



Area Description:

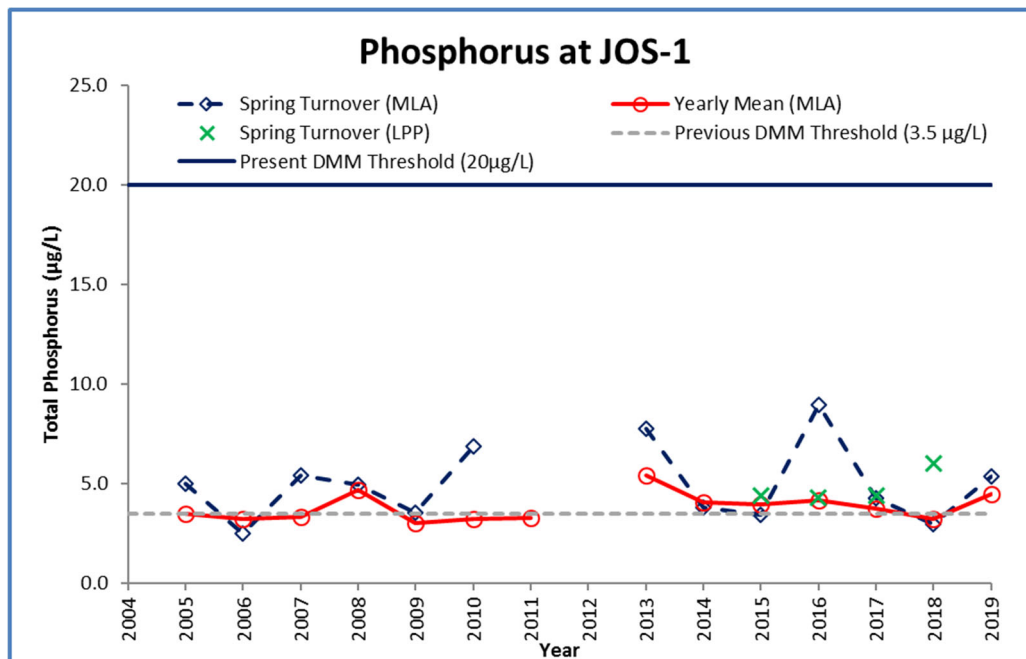
Lake Joseph is a large lake with a surface area of 50.9km² and water depths of up to 94 m. Wetlands account for a small portion of the lake area at about 5%. The lake has various points of inflow and outflow, with drainage from north to south. The Lake Joseph watershed area is 55 km² and has a coldwater fishery. The main basin of the lake was historically classified by the DMM as highly sensitive. Monitoring started in 2005.

Volunteer Recognition: Alex Magditsch, Cecil Hayhoe, John Offutt, Juliana Magditsch, Lynda McCarthy, Barb Butler, Paul Tyers and the Lake Partnership Program.

Lake Joseph (JOS)

2019 Water Quality Results: (Note: Hatched cell signifies not tested for in 2019)

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		
JOS-1	5.5	5.4	4.5		



Summary and Recommendations:

The spring phosphorus level at JOS-1 was above the historic DMM threshold of 3.5 ug/L, and all readings remain well below the present DMM threshold (20 µg/L). The yearly phosphorus mean has remained consistent through the sampling years. Lake Partner Program spring phosphorus data was available in 2015-2018. Secchi measurements vary through sampling years between 3 and 7.75 (2008, 2009, 2010). **Beacon recommends sampling continue to monitor long-term trends.**