

2015 WATER QUALITY SUMMARY

SECCHI DISK CLARITY

The clarity and temperature measurements are taken weekly from mid-May to mid-September. The average of the weekly clarity measurements taken for 2015 was **6.7 feet**. The average for the summer of 2014 was **7.7 feet**. The 10 year average is **7.3 feet**. The average water temperature mid-lake over the summer was **67.8 deg. F**. This compares to a 10 year average of 68.4 deg. F As indicated by the trend line on the graph, there has been a trend to greater annual average clarity in the lake over the past 13 years.



PHOSPHOROUS TESTING

The spring result is thought to be a good estimate of the average phosphorus concentration in the lake. Testing will begin in May. The 10 year average spring concentration is **24 ppb**. (parts per billion)

The 2015 Fall phosphorus result was **39 ppb**. This compares to the 2014 concentration of **40 ppb**. The 10 year average is **33.9 ppb**.

CHLOROPHYLL A TESTING

This test is intended to help determine the relative amount of algae in the lake by measuring chlorophyll concentrations. The median for 2015 was **7.4 ppb** compared to a median of **2.0 ppb** for 2014. The average of the median values for Chlorophyll A concentration over the past 10 years is **5.4 ppb**.

Even though the reported chlorophyll concentrations were higher throughout the summer than those of 2014, the bloom that occurred did not fully develop until after Labor Day and did not reach the highest levels until after our clarity testing for the year was completed. Samples for toxins from the blue green component of the algae bloom were not taken.