



### Area Description:

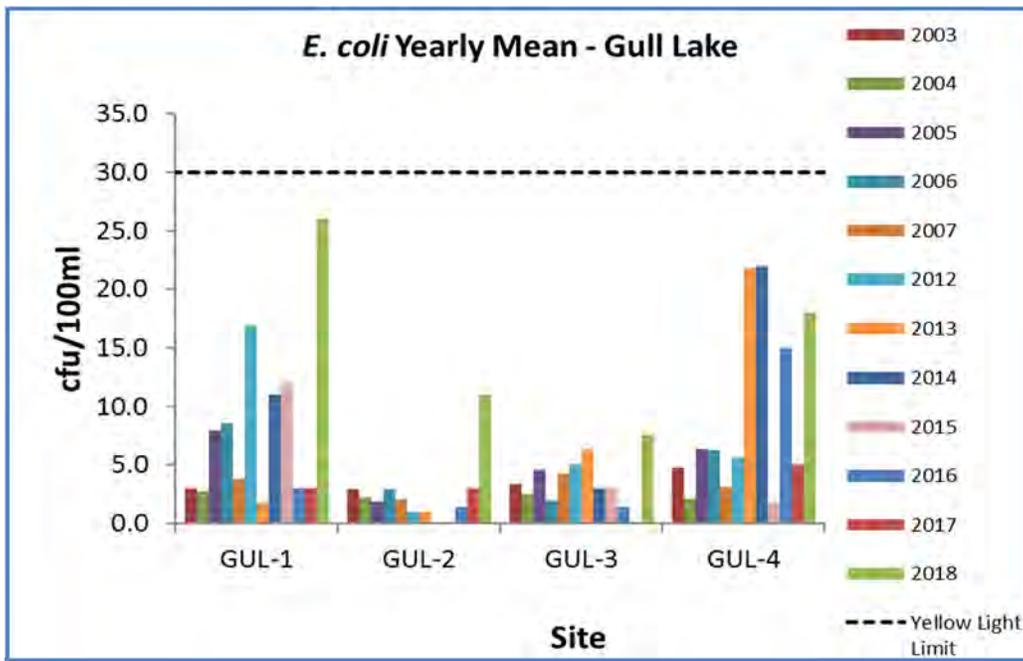
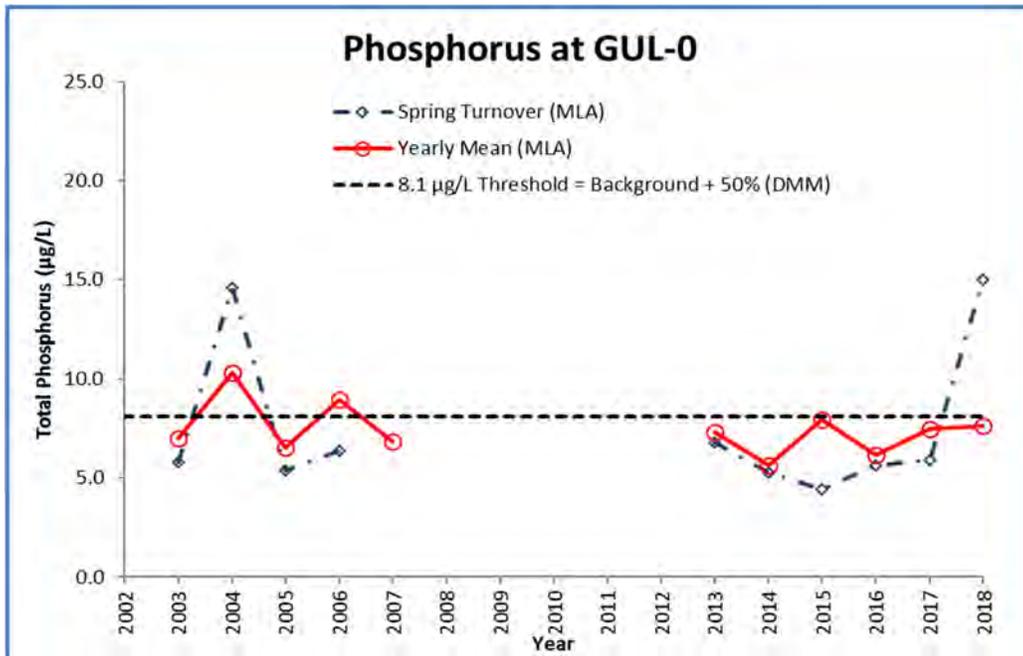
Gull Lake is in the Town of Gravenhurst. Highway 11 crosses Gull Lake at its midpoint. The lake is approximately 1.35 km<sup>2</sup> in area, with a maximum depth of 7 m. Gull Lake is fed directly from Silver Lake at its south end with an additional nine creeks outletting into the lake. The Gull Lake watershed is approximately 3.6 km<sup>2</sup> in size. Gull Lake is classified as moderately sensitive by the DMM. Monitoring started with the original program in 2003. All stations shown may not be sampled each year.

**Volunteer Recognition: Bruce Elliott, Peter Elliott, Ross Elliott and Anne Elliott.**

## Gull Lake (GUL)

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)
		Spring Turnover	Yearly Mean		
GUL-0	3.7	15.0	7.7		
GUL-1				26	100.4
GUL-2				11	71.7
GUL-3				7.5	65.1
GUL-4				18.0	74.0



**Summary and Recommendations:**



The spring turnover at the deep station (GUL-0) in 2018 was above the historic DMM threshold of 8.1 µg/L and was the highest recorded to date. Phosphorus levels show an increasing trend in the last 3 years, changing the stoplight from green to yellow. Using Grubb’s Test for outliers, the spring 2004 phosphorus sample at GUL-0 was no longer an outlier in 2018. The yearly phosphorus mean was consistent with values recorded through the years at GUL-0. *E. coli* counts have continued to be well below the MLA stoplight limits, however levels increased in 2018 (details in report Section 3) at all four nearshore sites. Re-tests were required at GUL-1, however these were not completed. The Secchi depths remain stable through the years and measurements have ranged through sampling years, varying between 2.5 and 4.8 (recorded in 2016). **Beacon recommends sampling be continued to monitor long-term trends at all sites.**