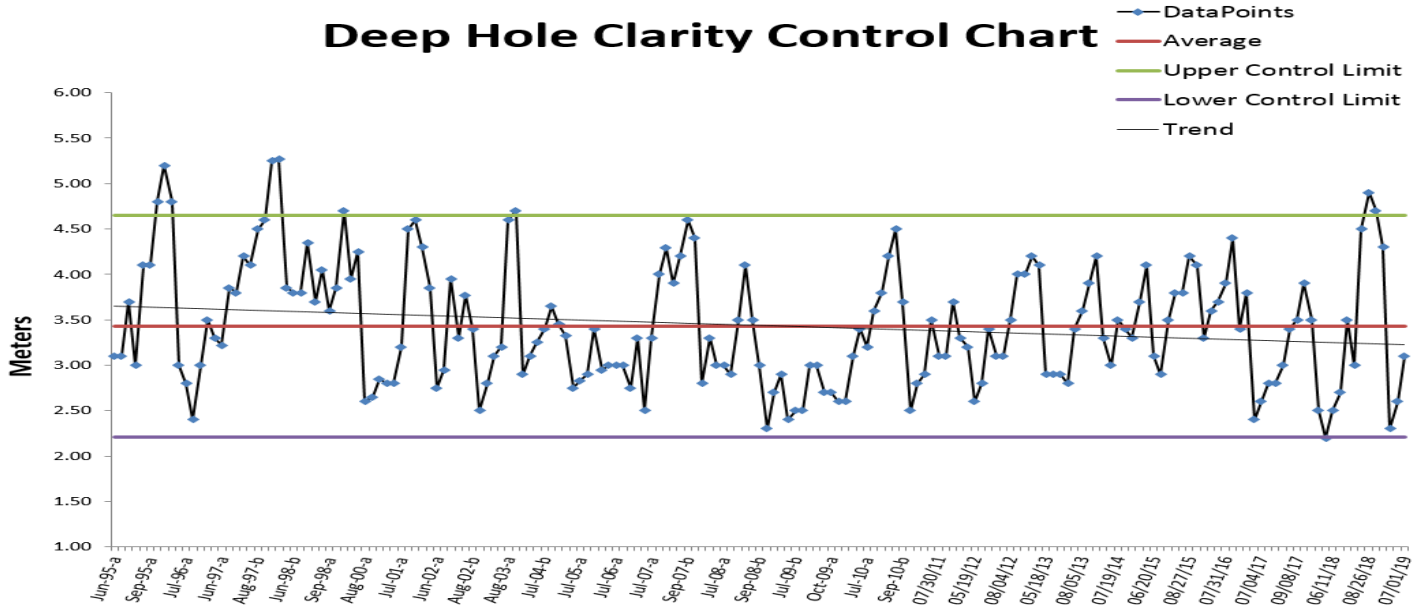
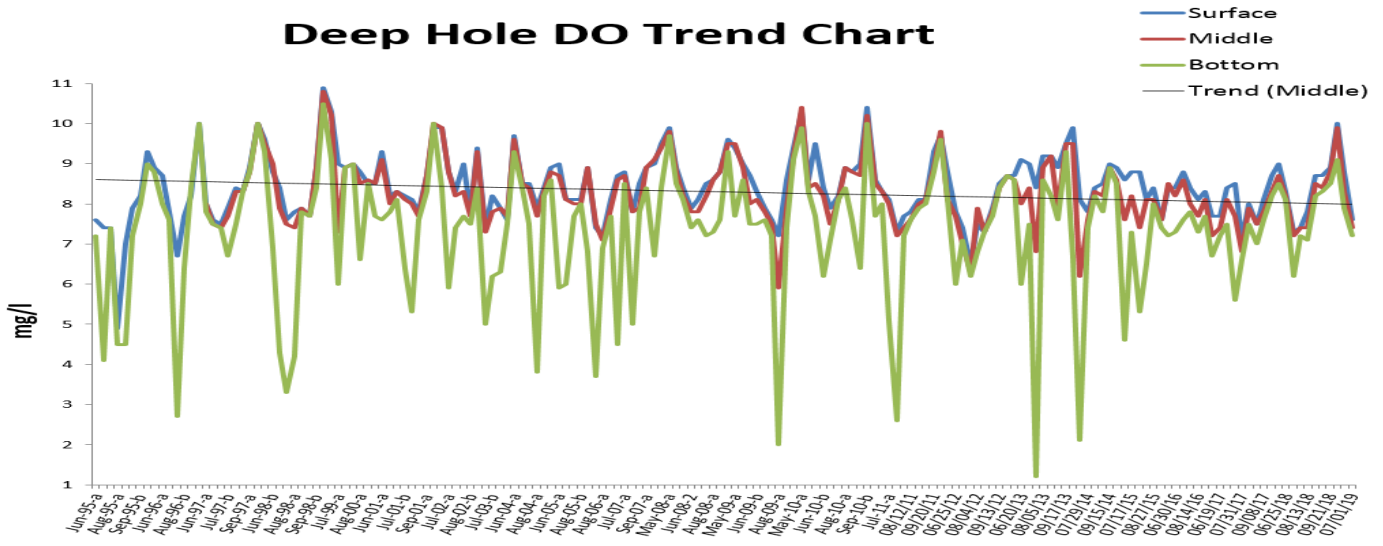


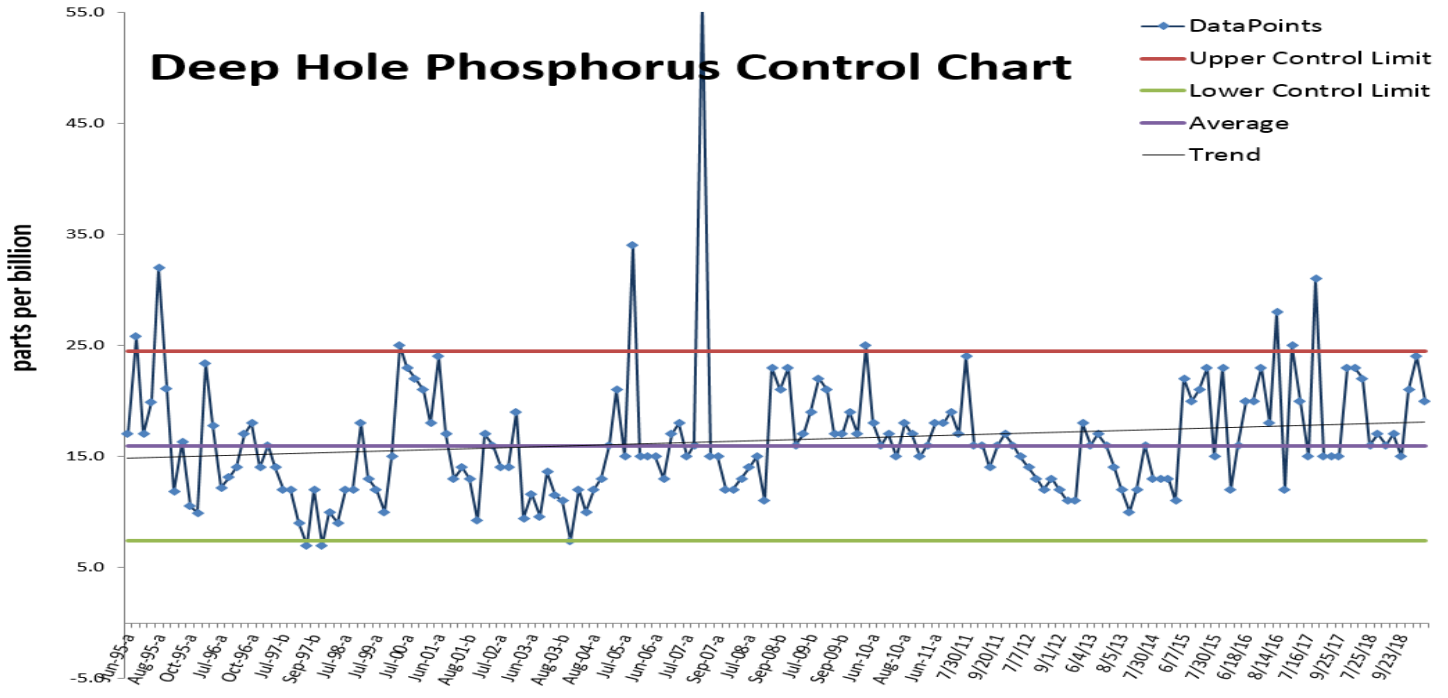
Deep Hole Clarity Control Chart



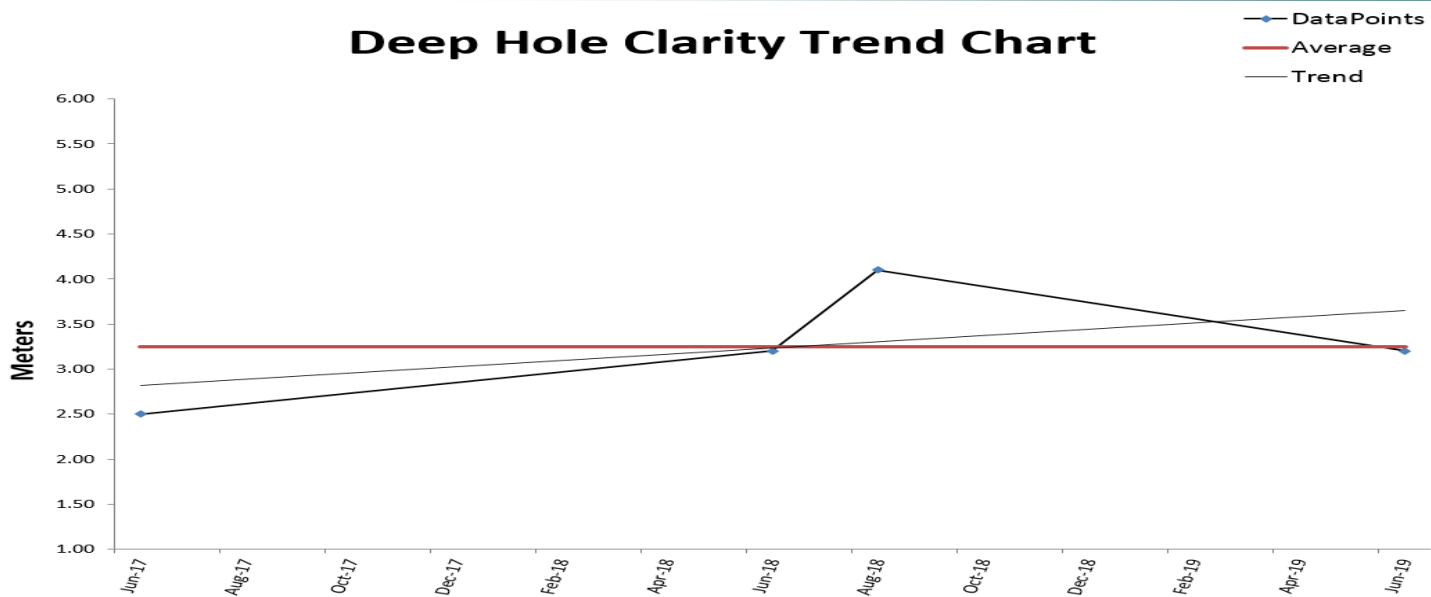
Deep Hole DO Trend Chart



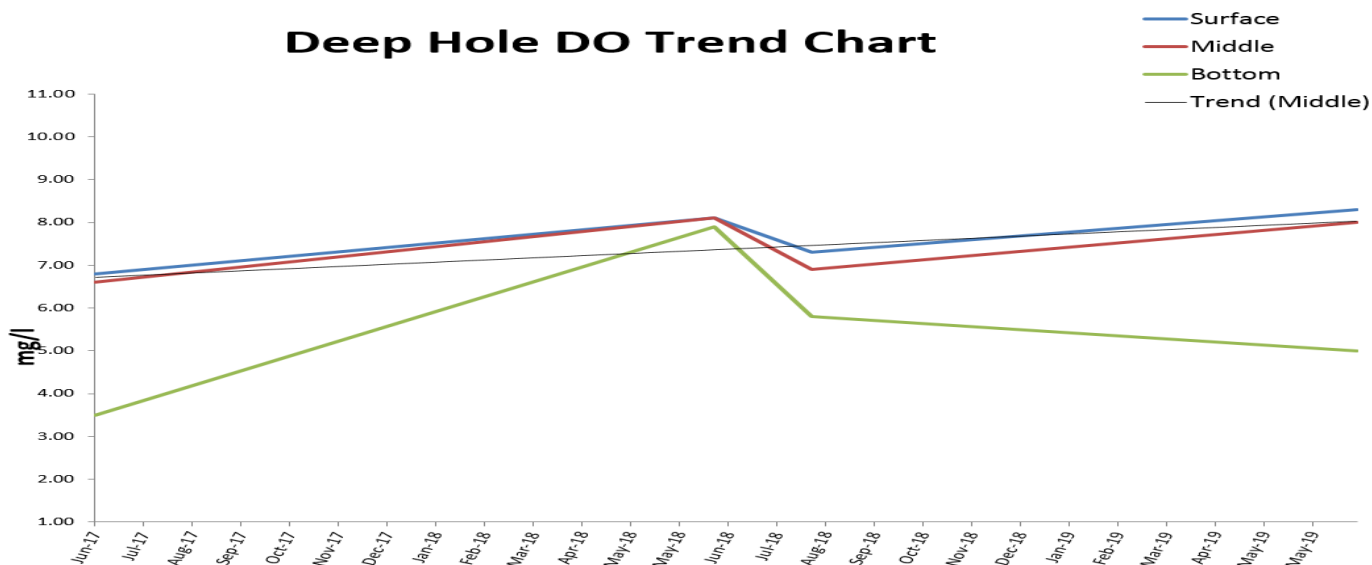
Deep Hole Phosphorus Control Chart



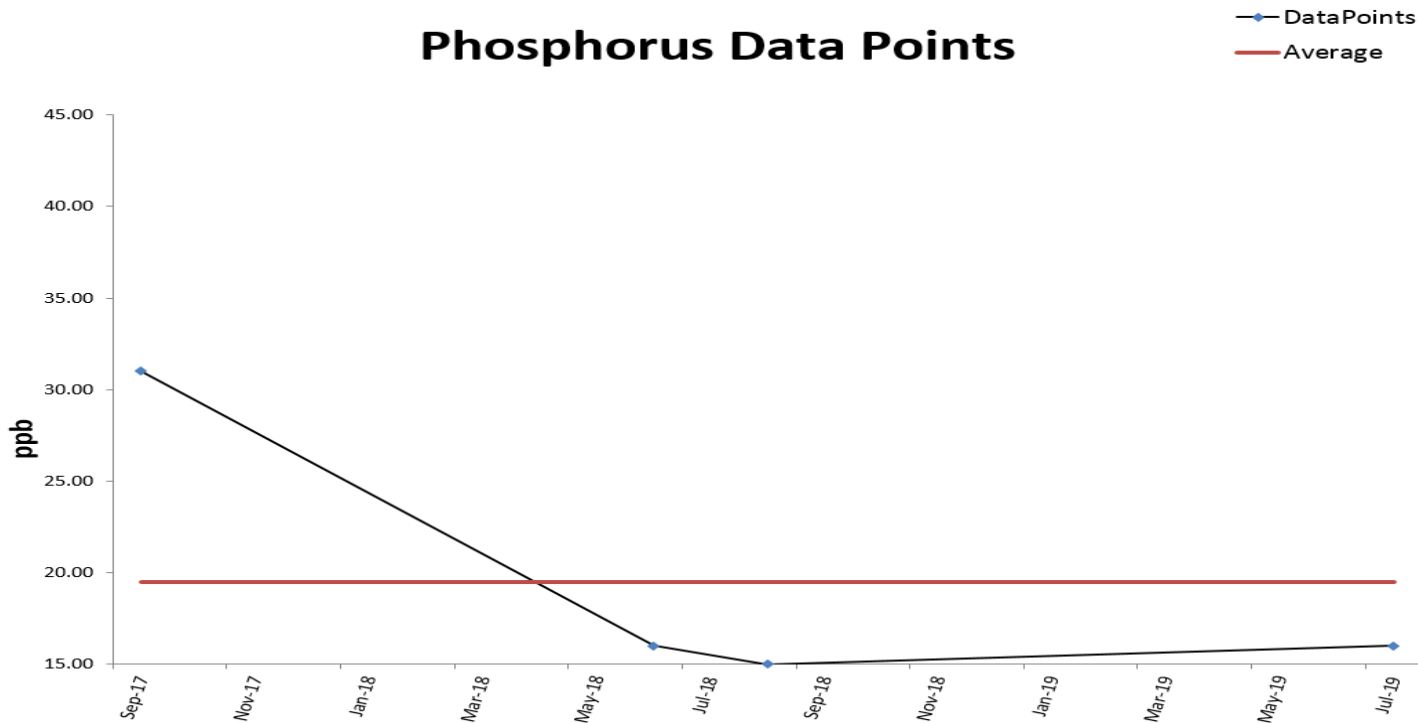
Deep Hole Clarity Trend Chart



Deep Hole DO Trend Chart





Phosphorus Data Points



What do the water tests mean?



Clarity: the higher the better

Measure of distance that an object can be viewed under the water from the surface of the lake (in meters). Factors affecting clarity include recent rainfall, runoff, algae, silt and water color.

-  **Pushaw Lake** 2018 results were healthy and slightly improved from recent years. A 4.9 meter reading in August was the best since 1997.
-  **Little Pushaw** also had favorable clarity with a 4+ meter reading in mid August.



Dissolved Oxygen (DO): the higher the better

Measure of temperature and amount of oxygen dissolved in water at 1 meter increments top to bottom. Factors affecting DO include lake mixing (seasonal turnovers), algae growth, and stratification.

-  **Pushaw Lake** 2018 and 2019 results to date continue to show healthy levels of oxygen in the water, indicating continued good mixing.
-  **Little Pushaw** DO was healthy for Little Pushaw, but one 2018 mid-August reading and a June 2019 reading showed a fair amount of stratification.

Phosphorus: the lower the better

Measure of phosphorus content in water in parts per billion (ppb). Factors affecting phosphorus levels include rainfall/runoff, faulty septic systems, lakeside hygiene, shoreline buffer removal, etc. Phosphorus numbers in the low teens are enough to trigger an algae bloom!

-  **Pushaw Lake** 2018 numbers averaged 18.6 ppb, which is consistent with 2017. 2019, on the other hand, is off to a poor start with three consecutive 20+ ppb results, possibly from heavy rainfall/runoff
-  **Little Pushaw** averaged 15.5 ppb in 2018. These numbers are still in the range that can support a bloom, despite the lower numbers than we are being observed in Pushaw Lake.