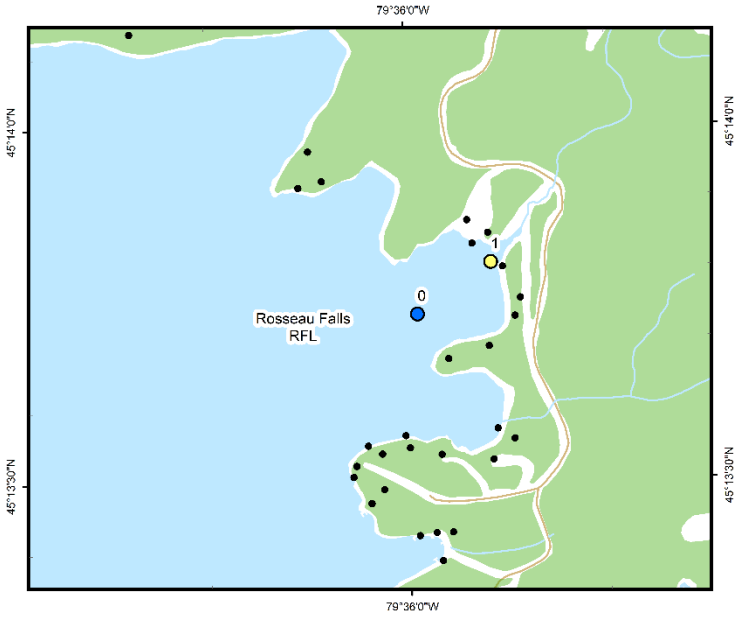
Rosseau Falls (RFL)



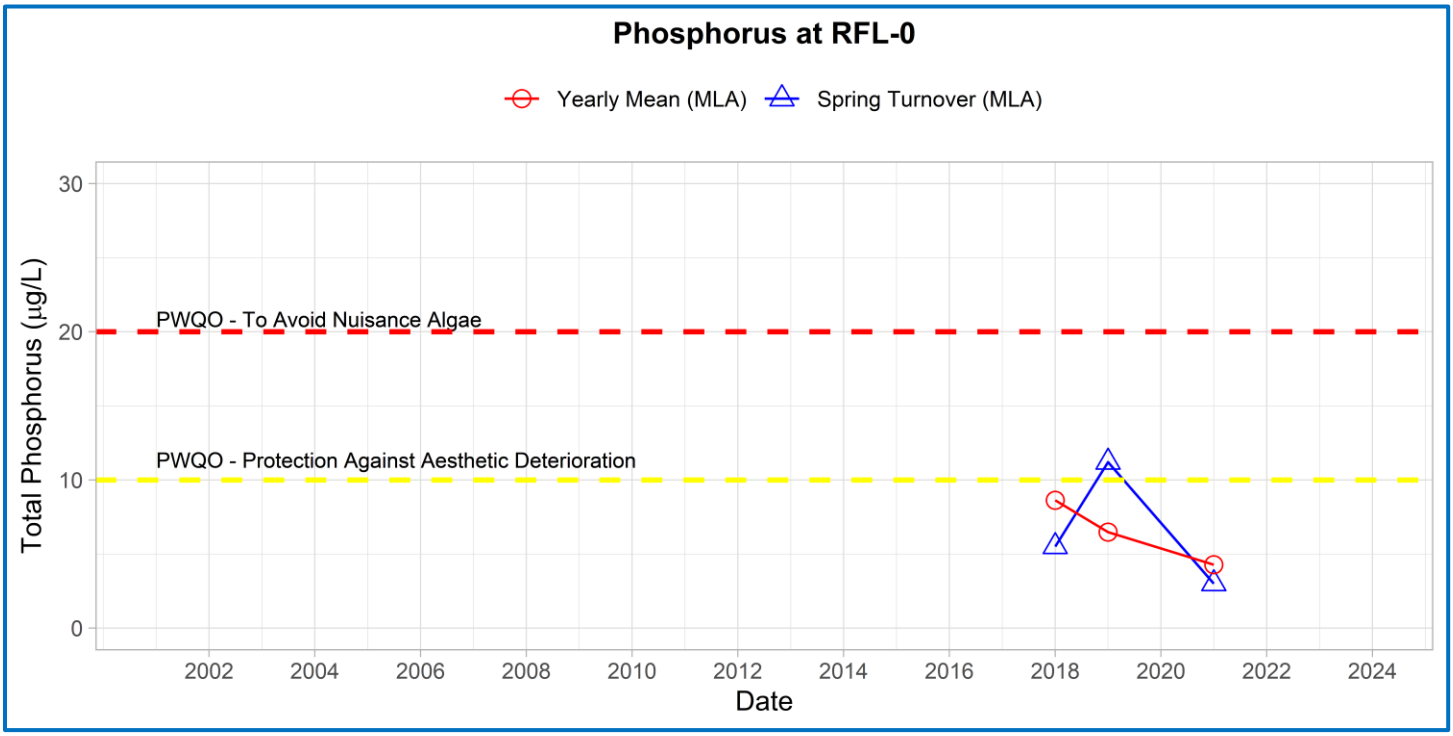
Area Description:

Rosseau Falls is located at the inflow of the Rosseau River to Lake Rosseau. Nearshore sampling at RFL-1 captures inflow from the Rosseau River. The Rosseau River Subwatershed has an area of 130 km^2, 98% of which is identified as natural. Cardwell Lake is the only major water body in the subwatershed with a surface area of 2.1 km^2 and a maximum depth of 21 m. MLA monitoring of the Rosseau Falls began in 2018.

Volunteer Recognition: John & Sue Wessenger.

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		
RFL-0	3.3	3.0	4.3		
RFL-1		4.9	5.8		



Note: Grubbs test indicates data no collected in are considered outliers.

In 2021, annual average and spring phosphorus concentrations at the deep-water station (RFL-0) were below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Nearshore monitoring of annual and spring phosphorus concentrations at RFL-1 were within the range of variability of previous monitoring. Average annual Secchi disk depth (3.3 m) was consistent with the limited previous monitoring (2.9 – 3.5 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**