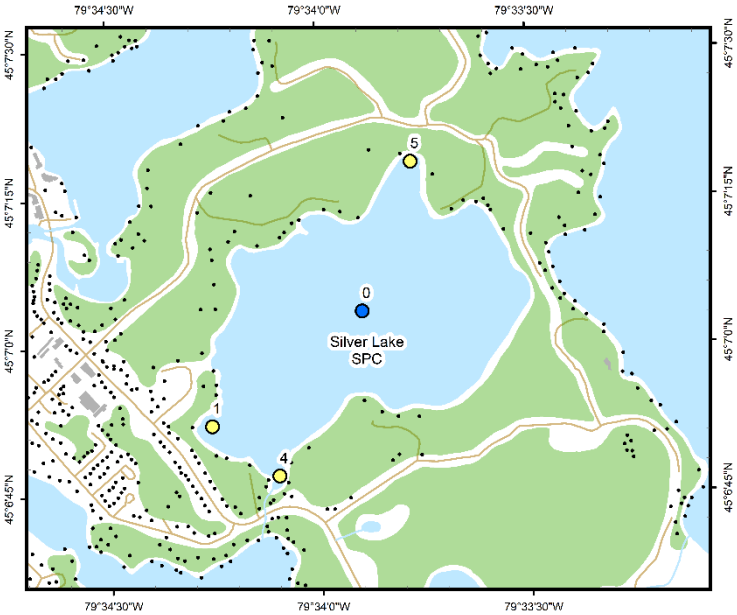
Silver Lake (SPC)



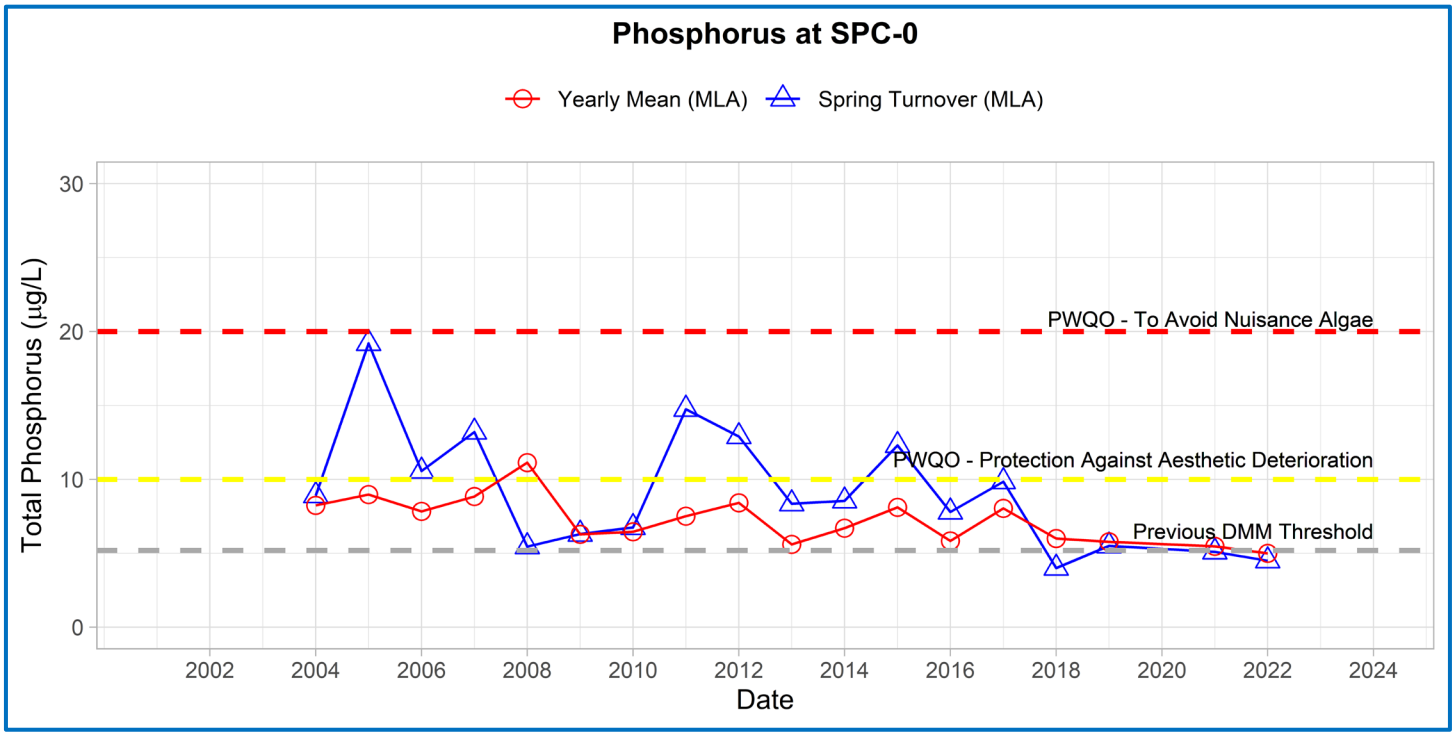
Area Description:

Silver Lake is a small lake (surface area = 0.56 km²) with a maximum depth of 14 m just east of Port Carling and west of Arthurlie Bay. The lake has a small watershed area (0.59 km^2) and is moderately developed with residential properties. Thinned forest accounts for approximately 50% of the upland area, however 90% of the shoreline is in a natural state. Drainage from Port Carling enters the lake in the southwest and a single outlet drains from the lake in the south. Silver Lake is not currently listed as vulnerable by the DMM.

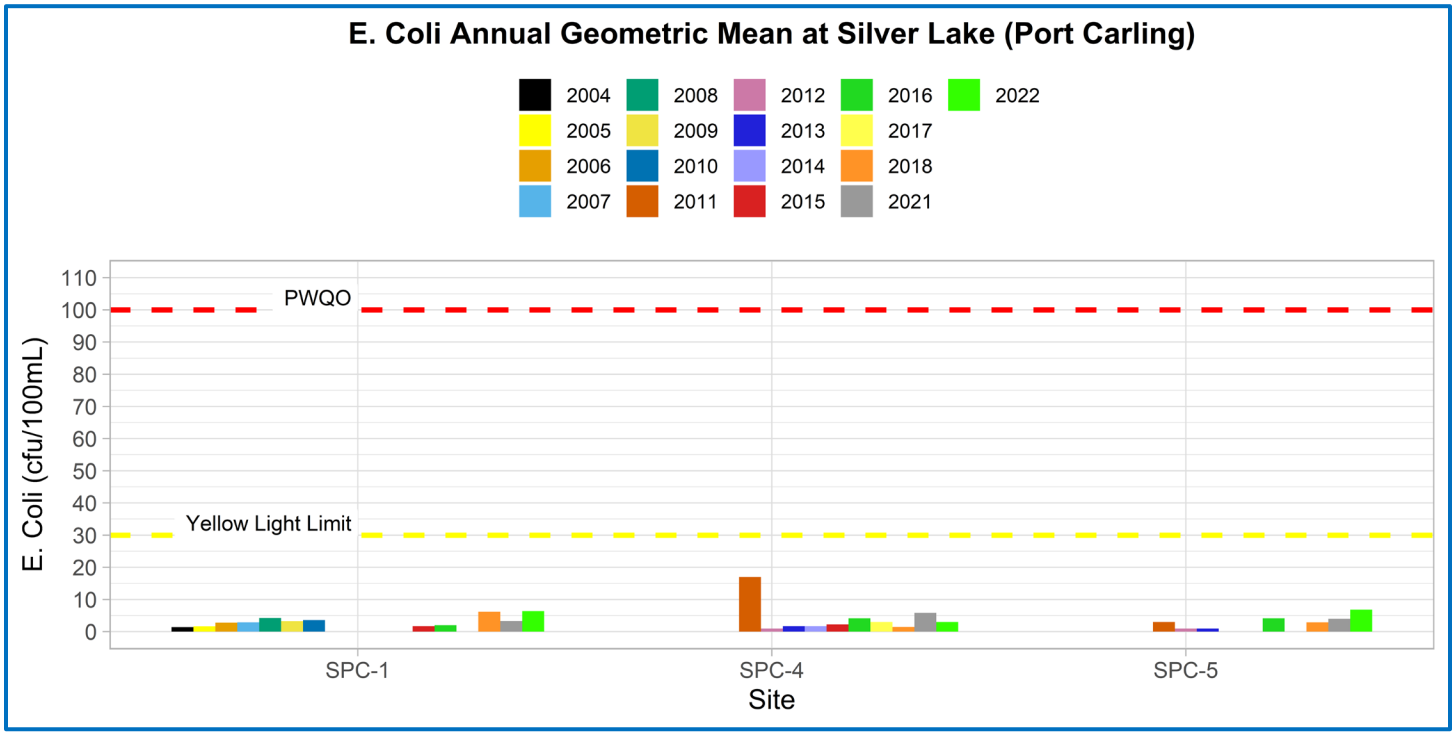
Volunteer Recognition: Barbara Graydon, Matthew Graydon, Mike Graydon and Johnathan Graydon

2022 Water Quality Results:

	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
SPC-0	4.4	4.5	5.0		
SPC-1				7	36
SPC-4				3	22
SPC-5				7	58



Note: Grubbs test indicates no spring or annual phosphorus data collected are considered outliers.



Annual average and spring phosphorus concentrations at the deep-water station (SPC-0) were below the historic DMM threshold of 5.2 µg/L but below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). *E. coli* counts were below the MLA stoplight limits at all nearshore sites. Average annual Secchi disk depth (4.4 m) was consistent with previous monitoring (2.0 and 7.5 m). Silver Lake experienced a cyanobacterial bloom in 2020 and therefore is still listed as yellow pending the completion of a causation study on the impact of development in the area. **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**