



Area Description:

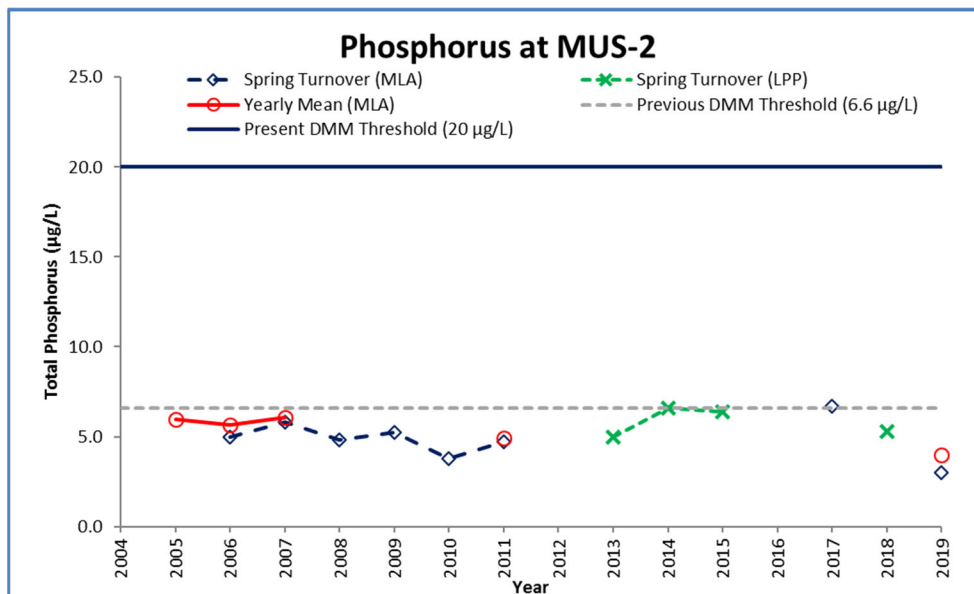
Dudley Bay is located in eastern Lake Muskoka, and is approximately 3.6 km² in size with a maximum depth of 20 m. It is considered moderately developed, with primarily residential properties and several roads, including Highway 169, that are in close proximity to the shoreline. Several creeks and wetlands drain into the bay, including that from the cranberry marsh. Dudley Bay was historically classified as moderately sensitive by the DMM. Monitoring started in 2005.

Volunteer Recognition: Eleanor Lewis, Kim Seon and Jim Lewis.

Dudley Bay (DUD-1 & MUS-2)

2019 Water Quality Results: (Note: Hatched cell signifies not tested for in 2019)

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)
		Spring Turnover	Yearly Mean		
DUD-1		6.6	8.6		
MUS-2	3.0	3.0	4.0		



Summary and Recommendations:

Phosphorus results remain generally below the historic 6.6 µg/L DMM threshold and all readings remain well below the present DMM threshold (20 µg/L). The spring and mean phosphorus results at DUD-1 remain generally consistent through the years. Secchi measurements vary through sampling years, ranging between 2.50 and 4.75 m (2010). **Beacon recommends that the MLA rely on the Lake Partner Program data when it is available, otherwise the MLA should continue to monitor this location to analyse long-term trends.**