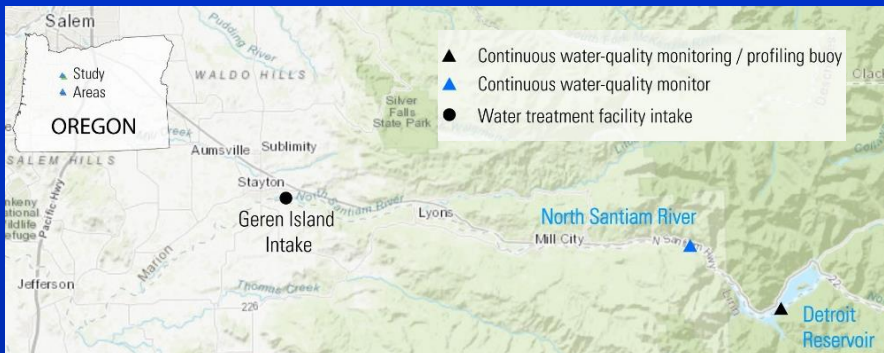


Enhanced Water Quality Monitoring with Continuous Lake Profilers



➤ 8 Water-Quality Parameters

Water temperature

Dissolved oxygen

pH

Specific conductance

Total chlorophyll

Phycocyanin (cyanobacterial pigment)

Turbidity

Fluorescing dissolved organic matter (fDOM)

Real time data available at

<https://waterdata.usgs.gov/nwis/>

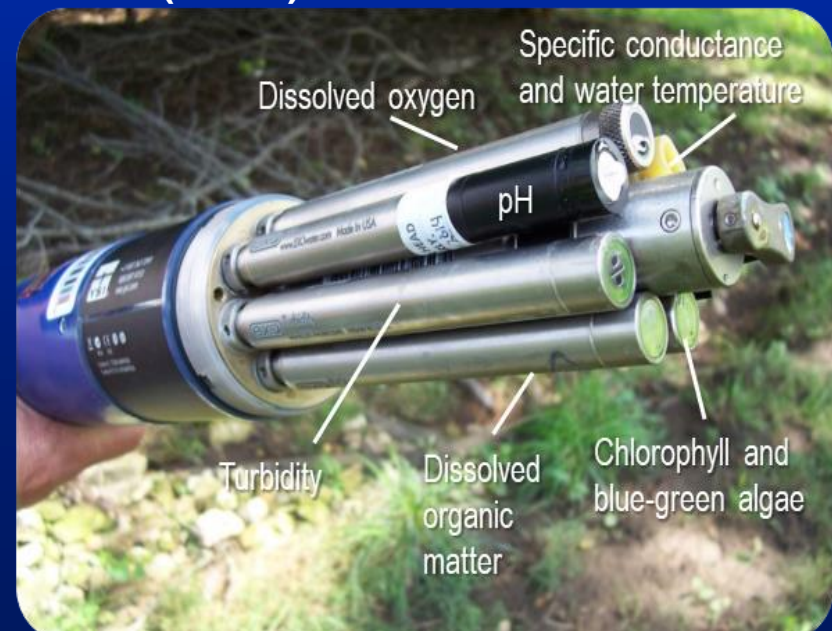
Profile Analysis Tool:

https://or.water.usgs.gov/projs_dir/habs/lake_profiler.html?site=444306122144600

And on the Data Grapher:

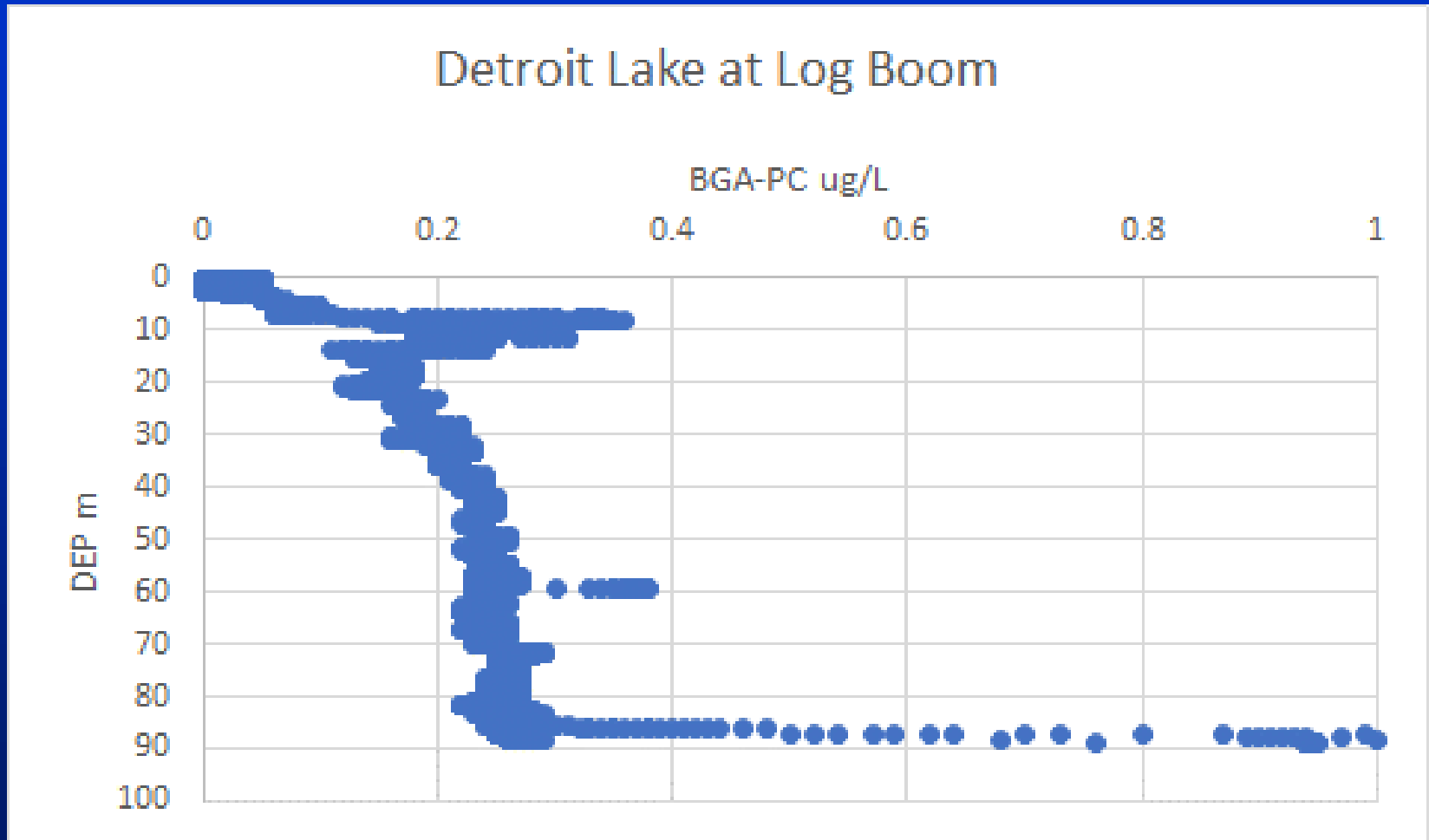
<https://or.water.usgs.gov/grapher/>

Contact: Kurt Carpenter (kdcar@usgs.gov)



Cyanobacteria Form Lenses at Depth

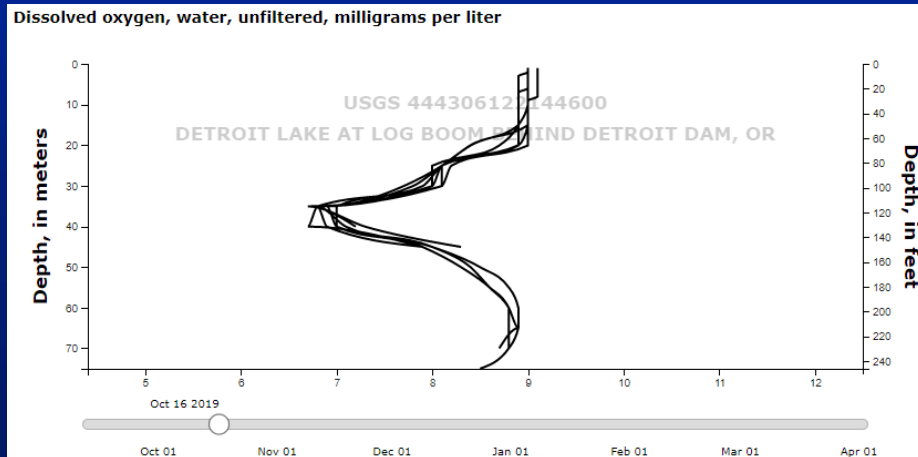
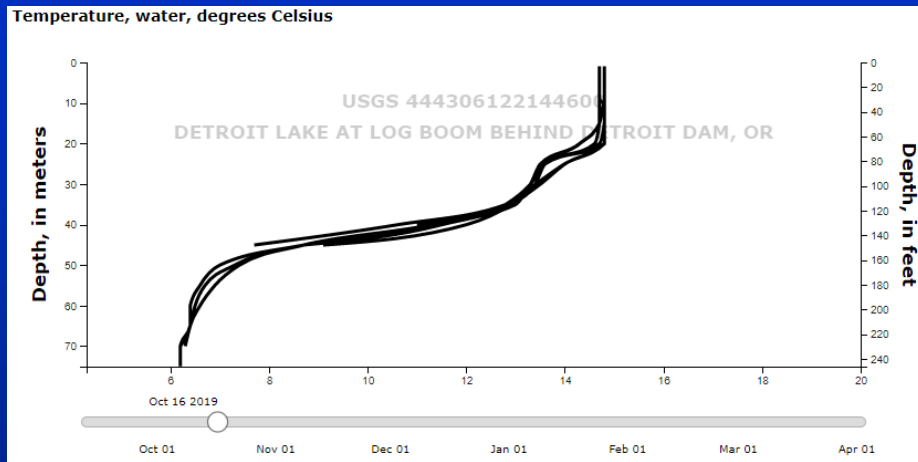
Knowledge of where they are can inform dam operations



Detroit Lake profile 7/27/2018 - USGS Preliminary Data Subject to Revision

Lake Profile Analysis Tool

NWIS Web tool was developed to depict real-time water-quality conditions at specific depths in the water column



https://waterdata.usgs.gov/nwis/uv/?site_no=444306122144600

