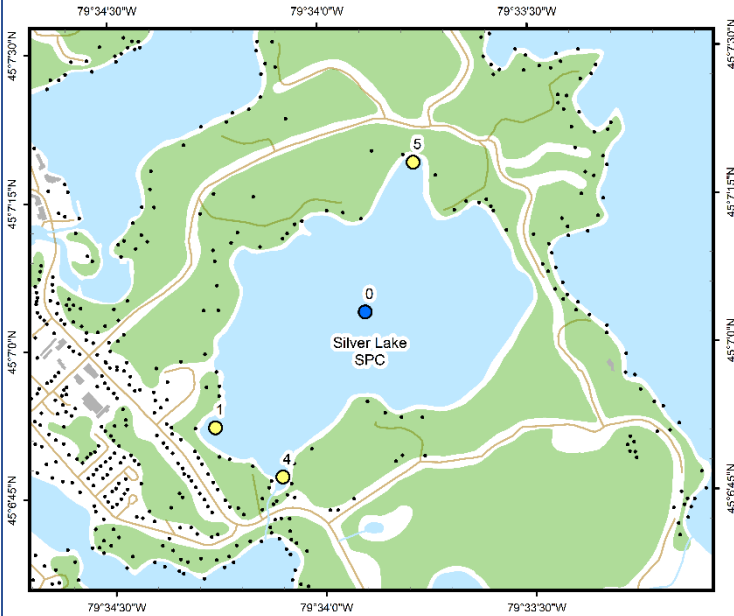




Silver Lake (SPC)



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 km²) 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.

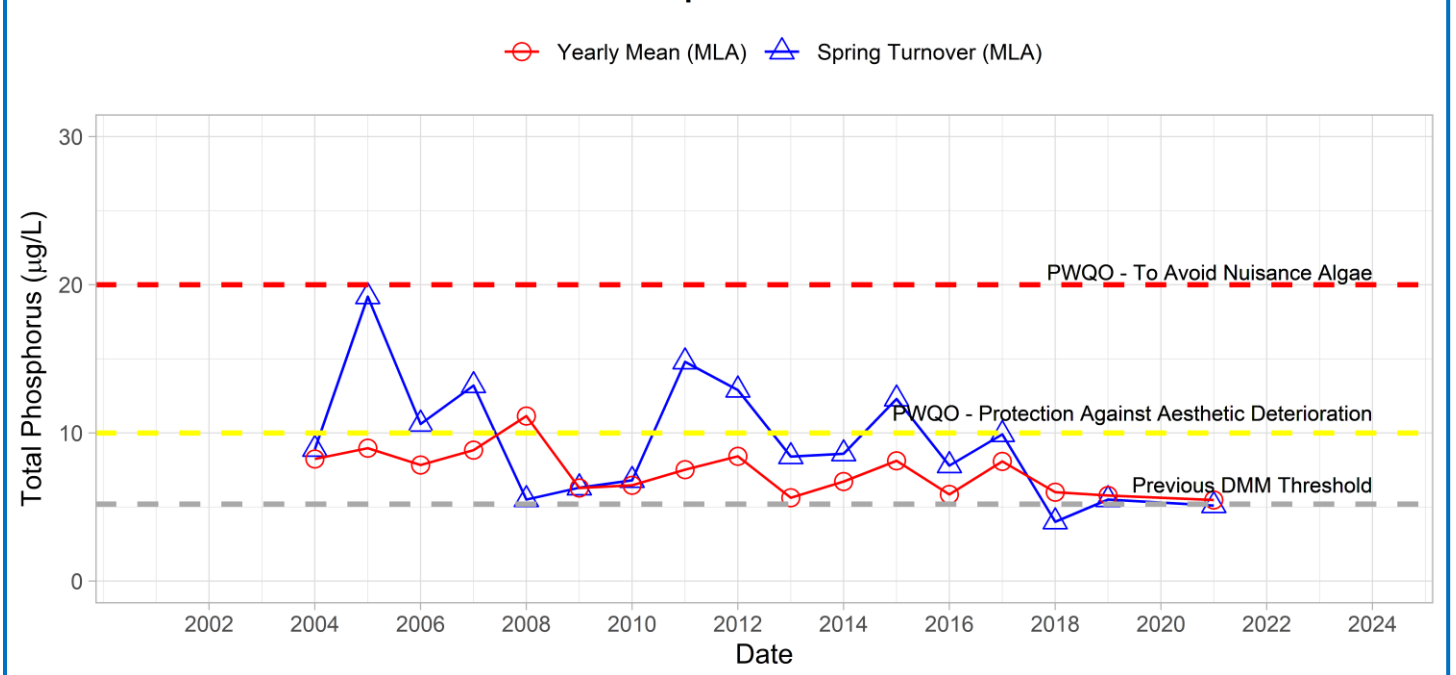
Volunteer Recognition: Barbara Graydon, Matthew Graydon, Mike Graydon and Johnathan Graydon

2021 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	5.0	5.1	5.5	1*	11*
SPC-1				3	19
SPC-4				6	39
SPC-5				4	32

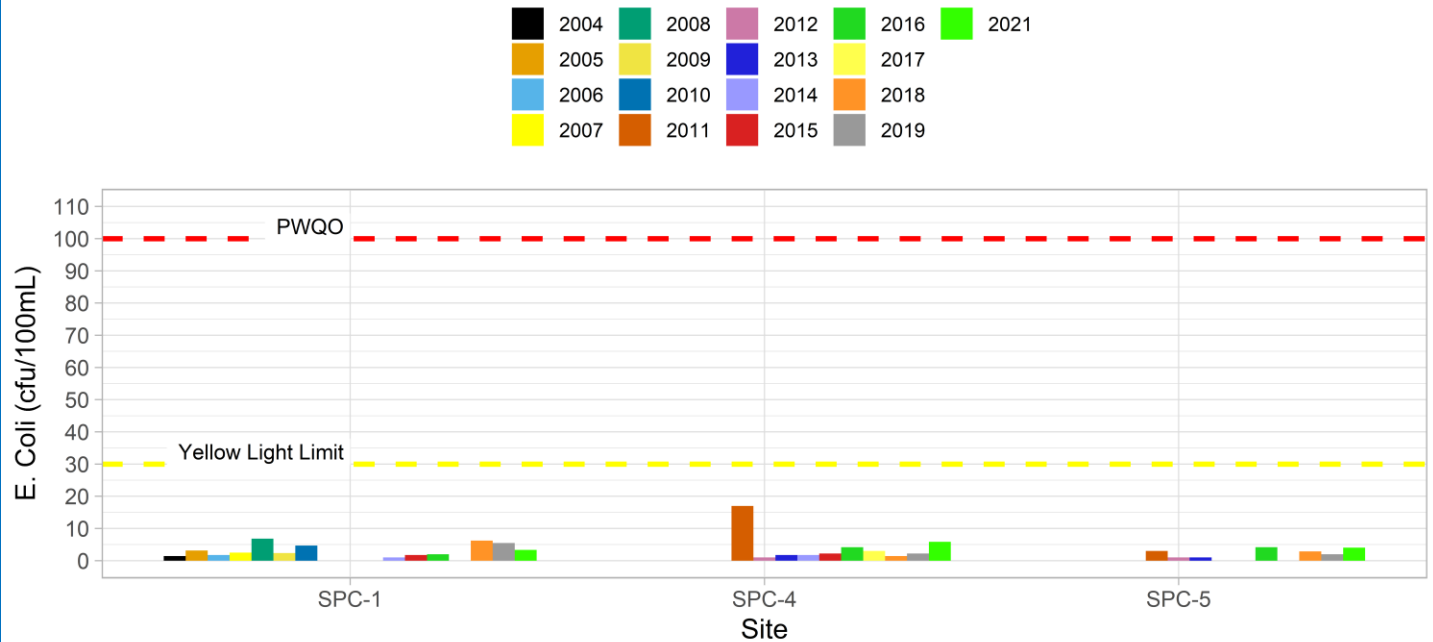
Note: * Based on a single E. coli sample not an annual geometric mean

Phosphorus at SPC-0



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

E. Coli Annual Geometric Mean at Silver Lake (Port Carling)



Annual average and spring phosphorus concentrations at the deep-water station (SPC-0) were near 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 (5.0 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.**