



Area Description:

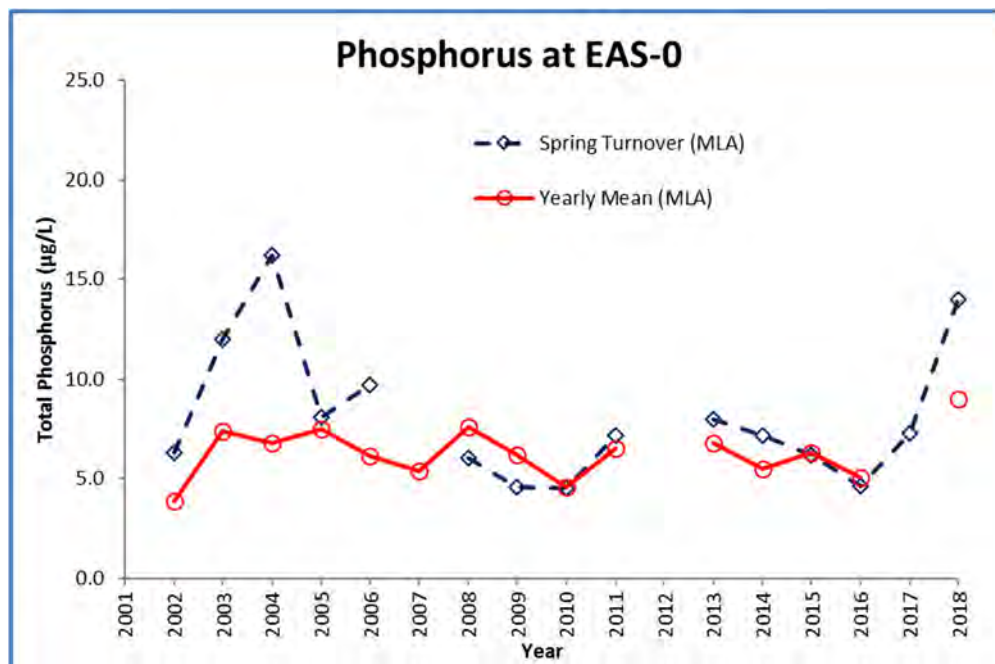
East Bay is in the western portion of Lake Muskoka and is part of Hardy Lake Provincial Park. This is a low development area with very few cottages/residences and few access roads. Several long narrow bays form the drainage area where five creeks outlet into the main bay from the park. These creeks also drain wetland areas into East Bay. Monitoring started in 2002. All stations shown may not be sampled each year.

Volunteer Recognition: Jan Getson, Jeff Hall, and Gary Getson.

East Bay (EAS)

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		
EAS-0	4.0	14.0	9.0		
EAS-2		15.0	6.8		
EAS-4		14.0		5	87



Summary and Recommendations:



Spring phosphorus concentrations at EAS-0 (14.0 $\mu\text{g/L}$) showed an increase in 2018, however it remained below the 2004 high concentration of 16.2 $\mu\text{g/L}$. The yearly phosphorus mean at EAS-0 also increased because of the high spring phosphorus. Phosphorus levels show an increasing trend in the last 3 years, changing the stoplight from green to yellow. Although the spring phosphorus level at EAS-2 was also the highest to date, low concentrations (≤ 5.0 $\mu\text{g/L}$) in the remainder of 2018 produced the lowest yearly phosphorus mean in the last 5 years for this same station. EAS-4 was a new station in 2017 and the 2018 spring phosphorus measurement was well above that of 2017 (6.0 $\mu\text{g/L}$). Secchi measurements remain stable through sampling years, varying between 2.6 and 5.5. **Beacon recommends continued sampling to monitor long-term trends.**