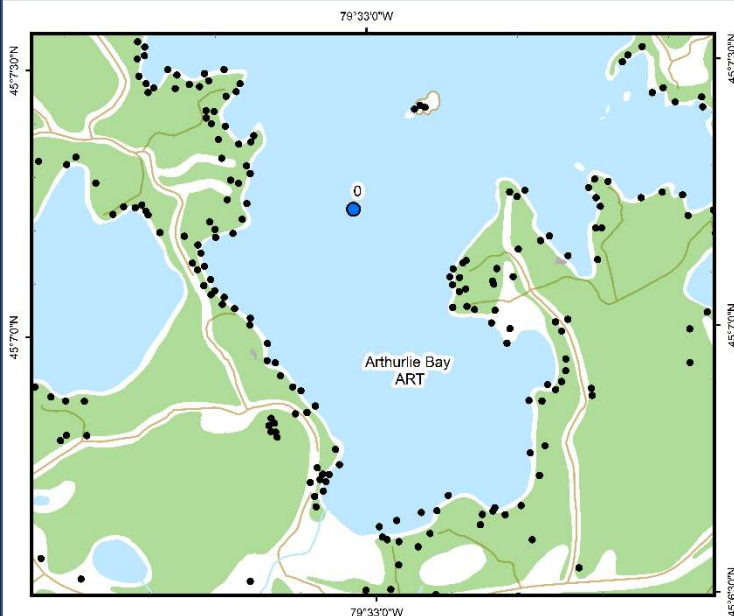




Arthurlie Bay (ART)



Area Description:

Arthurlie Bay is a shallow bay in the southern basin of Lake Rosseau. Shoreline development is considered moderate to high and includes numerous properties with substantial cleared area. One creek in the south flows through agricultural land prior to entering the southwest corner of the bay. MLA monitoring of Arthurlie Bay began in 2002.

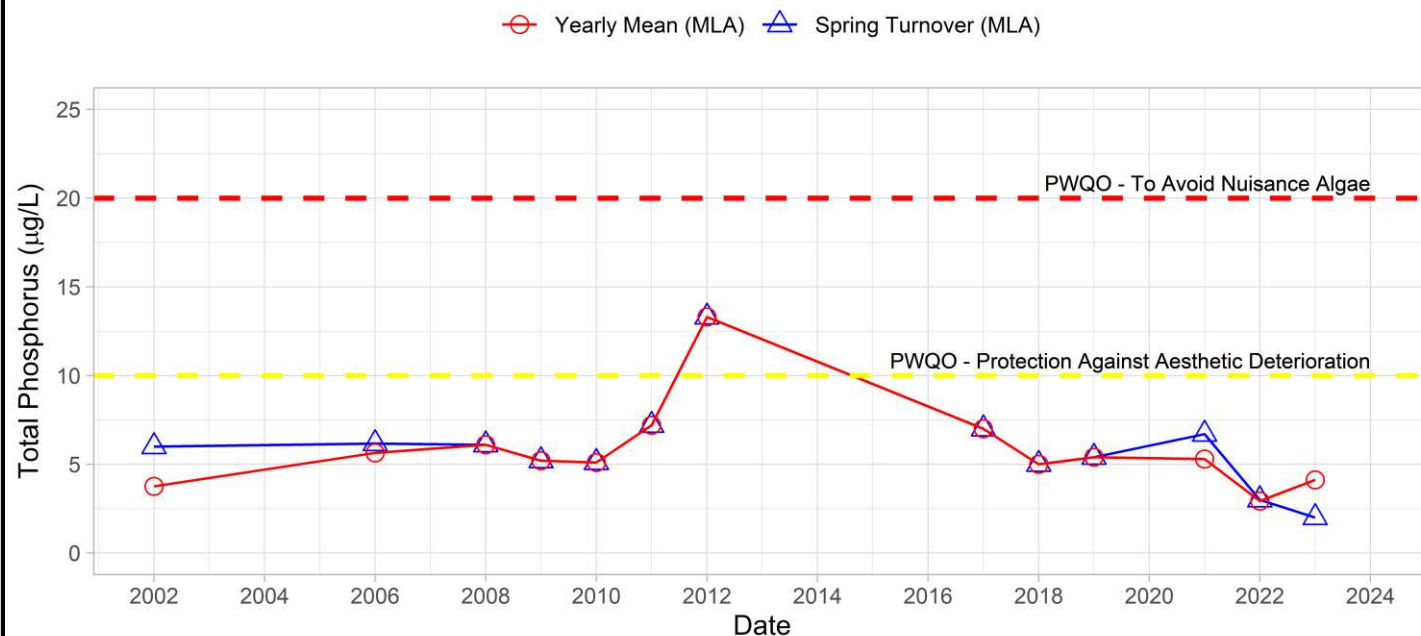
Volunteer Recognition: Mark Tiffin.

2023 Water Quality Results:

	Mean Secchi Disk (m)	Total Phosphorus ($\mu\text{g/L}$)		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
ART-0	3.6	2.0	4.1		

Note: Grubbs test indicates spring phosphorus data collected in 2012 are considered an outlier

Phosphorus at ART-0





Hutchinson
Environmental Sciences Ltd.



Annual average and spring phosphorus concentrations at the deep-water station (ART-0) were below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Average annual Secchi disk depth (3.6 m) was consistent with the range of previous measurements (3.7 – 4.4 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**