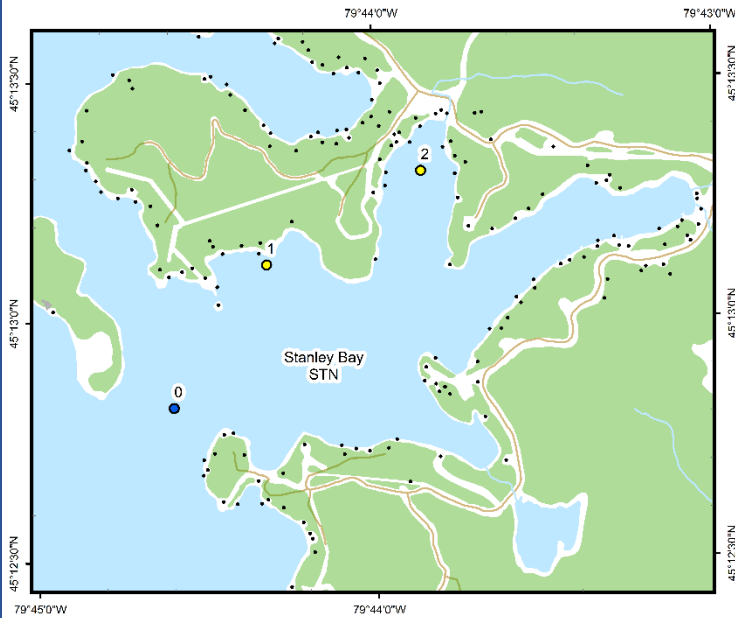




Stanley Bay (STN)



Area Description:

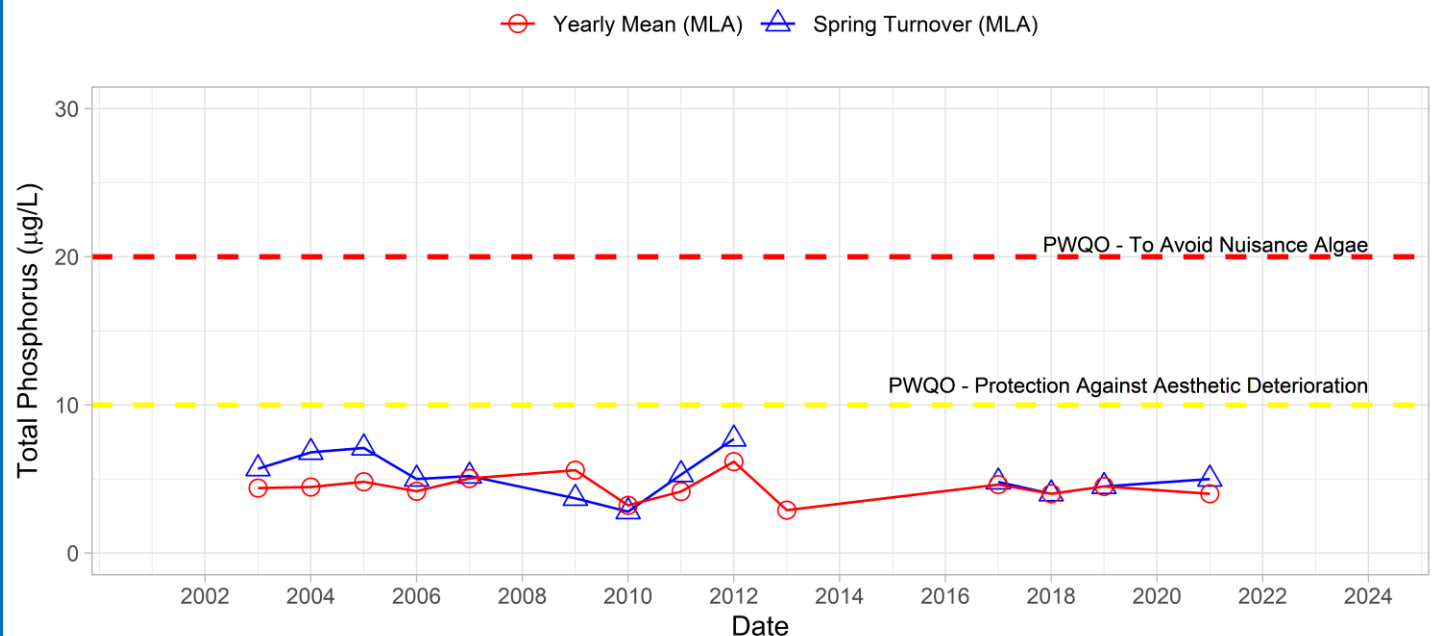
Stanley Bay is a deep-water bay on the north-east side of Lake Joseph. The bay is developed with largely intact forest cover along the shoreline. The bay is surrounded by numerous roads and a moderate level of residential development, and agricultural development which could negatively impact water quality.

Volunteer Recognition: Alex Magditsch, Cecil Hayhoe.

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		
STN-0	5.9	3.6			
STN-2		3.8			

Phosphorus at STI-0



Note: Grubbs test indicates 2011 data for spring total phosphorus was an outlier.



The spring 2011 phosphorus sample at STN-0 was identified as an outlier (29.1 µg/L) and was significantly higher than any phosphorus measurement recorded historically at the site. This value is suspected to be a result of sample contamination and therefore has been eliminated from the results in 2021 but retained in the long-term dataset for future consideration as additional data are collected. All measured phosphorus concentrations in 2021 were below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Monitoring of spring phosphorus concentrations at STN-2 was within the range of variability of previous monitoring years. Average annual Secchi disk depth (5.9 m) was consistent with previous monitoring (3.75 - 8.0 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**