

## Troy Lake Water Report – 2016

### Phosphorous Concentration in µg/litre . (2006-2016)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>May</b>	13.6	20.3	18.6	25.2	19.2		14	29.9	21.5	24.7	17.4
<b>June</b>	17.5	18.7	20	42.2	26.7	21.3	20.5	19.5	29.4	29	17.2
<b>July</b>	20.2	18.1	26.6	35.7	32	24.6	38.6	20.8	30.6	22.8	20.8
<b>Aug.</b>		23.9	35.7	44.3	53.4	32.9	27.6	32.3	27.2	24.2	22.5
<b>Sept.</b>	47.5	35	38.8	35.6	51.2	52.5	40.8	41.2	36.9	38.9	29
<b>Oct.</b>		32.5	32.9	30.4	72.5	26.3	34.6	45.3	54.2	31.7	31.2
<b>Avg.</b>	<b>24.7</b>	<b>24.75</b>	<b>28.7</b>	<b>35.5</b>	<b>42.5</b>	<b>31.52</b>	<b>29.35</b>	<b>31.5</b>	<b>33.3</b>	<b>28.5</b>	<b>23</b>

### Secchi Disc Depth (clarity in meters per season over the 6 sample months)

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
2.2	2.2	1.7	1.3	1.6	1.4	1.5	1.6	1.38	1.7	1.7

### Summary

*TROY LAKE is considered an Eutrophic Lake (enriched - higher levels of nutrients).*

2016 average phosphorous readings are the best in the last 10 years!!! (still enriched but okay for a shallow spring-fed lake with low turnover)

The average Secchi disc reading of 1.7 m matches last year.

Weather, and water conditions may affect the results slightly.

### Blue Green Algae

The growth of algae in the water depends on nutrients such as phosphorus and nitrogen. A certain level of algae is desirable; it supports fish populations and other aquatic life. However, the introduction of excess phosphorus and nitrogen leads to excess algae growth, and instead of nurturing a lake, it chokes it. **(Please don't fertilize your lawns)** Improved agricultural methods and proper home environmental maintenance (properly maintained septic system, non use of fertilizers, non-use of phosphorus containing detergents) will over time, improve the water quality of our lakes.

It is best to be cautious when an algae bloom is present.

It is important that anyone on the lake can report an Algae-bloom to the Ministry of the Environment and they will have the bloom sampled.

**CALL 1-800-268-6060**

