



Area Description:

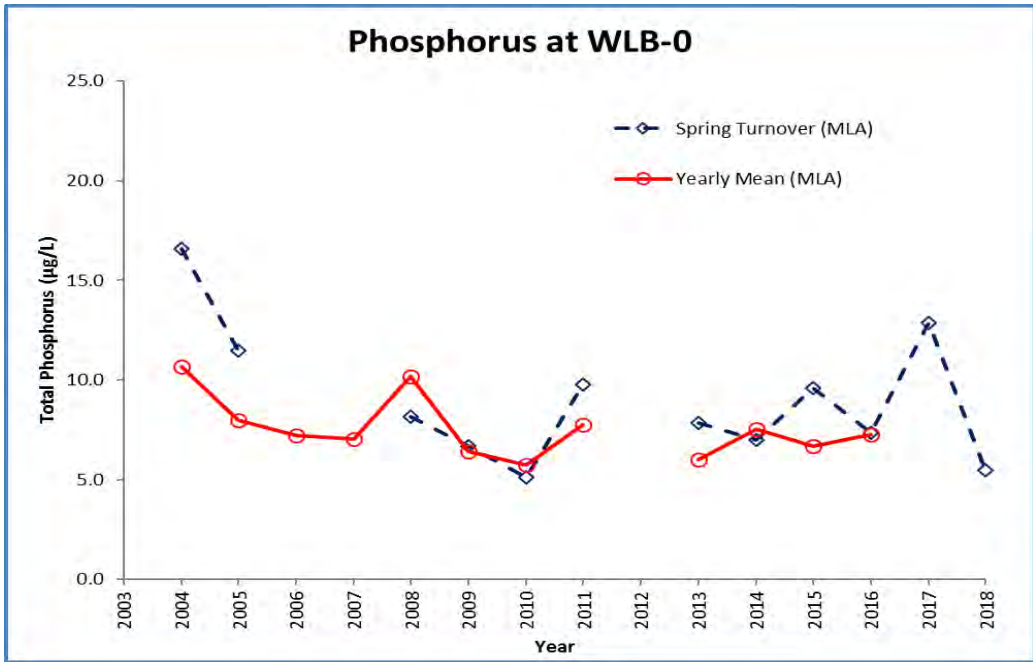
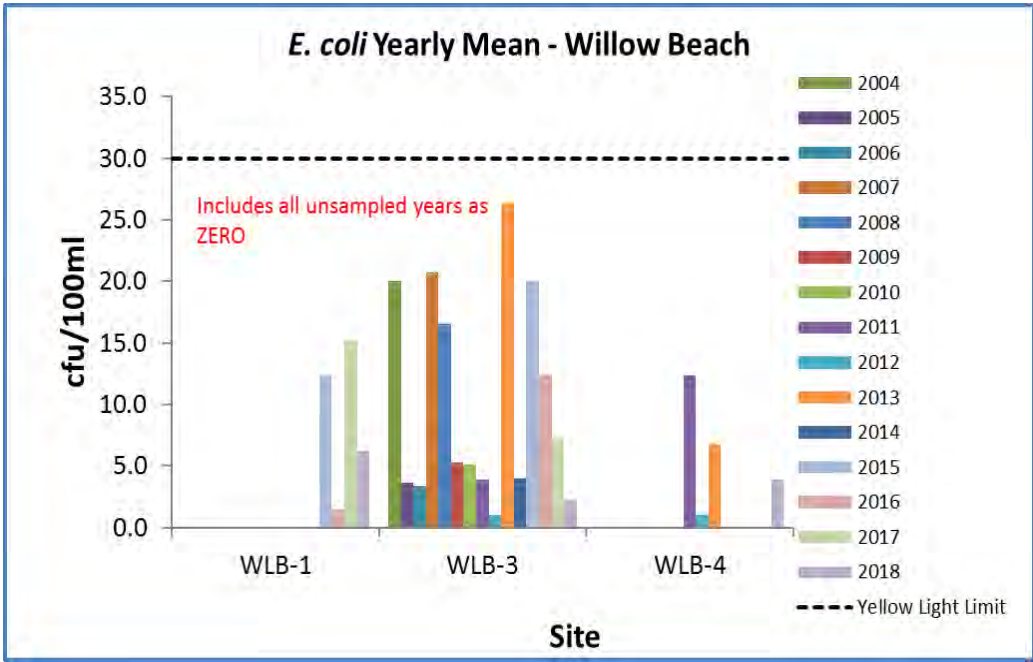
The Willow Beach sampling area encompasses a highly developed section of shoreline. There is a newly re-developed resort complex, a wetland with a creek flowing through a nine-hole golf course and several larger properties with limited retained forest cover. Highway 118 is in close proximity to the shoreline along much of this reach. Monitoring started in 2004. All stations shown may not be sampled each year.

Volunteer Recognition: Chris Cragg, Murray Walker, Louise Cragg, and Emila Brittain.

Willow Beach (WLB)

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			
WLB-0	3.2	5.5				
WLB-1		4.0	6.5	6.2	58.7	
WLB-3		17.0	14.3	2.2	31.5	
WLB-4		11.0	18.5	3.9	108.8	



Summary and Recommendations



The spring turnover phosphorus level at the deep station (WLB-0) has been variable through the sampling years, and in 2018, was the second lowest concentration to date. Using Grubb's Test for outliers, the spring 2006 phosphorus sample was identified as an outlier and remains out of the dataset in 2018. Only one spring phosphorus sample was collected in 2018, therefore no yearly mean could be calculated, and no value is reported for 2018. The 2018 spring phosphorus concentrations at WLB-1 and WLB-3 were the lowest recorded to date. Additionally, the yearly phosphorus mean at WLB-4 was the highest recorded to date, resulting from high concentrations in June and July. The *E. coli* levels at WLB-1 and WLB-3 remain well below the MLA stoplight limits (details in report Section 3). Secchi measurements are considerably variable through sampling years, ranging between 0.84 and 6.50. **Beacon recommends that sampling continue to monitor long-term trends, particularly at WLB-4.**