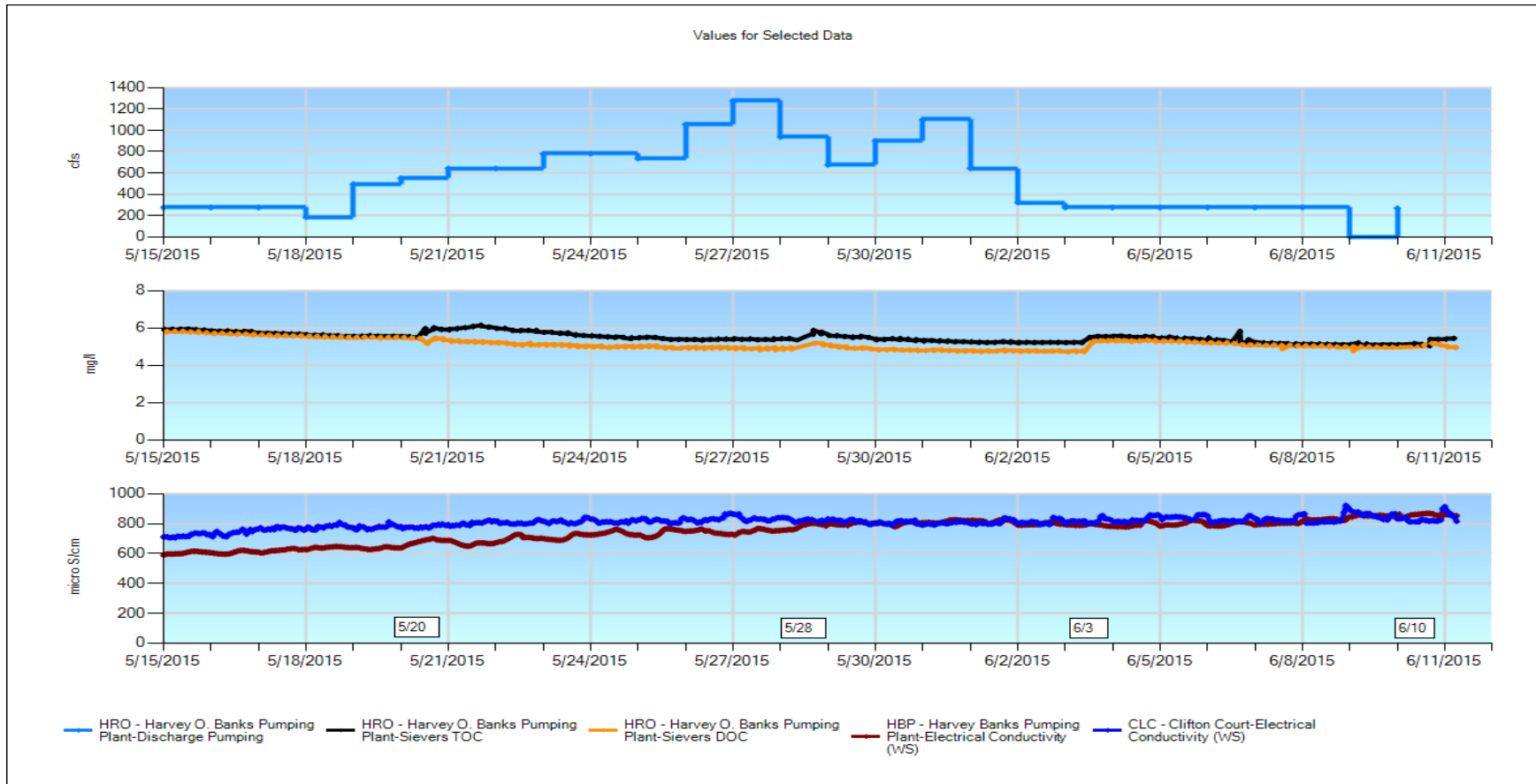


Banks Pumping Plant: Discharge Pumping – TOC, DOC – EC



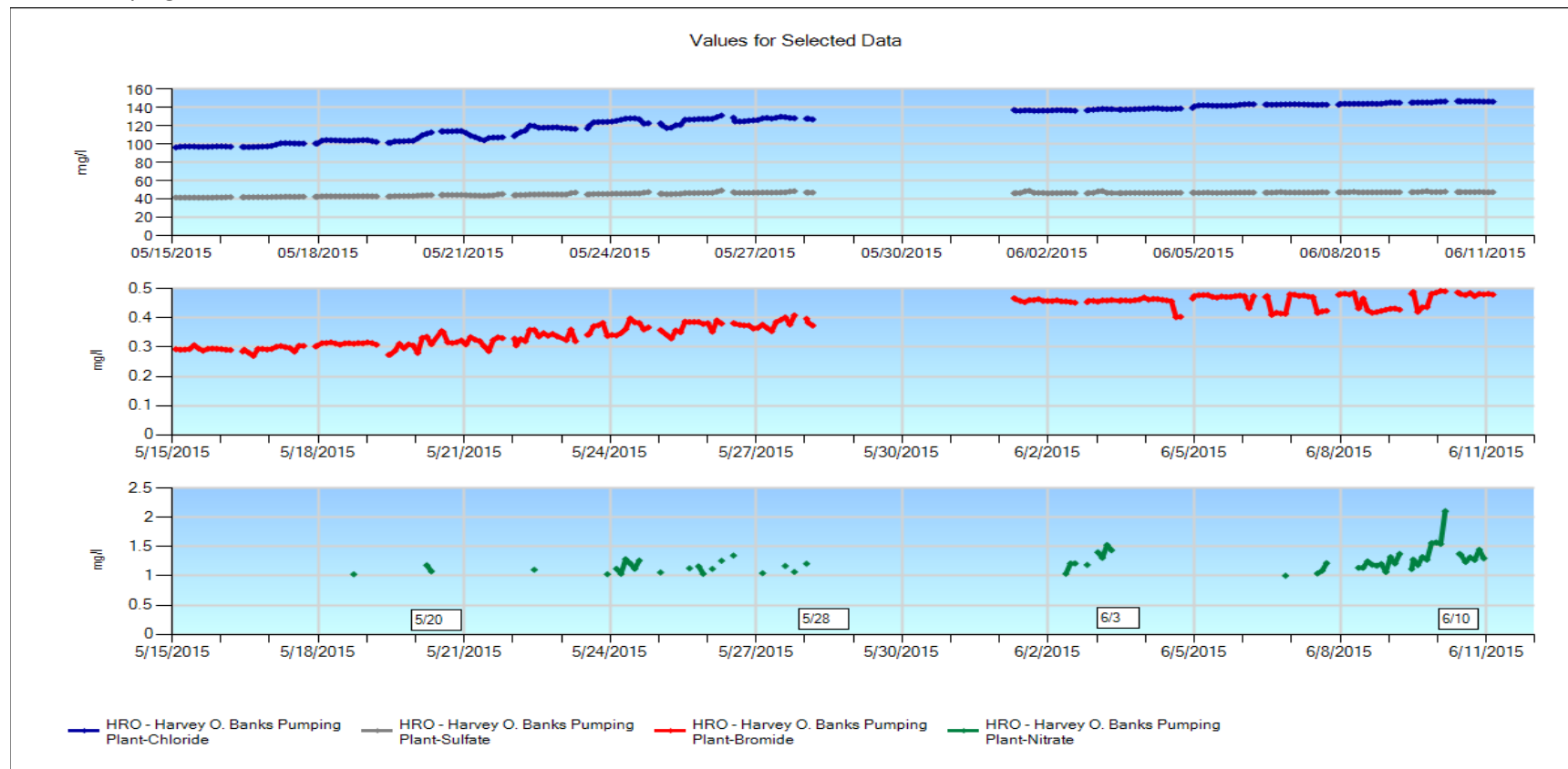
5/20 – Sample delivery system filter change

5/28 – Sample delivery system 100 um and 0.45 um filter change, analysis of organic carbon QC samples

6/3 – Sample delivery system filter change

6/10 - Found that a non-50 um filter was installed in the 50 um housing, replaced with a 50 um filter, replaced the 100 um and 0.45 um, analyzed all QC samples, cleaned various lines

Banks Pumping Plant: Chloride, Sulfate, Bromide, Nitrate



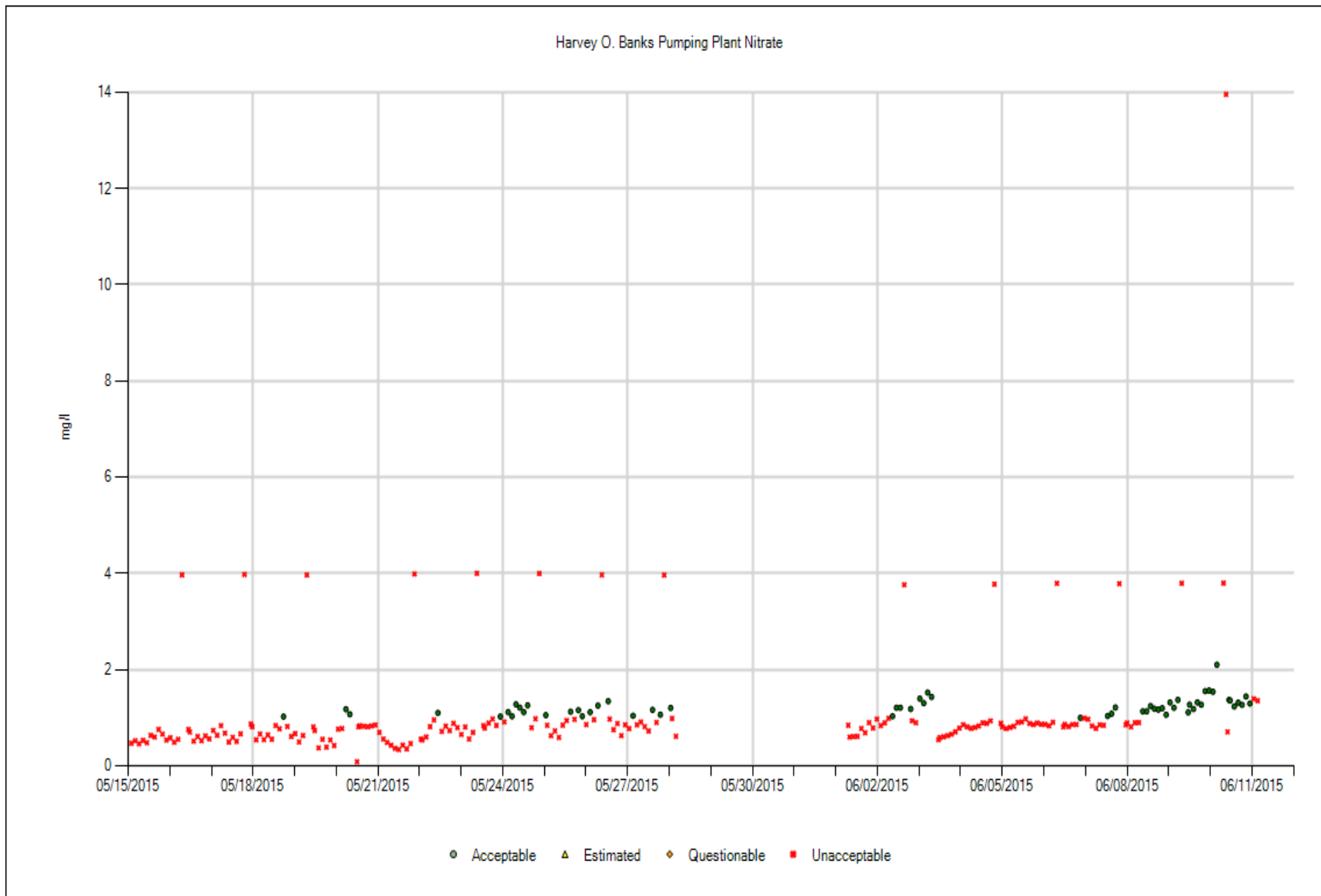
5/20 – Sample delivery system filter change

5/28 – Sample delivery system 100 um and 0.45 um filter change, anion analyzer annual preventative maintenance, calibration issue resolved on June 1

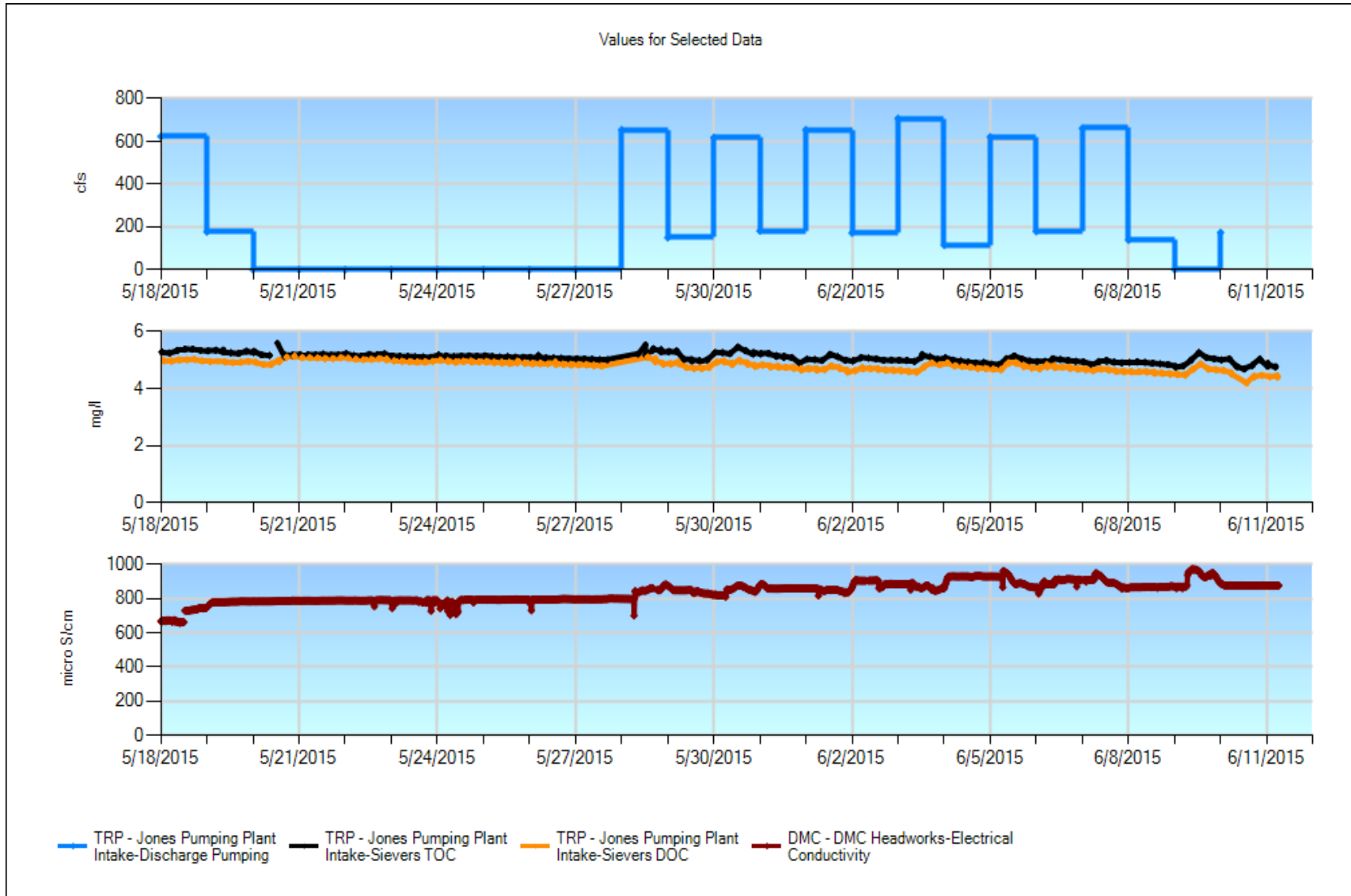
6/3 – Sample delivery system filter change

6/10 - Found that a non-50 um filter was installed in the 50 um housing, replaced with a 50 um filter, replaced the 100 um and 0.45 um, analyzed all QC samples, cleaned various lines

Banks Pumping Plant: Nitrate with Check Standards and values below the 1.0 ppm reporting limit

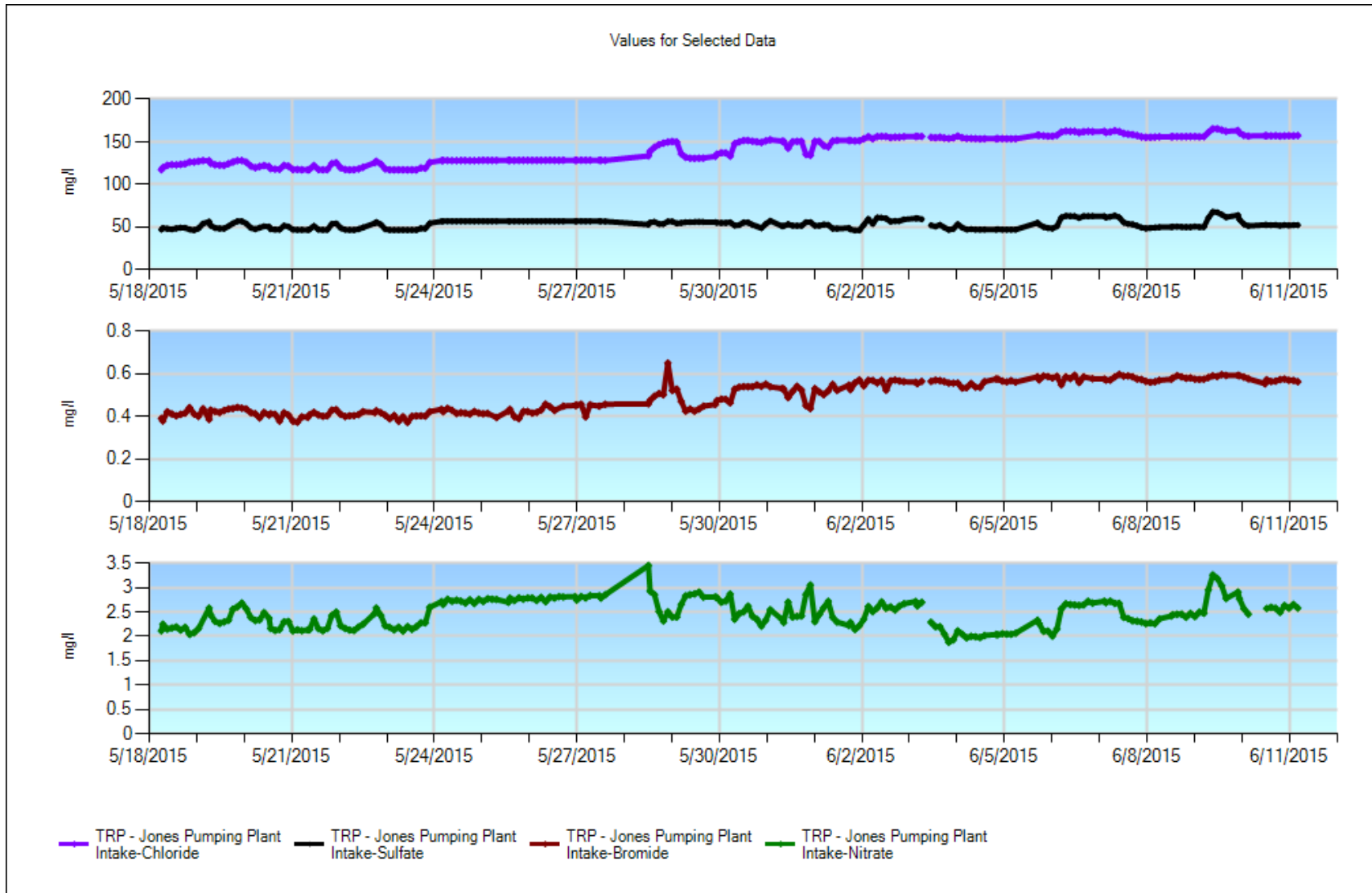


Jones PP – Discharge Pumping, Organic Carbon, and EC

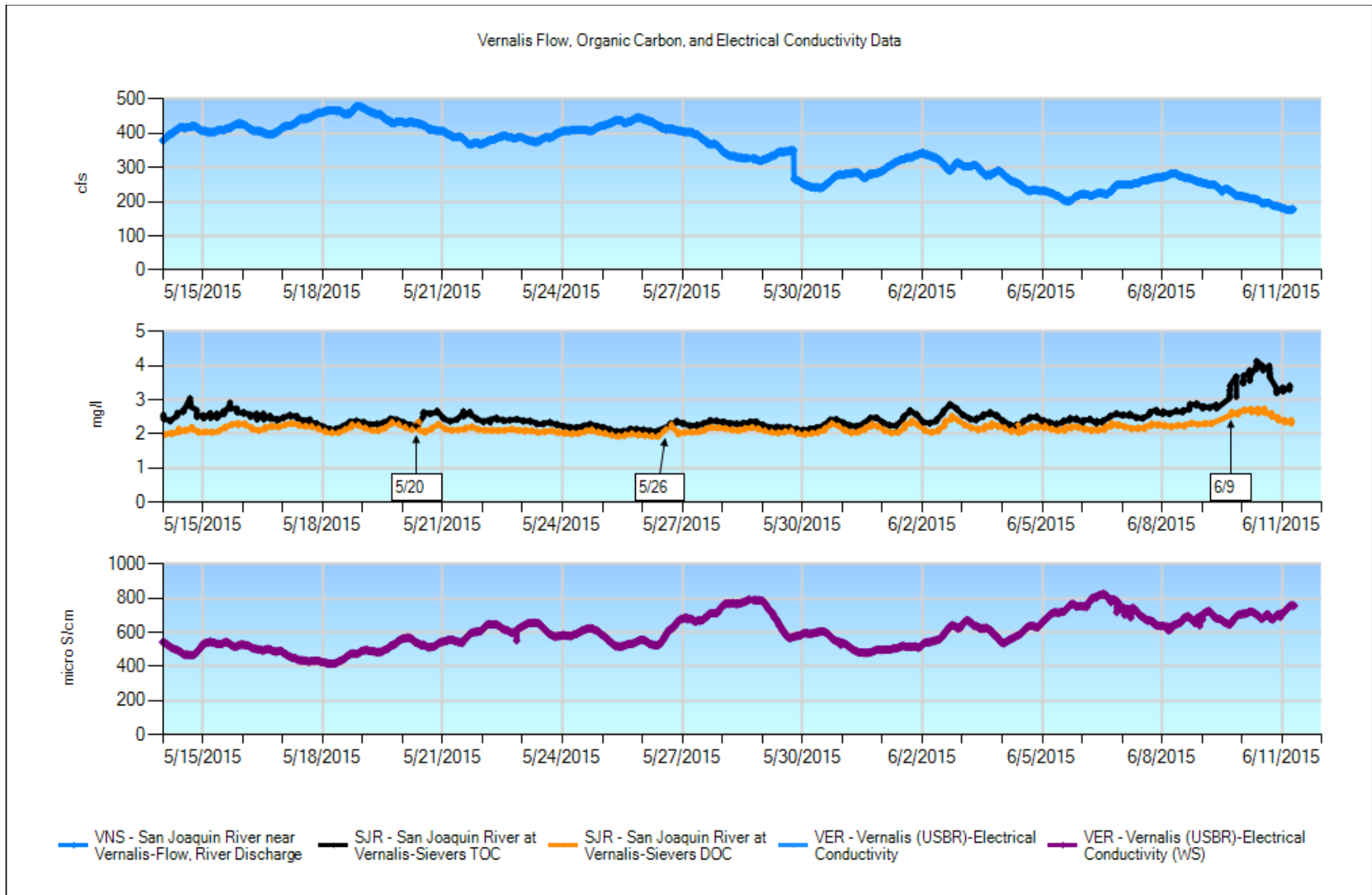


5/20: All filters replaced **5/28:** Pre-filters replaced. QC event **6/3:** All filters replaced **6/10:** Pre-filters replaced. QC event

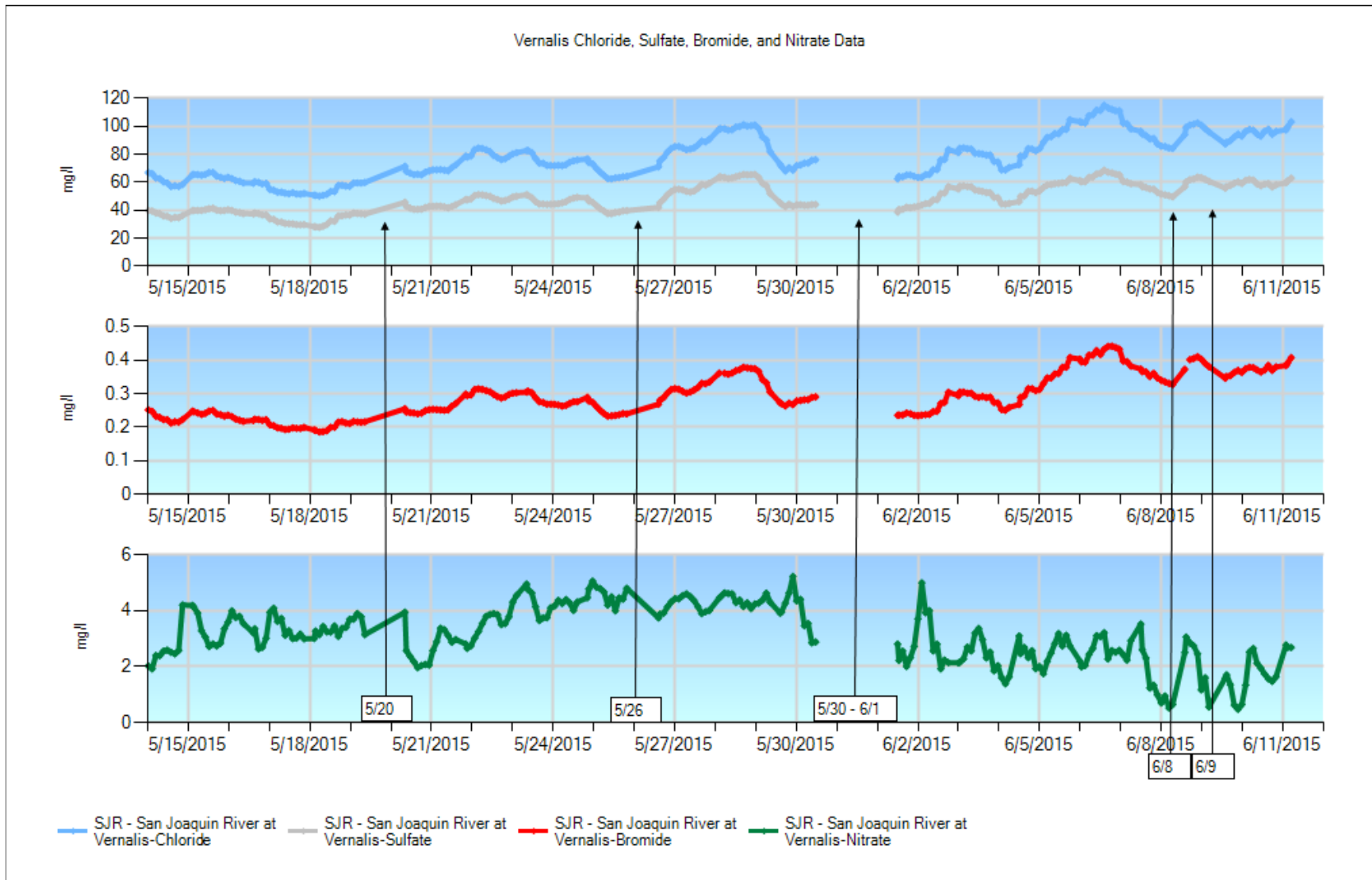
Jones PP – Chloride, Sulfate, Bromide, Nitrate



5/28: QC event 6/10: QC event

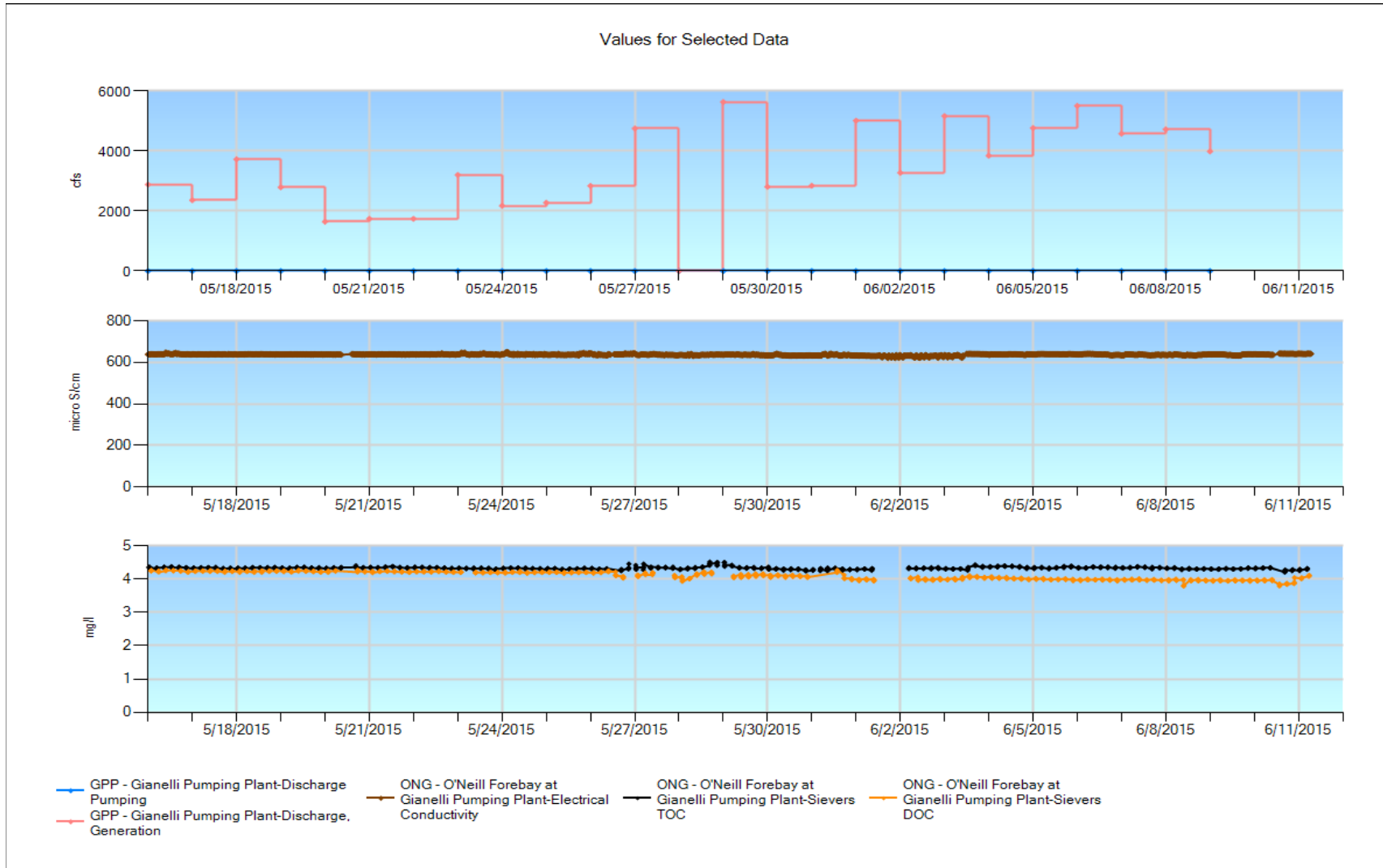


Filter Changes: 5/20 = prefilters only, 5/26 = all filters, 6/9 = all filters. **Events:** 5/26 & 6/9 = Cleaned pump intake. Increase in TOC in early June.



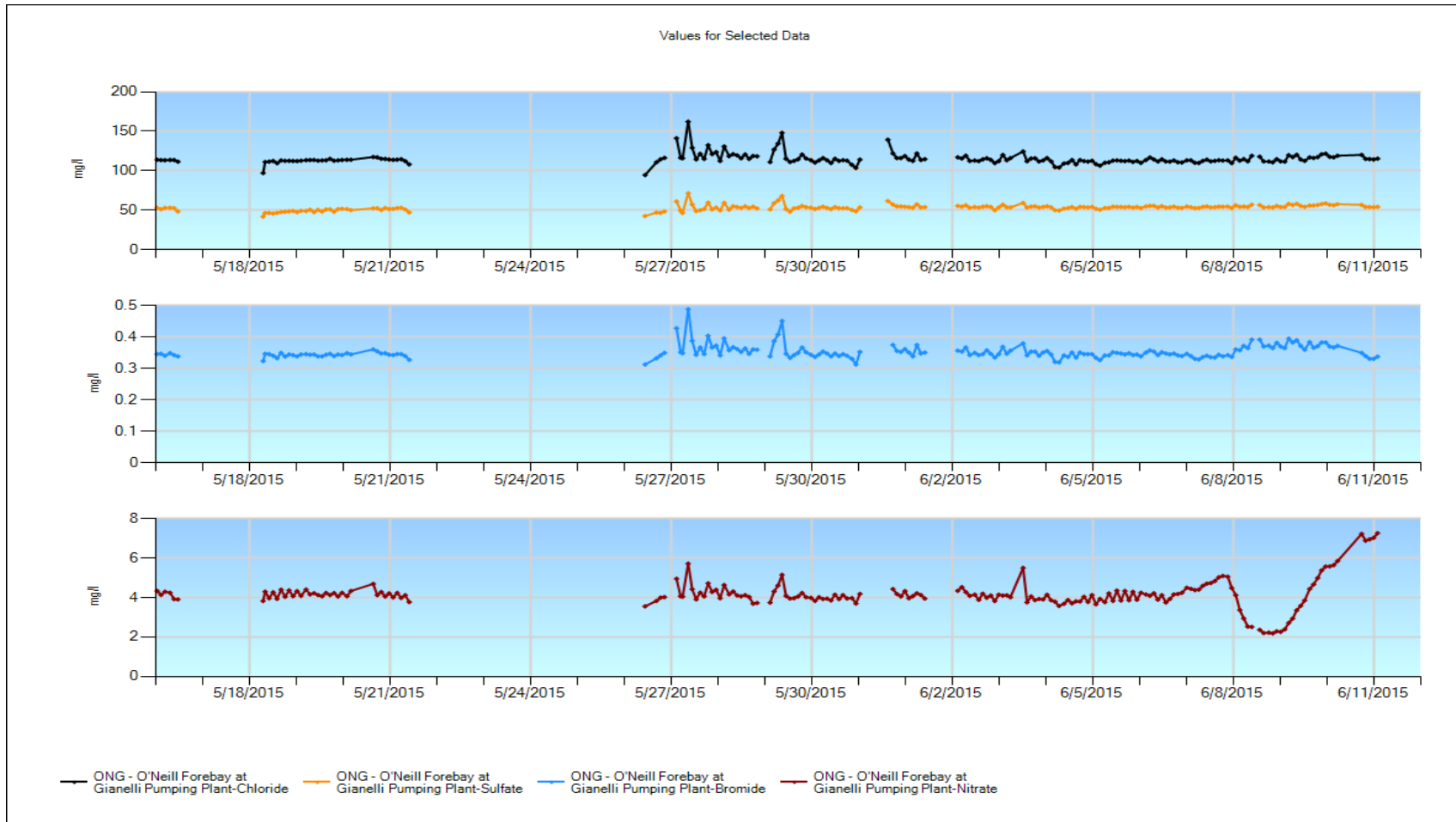
Events: 5/20, 5/26, & 5/30 – 6/1 = Sampling interrupted by unknown entities attempting to gain remote access of the Vernalis computer. **5/26 & 6/9 =** QC and maintenance. **6/8 =** Annual preventative maintenance performed by Dionex technician. Pumps rebuilt with new seals.

Gianelli – Pumping, Organic Carbon, EC



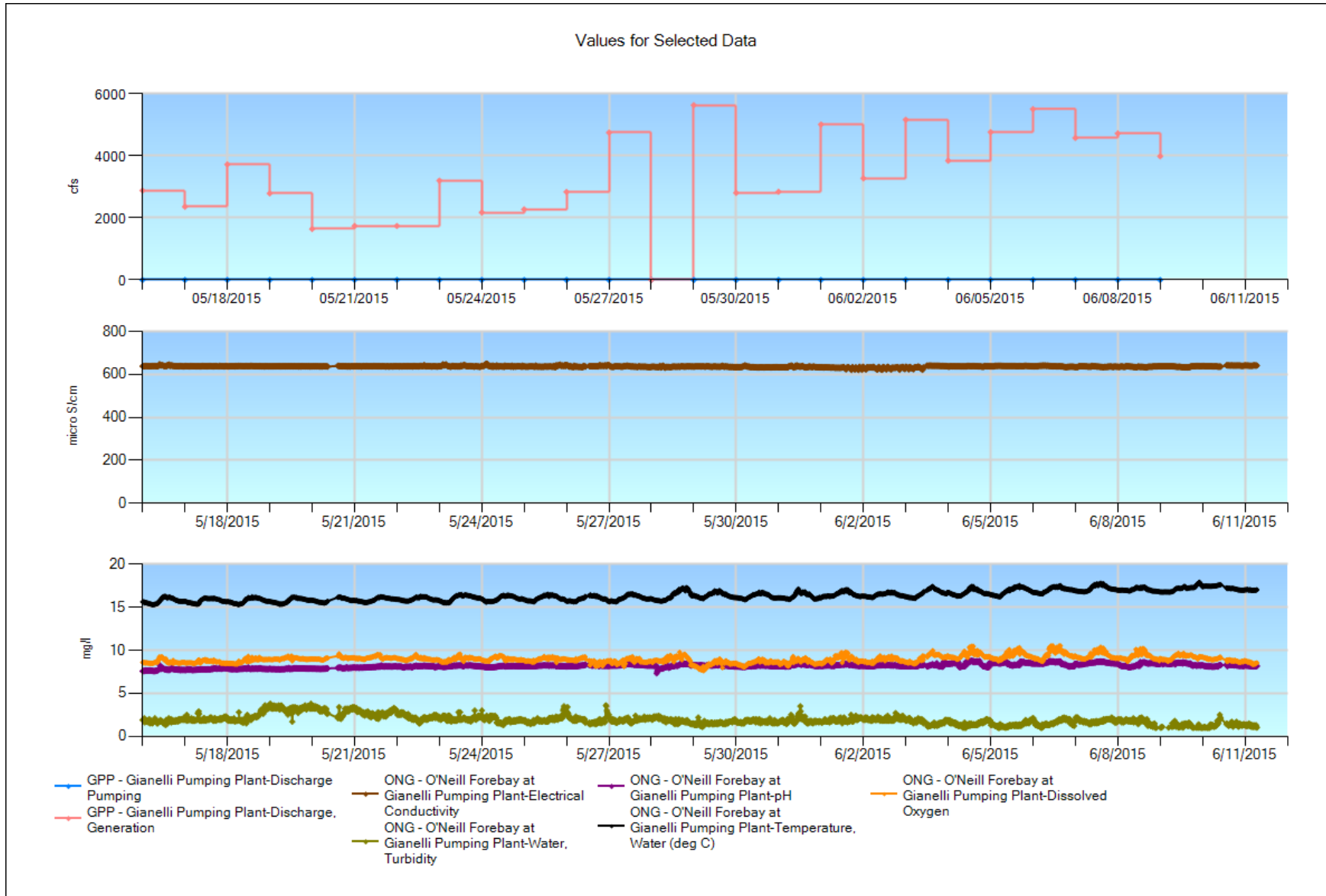
➤ DOC (5/26 – 6/2, intermittent) & TOC (6/1 – 6/2) --- Low flow due to bypass valve setting and/or solenoid valve malfunction caused intermittent readings to measure non-representative water.

Gianelli – Chloride, Sulfate, Bromide, Nitrate

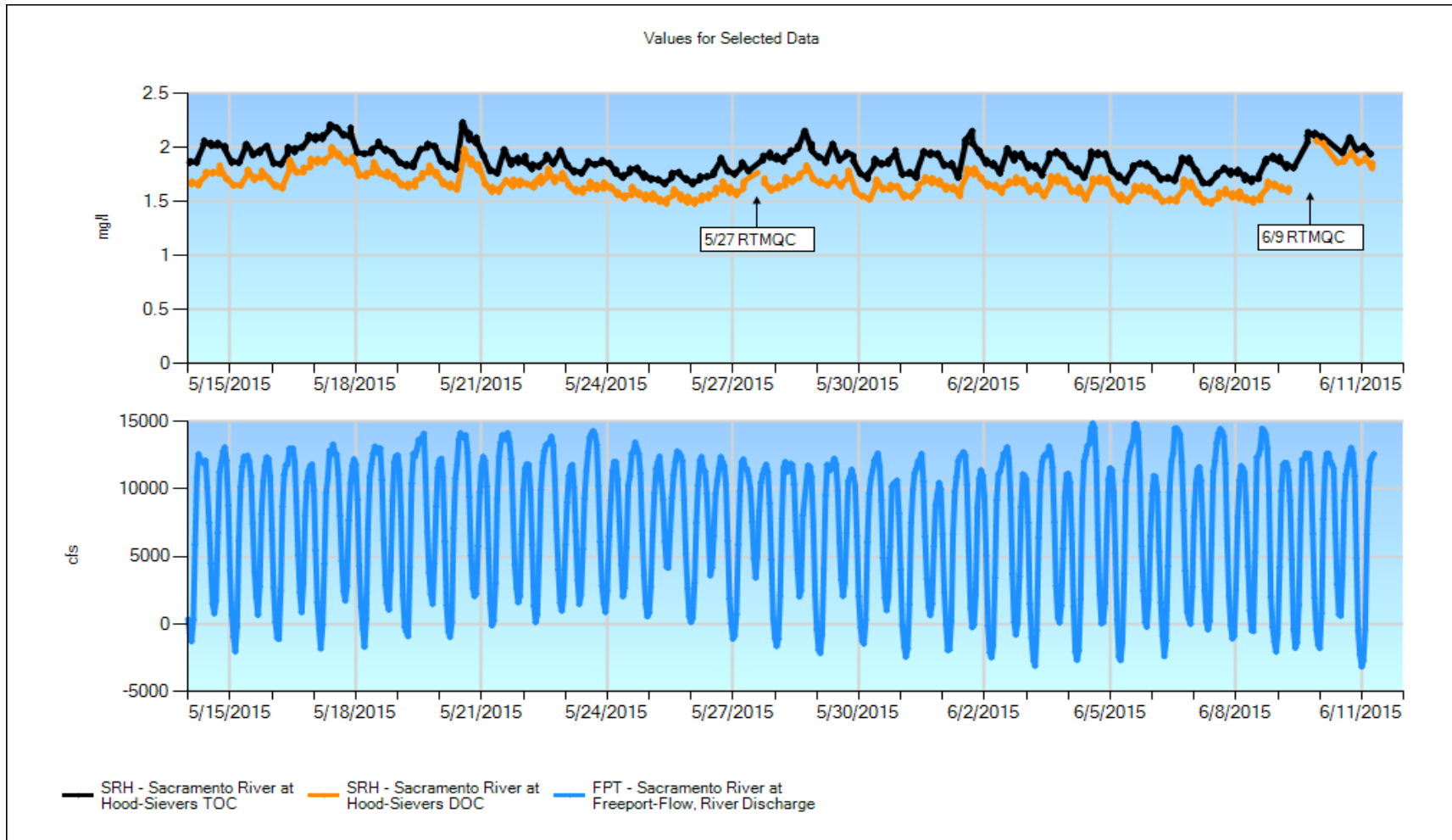


- All parameters (5/16 – 5/18) --- Shutdown due to communication error.
- 5/20 --- Installed new computer to run the Metrohm software exclusively.
- All parameters (5/21 – 5/26) --- The new computer shutdown due to incorrect power/hibernation settings.
- All parameters (5/26 – 6/2, intermittent) --- Low flow due to bypass valve setting and/or solenoid valve malfunction caused intermittent readings to measure non-representative water.

Gianelli – EC, Temperature, pH, DO & Turbidity



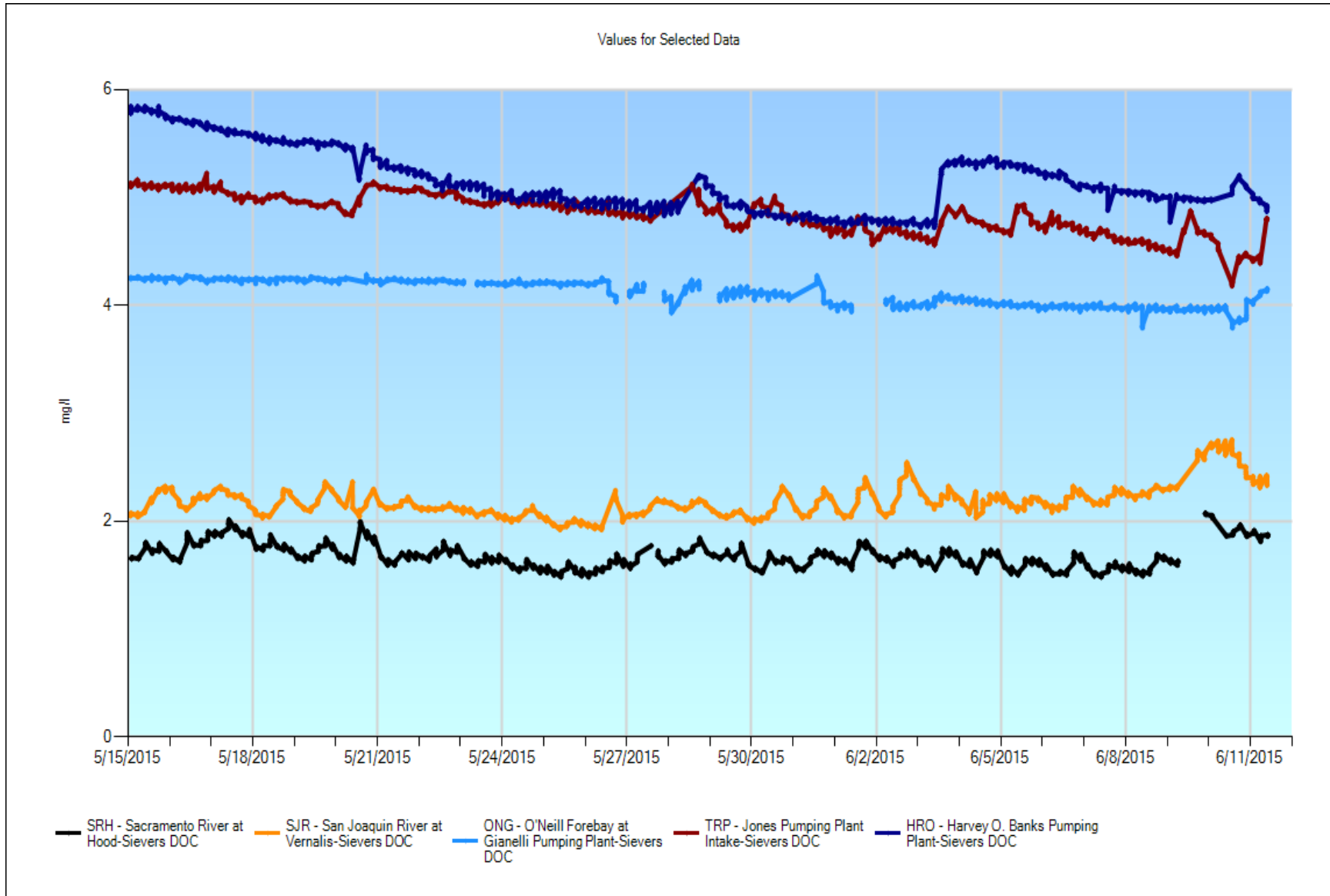
Hood: TOC, DOC – Sacramento River Flow



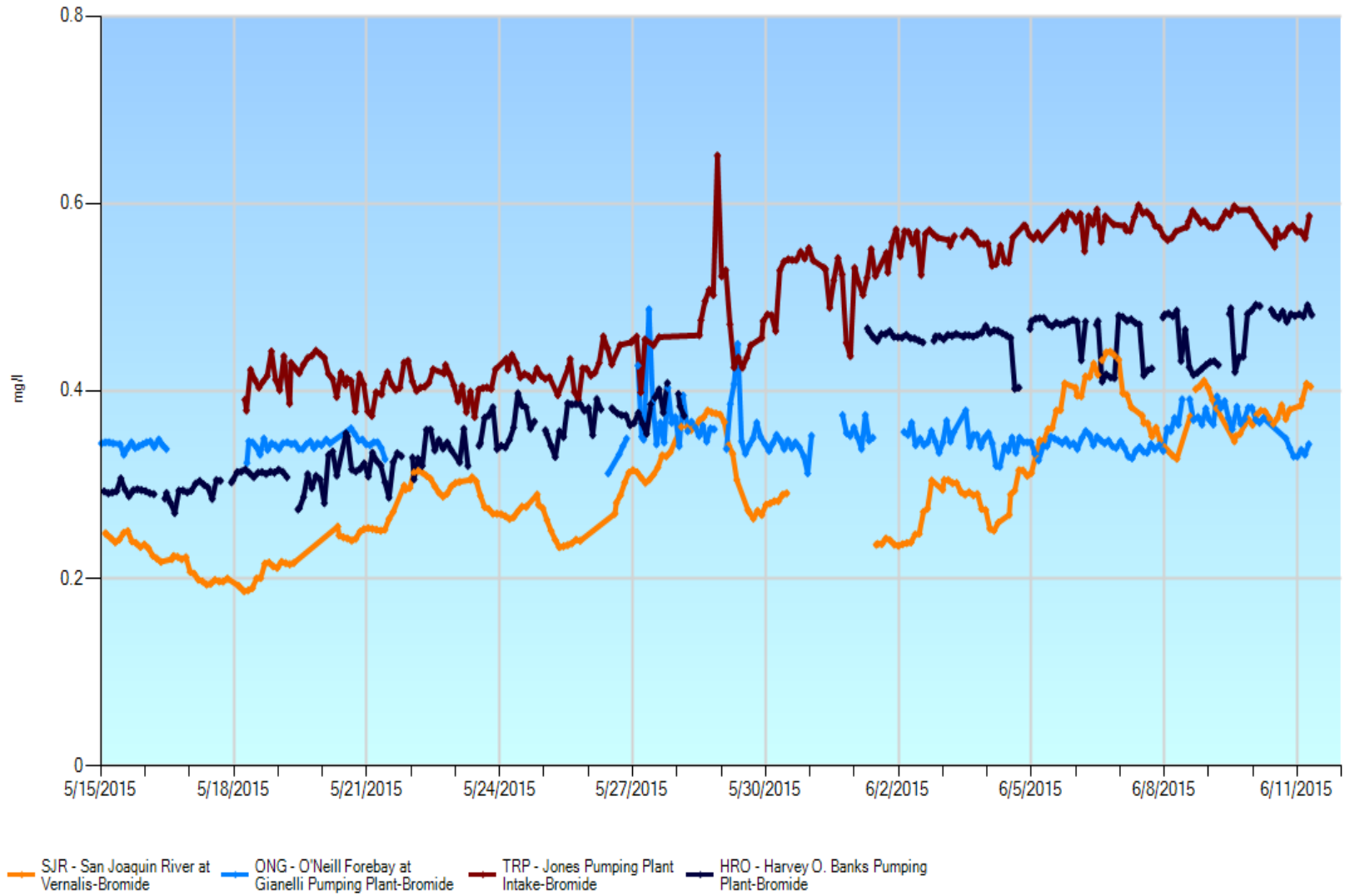
Significant Events: May 14th 2015 to June 11th 2015

- **5/27 RTMQC:** Changed all pre-filters (75, 50, and 5 micron filters) except for the .45micron.
- **6/9 RTMQC:** Changed the 75, 50 and .45 micron filters. The .45micron filter was not flushed prior to install. This caused a spike in DOC values on the first 6 readings and I had to QC the data as unacceptable. Also, the computer restarted around 4:00 AM and Indigo never reopened.

All Station DOC



Values for Selected Data



All Station EC

