



Area Description:

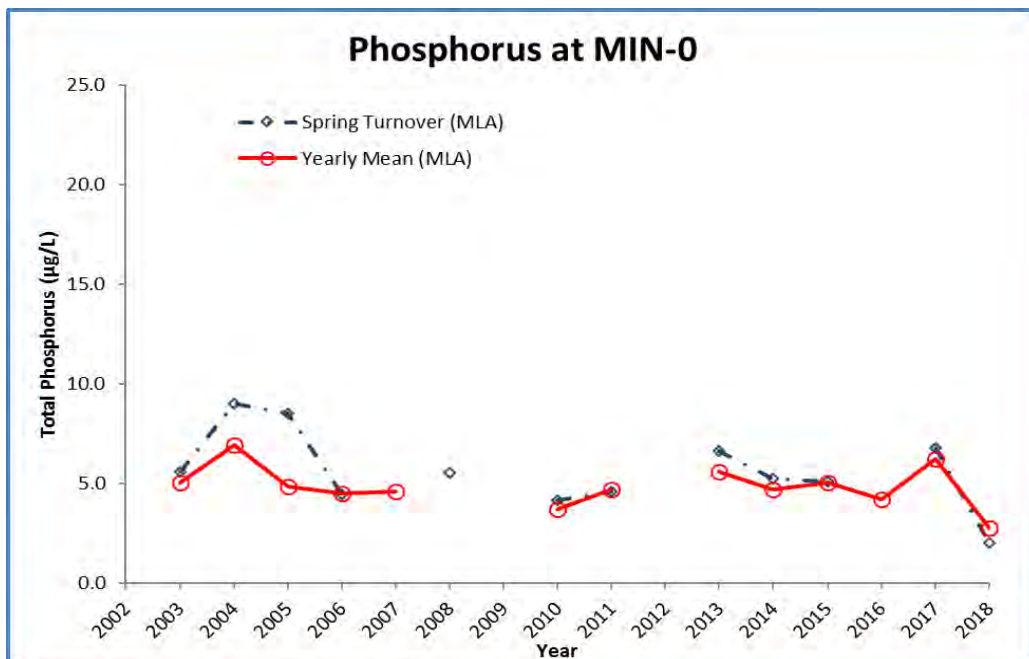
The village of Minett is located in western Lake Rosseau, and has four sampling sites. Sampling sites were selected with the intention of monitoring the potential effects of high intensity development in this bay. The area contains two large resorts with golf courses, several roads, a marina, and many private residential properties. There is one wetland adjacent to the lake and several other small ones in the area of the bay. Monitoring started with the original program in 2003. All stations shown may not be sampled each year.

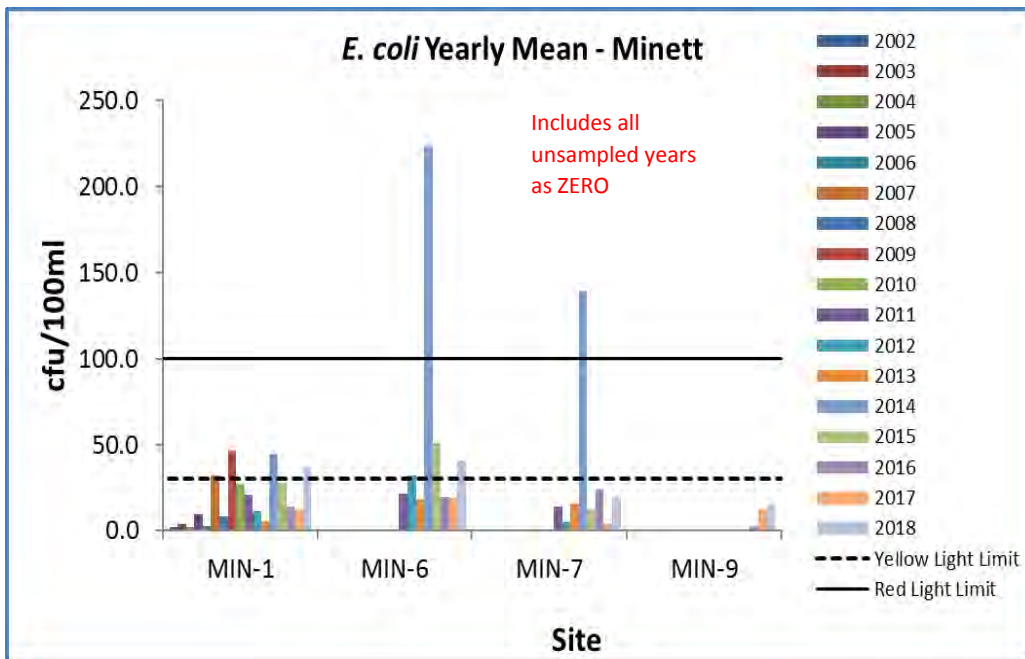
Volunteer Recognition: Laurie Thomson, Greg Thomson, Esper Thomson and Taylor Thomson.

Minett (MIN)

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			
MIN-0	3.9	2.0	2.8			
MIN-1		3.0	3.0	37.2	169.0	
MIN-6		10.0	11.5	40.7	223.5	
MIN-7		8.0	6.8	19.6	163.2	
MIN-9		5.0	5.0	14.4	184.1	





Summary and Recommendations:



Yearly mean and spring phosphorus concentrations at the deep station (MIN-0) were the lowest recorded to date. Using Grubb's Test for outliers, the spring 2016 phosphorus sample at MIN-0 was identified as an outlier and was removed from the graph and yearly average for 2018. The 2018 spring phosphorus concentration as well as the yearly phosphorus means at MIN-1 and MIN-6 were the lowest recorded to date. The yearly phosphorus means at MIN-7 was the highest of 8 years recorded to date, resulting from a high recording (15.0 $\mu\text{g/L}$) in June 2018. The yearly mean *E. coli* results at stations MIN-7 and MIN-9 were below the MLA stoplight limits (details in report Section 3), however at stations MIN-1 and MIN-6 they were slightly above the MLA yellow light limit. Retesting was required for MIN-1, MIN-6, MIN-7, and MIN-9. The 2018 mean Secchi measurement was the lowest measured to date at 3.9 m. **Beacon recommends sampling continue to monitor long-term trends.**