

# 2016

## Water Quality Initiative Report





### Area Description:

The Moon River is the main outlet of the Muskoka Watershed, flowing from Lake Muskoka to Georgian Bay. The river receives overland drainage from the Town of Bala and its urban area, including many roads and the developed shoreline. Approximately 12 creeks outlet into this sampling area, several of which drain wetlands.

**Volunteer Recognition:** Bruno Polewski, Cathy Malcomson, Frida Ardal, Jessica Ylanko, Hannu Ylanko, Joa Roth, and Allan Turnbull.

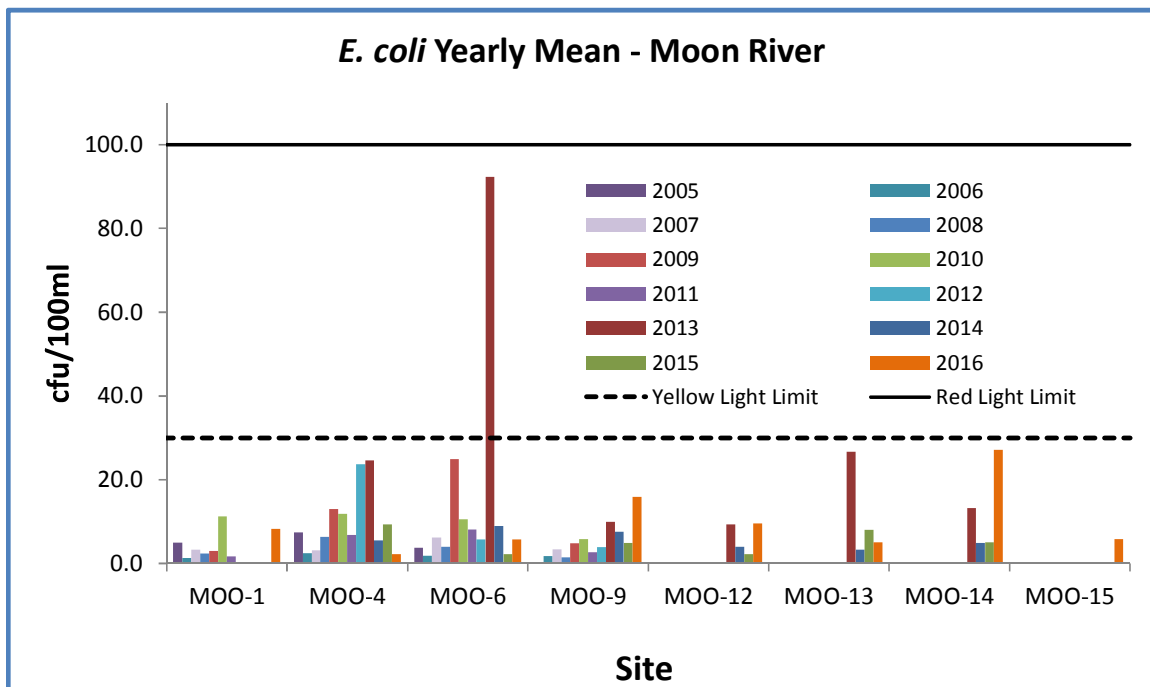
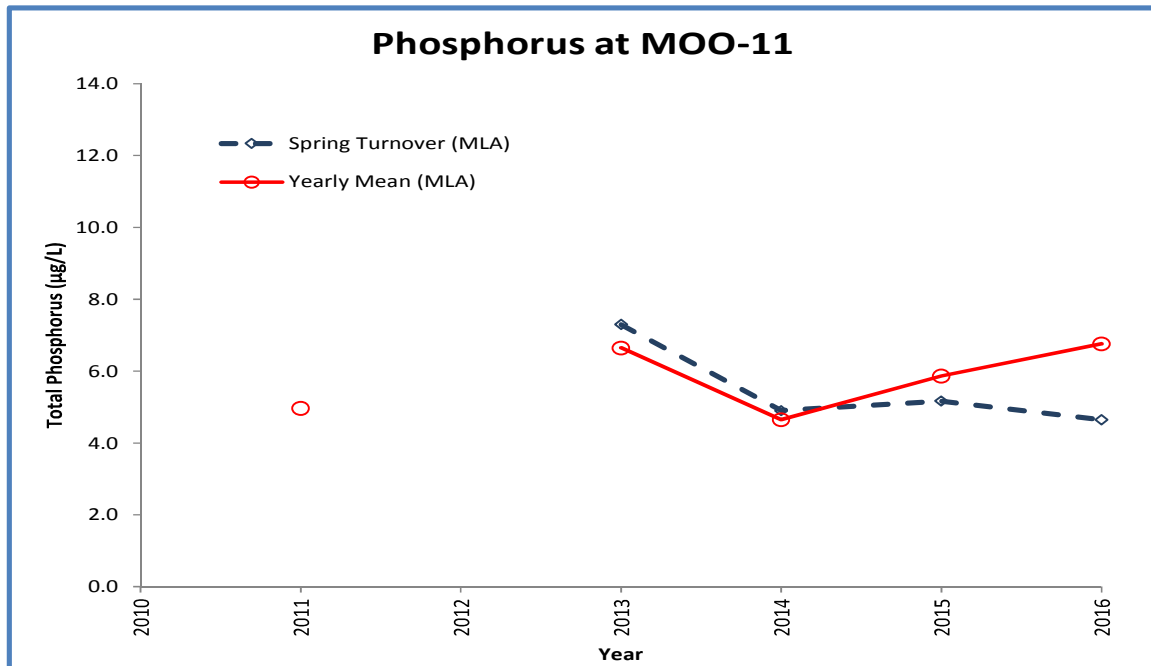
## Moon River (MOO)

**2016 Water Quality Results:** (Note: Hatched cell signifies not tested for in 2016)

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)
		Spring Turnover	Yearly Mean		
MOO-1		5.7	6.5	8.3	7.9
MOO-4		7.3	7.4	2.2	54.9
MOO-6	4.50*	4.7	5.8	5.8	43.3
MOO-9		3.7	5.4	15.9	63.7
MOO-11	3.48	4.7	6.8		
MOO-12		8.6	7.7	9.6	55.3
MOO-13		7.2	7.7	5.0	70.2
MOO-14		4.7	5.5	27.2	50.5
MOO-15		6.3	6.0	5.8	51.9

\* only 1 depth collected





## Summary and Recommendations:



Yearly mean phosphorus concentrations at MOO-11 in 2016 were the highest recorded to date. A new station MOO-15 was sampled for phosphorus and bacteria. Spring turnover phosphorus concentrations in 2016 were down at MOO-1, MOO-6, MOO-9, MOO-11, MOO-13 and MOO-14 and increased at MOO-4, MOO-12 and MOO-15 compared with 2015 results. Sampling at MOO-10 was discontinued for 2016 and one new station was sampled for bacteria in 2016 (MOO-15). *E. coli* levels were all below the MLA stoplight limits (details in report Section 3) in 2016. **Beacon recommends that all sampling be continued to monitor long-term trends.**