



Area Description:

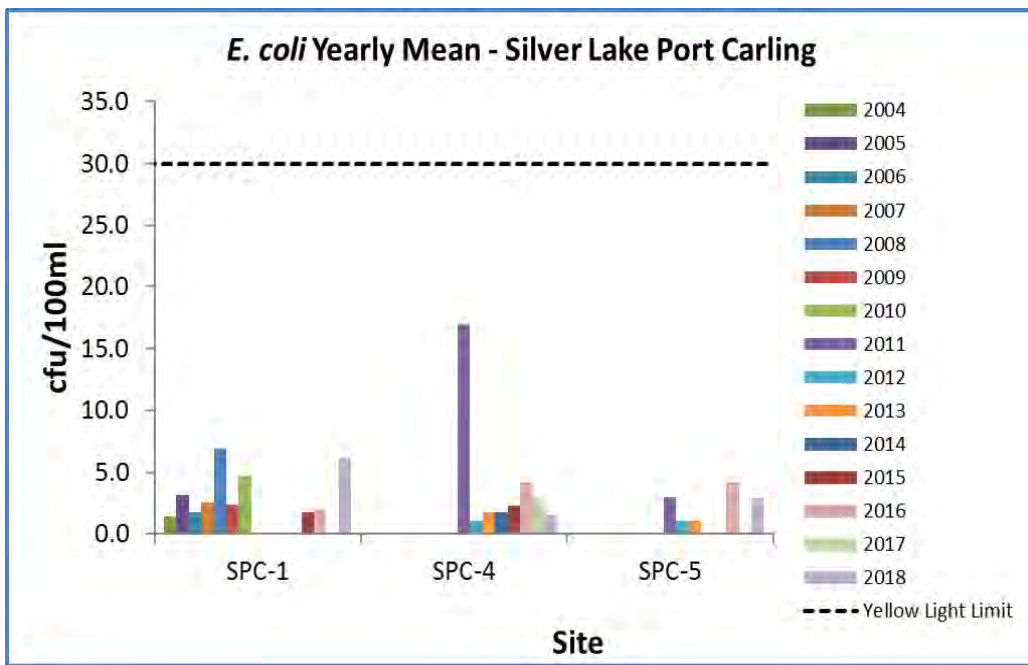
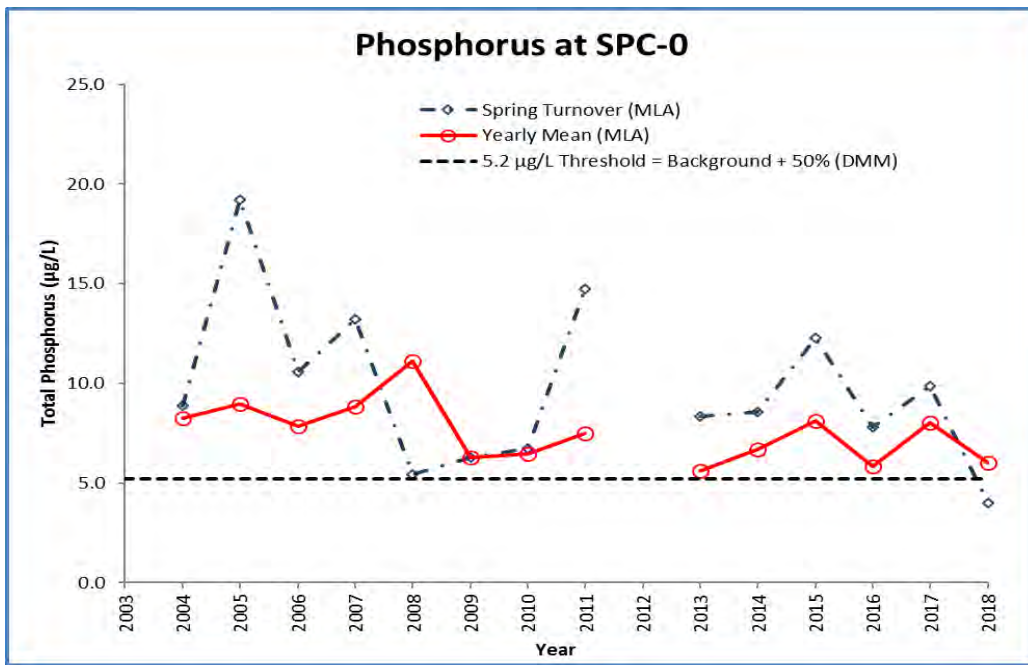
Silver Lake is immediately adjacent to Port Carling, with 0.57 km² in surface area and a maximum depth of 14 m. This lake has a moderate amount of shoreline residential development with alteration in the form of lawns and thinned forest occurring over approximately 50% of the upland area. The riparian area is well buffered with 90% of the immediate shoreline in a natural state. The southwestern portion of this lake receives drainage from part of the Port Carling urban area. There is limited flow into the lake with one identified outlet in the south. Silver Lake is classified as moderately sensitive by the DMM. All stations shown may not be sampled each year.

Volunteer Recognition: Barbara Graydon, Matthew Graydon, and Johnathan Graydon.

Silver Lake (SPC)

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		
SPC-0	5.1	4.0	6.0		
SPC-1				6.2	39.2
SPC-4				1.4	42.3
SPC-5				2.9	26.9



Summary and Recommendations:



The 2018 spring phosphorus concentration at the deep station (SPC-0) was below the historic DMM threshold of 5.2 µg/L in 2018, and the lowest recorded to date. The yearly phosphorus mean at SPC-0 remains consistent with previous sampling years. *E. coli* counts remain low at all nearshore sampling locations in 2018 and well below the MLA stoplight limits (details in report Section 3). Secchi depth measurements continue to vary across the sampling years. Volunteers notes significant aquatic vegetation during all the 2018 sampling events. **Beacon recommends that all sampling be continued to monitor long-term trends.**