Area Description:

East Portage Bay is located in eastern Lake Rosseau, has an area of approximately 1.33 km², and reaches a maximum depth of 12 m. This moderately developed bay has many roads, with several areas directly adjacent to the shoreline. There is also a large agricultural area adjacent to the northern shoreline of the bay. No creeks outlet into the bay and there are no wetlands draining from the upper watershed. East Portage Bay has been classified as highly sensitive and over threshold by the DMM. Monitoring started in 2005. All stations shown may not be sampled each year.

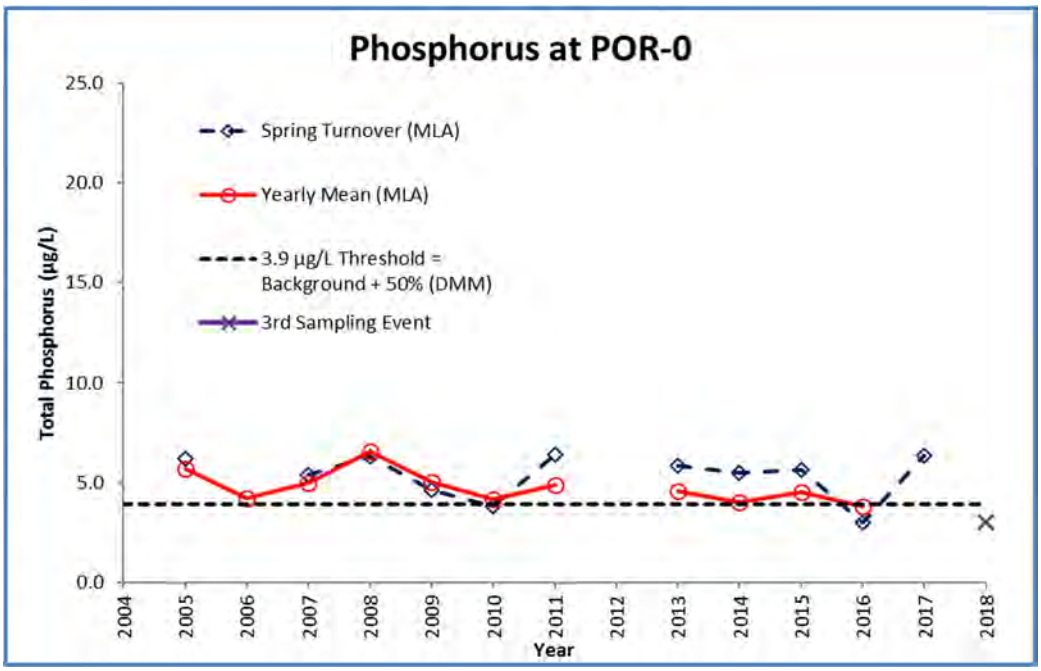
Volunteer Recognition: **Marje Henke, Catherine LeBoeuf, Mike Robinson**, Jill Robinson and Andy Henke.

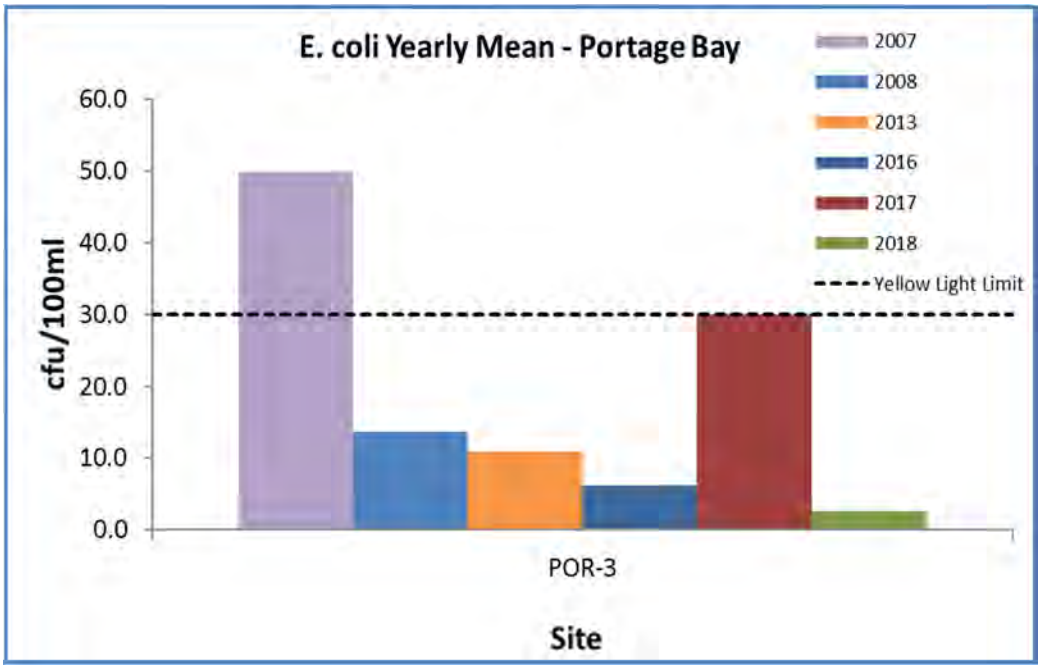
East Portage Bay (POR)

2018 Water Quality Results: (**Note**: Hatched cell signifies not tested for in 2018)

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		
POR-0	4.7	*	8.0		
POR-1		13.0	8.5		
POR-3		15.0	6.8	2.6	122.7
POR-5		14.0	5.8		

Notes – *the 2018 spring phosphorus at POR-0 was an outlier and removed from the data set





Summary and Recommendations:

The 2018 spring turnover phosphorus concentration (13 µg/L) at the deep station (POR-0) was identified as an outlier in the Grubb's test and therefore it was removed from the data set in 2018. Similarly, the 2018 spring phosphorus concentrations at POR-1 and POR-3 were the highest recorded to date, and the second highest at POR-5. As well, the yearly phosphorus means at POR-1 and POR-3 were the highest recorded at those stations to date and phosphorus concentrations have been generally increasing over the last three years. *E. coli* sampling was continued at only POR-3 and the yearly mean value was well below the MLA stoplight limits (details in report **Section 3**). Secchi measurements vary through sampling years, ranging between 1.45 and 6.5. **Beacon recommends sampling continue to monitor long-term trends.**