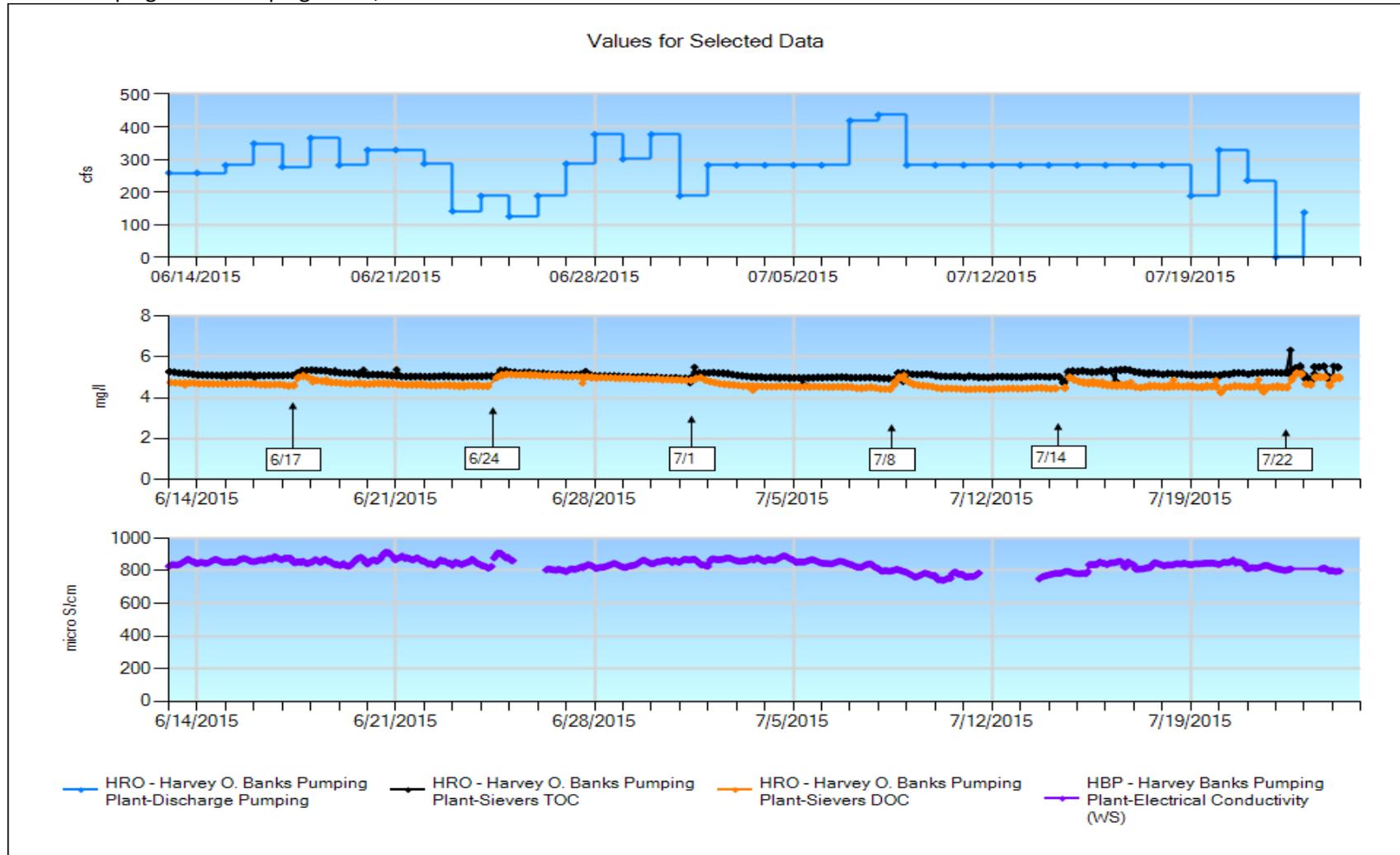
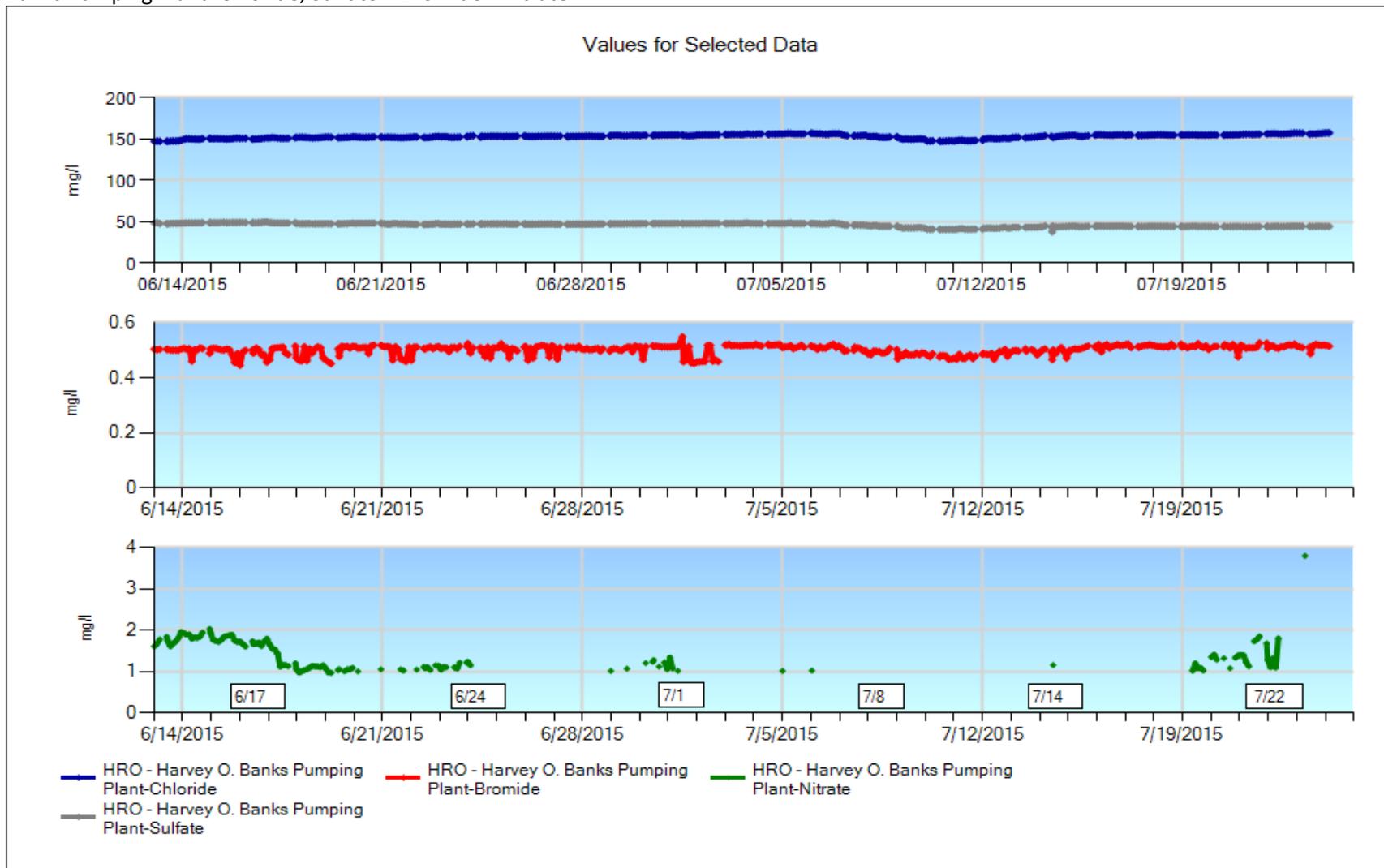


Banks Pumping Plant: Pumping – TOC, DOC - EC



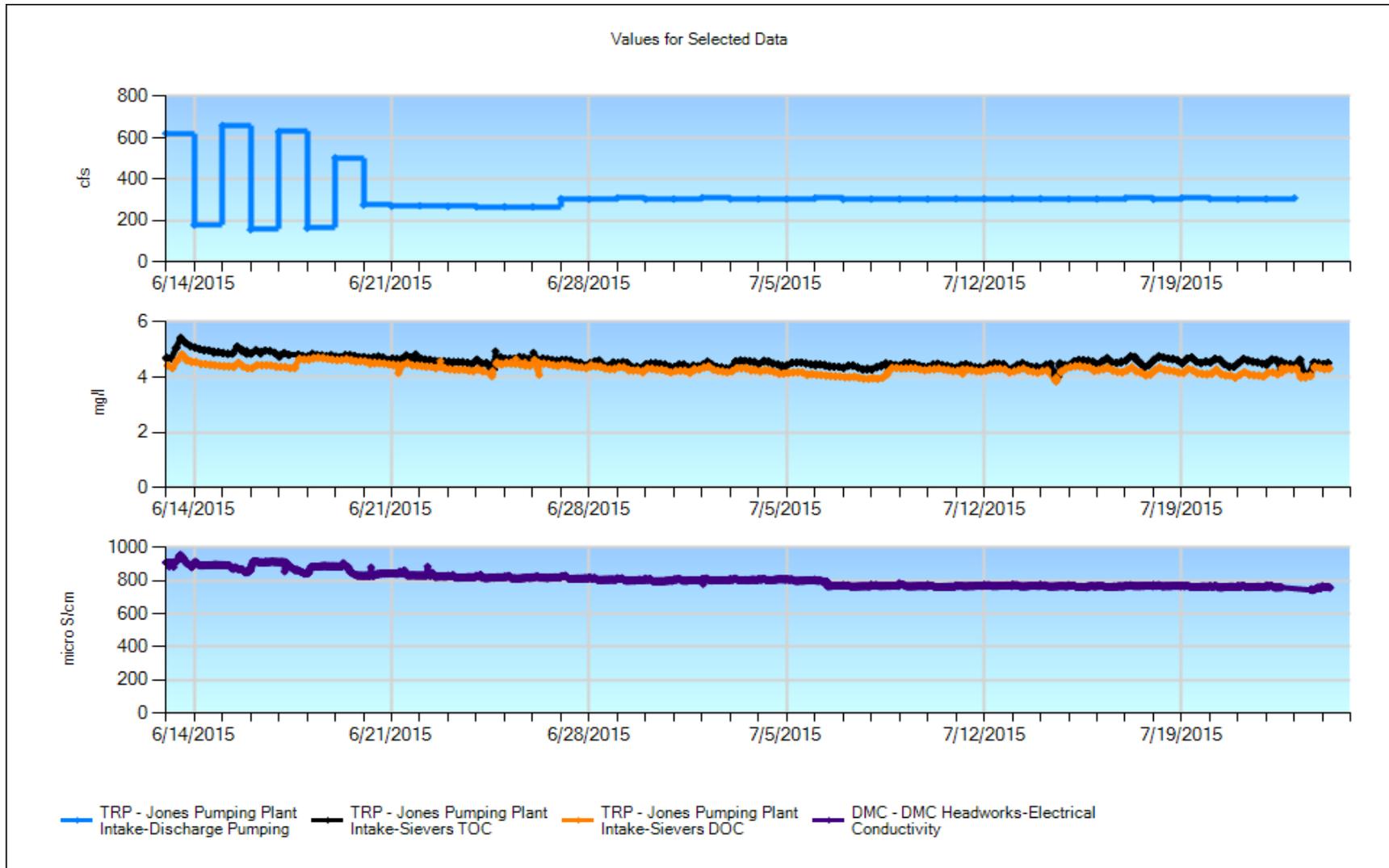
6/17 – Changed all sample delivery system filters  
 6/24 – Changed the 100 and 0.45 um sample delivery system filters, analyzed all QC samples  
 7/1 - Changed all sample delivery system filters  
 7/8 - Changed all sample delivery system filters  
 7/14 - Changed the 100 and 0.45 um sample delivery system filters, analyzed all QC samples  
 7/22 - Changed all sample delivery system filters, zero pumping due to herbicide application in Clifton Court Forebay, 24 hour pumping outage required.

Banks Pumping Plant: Chloride, Sulfate – Bromide - Nitrate



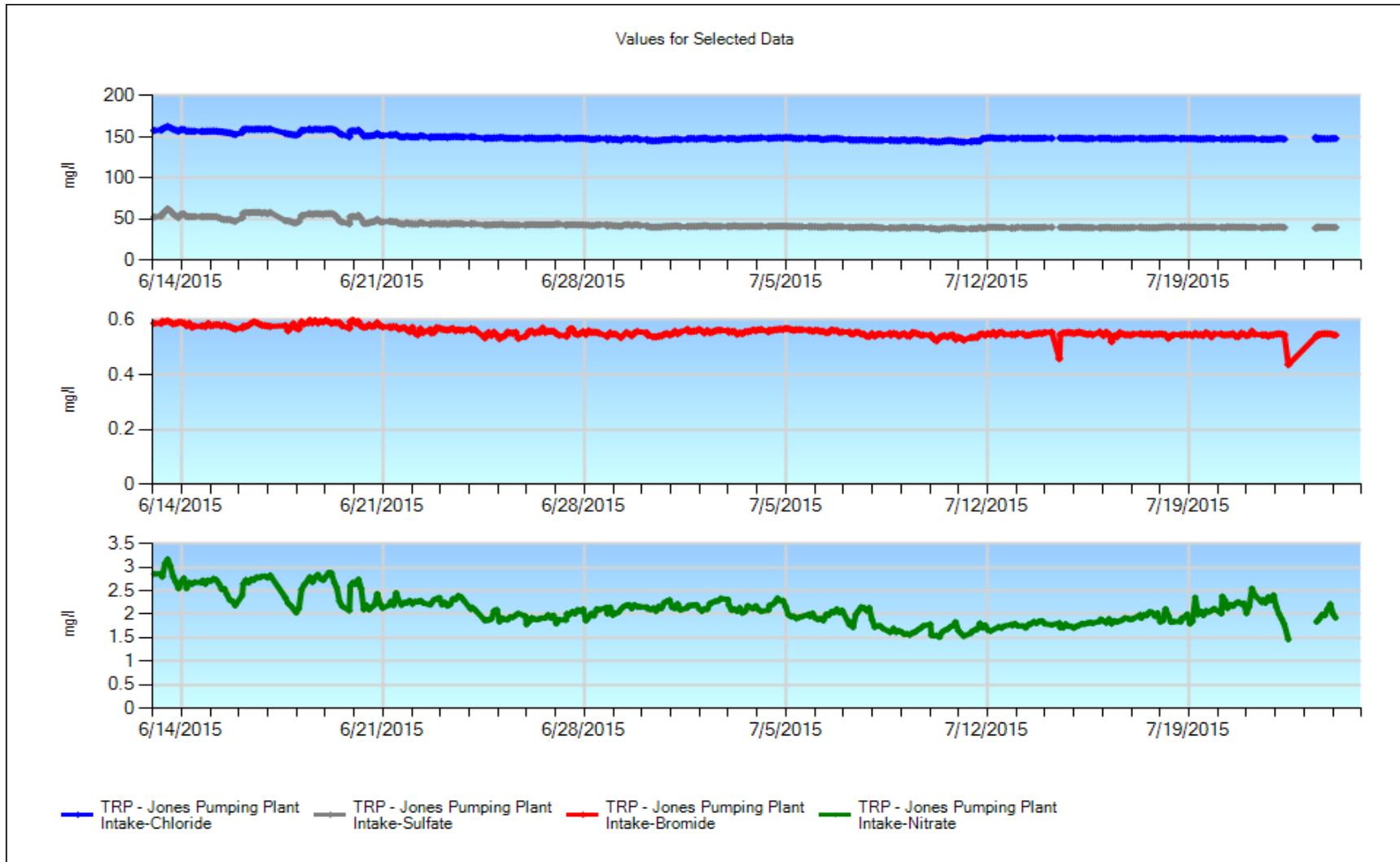
**6/17** – Changed all sample delivery system filters  
**6/24** – Changed the 100 and 0.45 um sample delivery system filters, analyzed all QC samples  
**7/1** - Changed all sample delivery system filters  
**7/8** - Changed all sample delivery system filters  
**7/14** - Changed the 100 and 0.45 um sample delivery system filters, analyzed all QC samples  
**7/22** - Changed all sample delivery system filters

**Jones PP – pumping, organic carbon and EC**



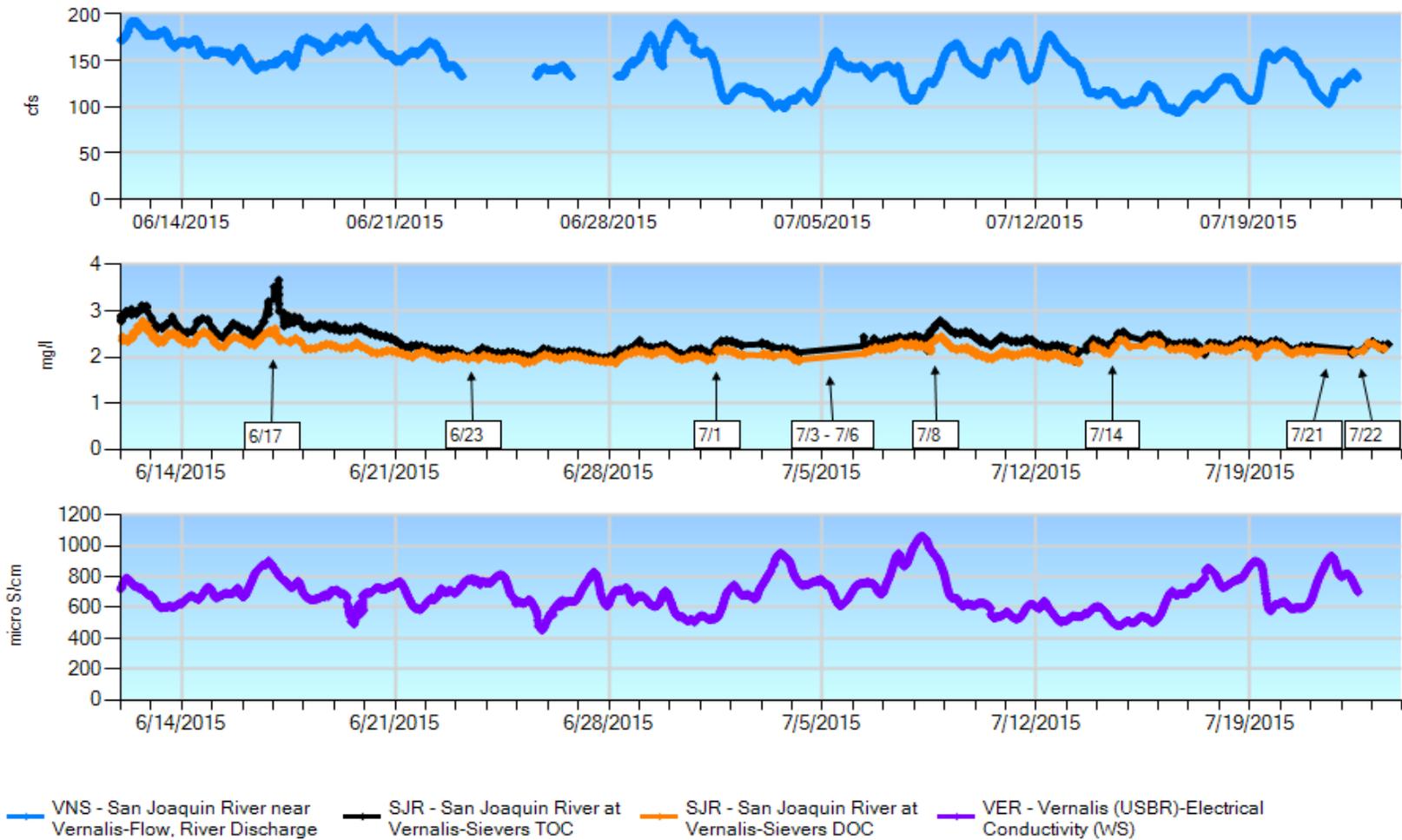
6/17 – all filters changed 6/24 – all filters changed 7/1 – all filters changed 7/8 – all filters changed 7/14 – all filters changed 7/22 – all filters changed except for the 1 micron filter.

### Jones PP – chloride, sulfate, bromide and nitrate

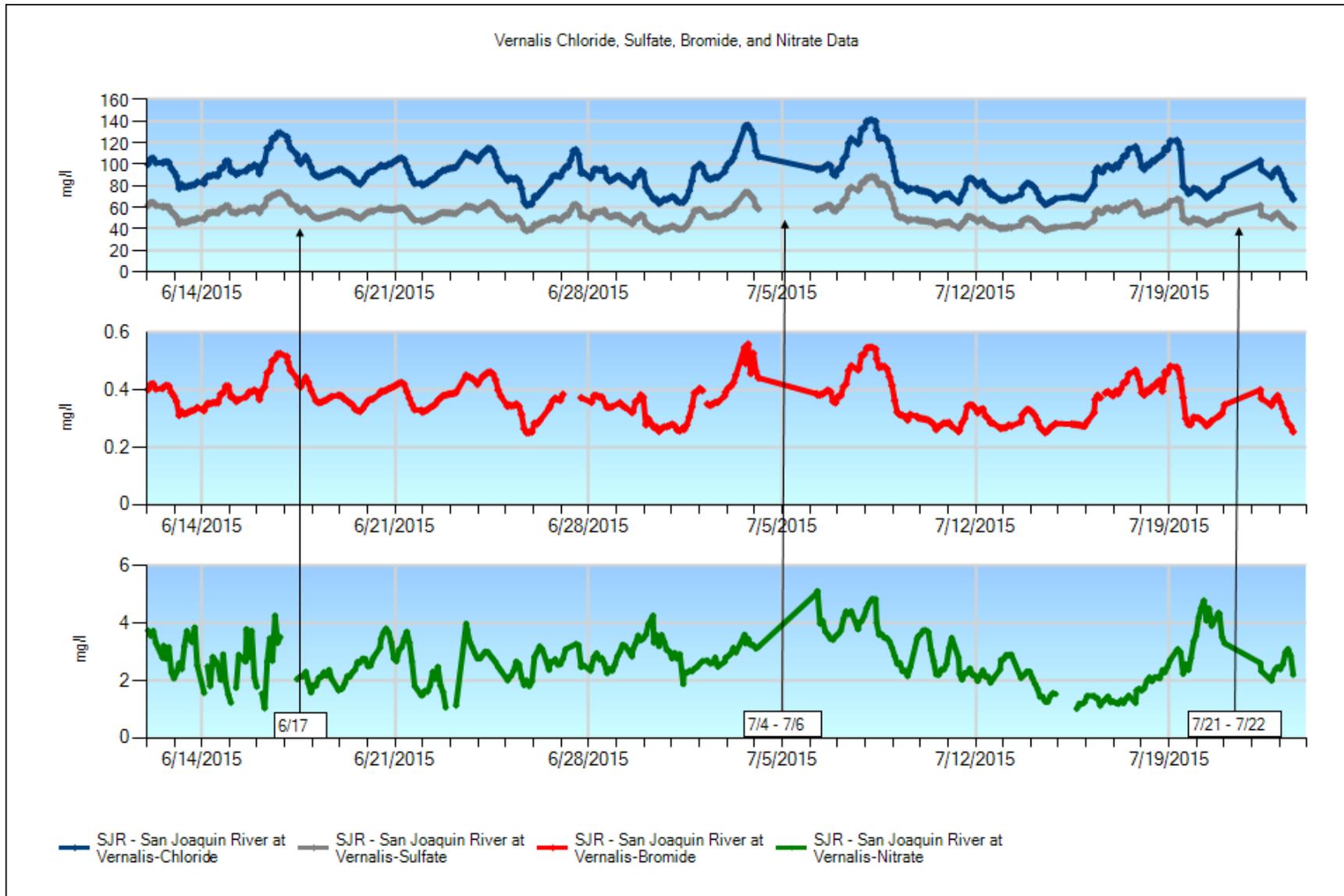


**7/22** – There was an apparent leak in the SM valve. The Dionex was taken offline. **7/23** –The sample inlet line was threaded incorrectly and needed to be reseeded and tightened.

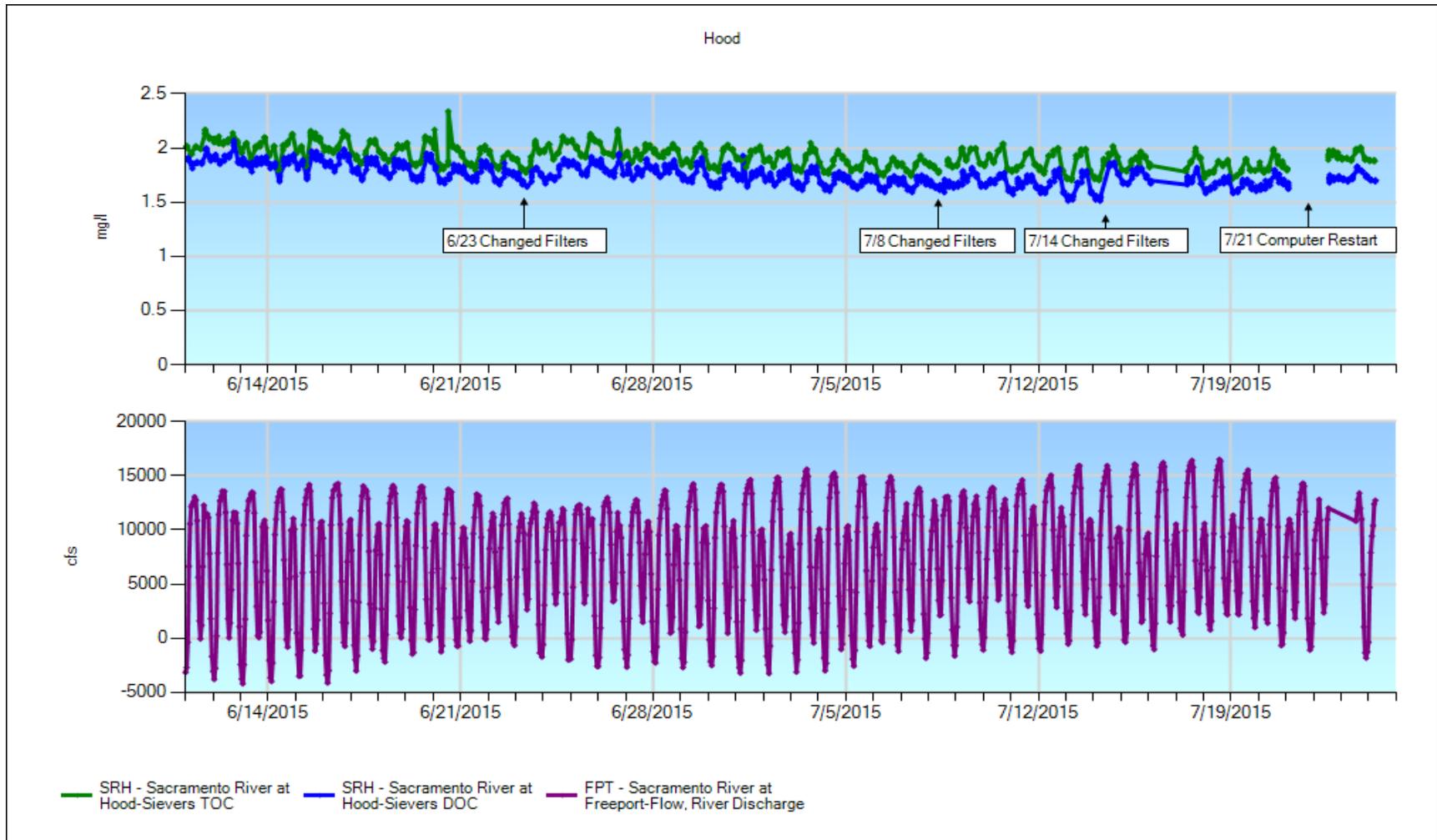
Vernalis Flow, Organic Carbon, and Electrical Conductivity Data



**Filter Changes:** 6/17, 7/1, 7/8, 7/22 = Prefilters only. 6/23, 7/14 = All filters. **Events:** 7/1: Computer Shut-down/Reset, many odd Windows open. 7/3 – 7/6: Steve cleaned-up the computer (physically and for viruses), another shut-down over the holiday weekend. 7/21: USGS installed nitrate sensor, MWQI installed/relocated intake structure. Computer reset closed programs and data stream. 7/22: Installed new suction pump.



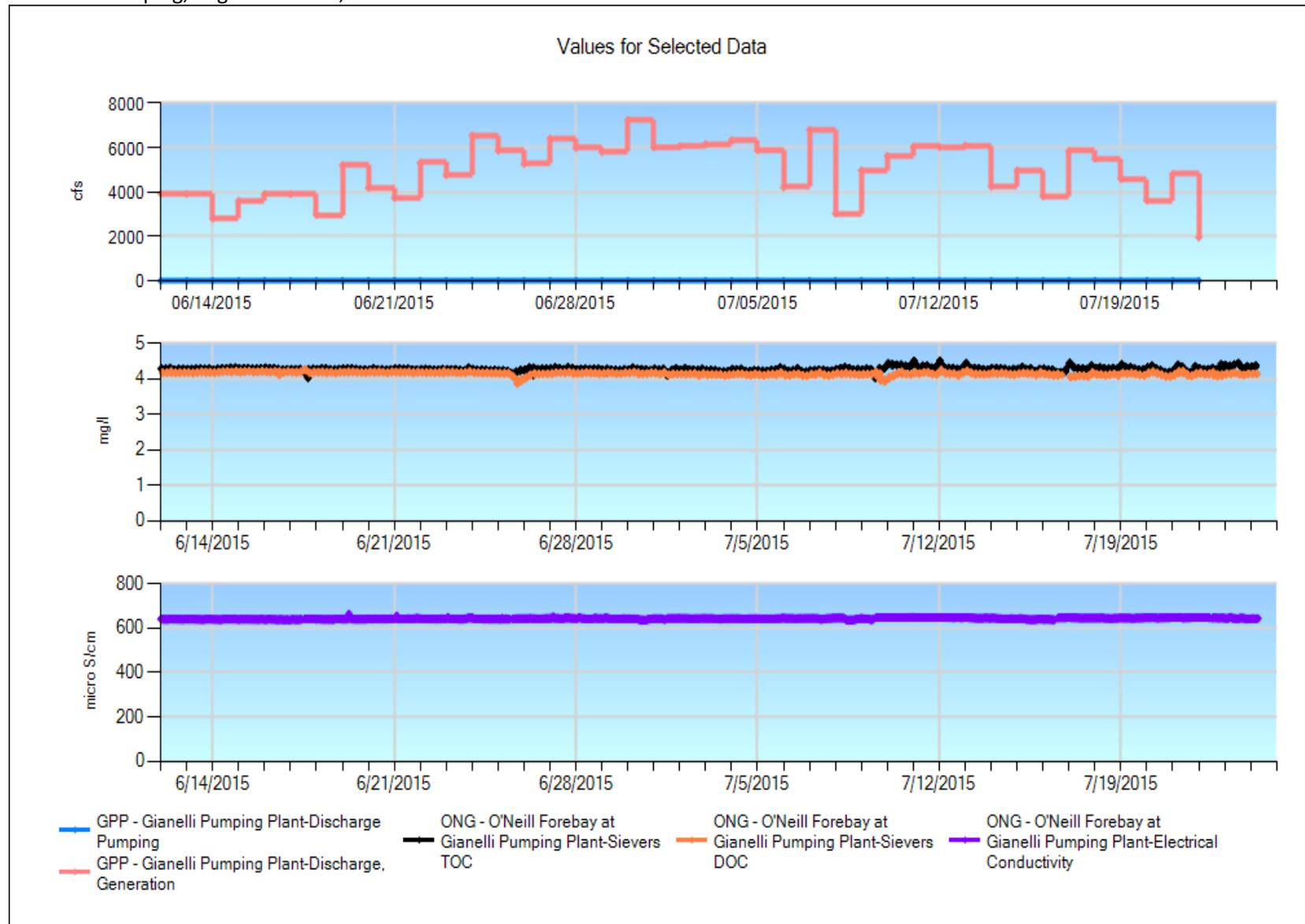
**Events:** 6/17: Replaced upstream filters on guard and analytical columns, reducing pressure and extending column life. 7/4 – 7/6: Computer shut-down/reset closed Dionex programs over weekend, resulting in data loss. 7/21 – 7/22: Computer shut-down/reset closed Dionex programs.



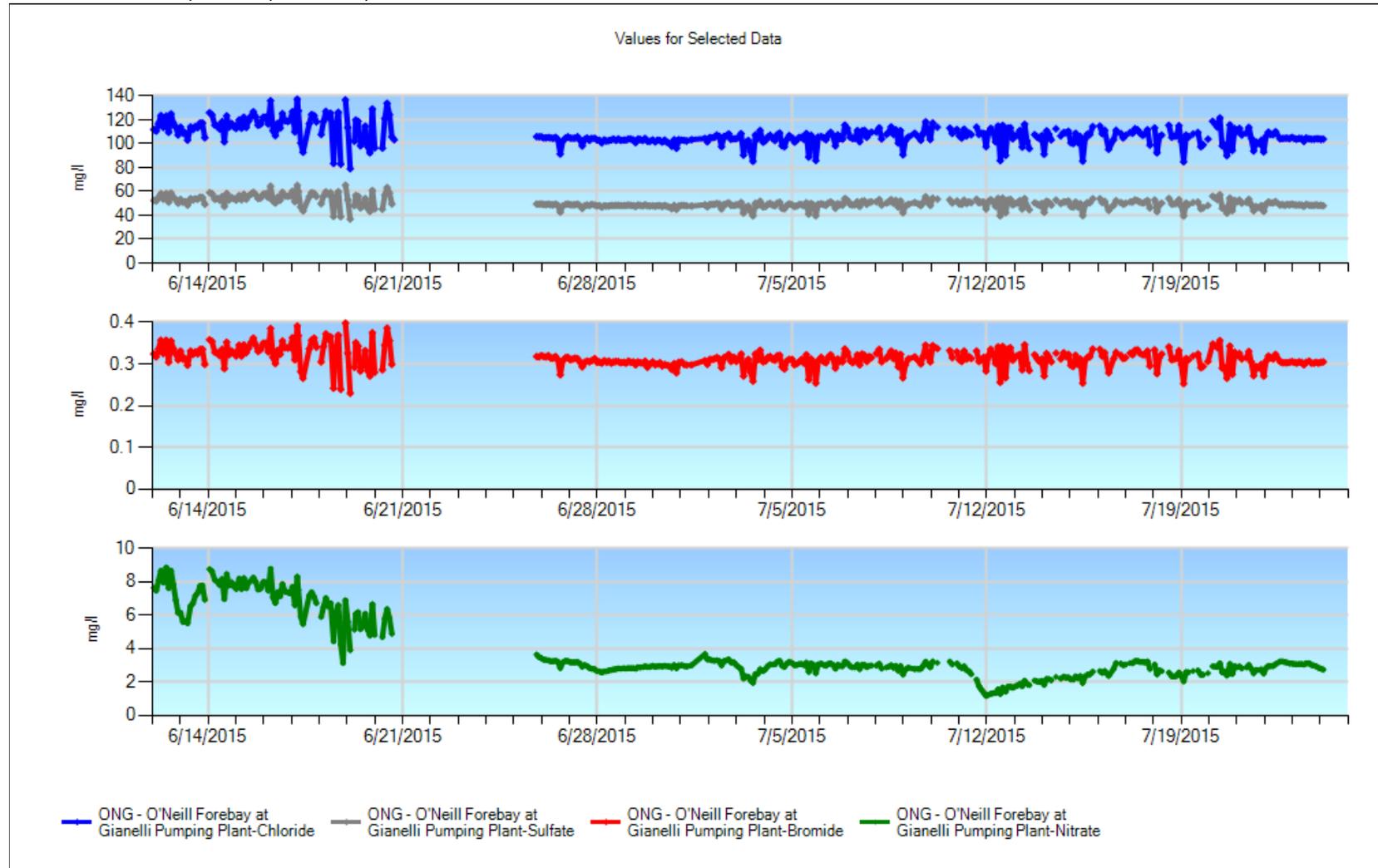
### Significant Events: June 11<sup>th</sup> 2015 to July 24<sup>th</sup> 2015

- **6/23 RTMQC:** Changed all pre-filters (75, 50, and 5 micron filters) except for the .45micron.
- **7/8 Filter Change:** Changed the 75, 50micron filters.
- **7/14 RTMQC:** Changed .45 and 75 micron filter. Cleaned some of lines
- **7/21 Computer Restart:** The computer restarted causing Indigo to shut down. I changed the windows update settings so the computer will not shut down anymore.

Gianelli – Pumping, Organic Carbon, EC

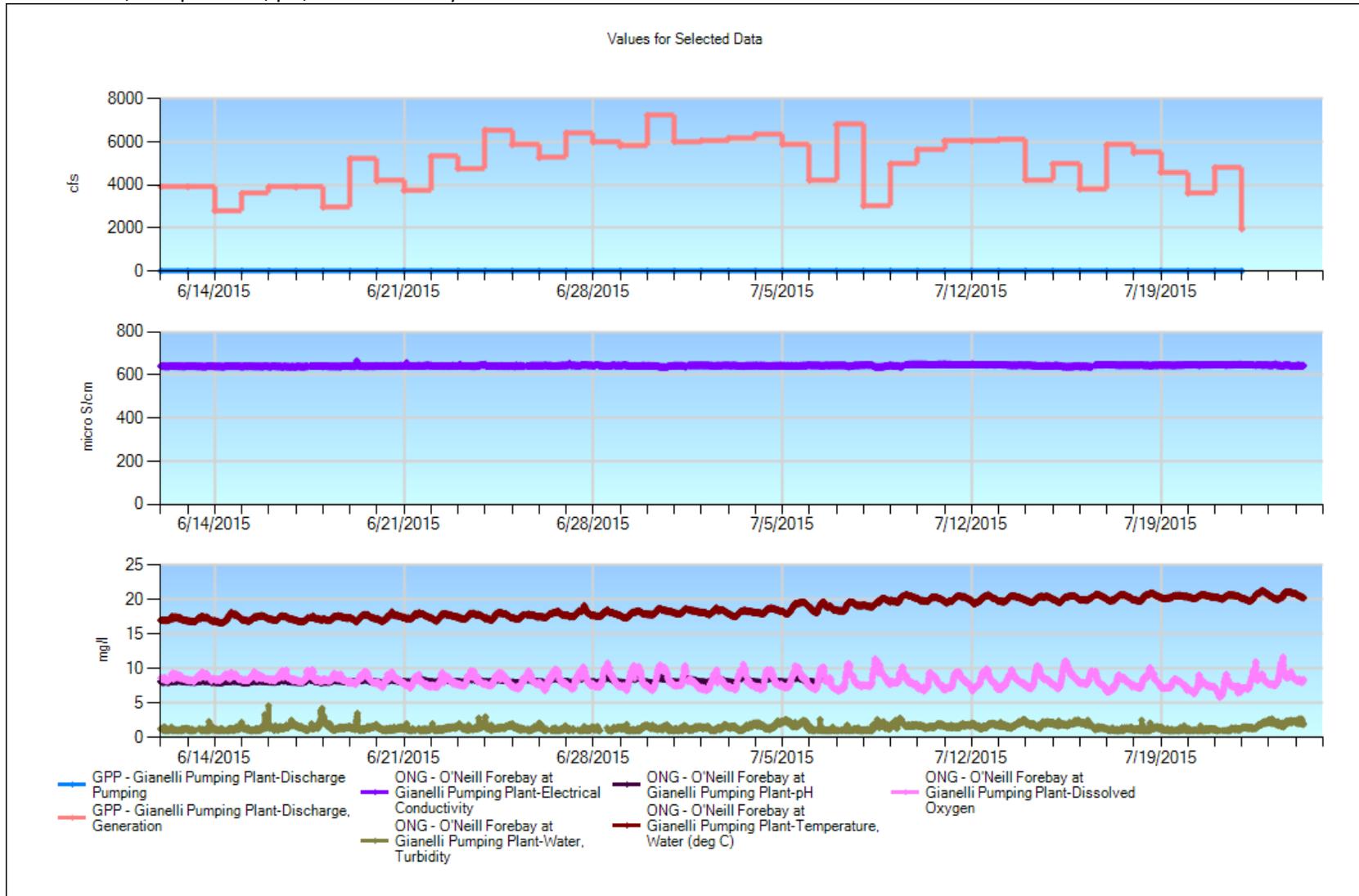


## Gianelli – Chloride, Sulfate, Bromide, Nitrate



- All parameters (6/14 – 6/21) --- Old guard column was leaking and caused large variations in the analysis.
- All parameters (6/20 – 6/25) --- Peaks began splitting due to old column which was replaced on 6/25.
- All parameters (7/7 – 7/21) --- Transfer coil (used to pull in samples) was retaining air bubbles, causing occasional erroneous samples.

Gianelli – EC, Temperature, pH, DO & Turbidity



➤ pH (7/6 - present) --- pH probe housing was leaking and malfunctioned. pH will be out until we can replace the housing.