official plan by
TML Council
Dec 2021

TML OP goes
through public
process
Summer 2021
and still
ongoing

Lake Plan 2022

Next Steps



- Township of Muskoka Lakes Official Plan (OP) is currently under review; the BLA executive is following this process closely
- When the OP is approved, we will notify the membership of which specific parts of the lake plan were incorporated into the OP
- Parts of the lake plan that are not included in the OP will remain 'best practices' but not enforceable/mandated by the BLA
- Lake Plan will be permanently available on the association website



Election of New Executive Members

- Linda Mathers
- Margrit Kroll
- Don Burn
- Daniela von Bredow
- Gerry O'Mahoney
- Jeff McBain,
- Amie DeVeth
- Moreen Miller



New Business from the Floor





Motion to Adjourn

