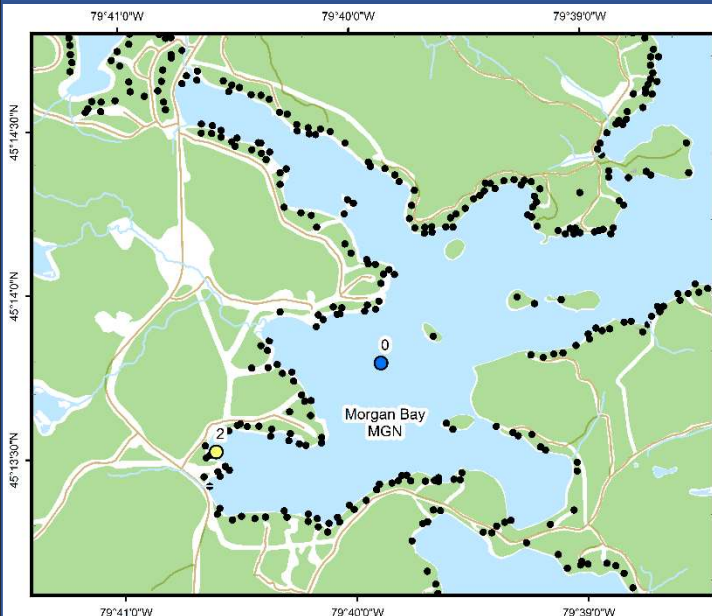




Morgan Bay (MGN)



Area Description:

Morgan Bay sampling area is in the northwestern part of Lake Rosseau and includes a series of small bays (i.e., Beechwood Bay, Sucker Bay, Bass Bay). Residential properties have been developed along the majority of the shoreline but many retain natural riparian vegetation. Several creeks flow into Morgan Bay close to the nearshore sampling sites and there is a wetland adjacent to the lake at MGN-3 (last sampled in 2014). Several roads provide access to nearly the entire shoreline area and frequently encroach on the shoreline of the bay. MLA monitoring of Morgan Bay began in 2008.

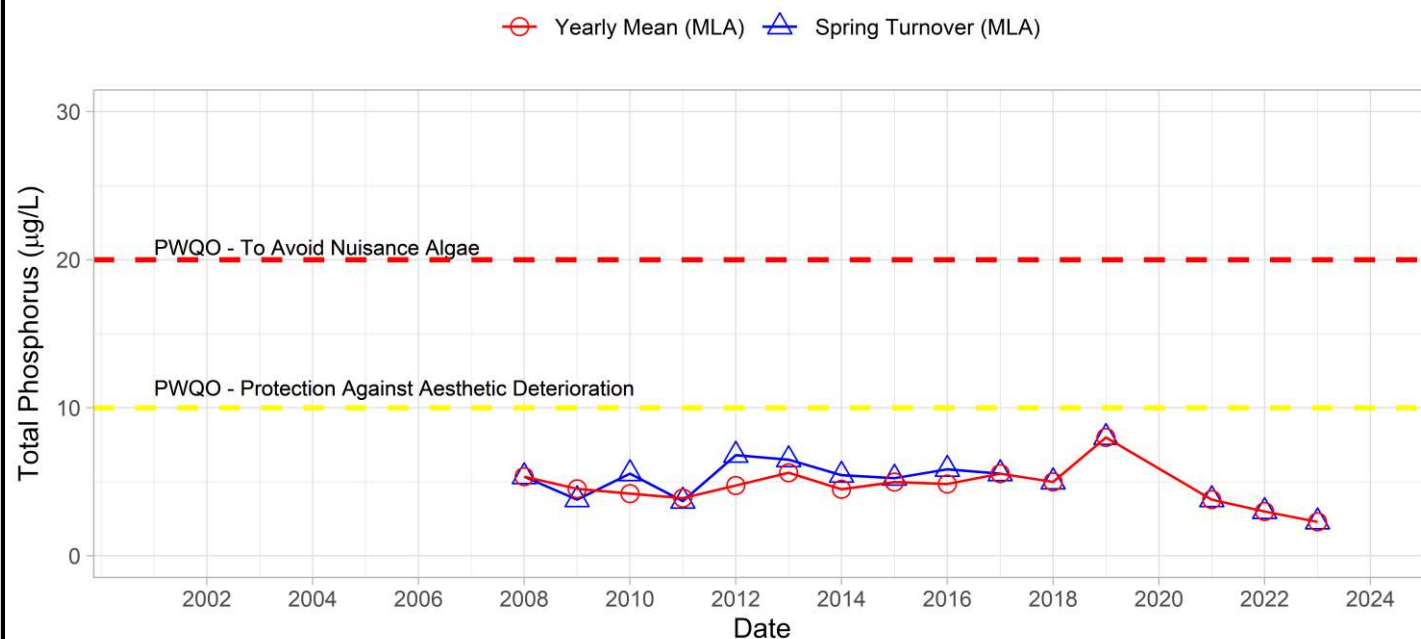
Volunteer Recognition: Carol Anne Ballantyne.

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		
MGN-0	3.6	2.3			
MGN-2		2.1	3.4		

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

Phosphorus at MGN-0





Spring phosphorus concentration at the deep-water station (MGN-0) was below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration ($10 \mu\text{g/L}$) and Nuisance Algal Growth ($20 \mu\text{g/L}$). Nearshore monitoring of annual average and spring phosphorus concentration at MGN-2 were within the range of variability of previous monitoring years. Average annual Secchi disk depth (3.6 m) was consistent with previous monitoring ($1.9 - 5.25 \text{ m}$). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**