

Area Description:

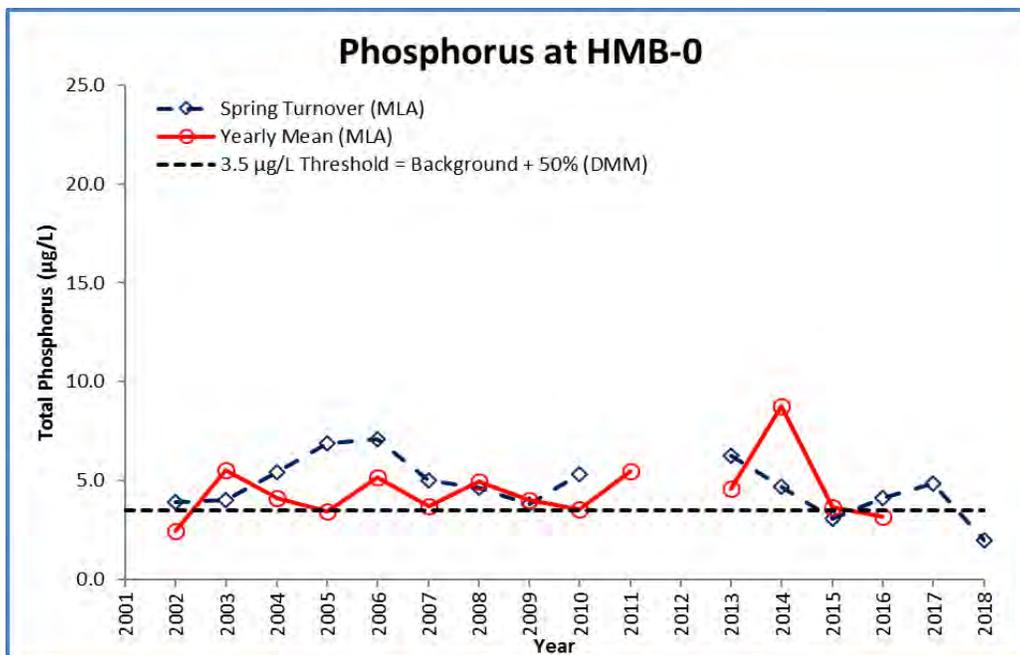
Hamer Bay is a large bay in the northern part of Lake Joseph. This bay receives drainage from a variety of natural and anthropogenic sources. There are three creeks that outlet into the bay, one flows through a large golf course and wetland in the north, and the others through smaller lakes and wetlands. There is a large marina with several parking lots, a resort, and many residential properties along most of the available shoreline. The main basin of Lake Joseph is classified as highly sensitive by the DMM. All stations shown may not be sampled each year.

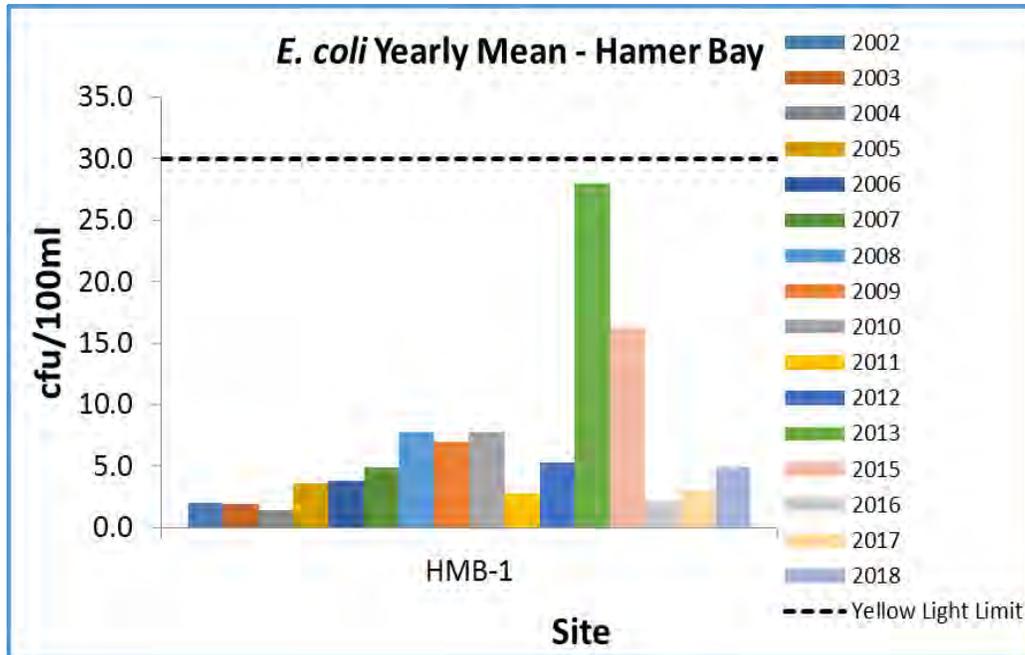
Volunteer Recognition: Alex Magditsch, Cecil Hayhoe, John Offutt, Juliana Magditsch, and Lynda McCarthy.

Hamer Bay (HMB)

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

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		<i>E. coli</i> Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)	DOC Yearly Mean
		Spring Turnover	Yearly Mean			
HMB-0	6.4	2.0				
HMB-1		2.0	2.8	4.9	34.6	
HMB-2		24.0	8.5			
HMB-4			4.6	2.3	9.2	
HMB-8		3.0	21.0			





Summary and Recommendations:

Spring phosphorus at HMB-0 in 2018 was well below the historic DMM threshold of 3.5 ug/L, and the lowest recorded to date. Only one phosphorus sample (spring) was collected in 2018, therefore no yearly mean could be calculated, and no value is reported for 2018. The spring phosphorus sample at HMB-0 in 2011 remains removed from the analysis following the Grubb's Test analysis for outliers in 2018. The 2018 spring phosphorus concentrations at HMB-1 and HMB-8 were the lowest recorded to date. As well, the yearly phosphorus mean at HMB-1 was the lowest recorded and at HMB-8 was the second lowest recorded to date. On the contrary, HMB-2 had the highest recorded spring phosphorus and yearly phosphorus mean values to date. Bacterial counts of *E. coli* at HMB-1 remain well below the MLA stoplight limits (details in report Section 3). Secchi measurements vary through sampling years, ranging between 3.3 and 8.0. **Beacon recommends sampling continue to monitor long-term trends.**