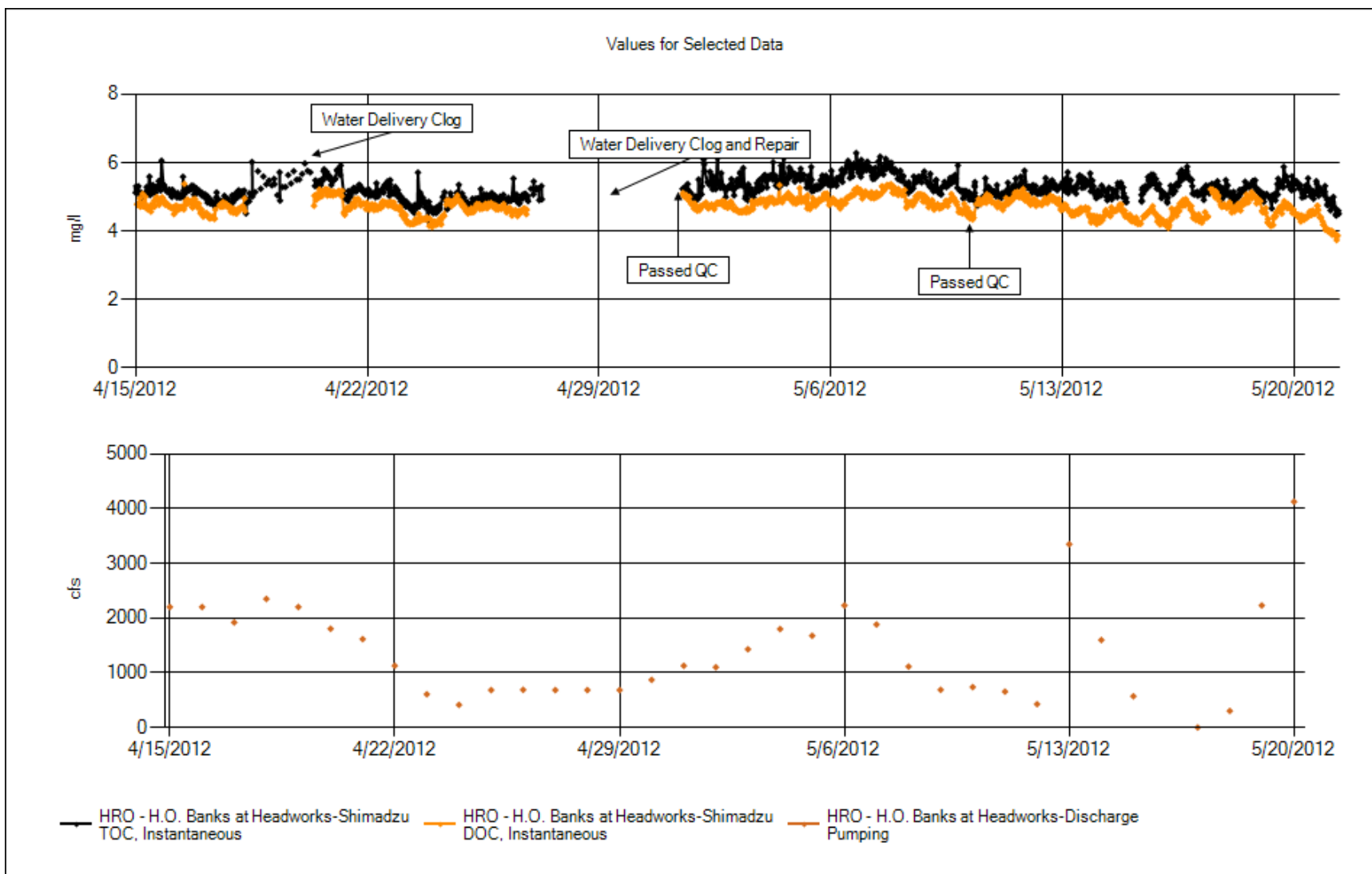
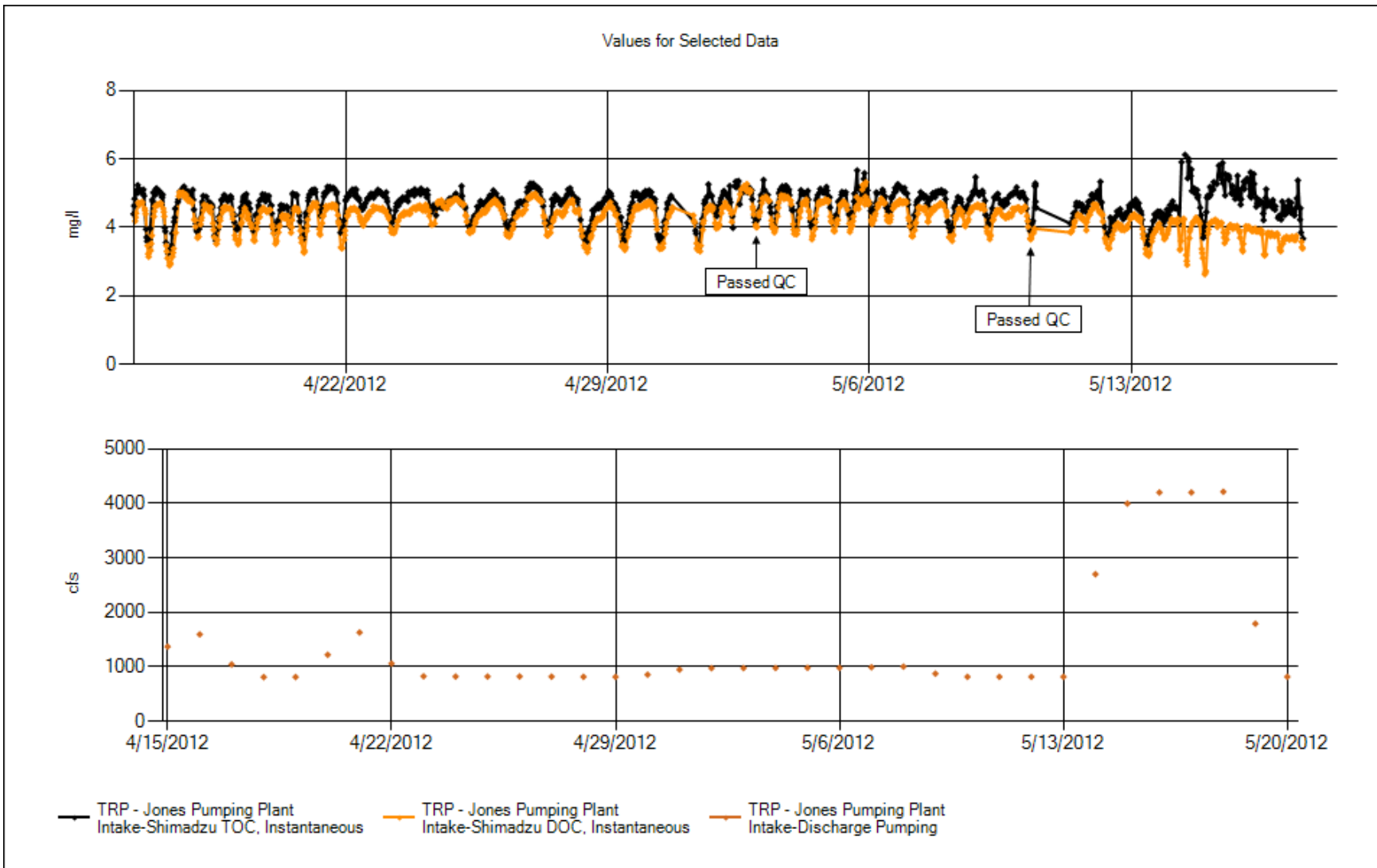


RTDF Graphical Station Update: April-May 2012

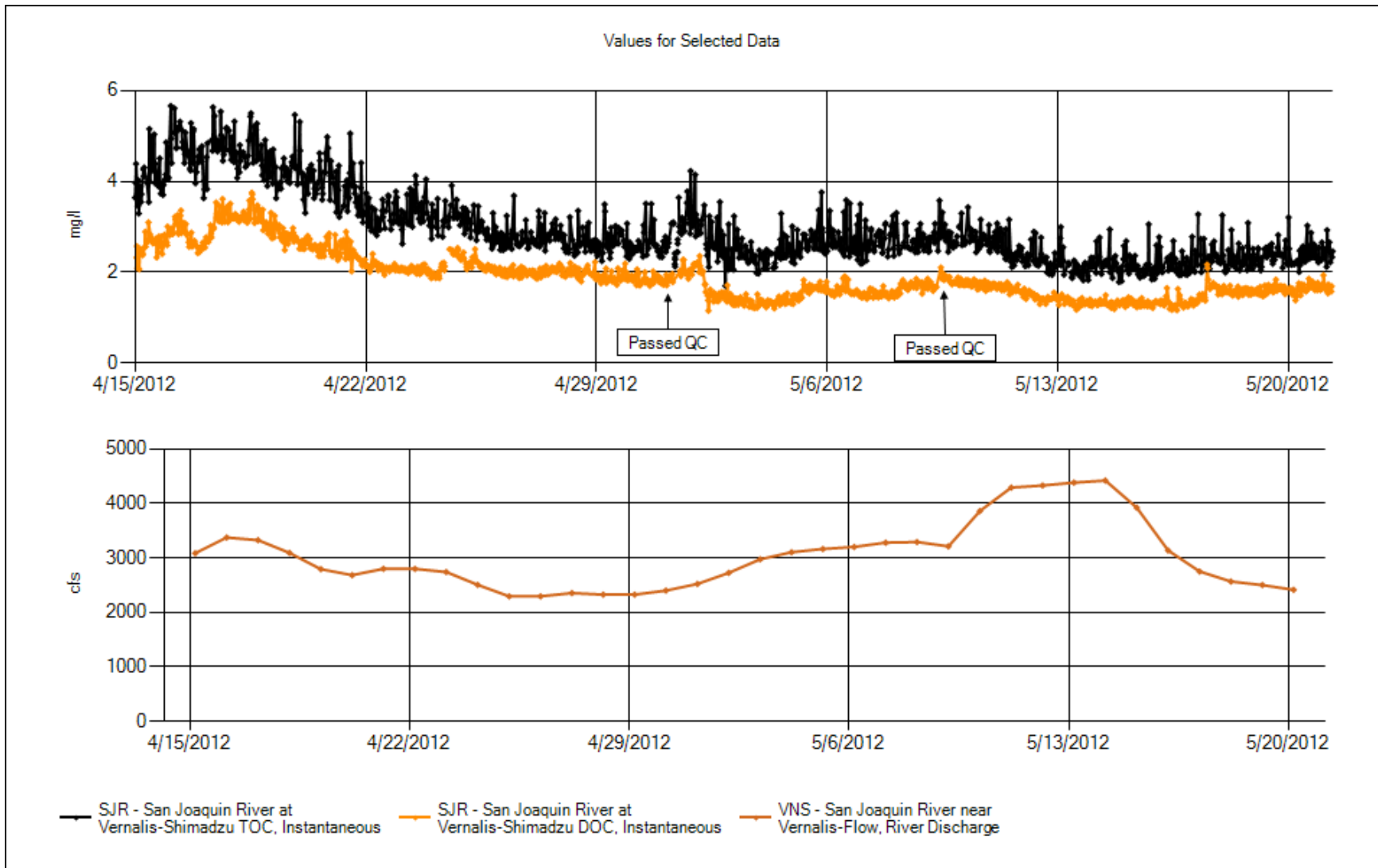
Banks Organic Carbon and Pumping



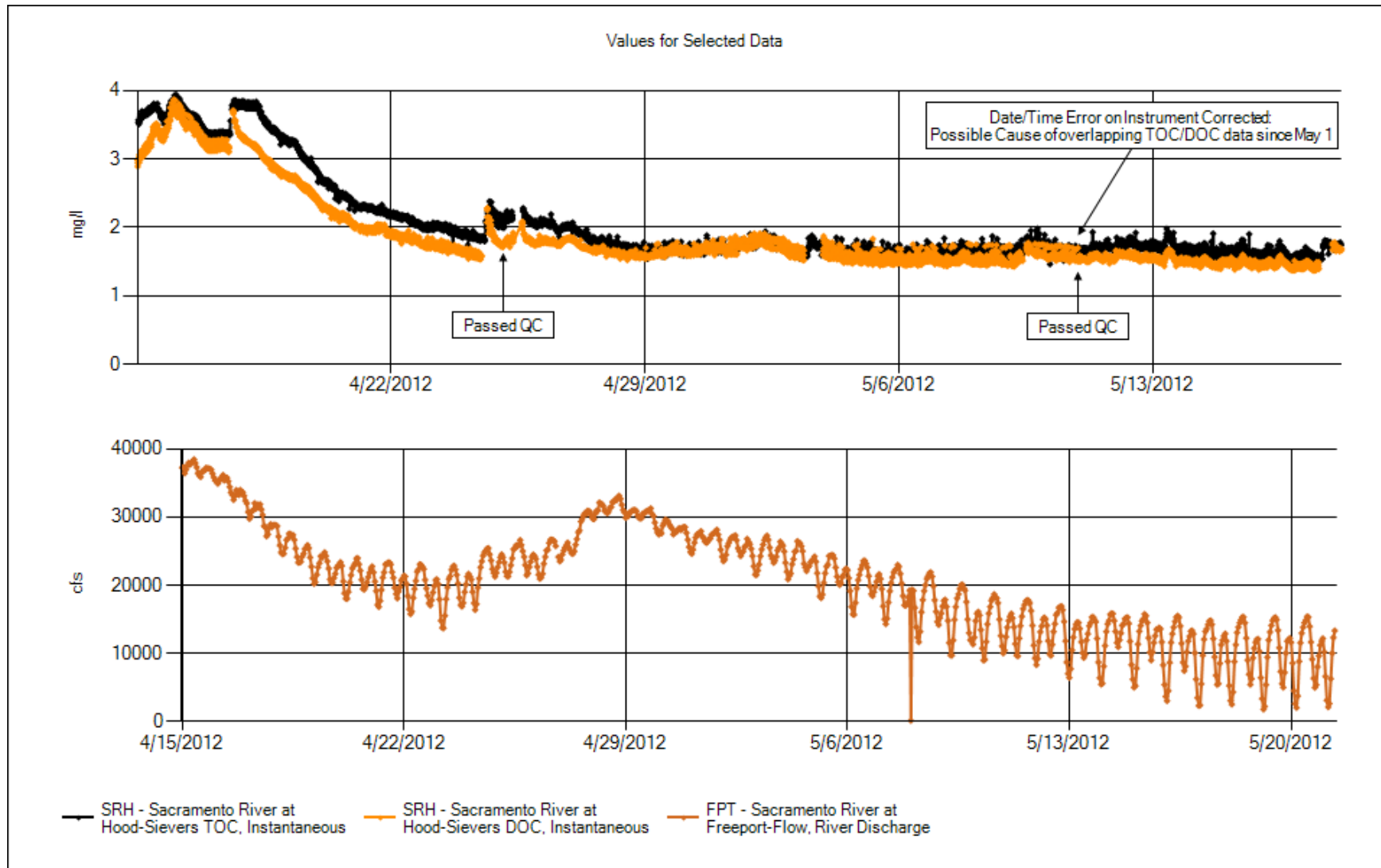
Jones Organic Carbon and Pumping



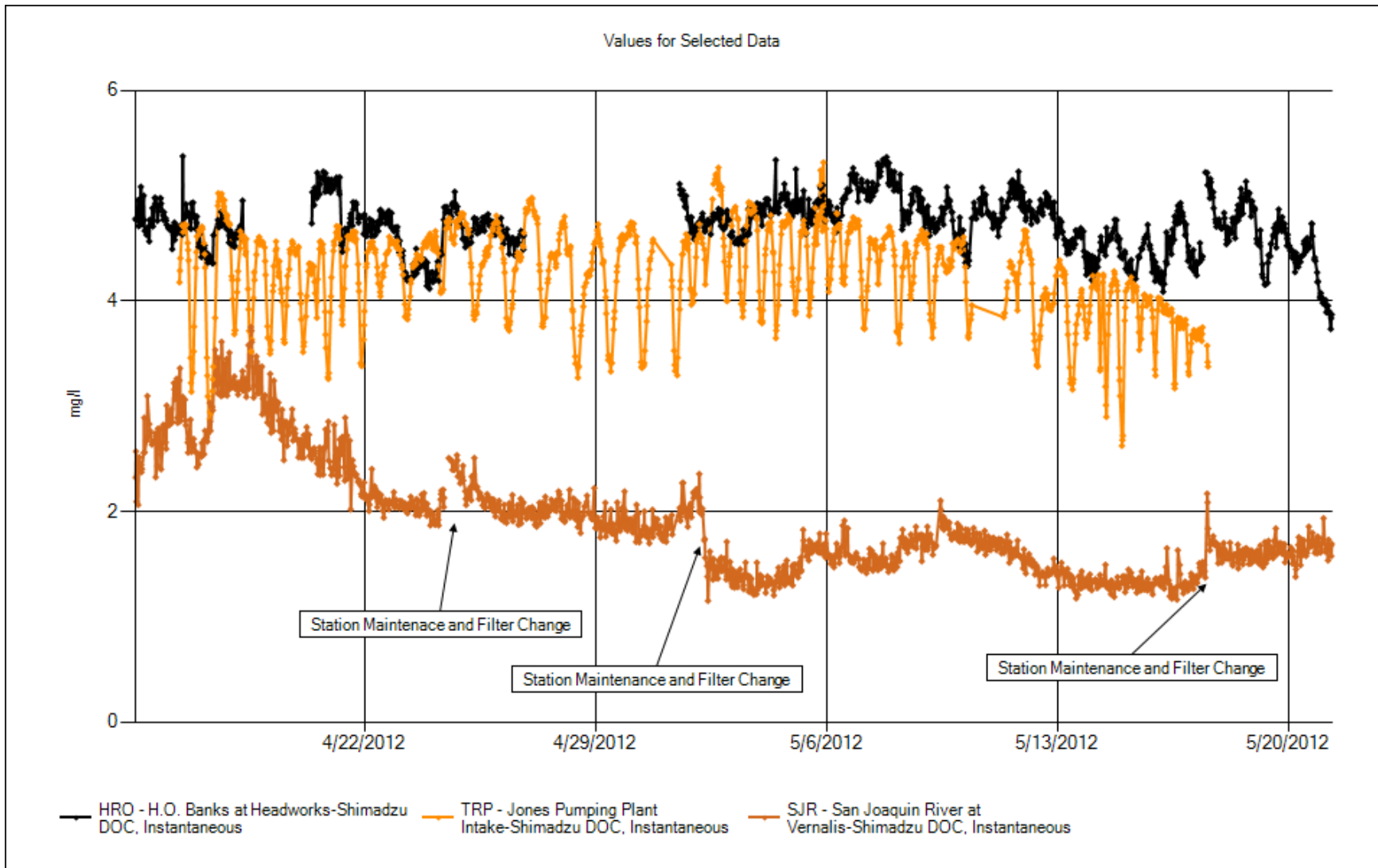
San Joaquin River Organic Carbon and Flow



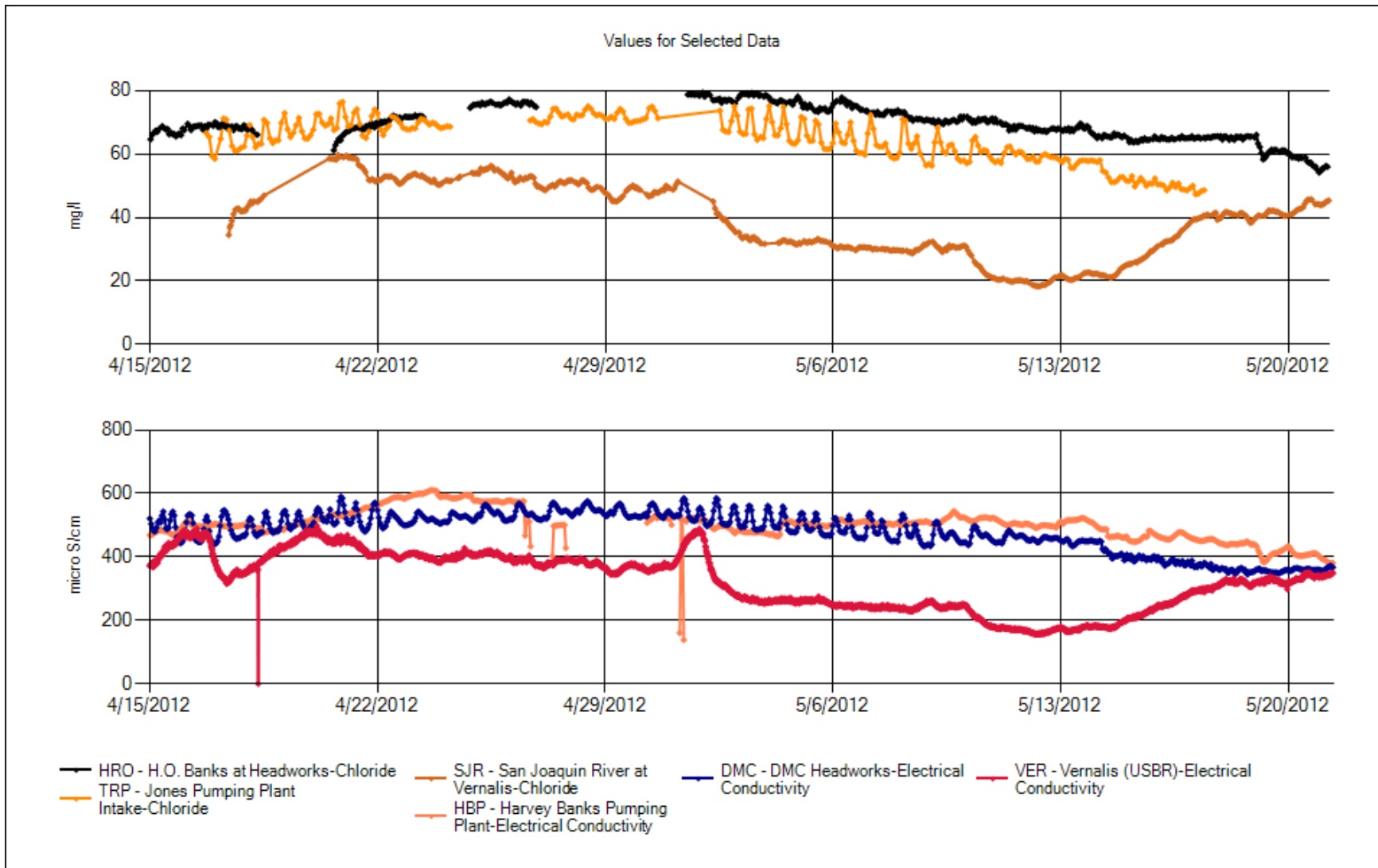
Sacramento River Organic Carbon and Flow



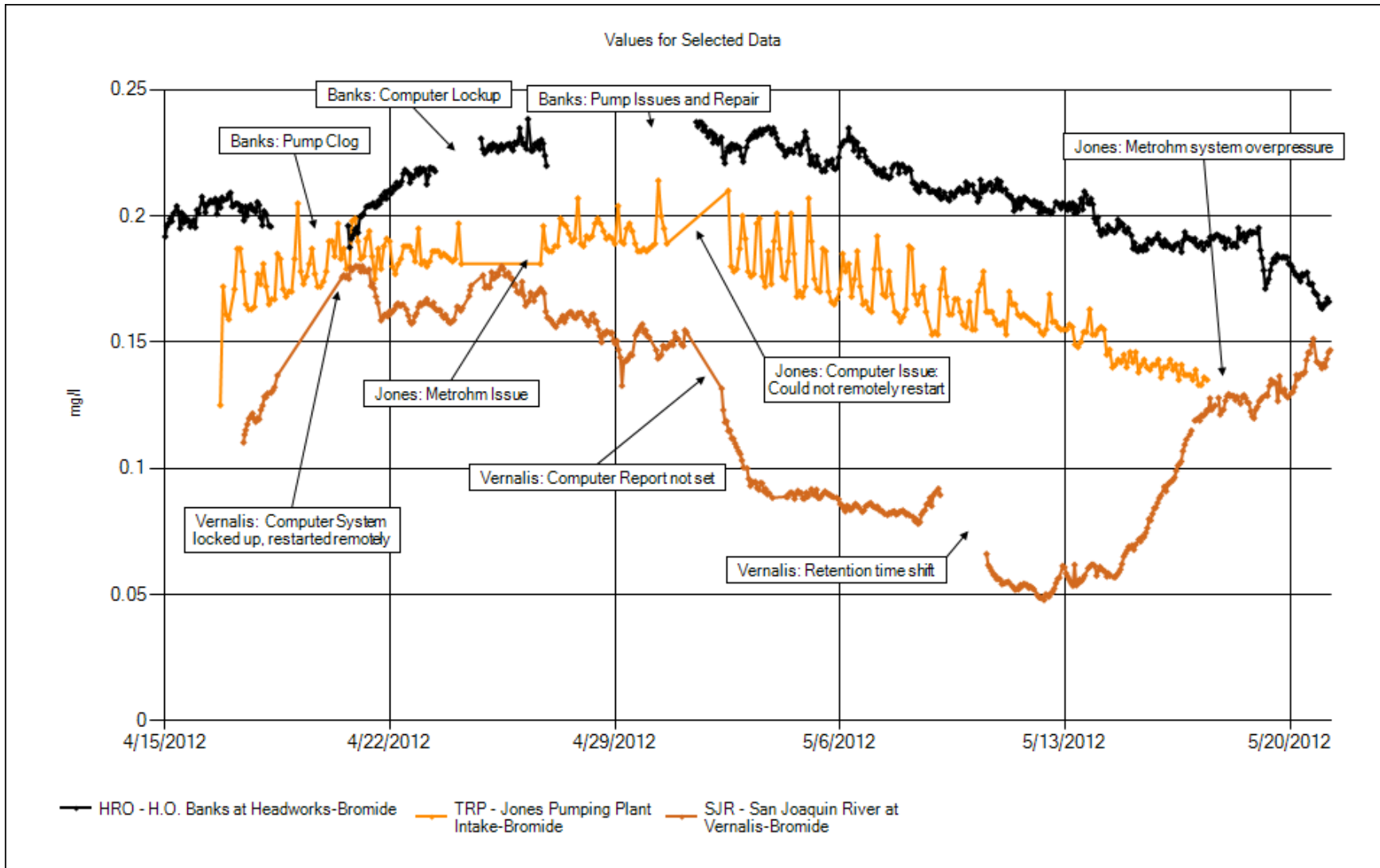
DOC at Selected MWQI Stations:



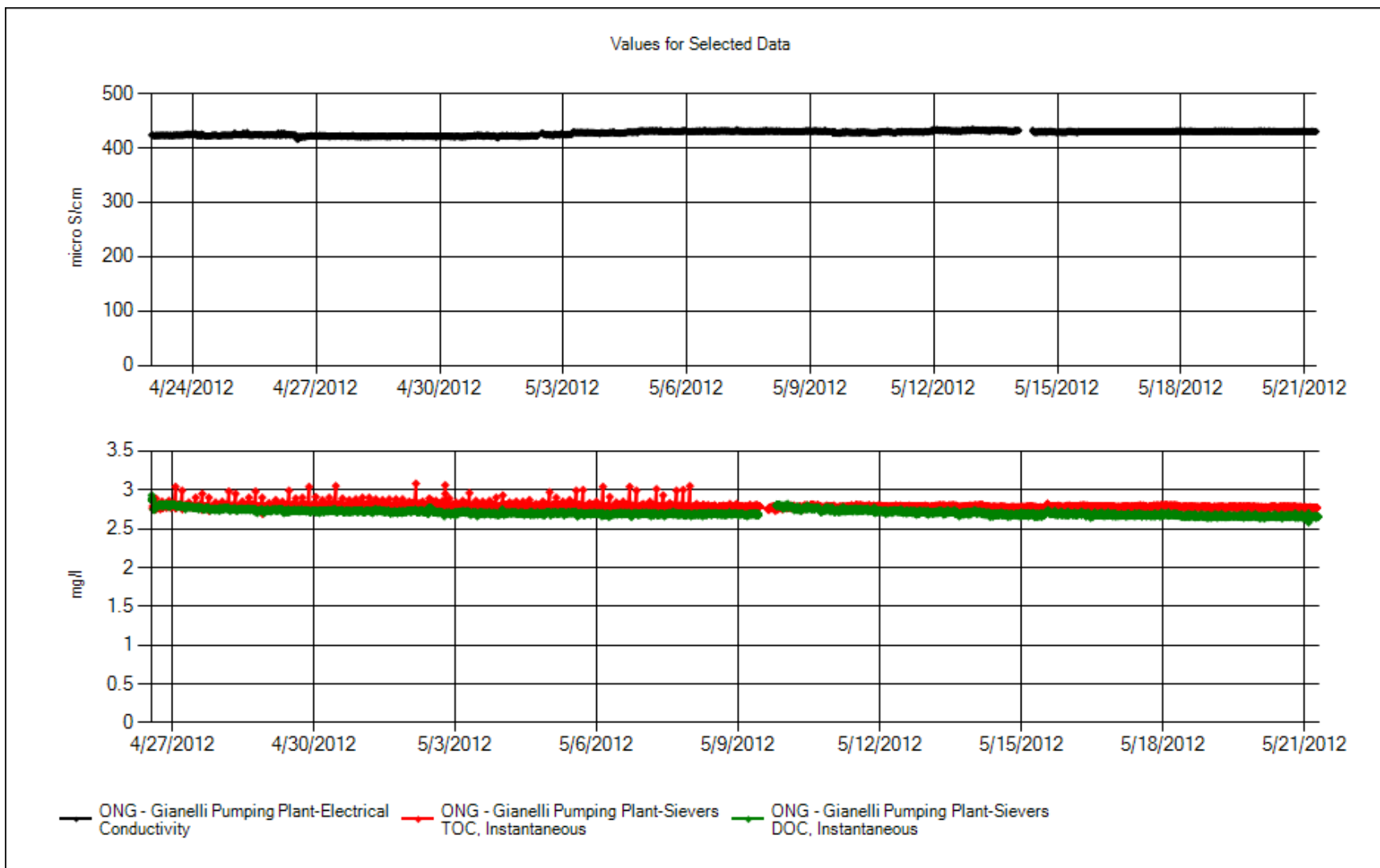
Chloride at Banks, Jones, and Vernalis:



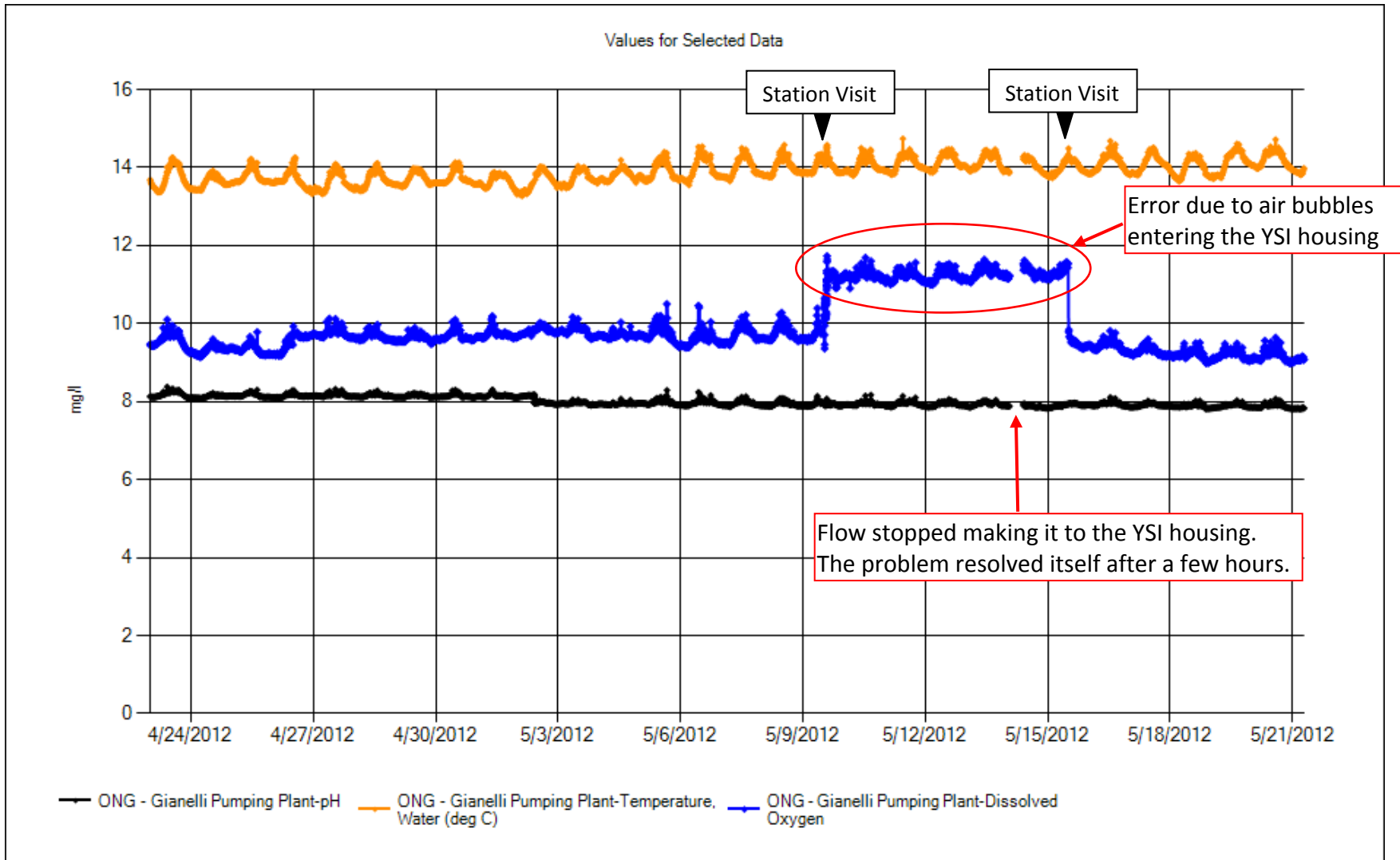
Bromide at Banks, Jones, and Vernalis with operation details:



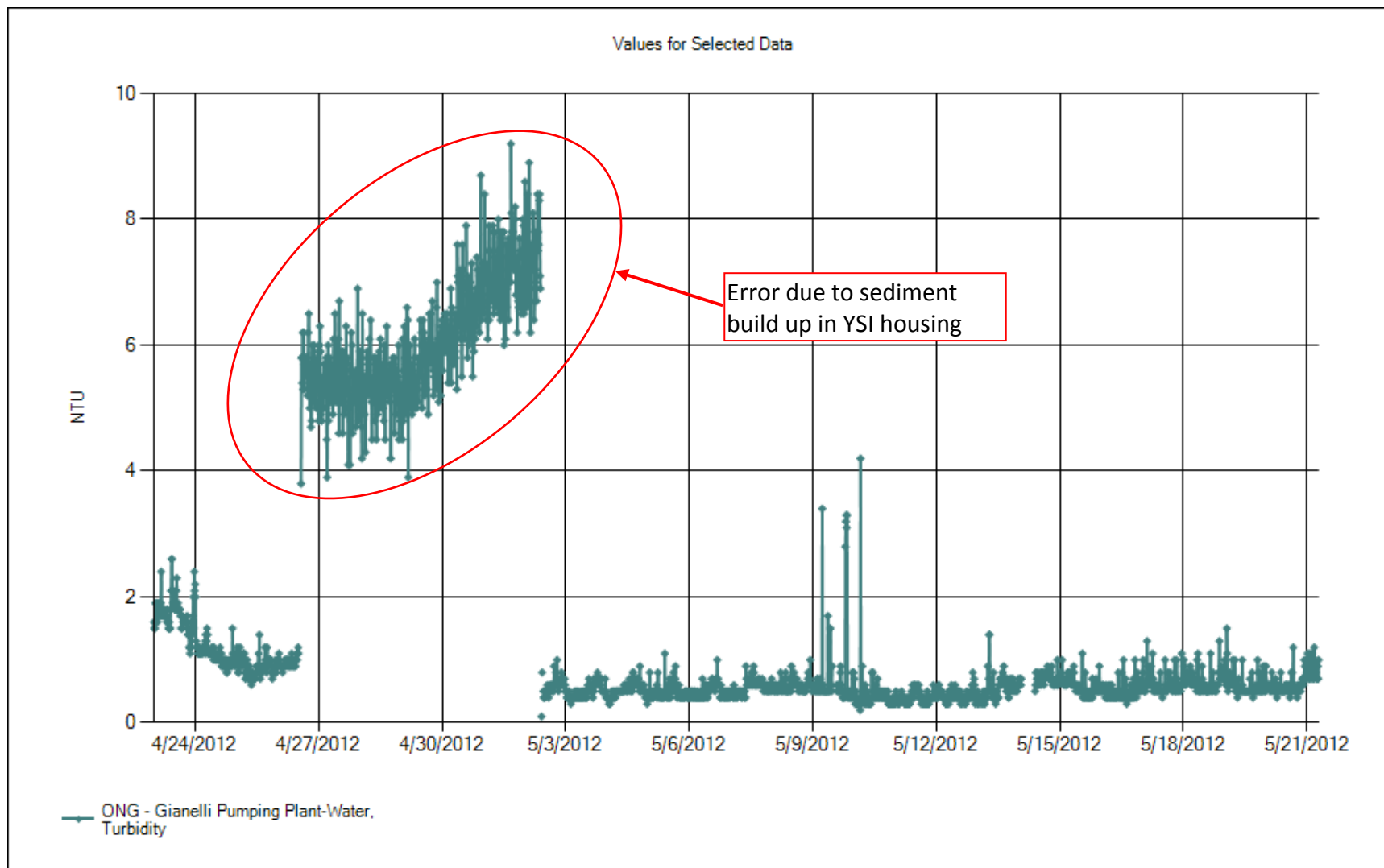
Gianelli EC & OC



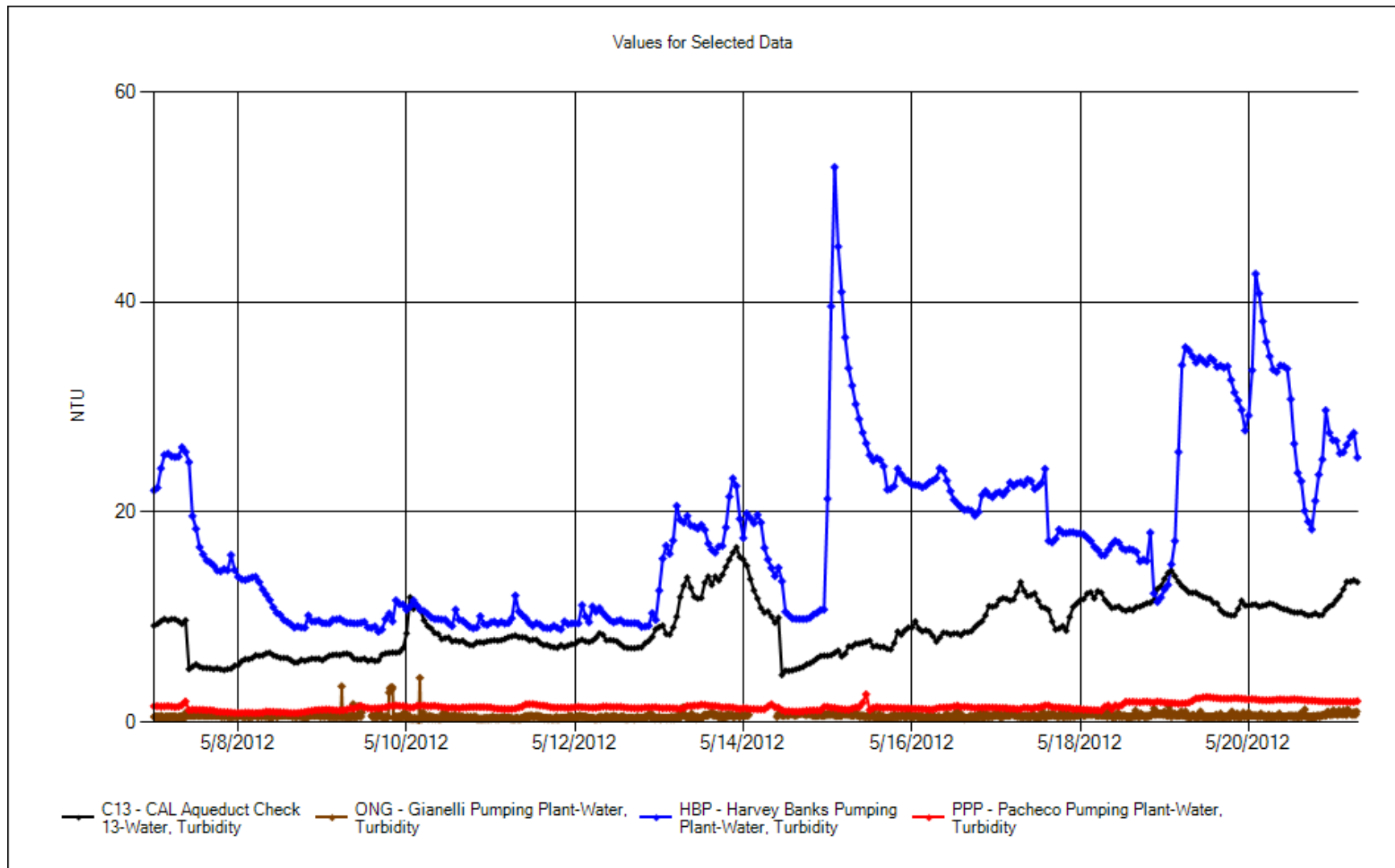
Gianelli ph, DO, & Temp



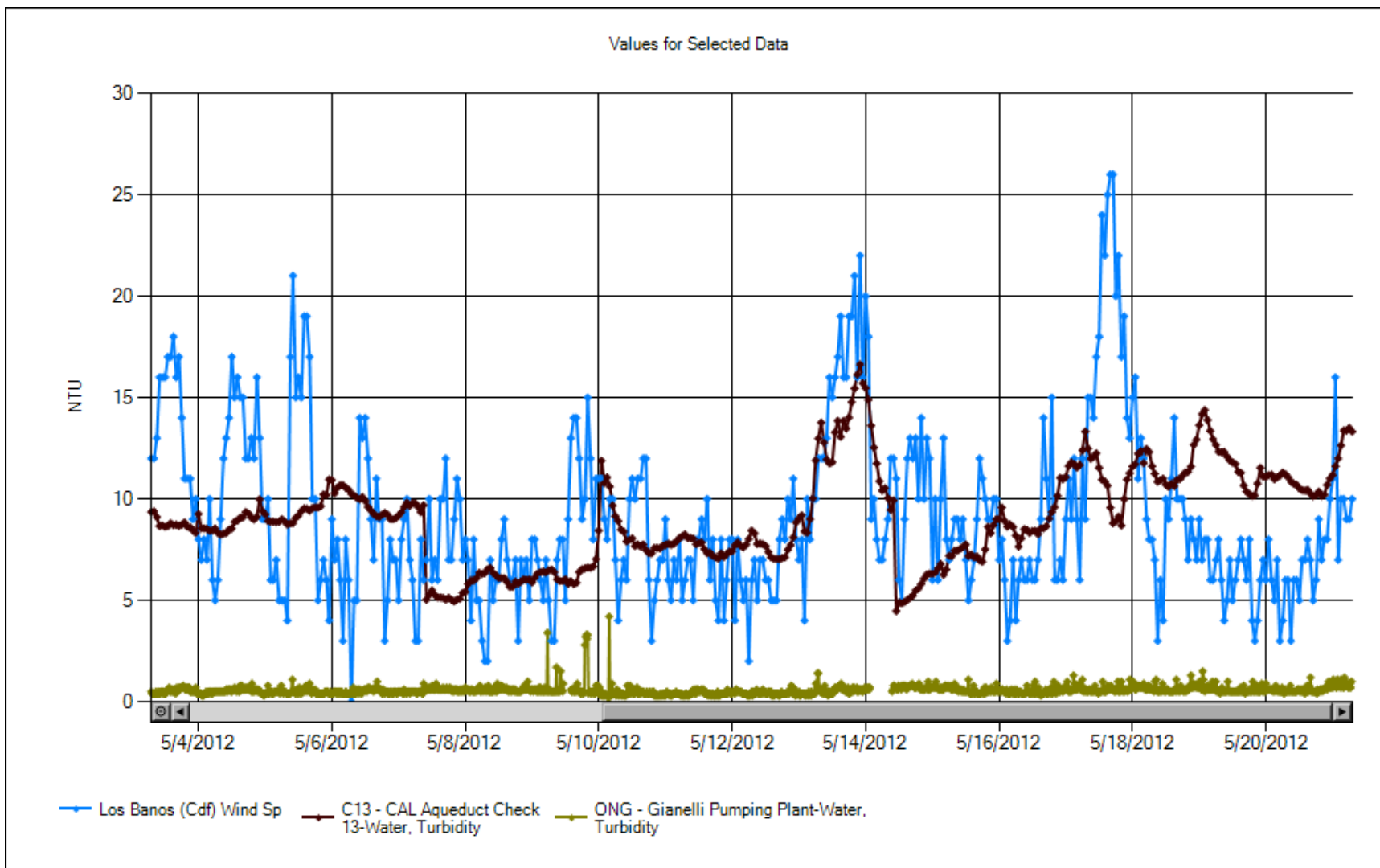
Gianelli Turbidity



Gianelli vs. Surrounding Stations for Turbidity



Gianelli & Check 13 Turbidity vs. Wind Speed



Significant Events

4/26 – Sievers back online

The cause of the outage wasn't definitively determined, however, we believe it was due to a short power outage. We are investigating the use of a back-up battery similar to the one used for the computer.

4/26 to 5/2 – Erroneous turbidity values

There was a significant buildup of sediment in the YSI housing. This was due primarily to sediment flushing into the YSI housing while the rest of the system was shut down. We have changed the station visit protocols and added a lower valve in the housing to eliminate this problem.

5/2 – First YSI calibration

The comparison between the pre-calibration sonde values and certified standard values showed that the sonde was within its accuracy for almost all constituents. EC was off by 9 μ S and pH was off by 0.03 units from acceptable values.

5/14 – YSI flow stoppage

Sample water seems to have stopped flowing to the YSI entirely, for a period of several hours. The flow resumed on its own and remained constant until we were able to visit the station the following day.

5/9 to 5/15 – Erroneous DO values

Following the station visit on 5/9, several valves were set differently than before causing limited flow to enter the YSI housing. This led to an increase in air bubbles entering the housing leading to an increase in DO values. A comparison between the sonde and a handheld YSI was performed on 5/15, which confirmed that the sonde reading was accurate and the increase was due solely to the limited flow.