



Area Description:

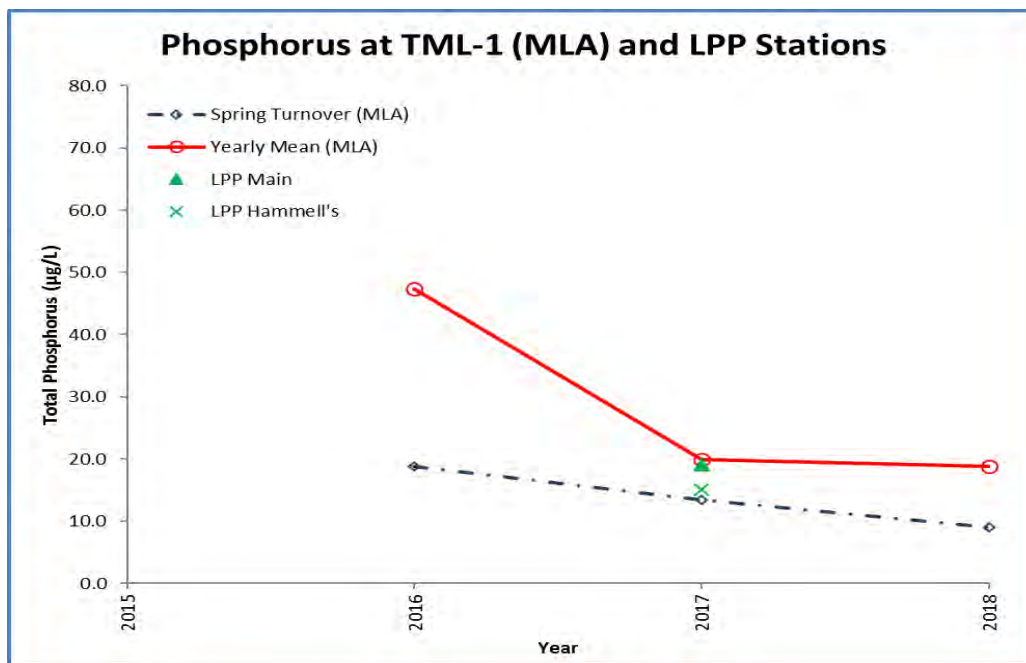
Three Mile Lake is a mesotrophic lake. The Three Mile Lake Watershed covers approximately 14,600 ha and includes portions of the Township of Muskoka Lakes, Town of Huntsville, and Town of Bracebridge. The Three Mile Lake Watershed is 3% Crown land and 97% privately owned and is atypical within the Muskoka region as it supports a comparatively large agricultural community (8% of the watershed area). Three Mile Lake consists of a shallow main basin and a deeper bay (Hammell's Bay). Monitoring started in 2016. All stations shown may not be sampled each year.

Volunteer Recognition: Rob Fullerton, Paul Voulgaris, Lesley Melliship, and Al Holley.

Three Mile Lake (TML)

2018 Water Quality Results: (Note: Hatched cell signifies not tested for in 2018)

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)	DOC Yearly Mean
		Spring Turnover	Yearly Mean			
TML-1		9.0	18.8			23.3
TML-2		30.0	40.8			13.0
TML-3		29.0	21.3			10.4
TML-4		17.0	17.5			10.3



Summary and Recommendations:



The 2018 spring phosphorus concentration as well as the yearly phosphorus means at TML-1 and TML-4 were the lowest recorded to date (3 years of data). The 2018 spring phosphorus and yearly phosphorus mean at TML-3 were the highest recorded to date, resulting from the high spring recording (29.0 $\mu\text{g/L}$) in May 2018. The spring phosphorus at both TML-2 and TML-3 was $>20\mu\text{g/L}$, causing TML to be classified as yellow in 2018. DOC was sampled for at TML-1, TML-2, TML-3 and TML-4 and is discussed in Section 3.3. **Beacon recommends that sampling continue to monitor long-term trends.**