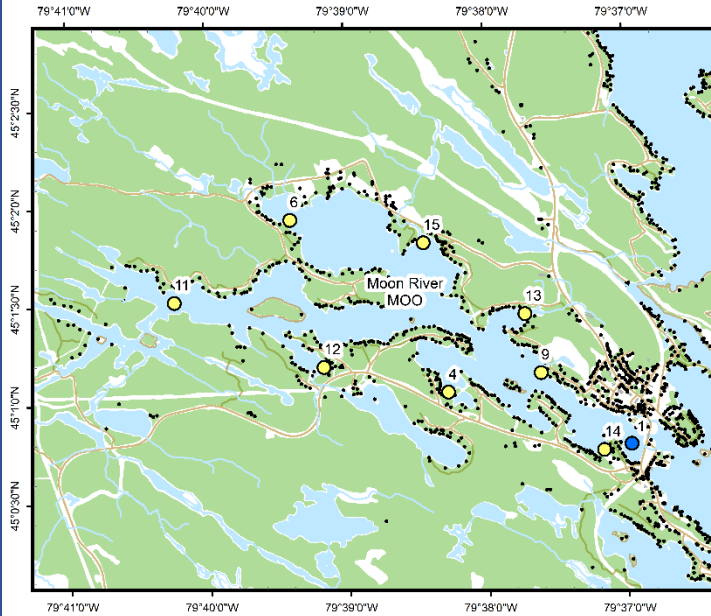




Moon River (MOO)



Area Description:

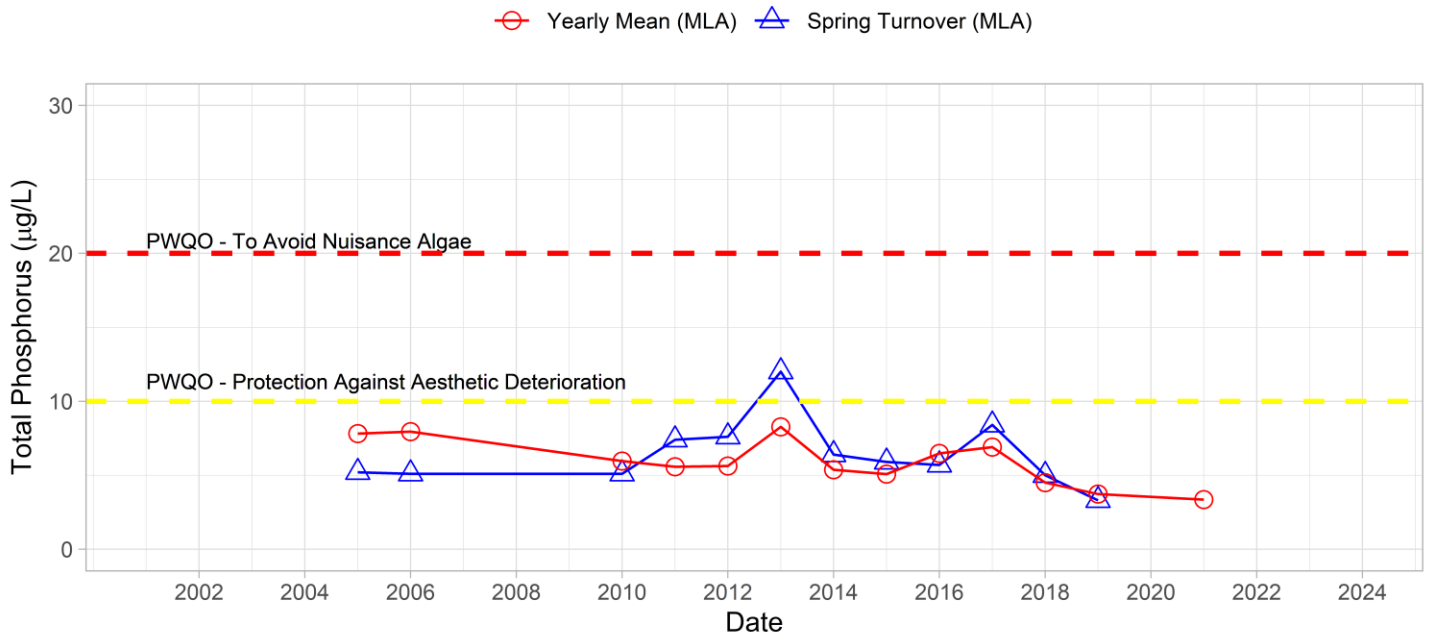
The Moon River is the main outlet of the Muskoka Watershed, flowing from Bala Bay of Lake Muskoka into Georgian Bay. The sampling region is highly developed including the urbanization from the Town of Bala, numerous roads and extensive shoreline development. Numerous small creeks outlet into the sampling area, several of which drain small wetland areas.

Volunteer Recognition: Barry Fisher, Hanna Ylanko.

2021 Water Quality Results:

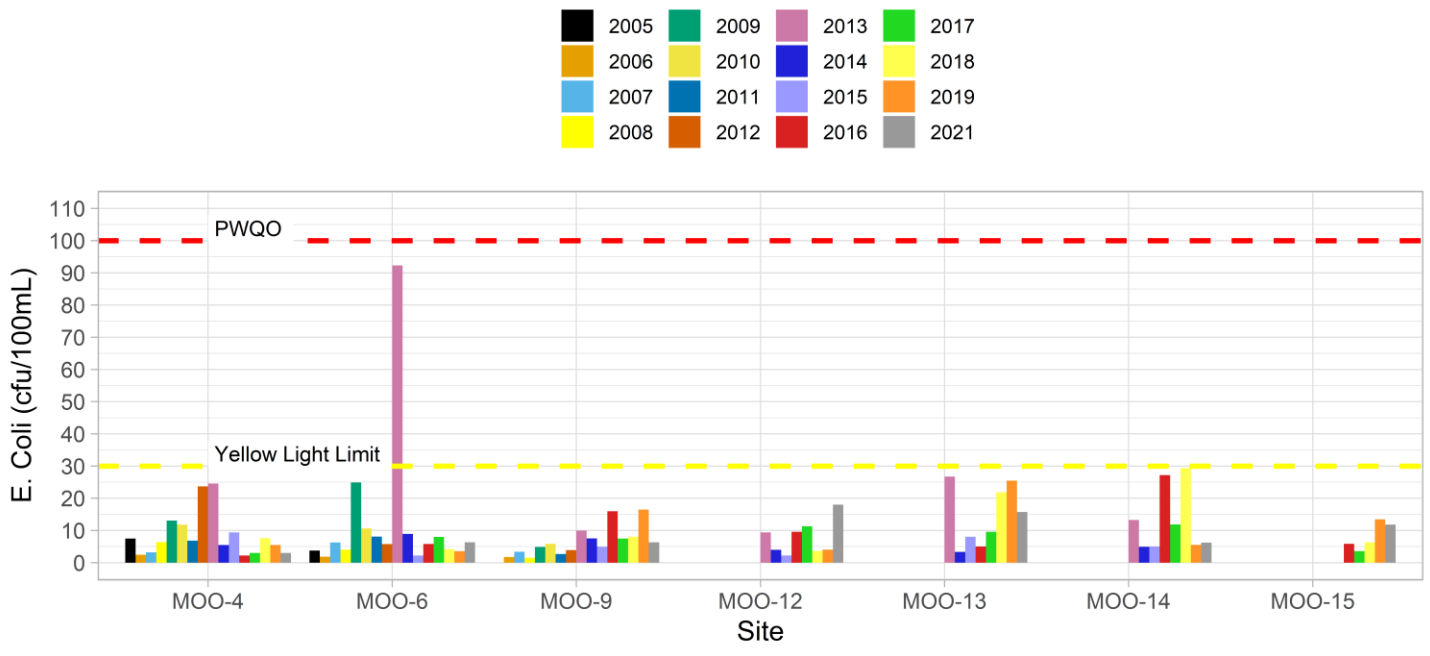
	Mean Secchi Disk (m)	Total Phosphorus ($\mu\text{g/L}$)		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
MOO-1			3.4		
MOO-4		4.5	5.5	3	6
MOO-6		4.0	5.5	6	16
MOO-9		3.4	3.6	6	22
MOO-11	3.2	4.5	4.9		
MOO-12		6.2	7.4	18	31
MOO-13		8.0	10.3	16	12
MOO-14		3.8	5.4	6	105
MOO-15		4.0	4.0	12	11

Phosphorus at MOO-1



Note: Grubbs test indicates spring phosphorus data collected in 2013 are considered an outlier

E. Coli Annual Geometric Mean at Moon River



Annual average phosphorus concentrations at the deep-water station (MOO-1) were below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Spring phosphorus was not collected at MOO-1. Nearshore monitoring of annual average and spring phosphorus concentrations at MOO-4, 6, 9, 11, 12, 13, 14 and 15 were within the range of variability or below values measured during previous monitoring. Average annual Secchi disk depth (3.2 m) was consistent with previous monitoring (3.0 and 4.0 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**