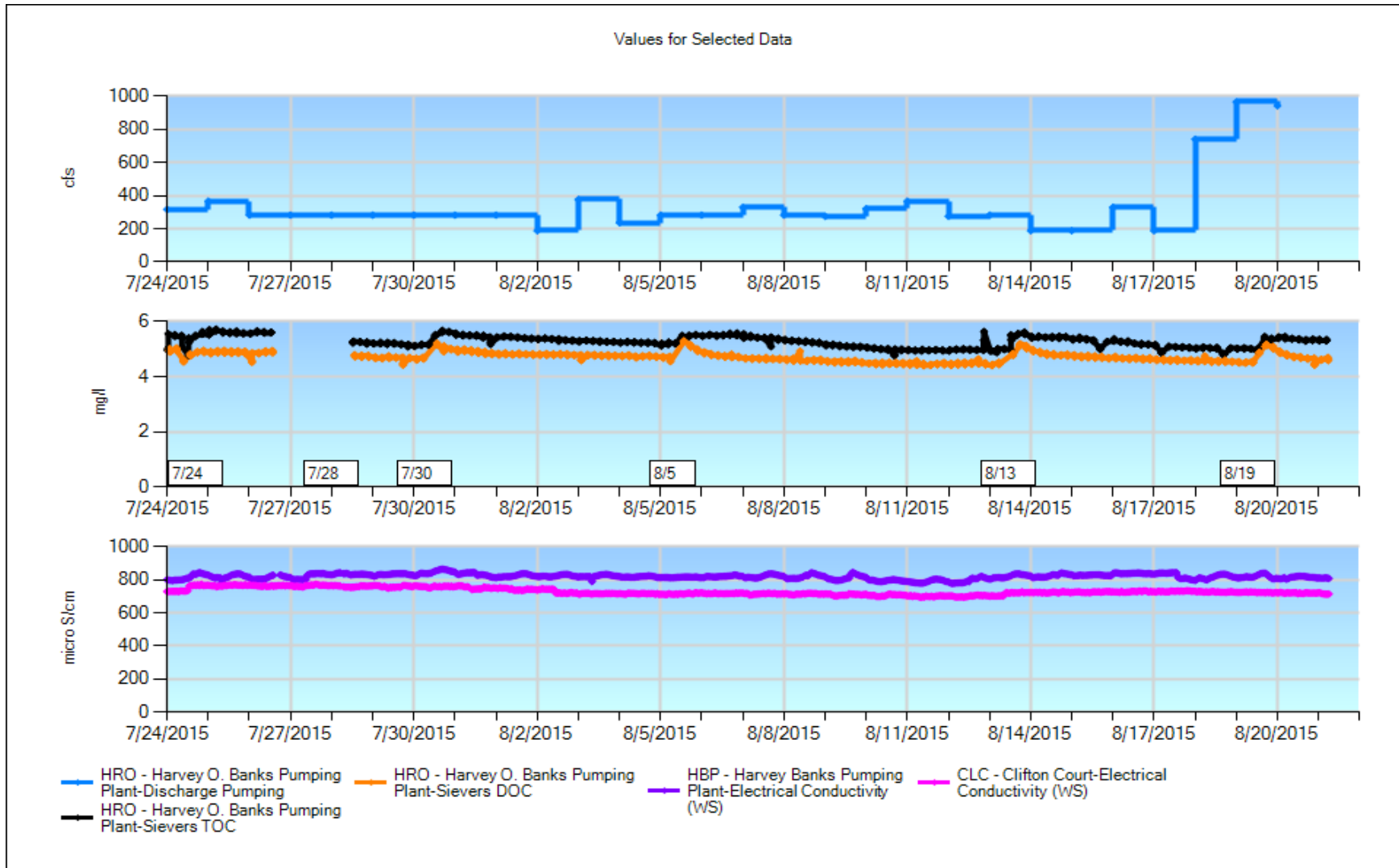
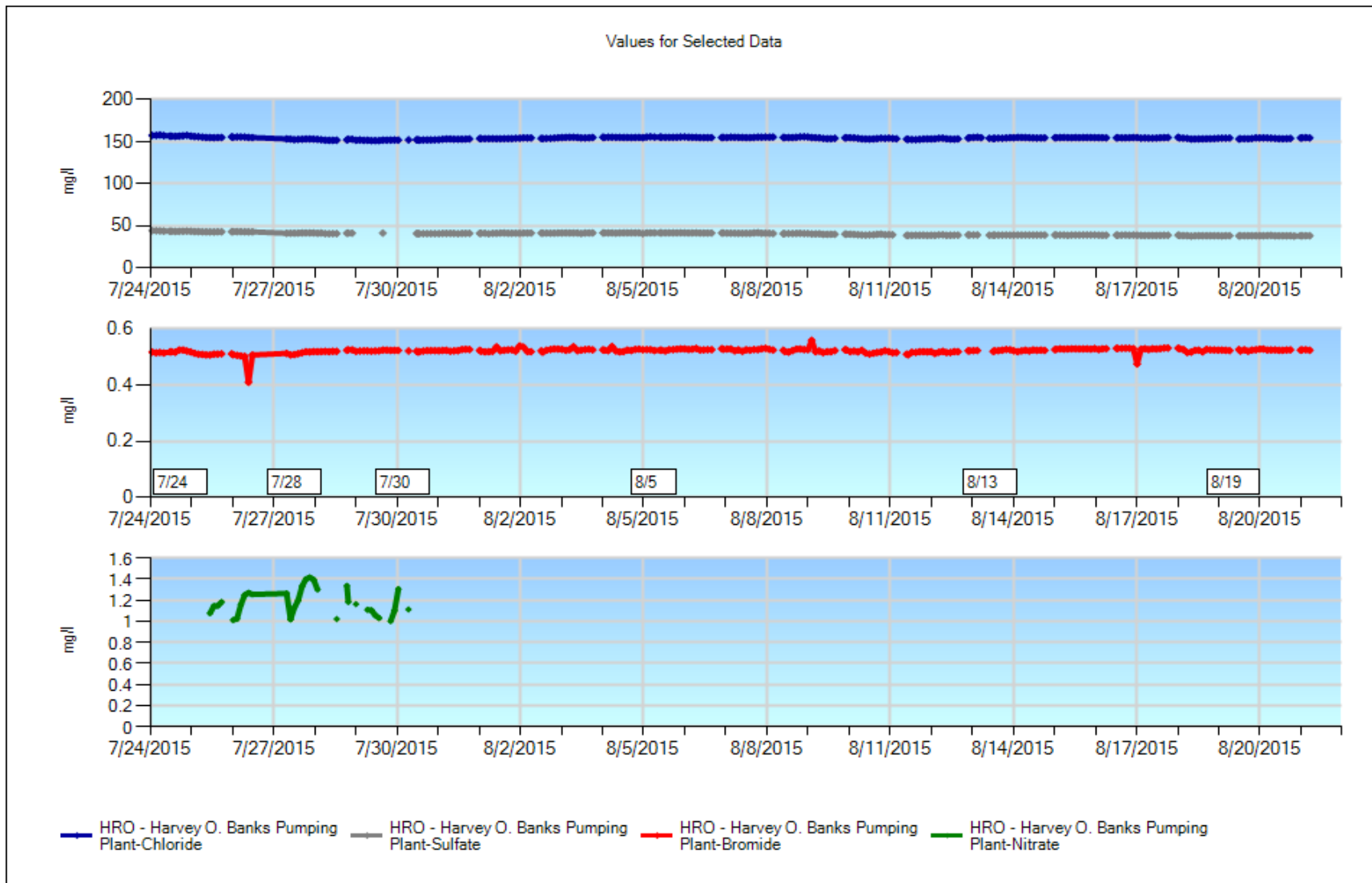


Banks Pumping Plant: Pumping – TOC, DOC - EC



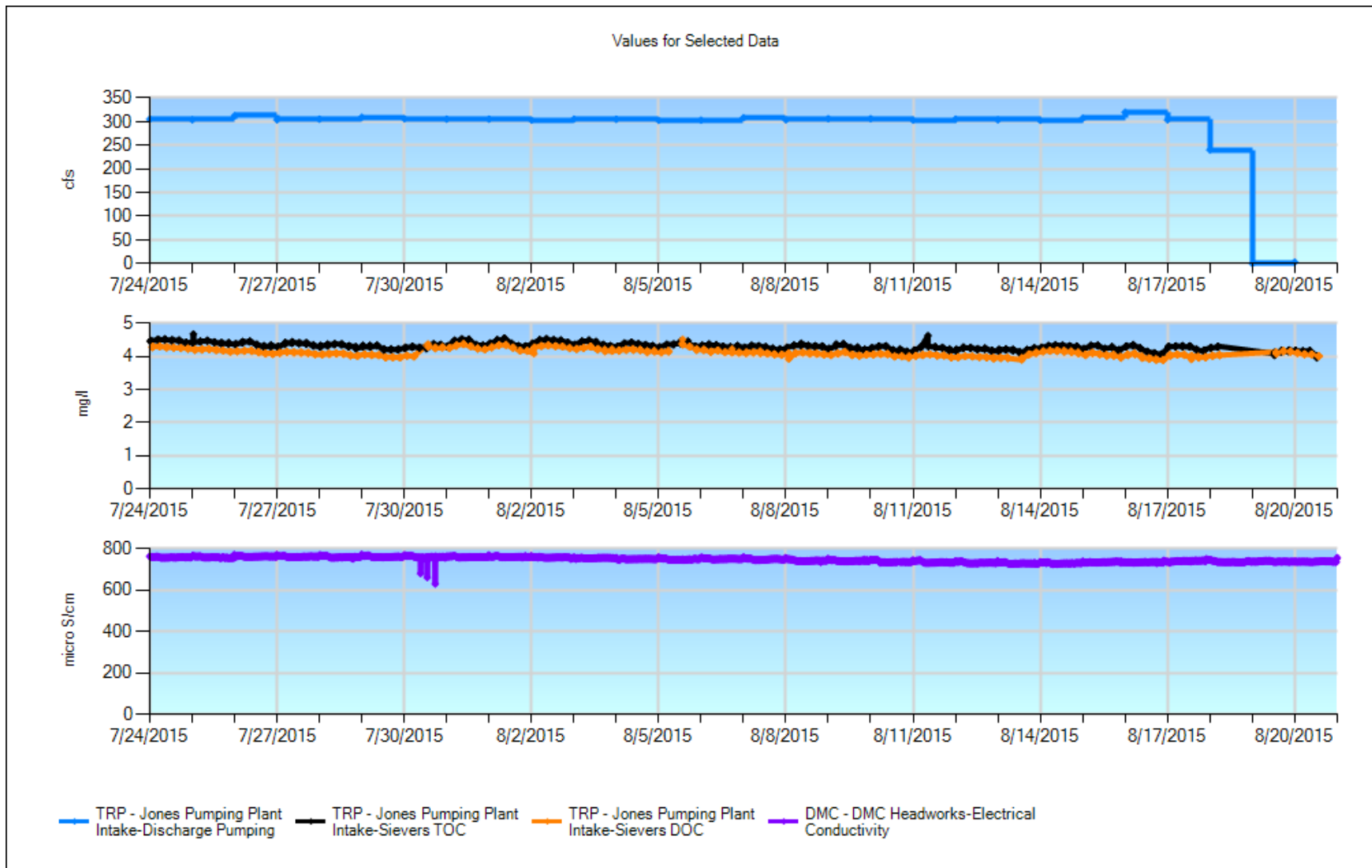
7/24 – Sample intake clog – 100 um filter change 7/28 – Station power outage 7/30 – Instrument QC, sample delivery system filter change 8/5 – Sample delivery system pre-filter change 8/13 – Sample delivery system filter change 8/18 – Increased pumping to make up for lost pumping at Jones 8/19 – Sample delivery system filter change

Banks Pumping Plant: Chloride, Sulfate, Bromide, Nitrate



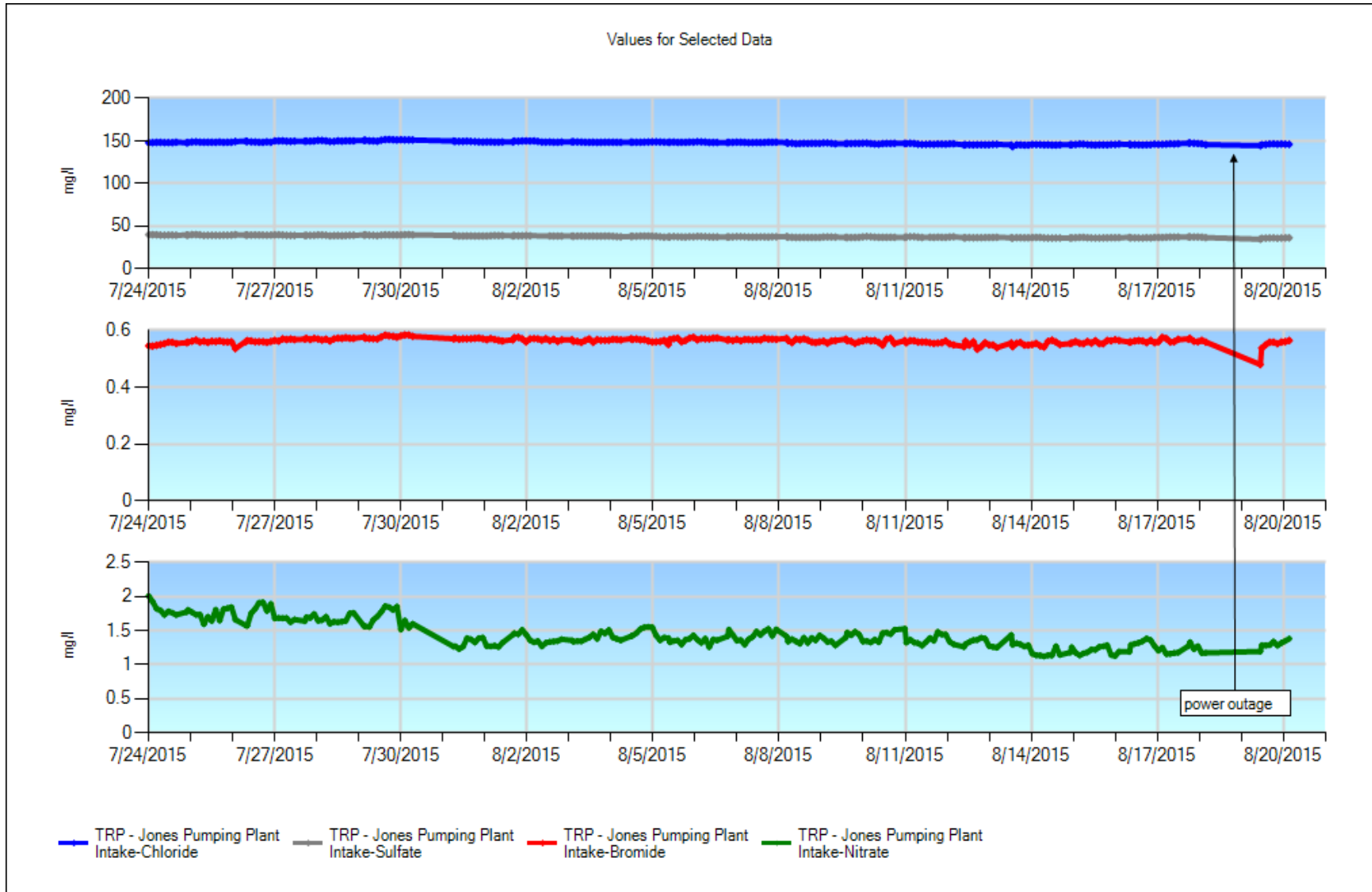
7/24 – Sample intake clog – 100 um filter change **7/28** – Station power outage **7/30** – Instrument QC, sample delivery system filter change **8/5** – Sample delivery system pre-filter change **8/13** – Sample delivery system filter change **8/19** – Sample delivery system filter change

Jones PP – pumping, organic carbon, and EC

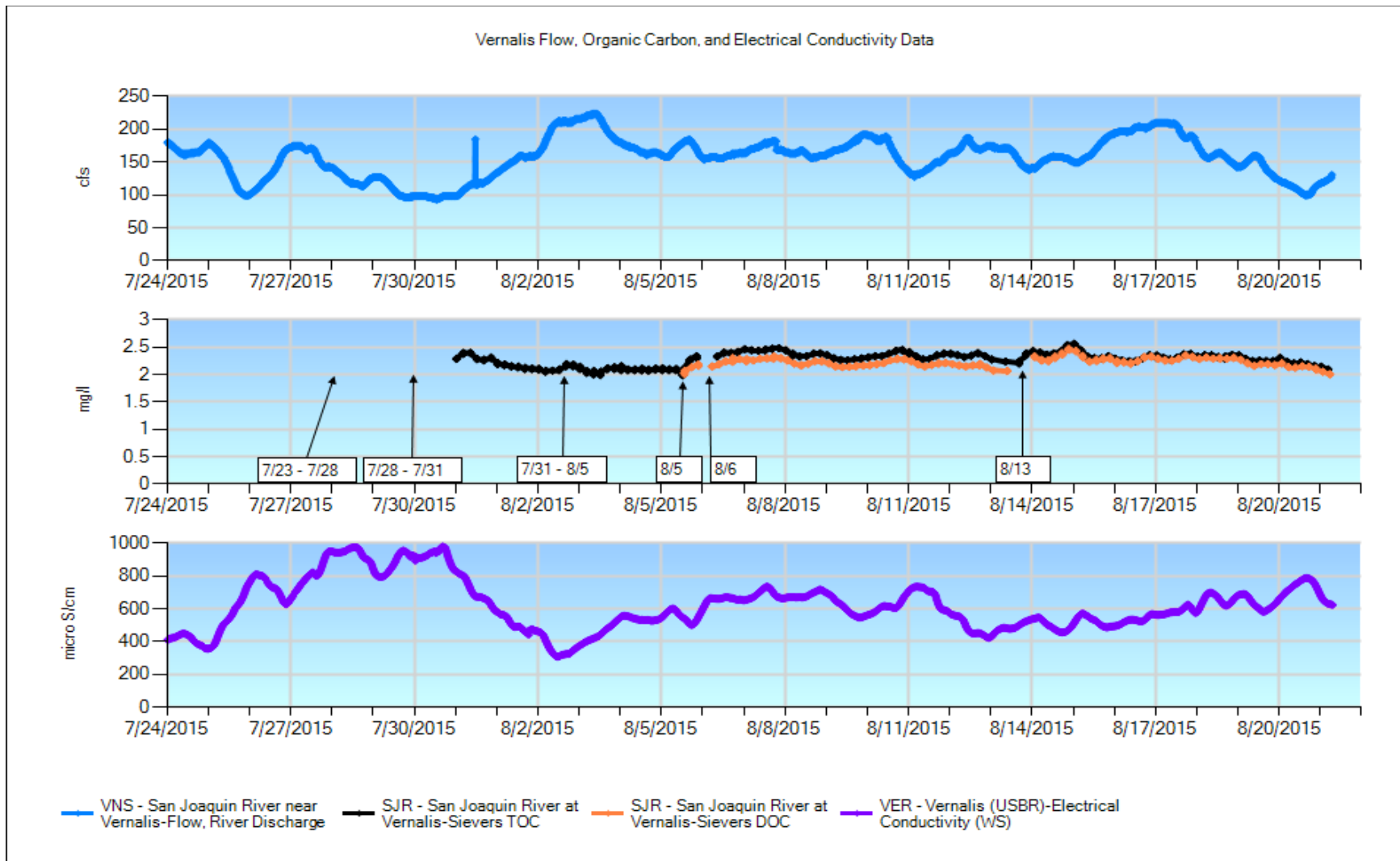


7/30 – changed all filters, replaced UV lamp. **8/5** – changed all filters except the 1 micron filter. **8/13** – changed all filters. **8/18 – 8/19** – flooding at the pumping plant caused power to be shut off to the Sievers. **8/19** – changed all filters except the 1 micron filter, restarted instruments.

Jones PP – chloride, sulfate, bromide and nitrate

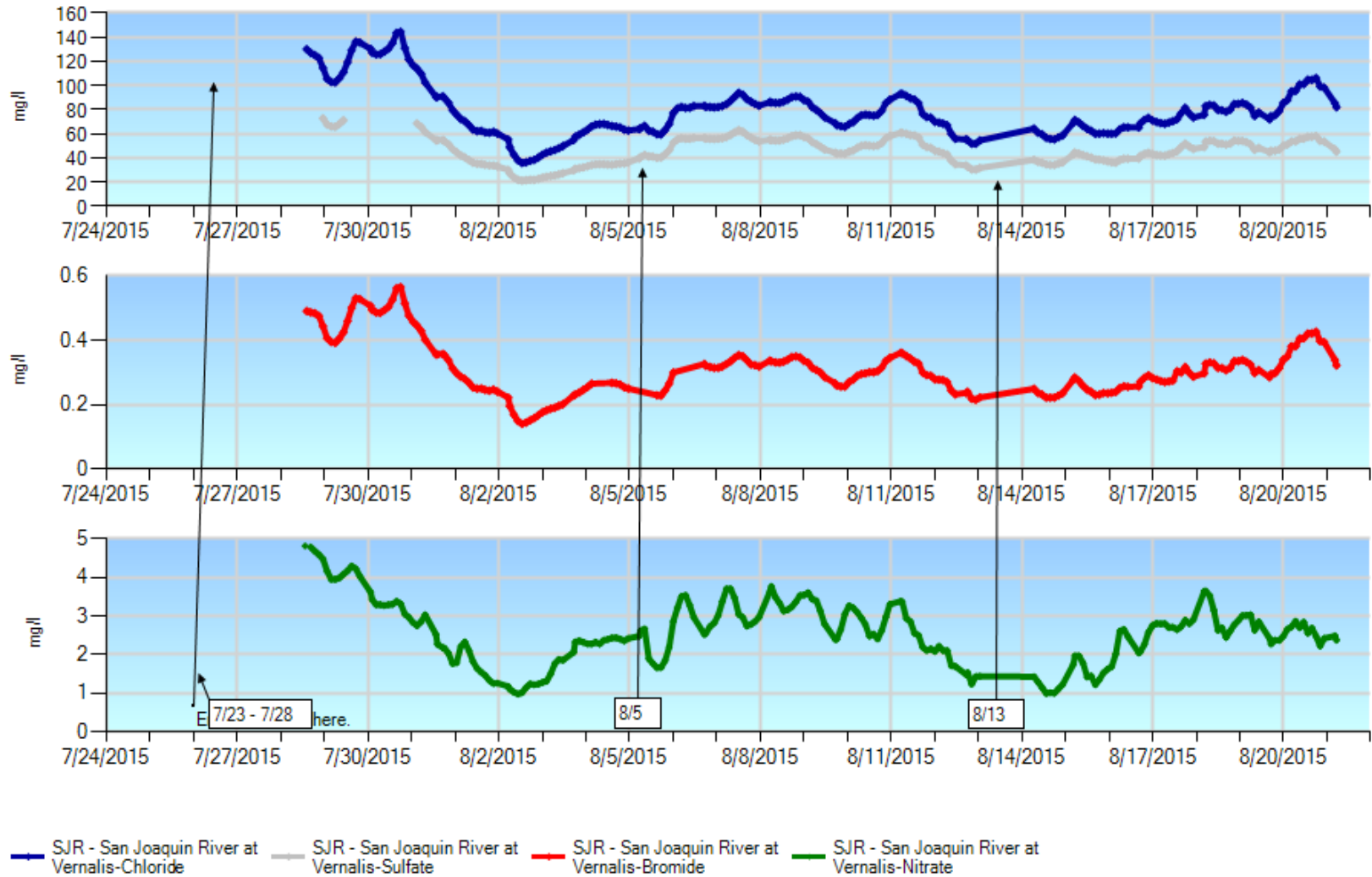


8/18 – 8/19 – flooding at the pumping plant caused power to be shut off to the Dionex. 8/19 – restarted the Dionex.



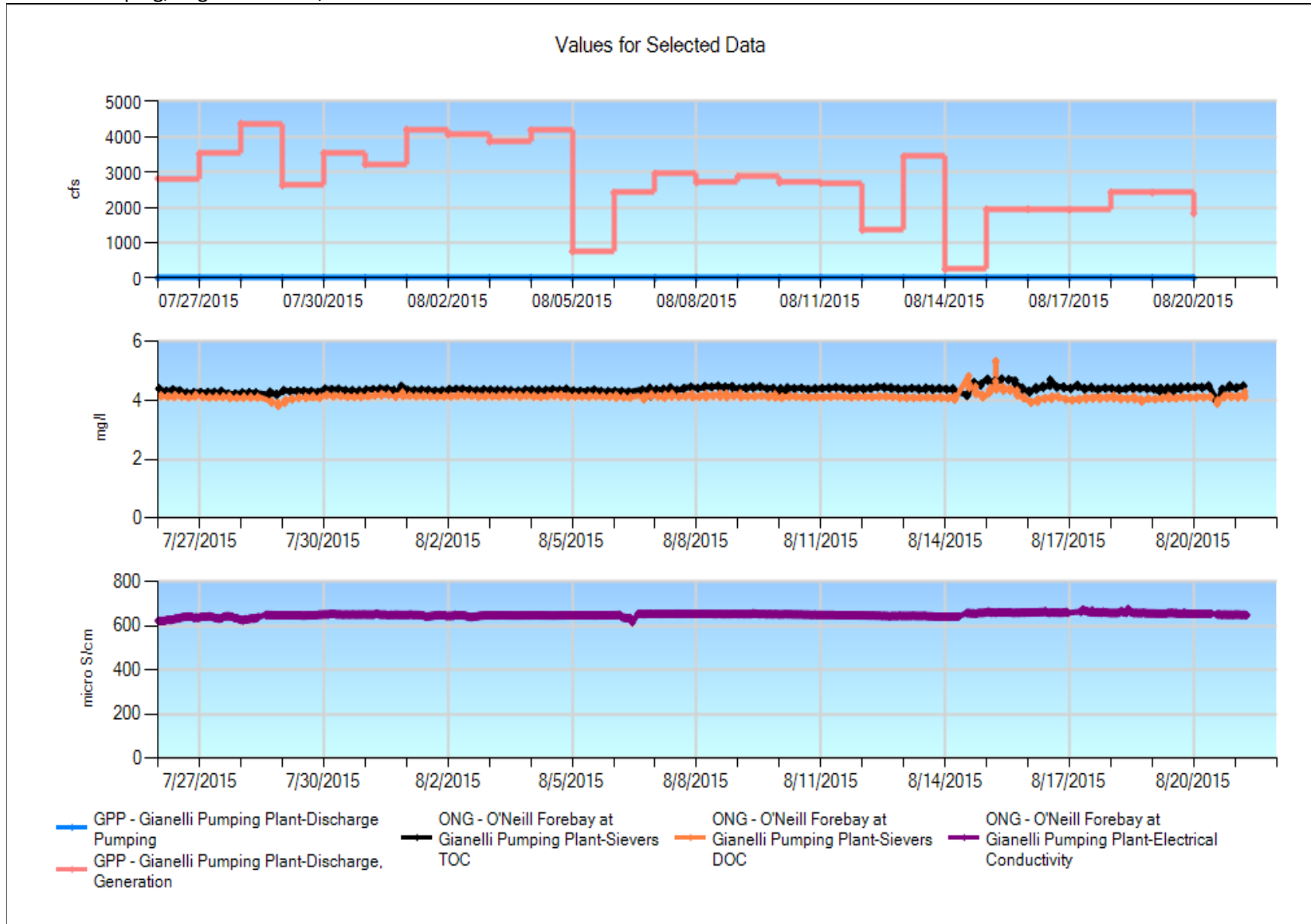
Filter Changes: 7/28, 8/5 = prefilters only. 8/13 = All filters. **Events:** 7/23 – 7/28: New pump overheated and tripped circuit breaker. Old pump reinstalled on 7/28. 7/28 – 7/31: Tripped breaker also cut power to the modem. TOC data archived on Sievers needs to be exported manually. 7/31 – 8/5: DOC solenoid valve burned out; replaced on 8/5 along with new reagent cartridges and prefilters. Brought SUNA inside. 8/6: Acid bubble from new cartridge resulted in artificially high carbon numbers; data edited out. 8/13: All new filters, cleaned old pump intake.

Vernalis Chloride, Sulfate, Bromide, and Nitrate Data

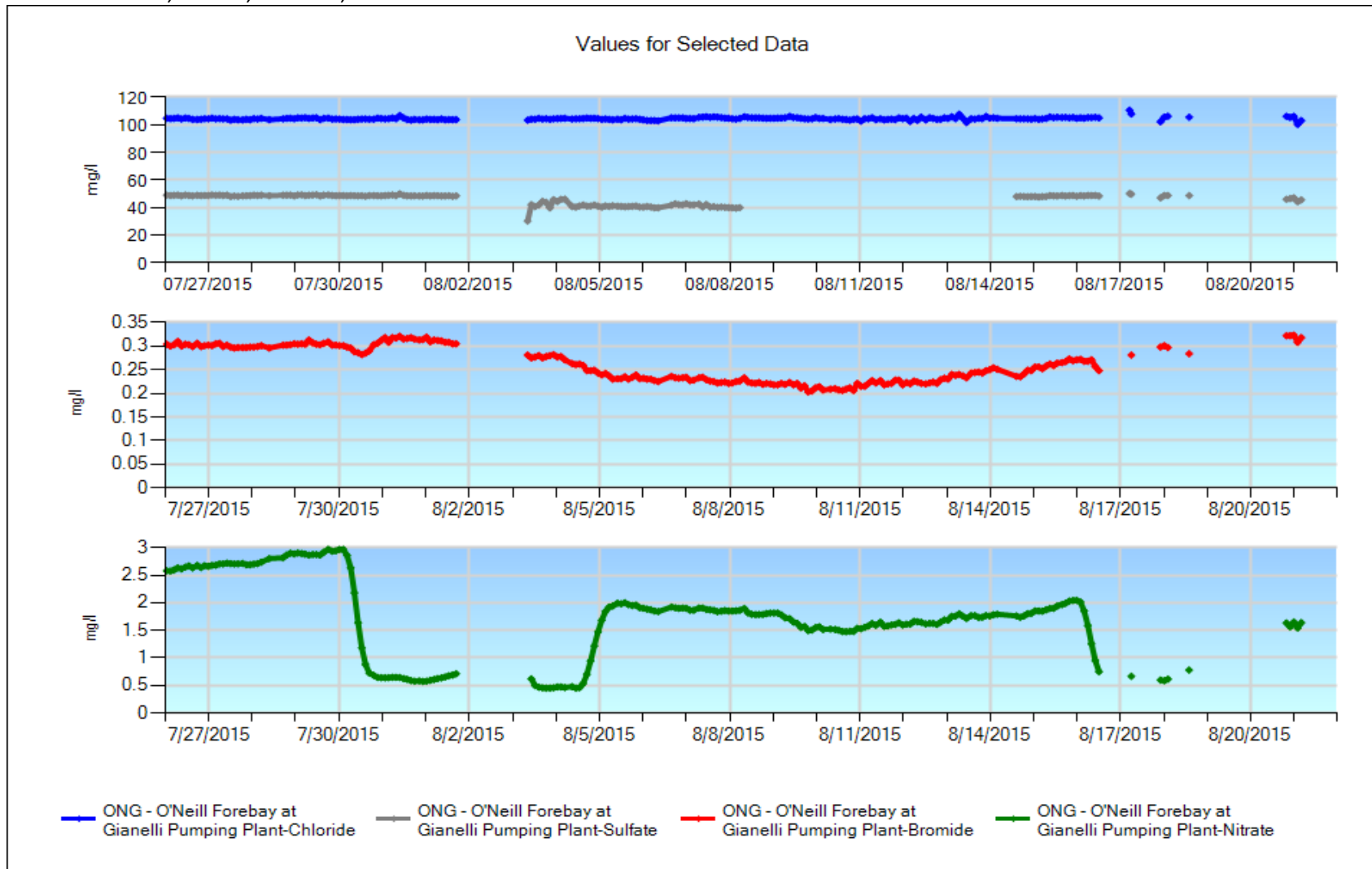


Events: 7/23 – 7/28: New pump overheated and tripped circuit breaker. Old pump reinstalled on 7/28. 8/5: New prefilters. 8/13: All new filters.

Gianelli – Pumping, Organic Carbon, EC

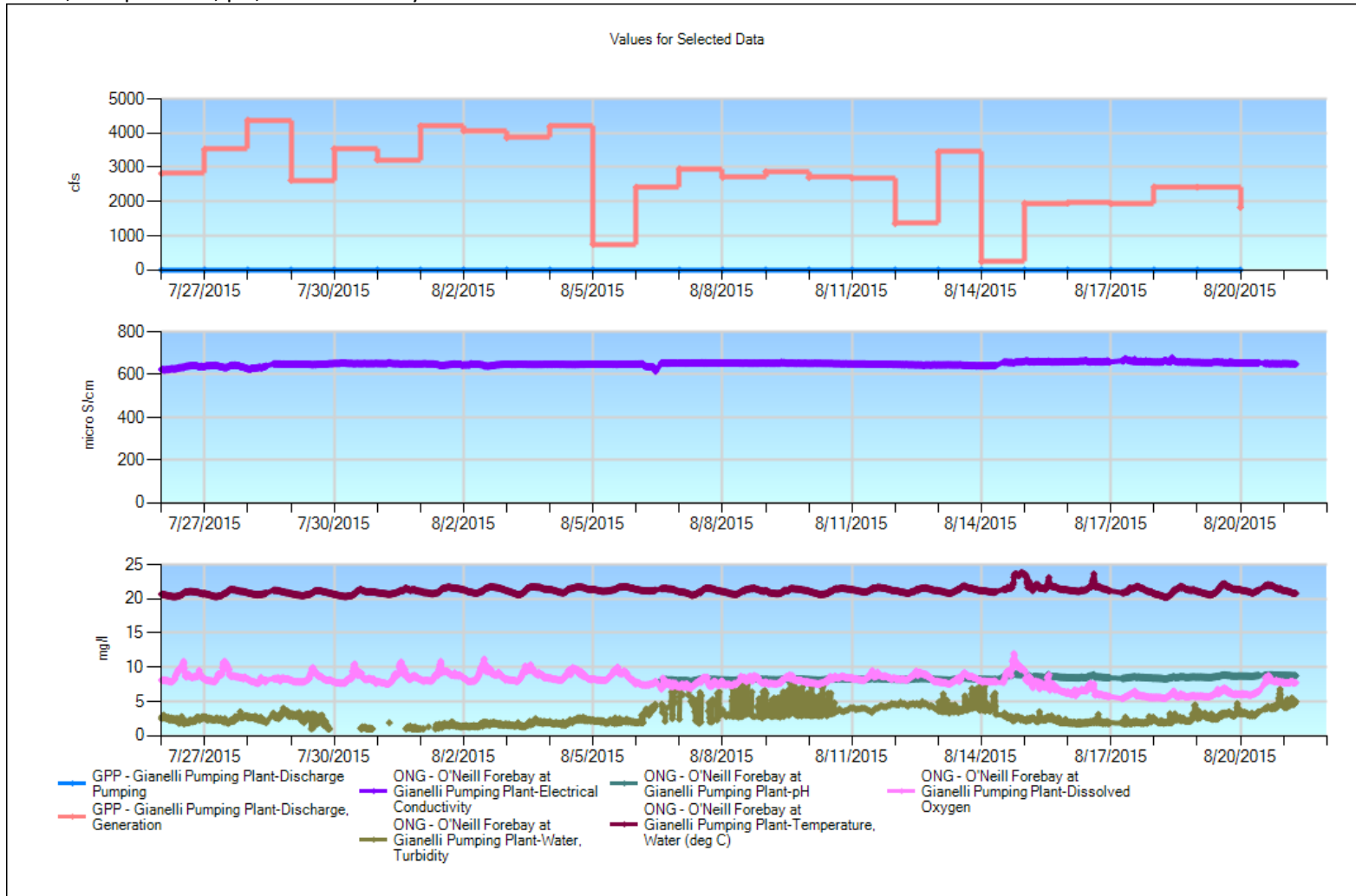


Gianelli – Chloride, Sulfate, Bromide, Nitrate

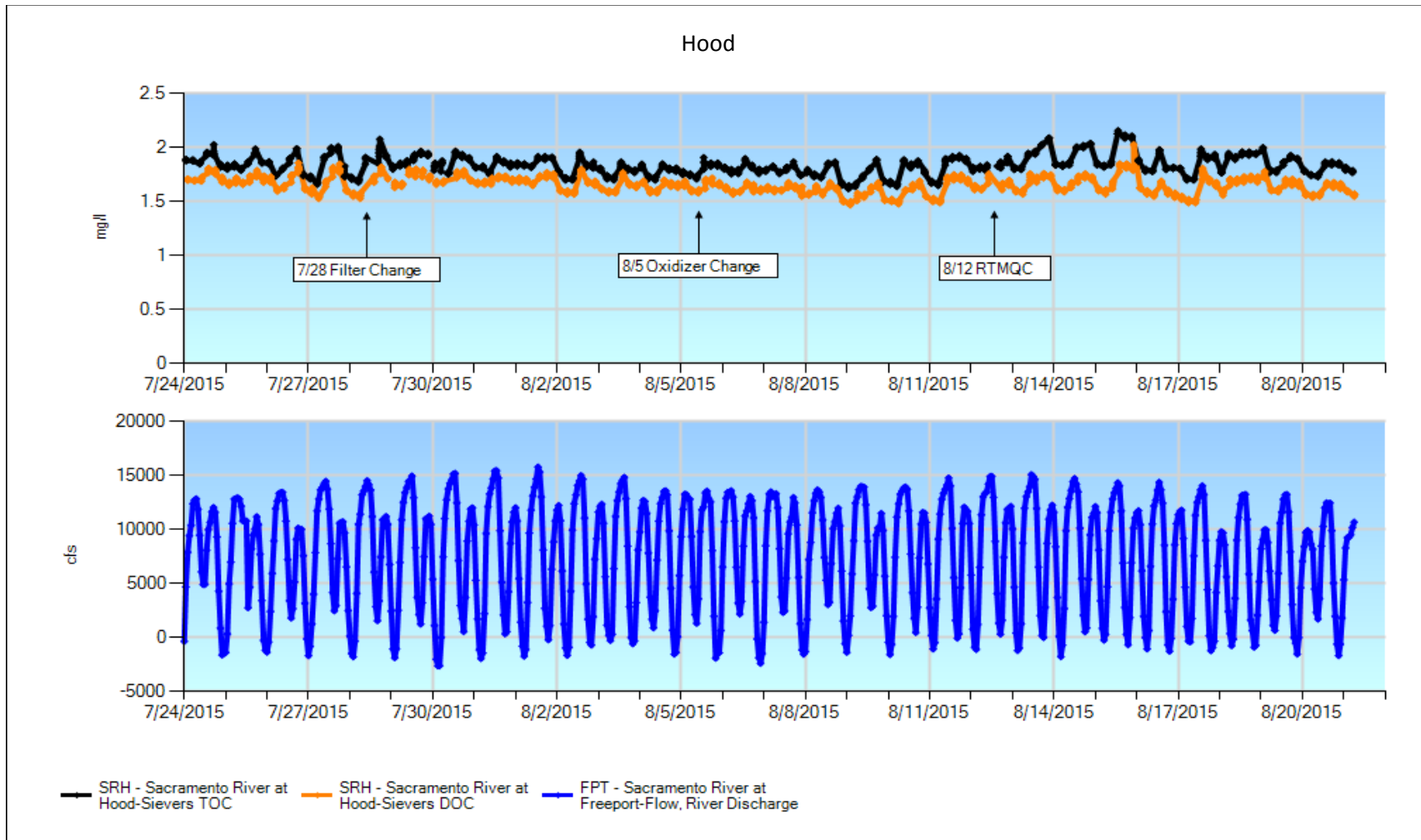


- All parameters (8/1 – 8/3) --- The instrument communication error returned and caused a shutdown over the weekend.
- Sulfate (8/8 – 8/14) --- The analytical column malfunctioned and caused an error with the sulfate peak. Other peaks were not affected.
- All parameters (8/17 – 8/20) --- Organic growth in the internal lines caused intermittent errors.

Gianelli – EC, Temperature, pH, DO & Turbidity



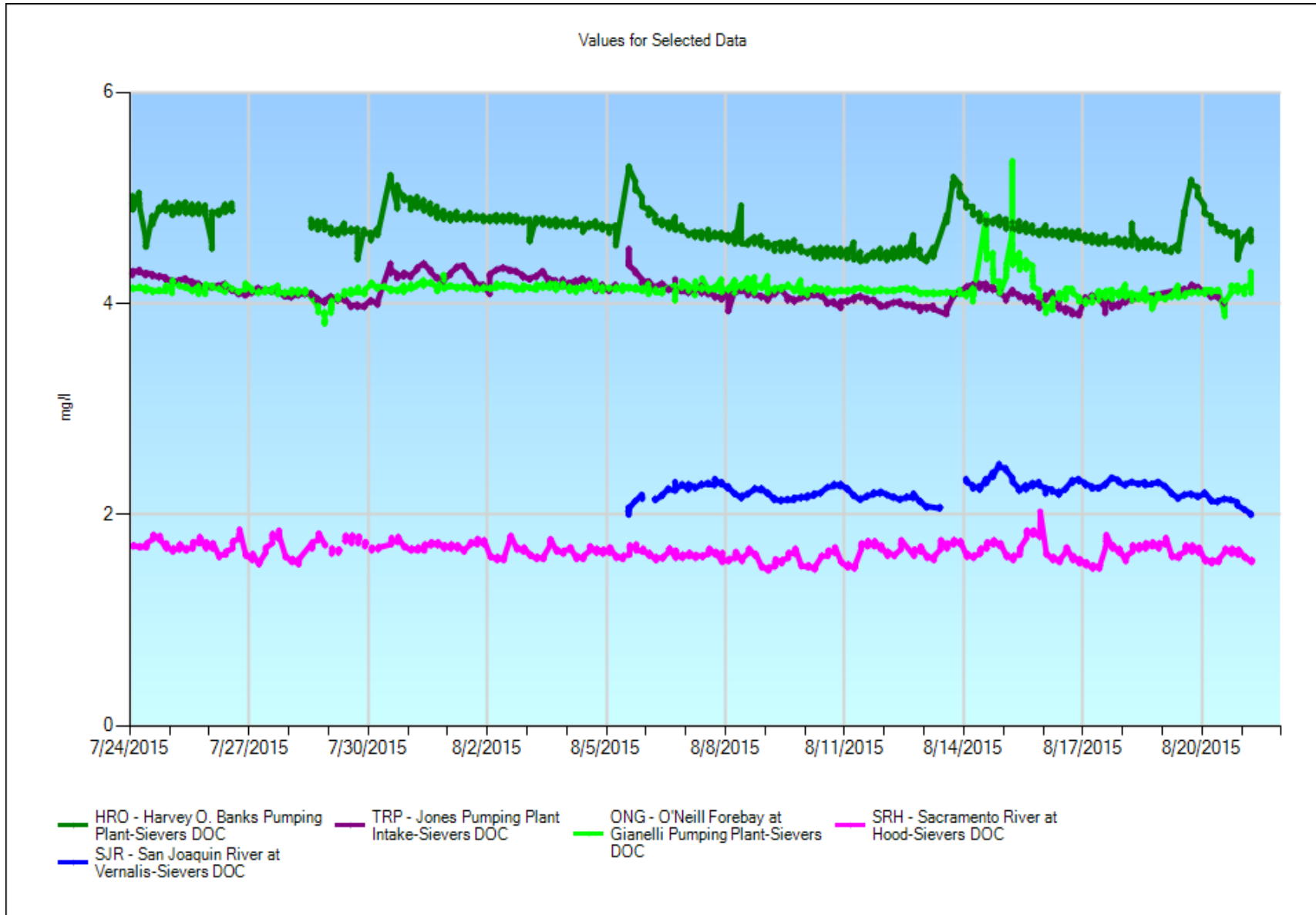
- pH (7/6 – 8/6) --- pH probe housing was leaking and malfunctioned. The sonde had to be brought back for repairs and a borrowed sonde was installed in its place.
- Turbidity (8/6 – 8/15) --- The borrowed sonde had a faulty turbidity probe. The readings were jumpy until our sonde was reinstalled.



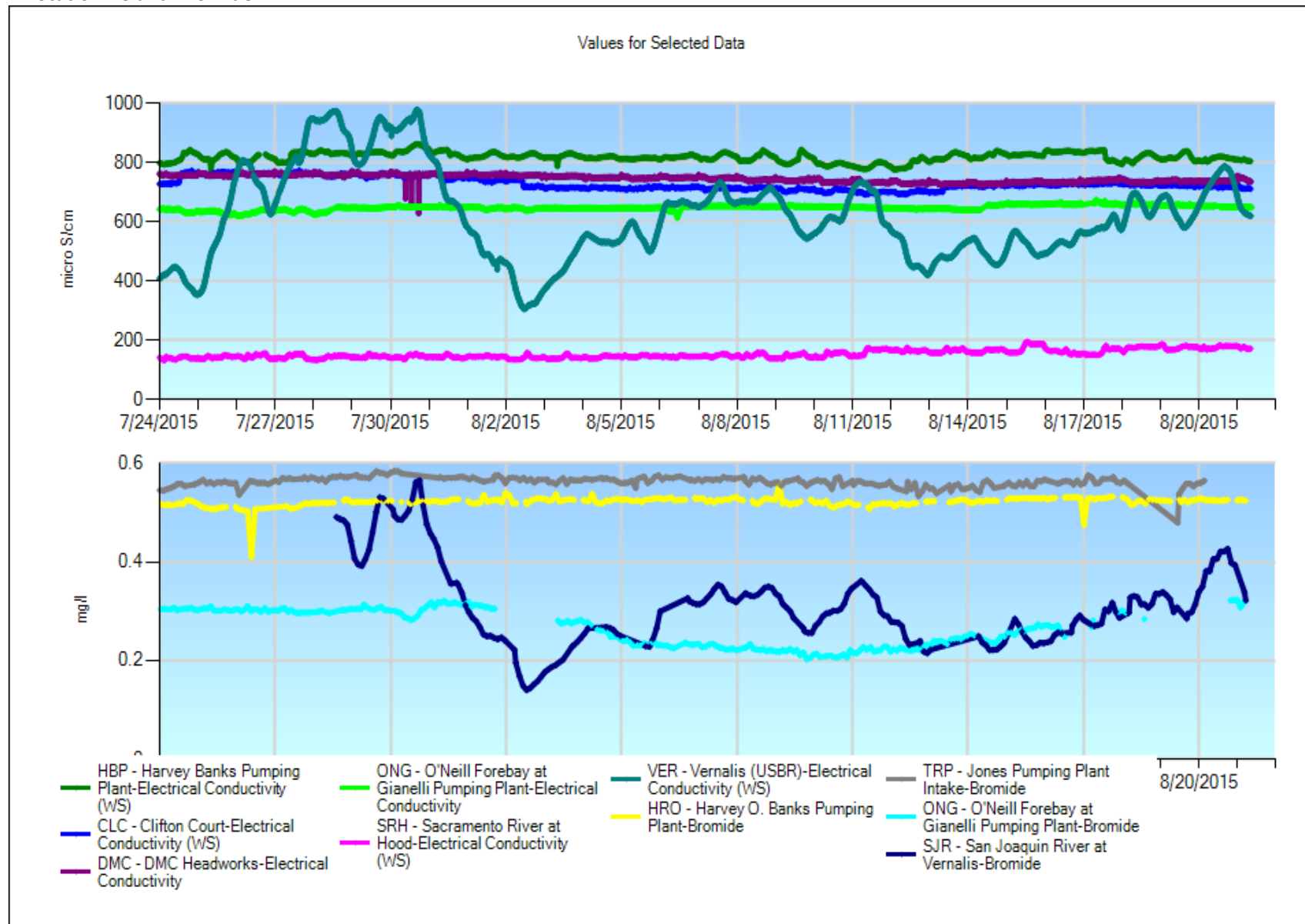
Significant Events: July 24th 2015 to August 21th 2015

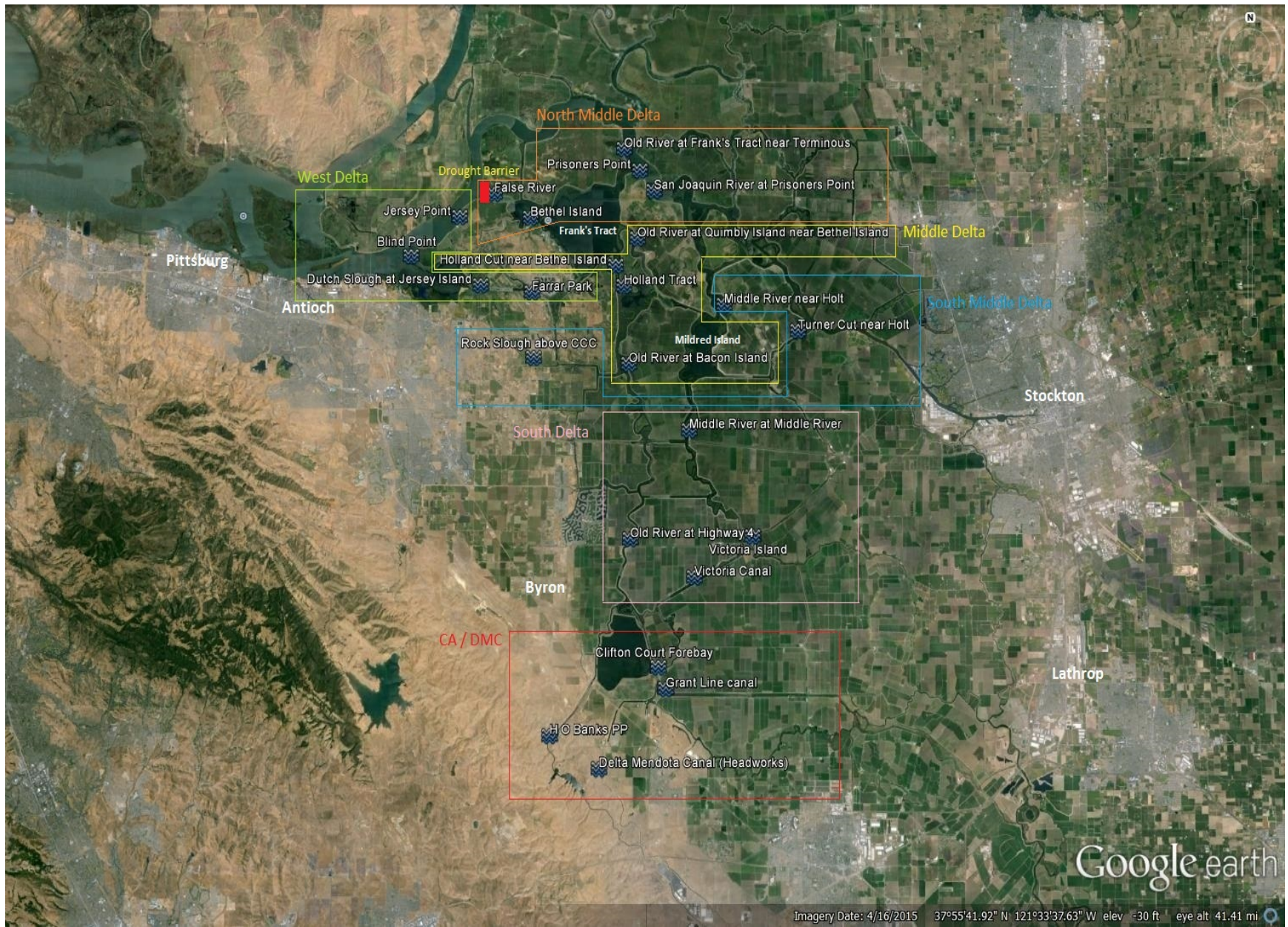
- **7/28 Filter Change:** Changed the 75 micron pre-filter and cleaned the solenoid valves. One of the valves was very dirty and was causing leakage of TOC water into DOC water.
- **8/5 Oxidizer change:** Changed the Oxidizer and the 75micron pre-filter.
- **8/12 RTMQC:** Changed the 75 and 50 micron filter.

All Station DOC



All Station EC and Bromide





North Middle Delta

West Delta

Drought Barrier

Middle Delta

South Middle Delta

South Delta

CA / DMC

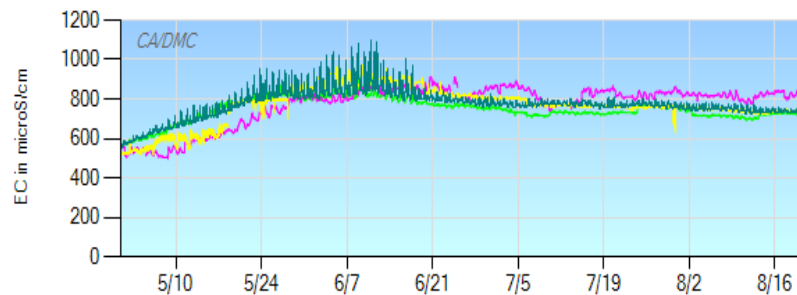
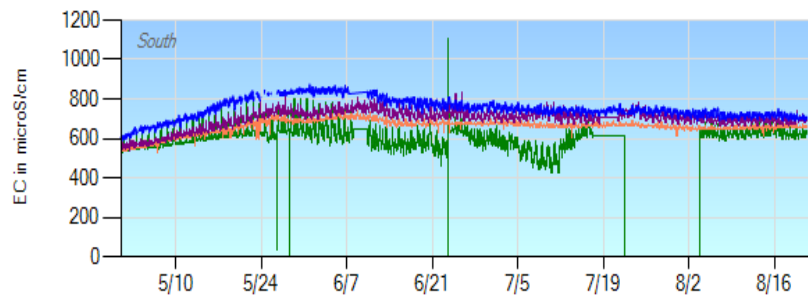
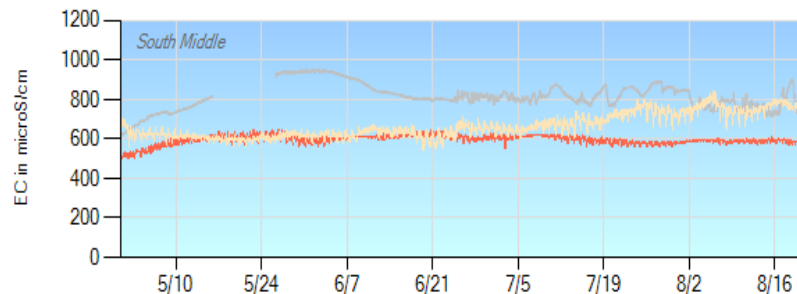
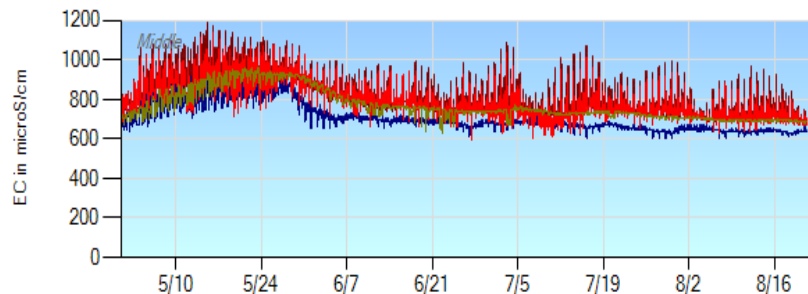
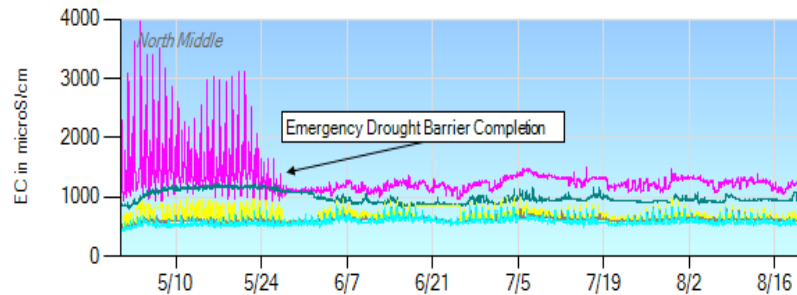
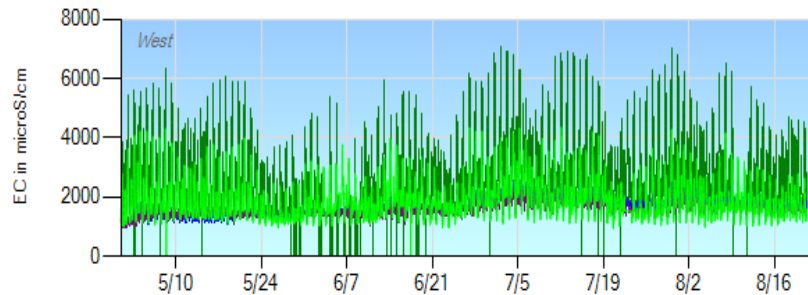
Google earth

Imagery Date: 4/16/2015 37°55'41.92" N 121°33'37.63" W elev 30 ft eye alt 41.41 mi

Latest MWQI Emergency Drought Barrier Update

Three months after completion and EC in the North Middle and South Middle sections of the Delta remain stable with the exception of Turner Cut, which being further east, is more affected by EC input from other sources like agricultural pump-offs. Stations in the Middle, South and area around the export sites show a decreasing trend meaning that the barrier in conjunction with low pumping rates, just enough Delta outflow and Cross Channel gate operation has done its job and kept tidal seawater intrusion from entering the Delta in higher concentrations.

Drought Barrier EC Groups



- | | | | | | | | |
|---------------------------|---------------|------------------------|---------------------|--------------------------------|-------------------|-------------------------|------------------|
| Blind Point | Jersey Point | Franks Tract | Old R at Quimby Isl | Bacon Island | Turner Cut | Victoria Island | Harvey Banks PP |
| Dutch Sl at Jersey Island | False R | Prisoners Point | Holland Cut | Rock Sl abv Contra Costa Canal | Middle R nr Tracy | Victoria Canal nr Byron | Grant Line Canal |
| Farrar Park | Bethel Island | SJR at Prisoners Point | Holland Tract | Middle R nr Holt | Old R at Hwy 4 | Clifton Court | DMC Headworks |