



Area Description:

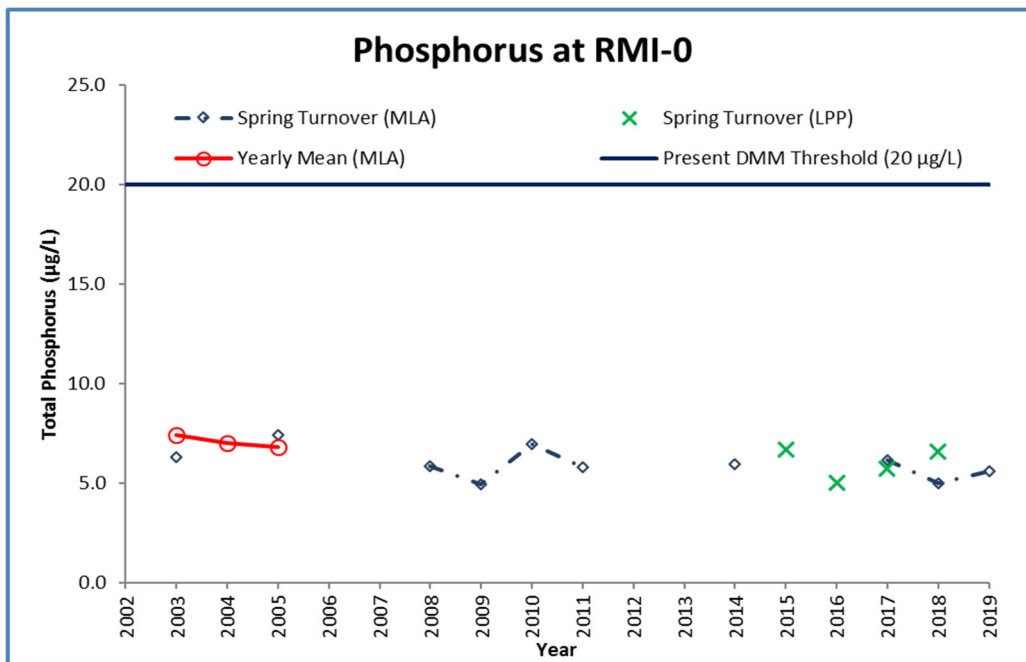
Royal Muskoka Island has one deep-water sampling site located in the central portion of Lake Rosseau. This is a highly developed residential island with many roads and cottages along the shoreline. A large proportion of the interior of the island is cleared or otherwise altered. The eastern shore, opposite RMI-0, is less developed with residences spread out along the shore. Northwest winds and a long fetch would result in significant wave action.

Volunteer Recognition: Katherine Seybold, Peter Seybold and B. McCabe.

Royal Muskoka Island (RMI)

2019 Water Quality Results: (Note: Hatched cell signifies not tested for in 2019)

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)
		Spring Turnover	Yearly Mean		
RMI-0	3.3	5.6			
RMI-6		5.6		1.4	5.5



Summary and Recommendations:



Phosphorus results remain generally low throughout the sampling years, and all readings remain well below the present DMM threshold (20 µg/L). Lake Partner Program spring phosphorus data was available in 2013, and 2015-2018. Only one spring phosphorus sample was collected at each of the two stations in 2019, therefore no yearly means could be calculated, and no values are reported for 2019. Generally, Secchi measurements remain stable through sampling years, varying between 2.2 and 4.7 m (2018). **Beacon continues to recommend that the MLA rely on the Lake Partner Program data when it available, otherwise because of the increasing development pressure in the south end of the bay, the MLA should continue to monitor this location to analyse long-term trends.**