



# KAWARTHA CONSERVATION

Discover • Protect • Restore



# Lake Dalrymple Working Group Meeting #4

May 18, 2022



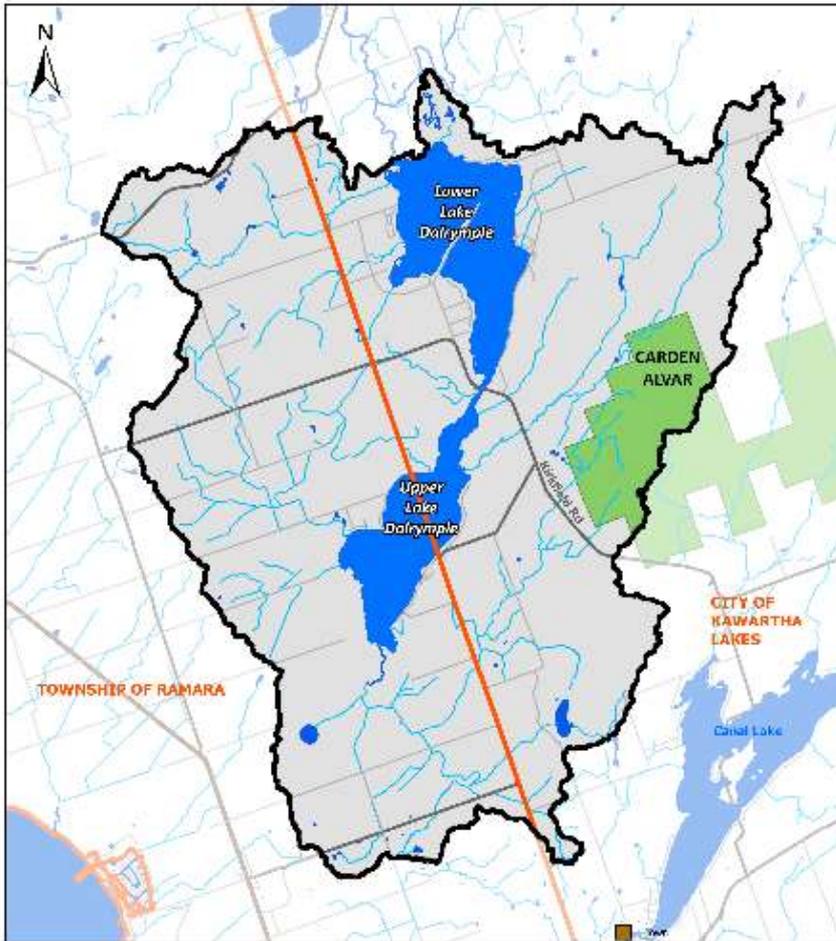
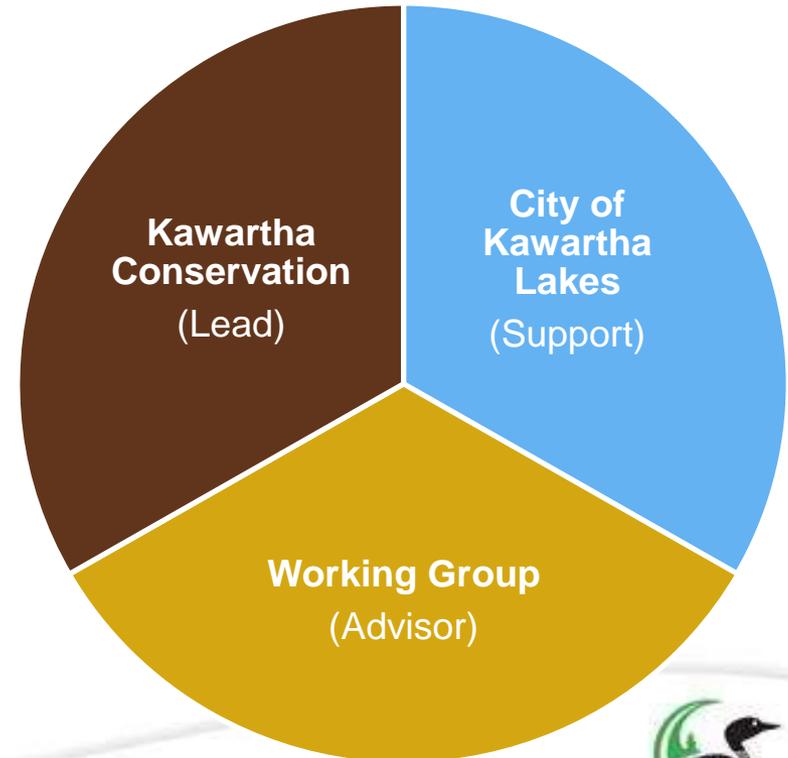
# AGENDA

1. Welcome
2. Roundtable Introductions
3. Project workplan update – 2022 monitoring activities
  - a. Water quality
  - b. Water quantity
  - c. Aquatic Resources
  - d. Land Use
4. Community Engagement
  - a. Public Information Session – May 26 and May 28
  - b. Engagement Survey
  - c. Personal stories about the lake
5. Online data ‘portal’
6. Fleming College Mapping Program update
7. Other business?
8. Closing – next meeting

# Project Overview

## Lake Dalrymple Management Plan

4 year project  
(2021-2024)



Lake Dalrymple Overview Map



PRODUCTS BY Kawartha Conservation  
with data supplied under license by (c)  
Queen's Printer for Ontario, 2021.

Scale: 1:95,000



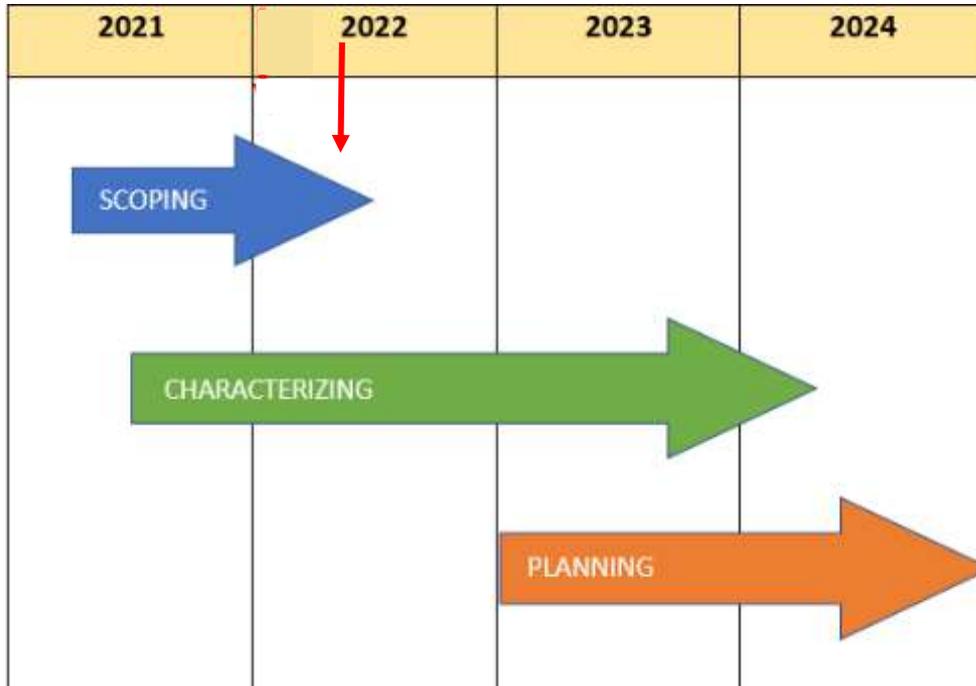
# Project Overview - requirements



Science + Community Input = Lake Plan



# Workplan Update



KEY PLANNING COMPONENTS	
<- Staff / Stakeholder / Working Group Input ->	<b>Scoping</b> a. Who are the key stakeholders? b. What are stakeholder's key values/issues/goals? c. What information is available?
	<b>Characterizing</b> a. What are the key lake resources? b. What are the functions (benefits/values) and linkages? c. What are the key management issues? d. What are the information gaps?
	<b>Planning</b> a. What are the outcomes, goals, objectives? b. What are draft management targets? c. What are the proposed management strategies/actions? d. Evaluate alternatives against response/feasibility criteria? e. What are the preferred management actions? f. How will success, change, efforts be tracked?

# AGENDA

1. Welcome
2. Roundtable Introductions
3. Project workplan update – 2022 monitoring activities
  - a. Water quality
  - b. Water quantity
  - c. Aquatic Resources
  - d. Land Use
4. Community Engagement
  - a. Public Information Session – May 26 and May 28
  - b. Engagement Survey
  - c. Personal stories about the lake
5. Online data ‘portal’
6. Fleming College Mapping Program update
7. Other business?
8. Closing – next meeting

# Site Locations for 2022



## Lake

- Three (3) sites, 1 in Upper and 2 in Lower.



## Precipitation (rainfall)

- One (1) site at the Carden Recreation Centre.

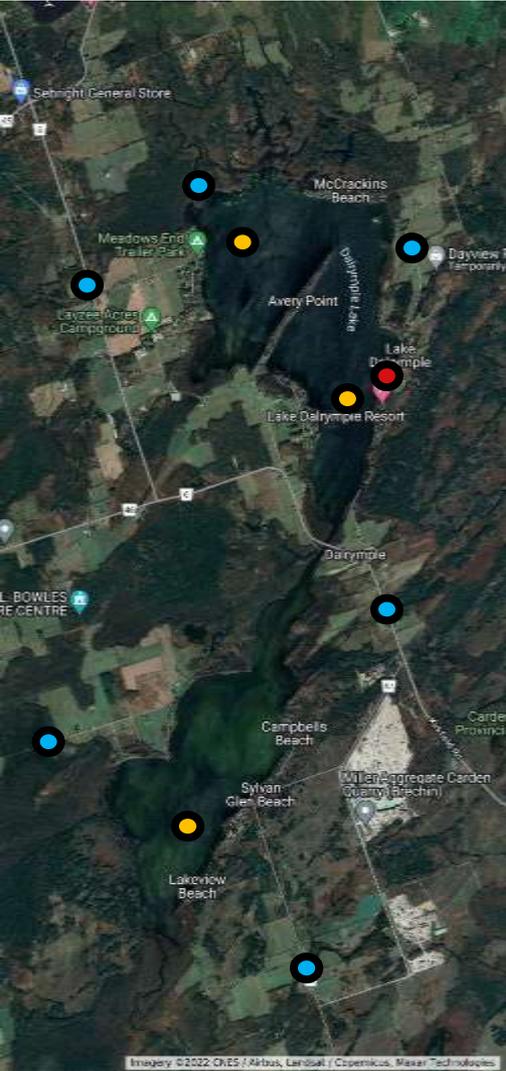


## Streams and Rivers

- Six (6) sites, 3 in Upper, 2 at Lower, 1 at lake outflow.

## Method

- Lake: sampled once (1) a month.
- Tributary: twice (2) a month with flow measurements.
- Precipitation: once (1) a month.



# Lake Partner Program (LPP)

We added another LPP site on Lake Dalrymple, LDR2 (deepest section of Lake Dalrymple).

Under LPP, additional information and verification is gained, i.e., more TP and clarity results and (new) calcium results.



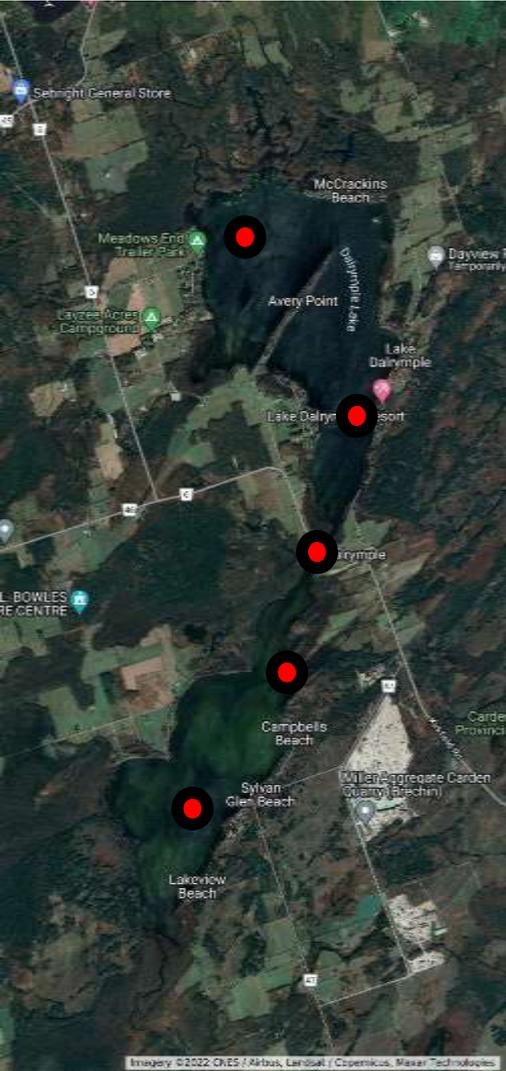
# Sediment Quality

What are we looking for?

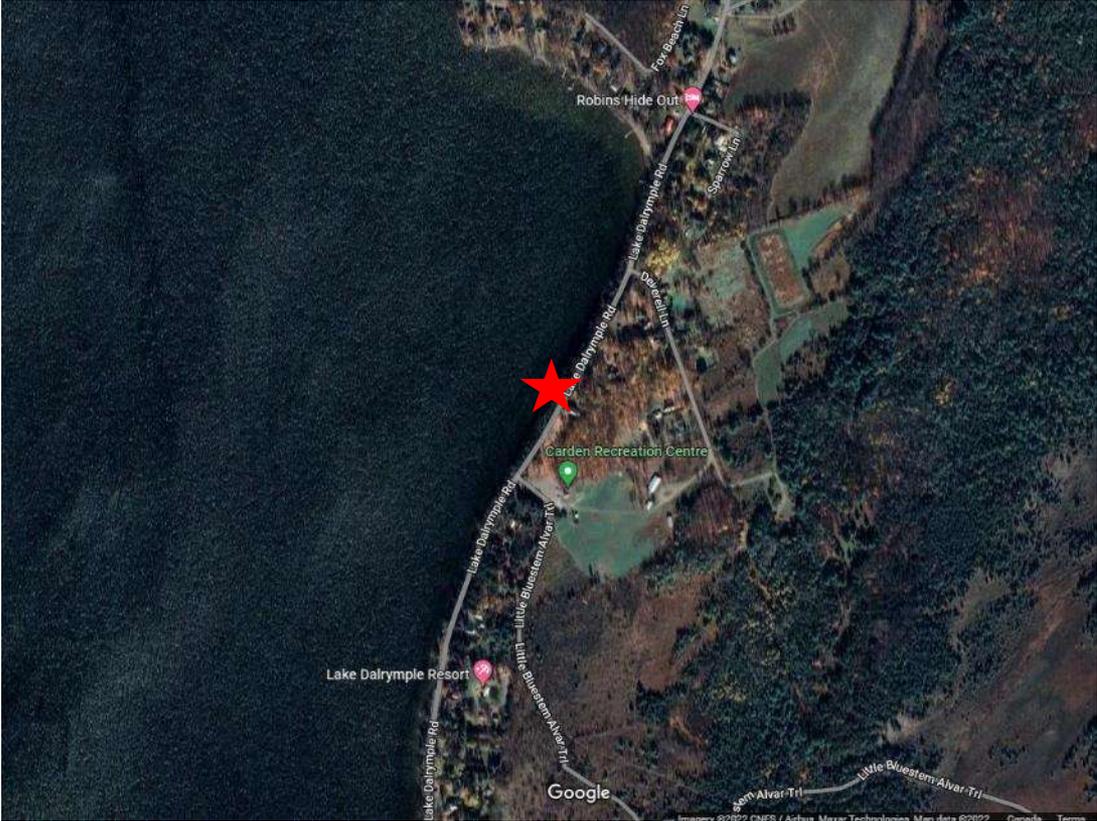
- **Nutrients:** Nitrogen, Carbon and Phosphorus
- **Metals:** Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, and Zinc.
- **Organic contaminants:** Polycyclic Aromatic Hydrocarbons

Possible sites:

1. Lake Dalrymple Public Boat launch
2. LDR1 – Deepest section of Upper Dalrymple
3. LDR2 – Deepest section of Lake Dalrymple
4. LDR3 – Deepest section between Avery Point and the outflow
5. Outflow of tributary from *'Toxic dump'* on the former Black property on Hwy 47
6. **TBA (Avery Point, Outside of the Rec. Centre, tributary site, other boat launch?)**
7. **TBA (Avery Point, Outside of the Rec. Centre, tributary site, other boat launch?)**



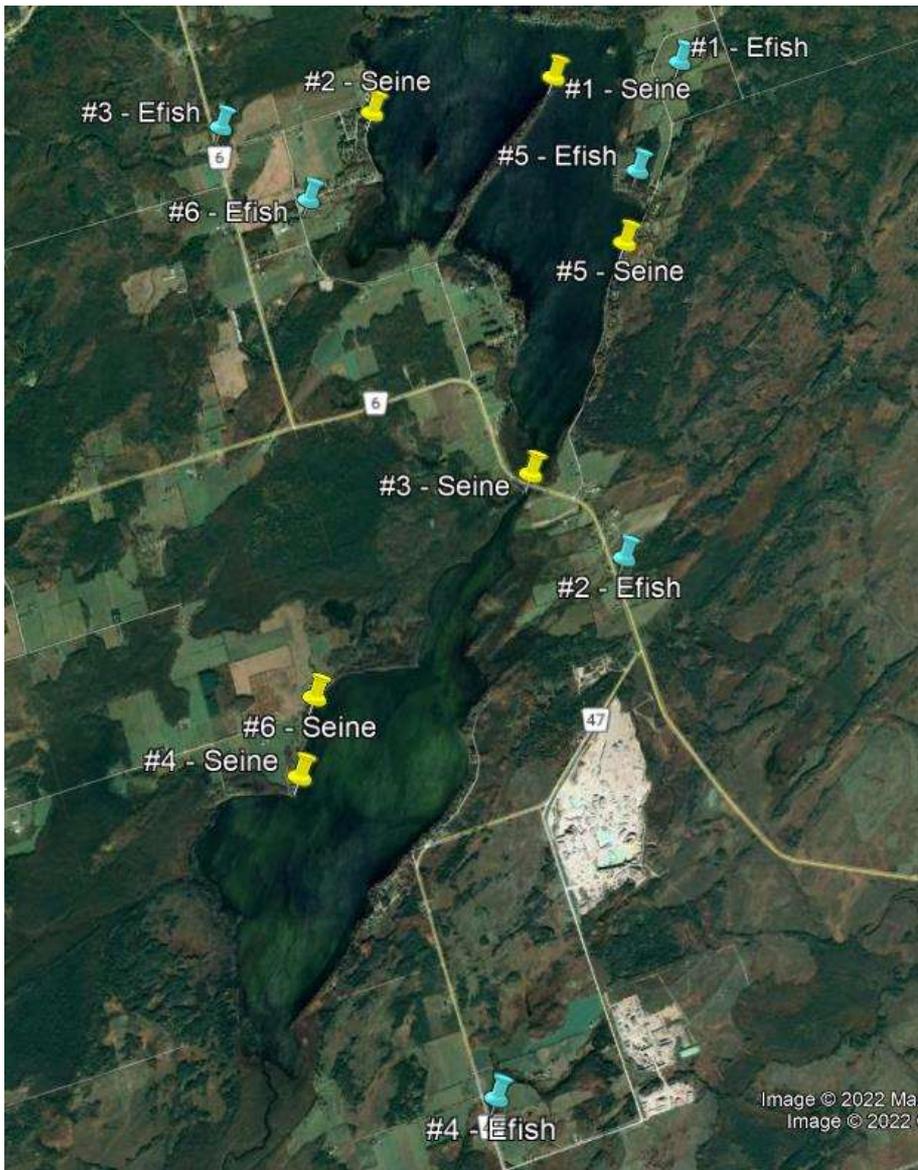
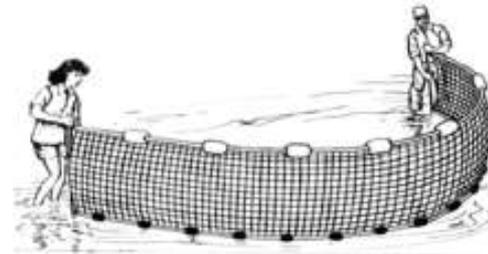
# Water Level logger



# Fish Communities

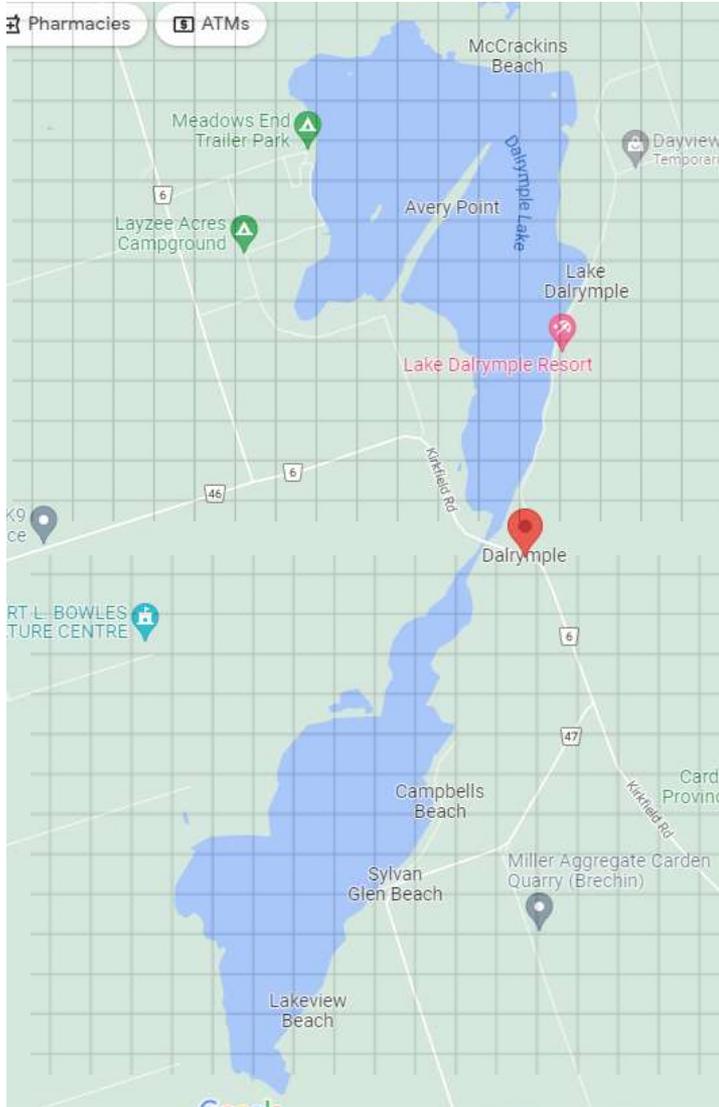
12 sites (6 on lake, 6 on tributaries)

- Community Composition (species, #'s)
- Sensitive Species vs. Tolerant Species
- Invasive Species



# Aquatic Plants

- Community Composition (species, density)
- Sensitive Species vs. Tolerant Species
- Invasive Species



Trace



Medium



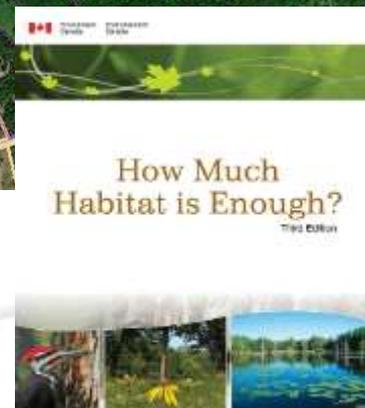
Sparse



Dense

# Land Use

- % natural, developed, agriculture
  - Shoreline
  - Watershed
  - Tributaries
- How much habitat is enough
  - Interior forests
  - Water's edge coverage
  - Wetlands



# AGENDA

1. Welcome
2. Roundtable Introductions
3. Project workplan update – 2022 monitoring activities
  - a. Water quality
  - b. Water quantity
  - c. Aquatic Resources
  - d. Land Use
4. Community Engagement
  - a. Public Information Session – May 26 and May 28
  - b. Engagement Survey
  - c. Personal stories about the lake
5. Online data ‘portal’
6. Fleming College Mapping Program update
7. Other business?
8. Closing – next meeting

# Social Media

 **Kawartha Conservation**      
May 18 at 02:45 PM

Join us at the Carden Recreation Centre on Thursday, May 26 from 7 – 8:30pm and Saturday, May 28 from 10 – 11:30am for the Lake Dalrymple Management Plan Open House.

Attendees will have the opportunity to speak with Kawartha Conservation staff, provide input, learn about key monitoring findings, and hear about next steps for the Lake Dalrymple Management Plan, as well as view a presentation on the status of the fishery from [Ontario Natural Resources and Forestry](#).

<https://pulse.ly/4g0r4+>

[Carden Recreation Center Lake Dalrymple Resort Sylvan Glen Beach Ramara News Meadows End Trailer Park Kawartha Lake Stewards Association Kawartha Field Naturalists](#)

## Lake Dalrymple Management Plan Open House

**WHERE?**  
Carden Recreation Centre

**WHEN?**  
May 26 from 7 - 8:30pm  
May 28 from 10 - 11:30am



# Lake Dalrymple Management Plan

# Open House

## WHERE?

Carden Recreation Centre

## WHEN?

May 26 from 7 - 8:30pm

May 28 from 10 - 11:30am



Speak with staff, provide input, and hear about next steps for the Lake Dalrymple Management Plan.

Can't make it to the open house?

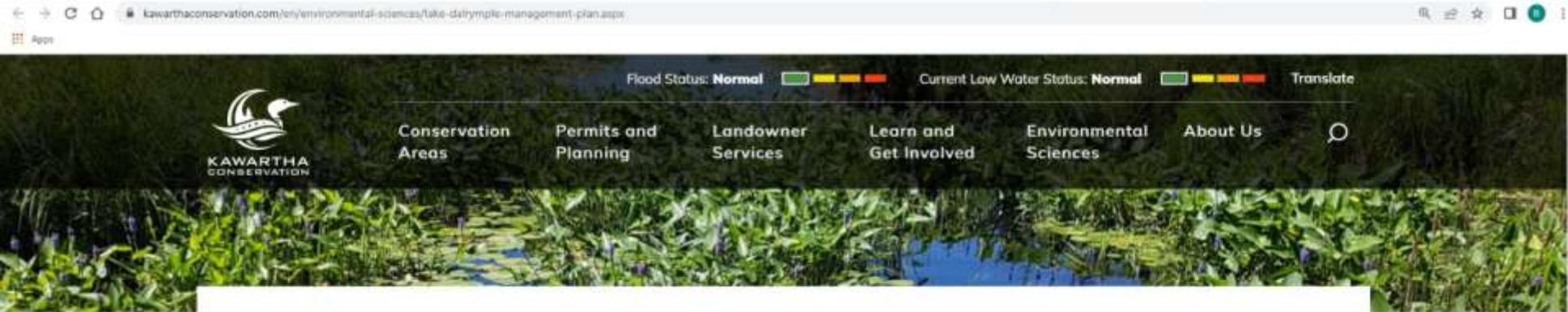
Take our engagement survey and provide your feedback using the QR code.



[kawarthaconservation.com/LakeDalrymple](http://kawarthaconservation.com/LakeDalrymple)



Flyer



# Lake Dalrymple Management Plan

Ⓐ Ⓐ Ⓐ Ⓐ Ⓐ Ⓐ

🕒 Attend the Lake Dalrymple Management Plan Open House **May 26** and **May 28**, 2022.

🔔 Participate in the **Lake Dalrymple Management Plan Engagement Survey** by June 30, 2022.

Kawartha Conservation and the **City of Kawartha Lakes** are partnering on a 4 year (2021-2024) science-based lake management planning project for Lake Dalrymple and its watershed. Lake Dalrymple provides significant economic and environmental contributions to local communities, and once completed, this lake plan will help to keep this lake (the 5th largest in the municipality), healthy and resilient.

The primary purpose of this project is to work collaboratively with lake stakeholders towards obtaining a better understanding of the pressures on a lake and to determine priority management activities.

Comprehensive monitoring of water quality, water quantity, and land use parameters will be undertaken during

## Contact Us

**Kawartha Conservation**  
Kawartha Conservation  
277 Kenel Road  
Lindsay, ON K9V 4R1  
Tel: **705.328.2271**  
Fax: **705.328.2286**  
[Email Us](#)  
[Map this location](#)



[Engagement Survey](#)



# Personal stories about the lake

- Shoreline Use
- Lake Use
- Water Quality
- Water Levels
- Fish Community
- Landscape/watershed

*EXAMPLE (Fish Community):*

*“Growing up we used to catch Walleye all the time, now they are few and far between. A lot more Pike being caught now too and not as much Musky.”*

- Jim, Campbell's Beach resident since 1954.



# AGENDA

1. Welcome
2. Roundtable Introductions
3. Project workplan update – 2022 monitoring activities
  - a. Water quality
  - b. Water quantity
  - c. Aquatic Resources
  - d. Land Use
4. Community Engagement
  - a. Public Information Session – May 26 and May 28
  - b. Engagement Survey
  - c. Personal stories about the lake
5. Online data ‘portal’
6. Fleming College Mapping Program update
7. Other business?
8. Closing – next meeting

# Online Data Portal

Kawartha Conservation - Lake Dalrymple Management Plan

[Welcome](#)

[About](#)

[Water Quality](#)

[Vertical Lake Profiles](#)

[Water Quantity](#)

[Thermal](#)

## Welcome to the Lake Dalrymple Management Plan Dashboard

This interactive dashboard will be used to deliver the most up to date results from [Kawartha Conservation's Lake Dalrymple Management Plan](#).



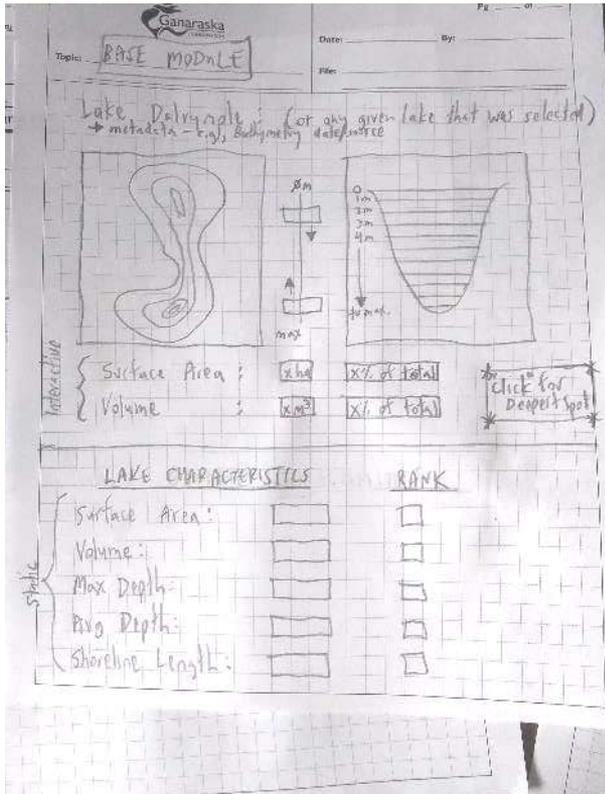
Across the top menu panel, you can view results from the following monitoring programs:

- Water Quality
- Vertical Lake Profiles
- Water Quantity (Lake and stream water levels)
- Thermal Regimes of Streams

***This app was last updated on: 2022-03-04***

# AGENDA

1. Welcome
2. Roundtable Introductions
3. Project workplan update – 2022 monitoring activities
  - a. Water quality
  - b. Water quantity
  - c. Aquatic Resources
  - d. Land Use
4. Community Engagement
  - a. Public Information Session – May 26 and May 28
  - b. Engagement Survey
  - c. Personal stories about the lake
5. Online data ‘portal’
6. Fleming College Mapping Program update
7. Other business?
8. Closing – next meeting



Public



Private



# AGENDA

1. Welcome
2. Roundtable Introductions
3. Project workplan update – 2022 monitoring activities
  - a. Water quality
  - b. Water quantity
  - c. Aquatic Resources
  - d. Land Use
4. Community Engagement
  - a. Public Information Session – May 26 and May 28
  - b. Engagement Survey
  - c. Personal stories about the lake
5. Online data ‘portal’
6. Fleming College Mapping Program update
7. Other business?
8. Closing – next meeting

# Closing

**Thank you!**

## **Lake Dalrymple Management Plan Webpage**

<https://www.kawarthaconservation.com/en/environmental-sciences/lake-dalrymple-management-plan.aspx>

## **Examples of Lake Management Plans**

<https://www.kawarthaconservation.com/en/environmental-sciences/lake-and-environmental-management-plans.aspx>

## **Contact Us!**

Brett Tregunno, Aquatic Biologist, Kawartha Conservation

[btregunno@kawarthaconservation.com](mailto:btregunno@kawarthaconservation.com)

705.328.2271 ext. 222

