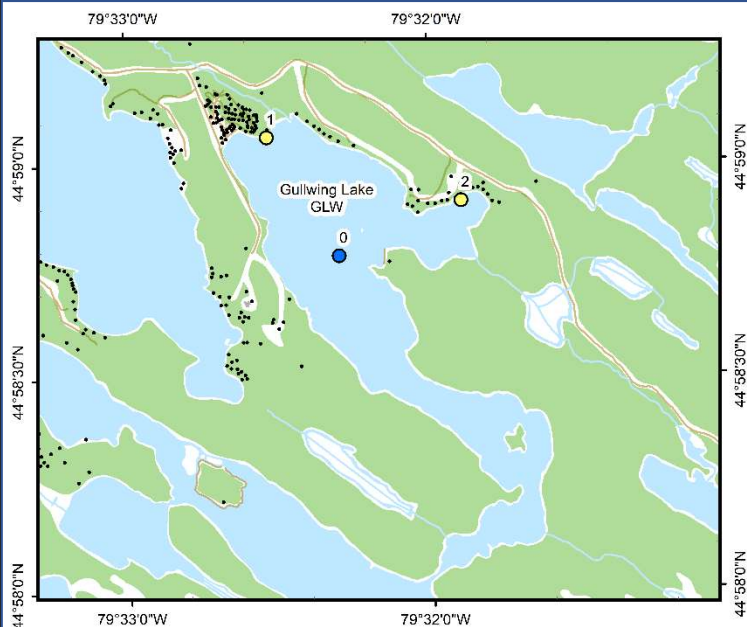




Gullwing Lake (GLW)



Area Description:

Gullwing Lake is located just south of Torrence and has an area of 0.84km² and a maximum depth of 9 m. The watershed area of Gullwing Lake is 5.71 km² includes Crown Land (25%), shoreline residential and a seasonal vacation park located in the northwest. Gullwing Lake is currently listed as moderate sensitivity by the DMM. MLA monitoring of Gullwing Lake began in 2016.

Volunteer Recognition: **Kellie Dobson, Kim Enns, Donna DiLello, and Jim Dobson.**

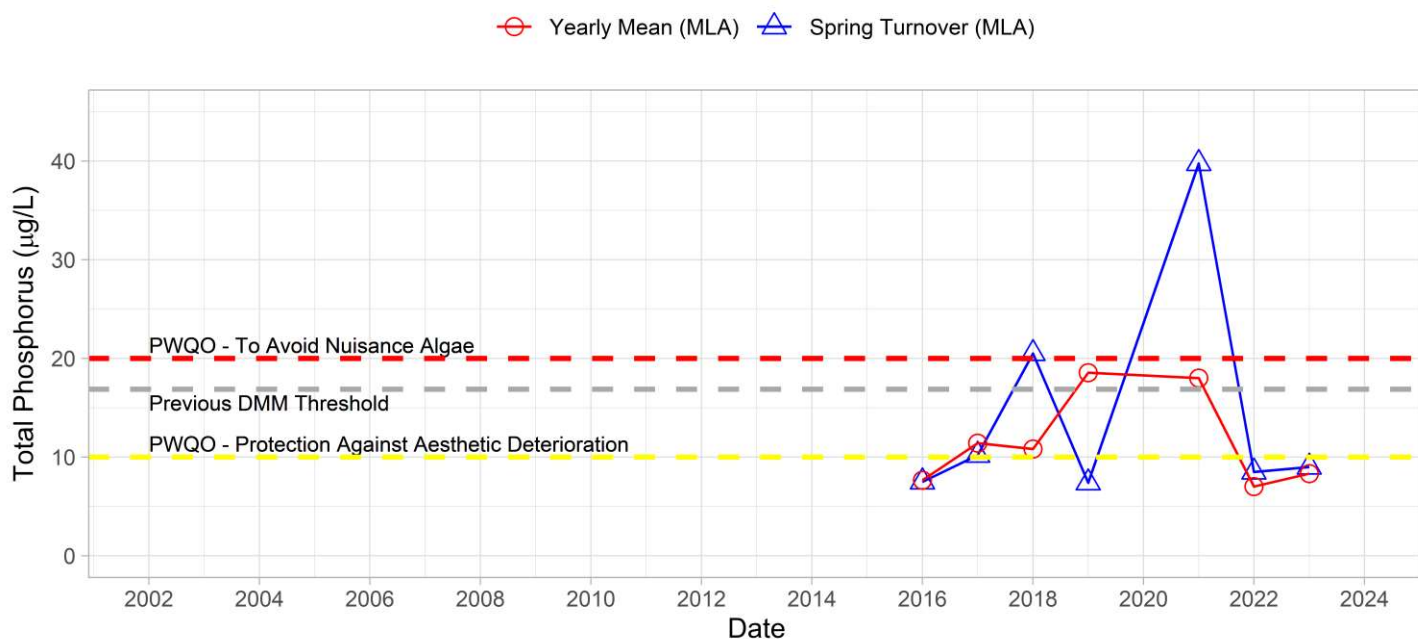
2023 Water Quality Results:

	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		
GLW-0	2.2	9.0	8.3		30*
GLW-1		8.4	8.5	2	42
GLW-2		10.5	12.3	9	28

*Based off a single sample.

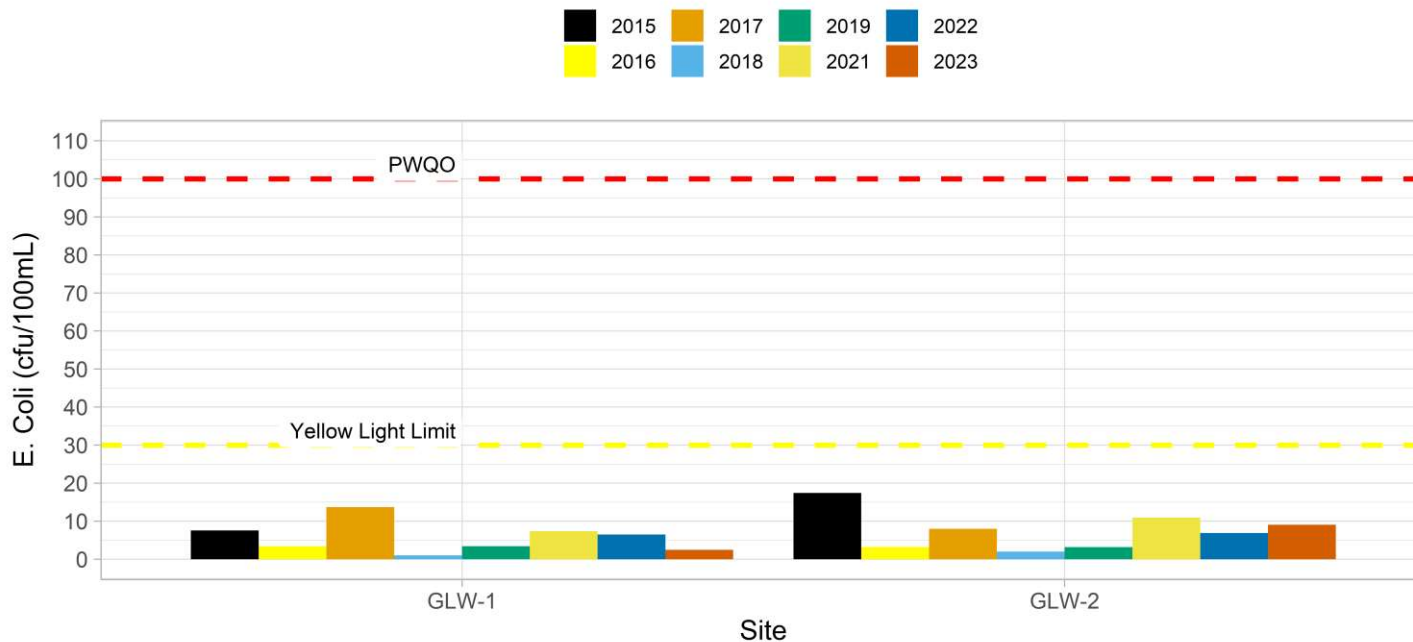


Phosphorus at GLW-0



Note: Grubbs test indicates no outliers in the spring or annual average phosphorus data.

E. Coli Annual Geometric Mean at Gullwing Lake





Hutchinson
Environmental Sciences Ltd.



In 2023, annual average and spring phosphorus concentrations at the deep-water station (GLW-0) were below the historic DMM threshold of 16.89 µg/L, as well as the Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and the guideline for prevention of Nuisance Algal Growth (20 µg/L). Based on spring 2022 and 2023 data it is likely that the extreme value recorded in spring 2021 was the result of sample contamination. Nearshore monitoring of annual and spring phosphorus concentrations at GLW-1 and 2 were within the range of variability of previous monitoring. *E. coli* counts at all stations were below the yellow light trigger established by the MLA. Average annual Secchi disk depth (2.2 m) was consistent with previous monitoring (1.5 – 3.15 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends.**