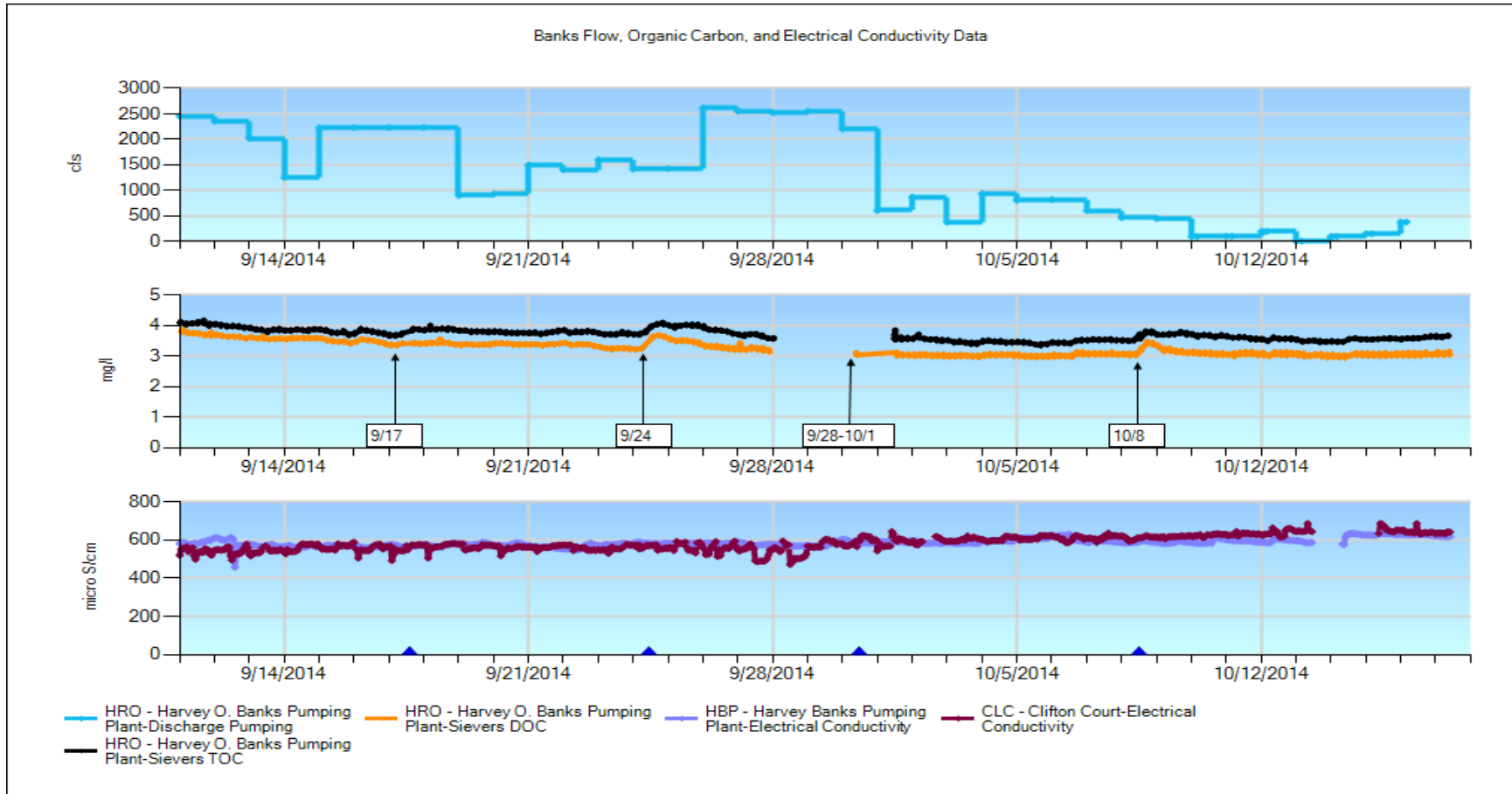


Banks Pumping Plant – Pumping, TOC, DOC and EC



9/17 – New FDOM valves installed, changed the 100 um pre-filter and replaced the Sievers (carbon analyzer) acid cartridge.

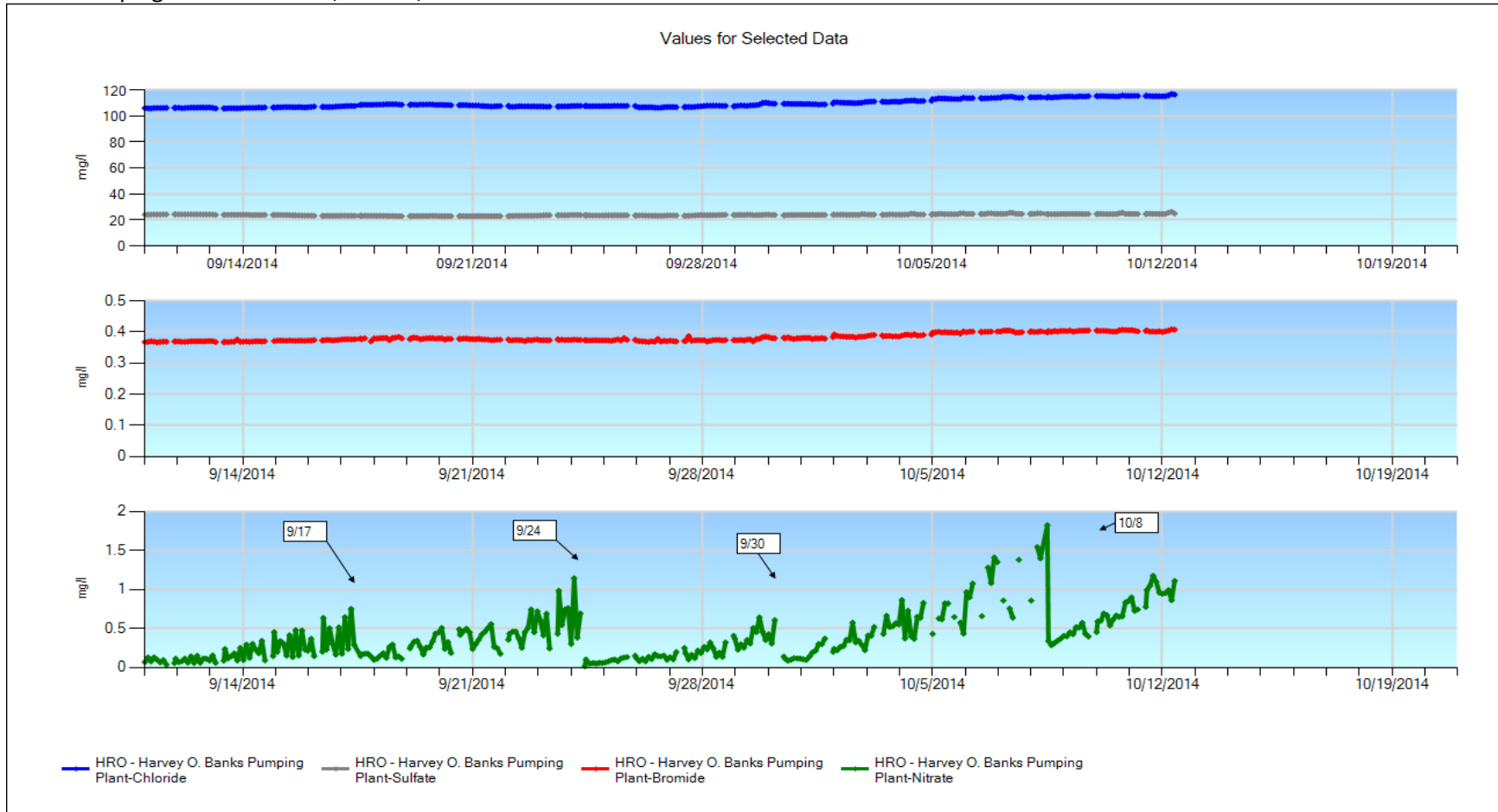
9/24 – Changed all delivery system filters and analyzed all QC samples.

9/30 – Sievers oxidizer syringe malfunction; instrument down.

10/8 – Changed all delivery system filters.

10/17 – Changed all delivery system filters.

Banks Pumping Plant – Chloride, Sulfate, Bromide and Nitrate

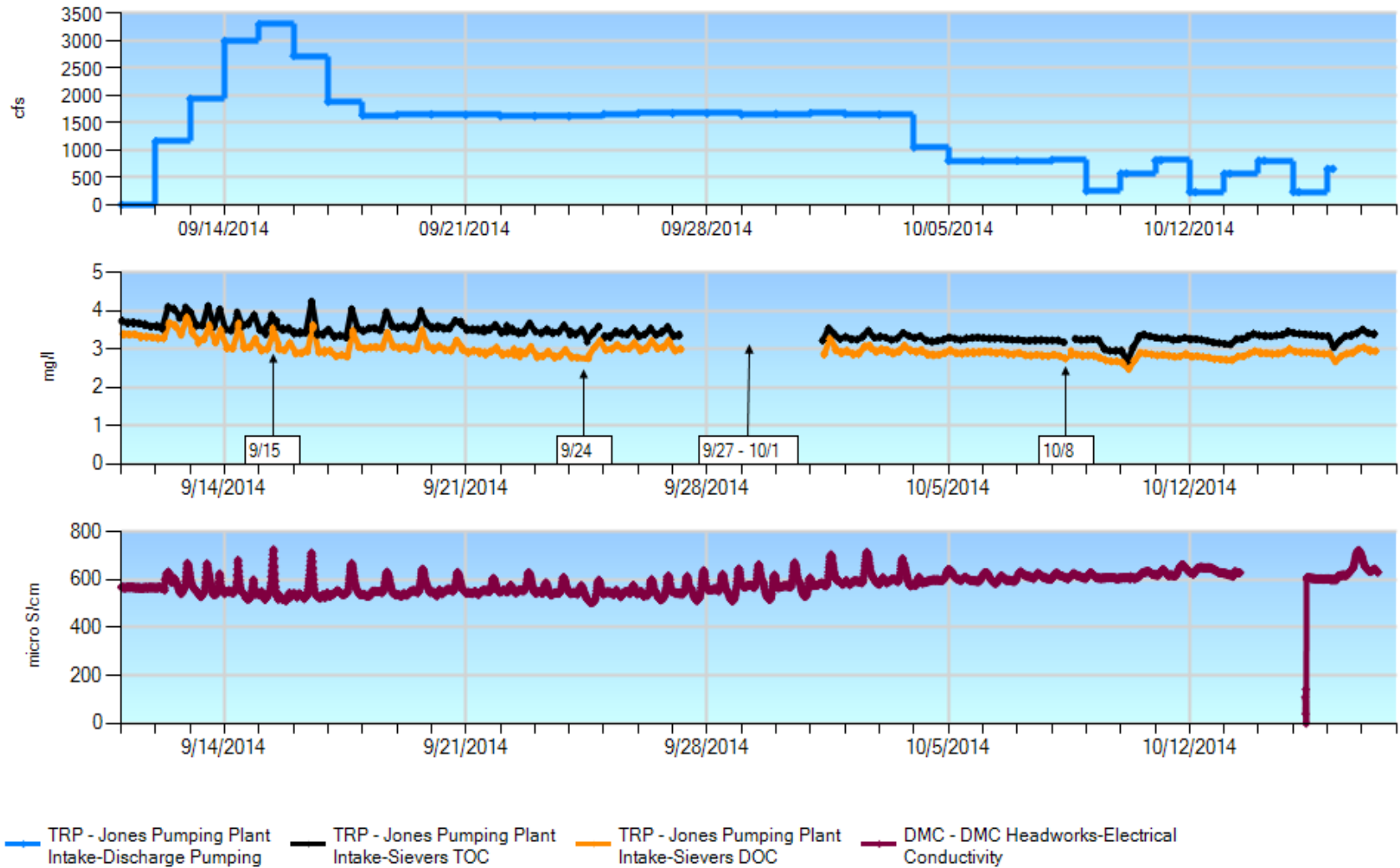


10/12-10/17: The Dionex over-pressured, resulting in a shutdown. The cause is most likely clogged columns; either guard, analytical or both. Field crew staff made a site visit to remove a restrictor coil, thereby reducing the system pressure in an attempt to restart the analyzer.

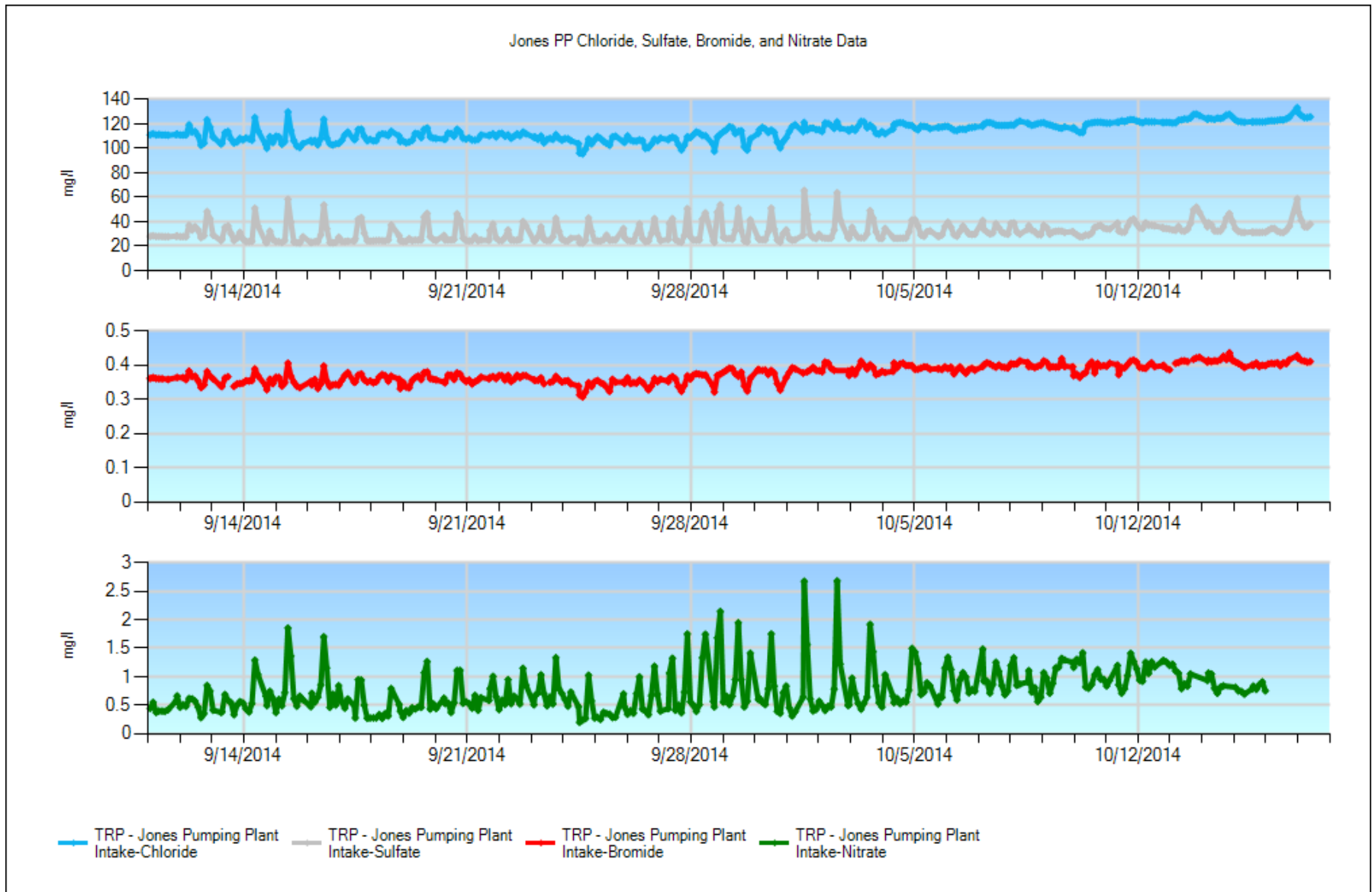
Nitrate data shows filter growth patterns. After each filter change, concentrations reduce and then begin to increase as time moves forward.

Note: Station grab sample results (samples filtered independent of the station filters) concur with Bryte Lab results.

Jones PP Discharge, Organic Carbon, and Electrical Conductivity Data

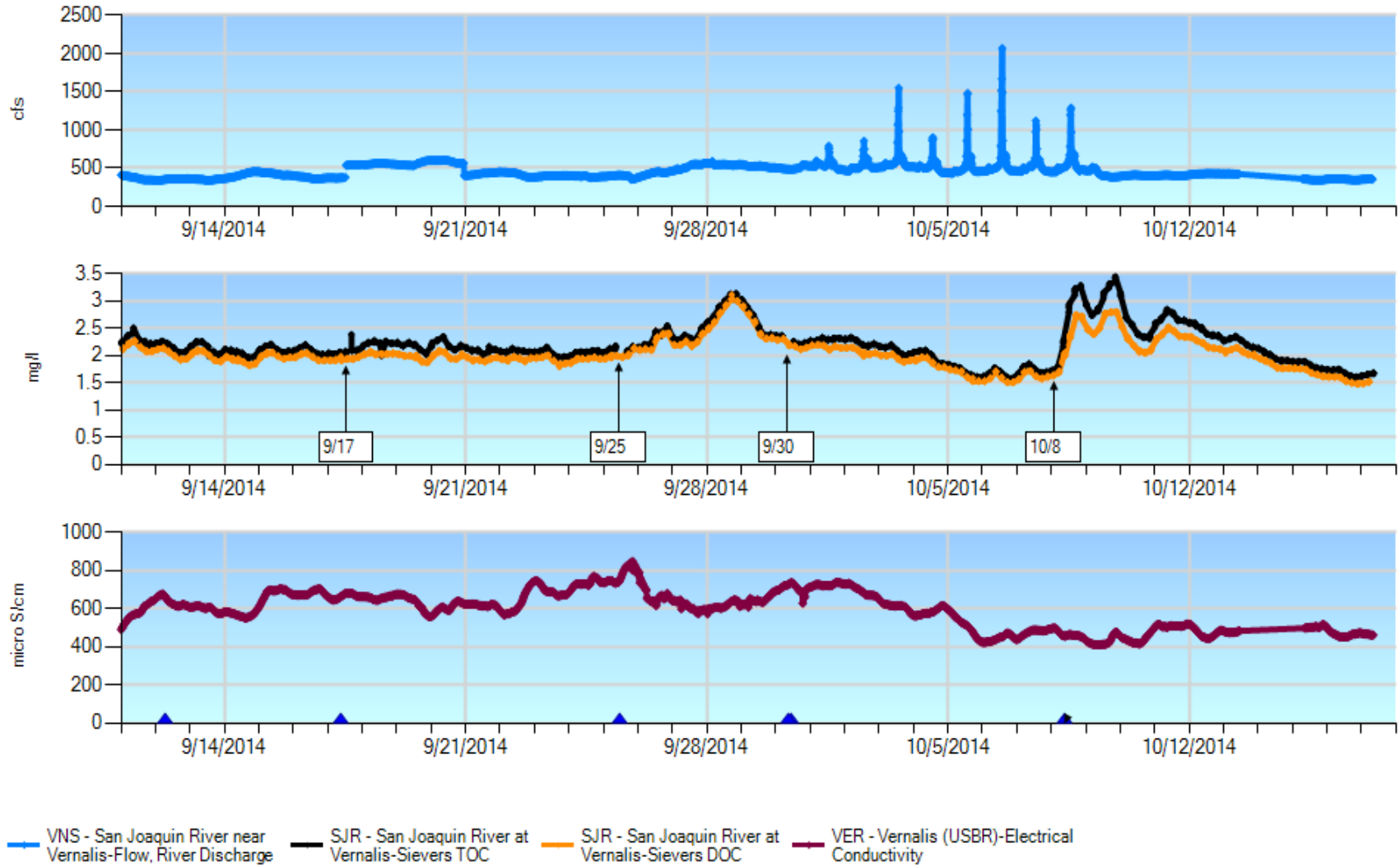


Filter Changes: 9/15 all filters, 9/24 all filters, 10/1 prefilters only, 10/8 prefilters only. **Events:** 9/27 - 10/1: Clog in the sample inlet line.

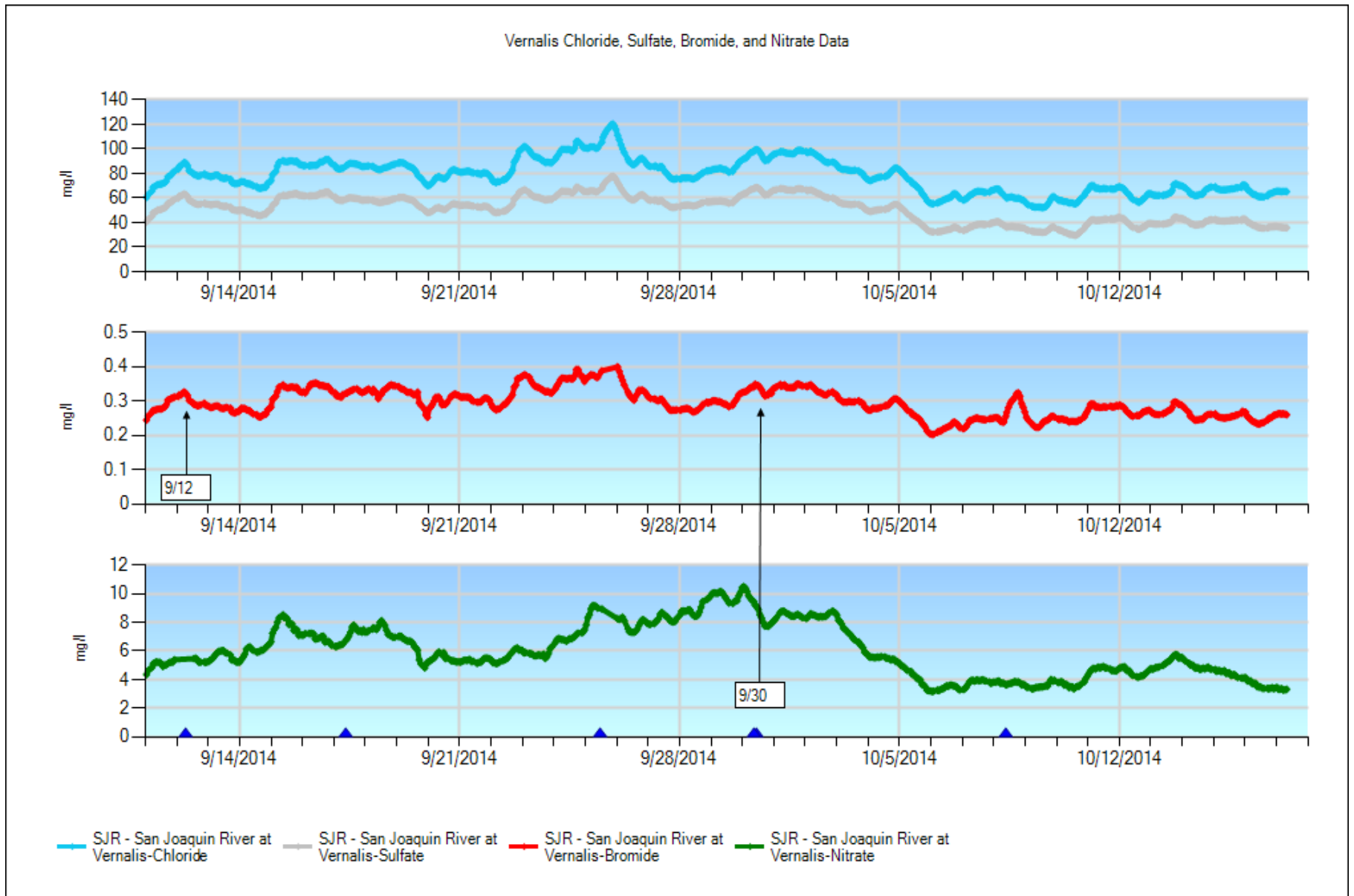


The Dionex has been running smoothly for the past month, only regular maintenance has been needed. New check standard is needed soon. There are several spikes within all the anion graphs which appear to be attributed to normal tidal influence.

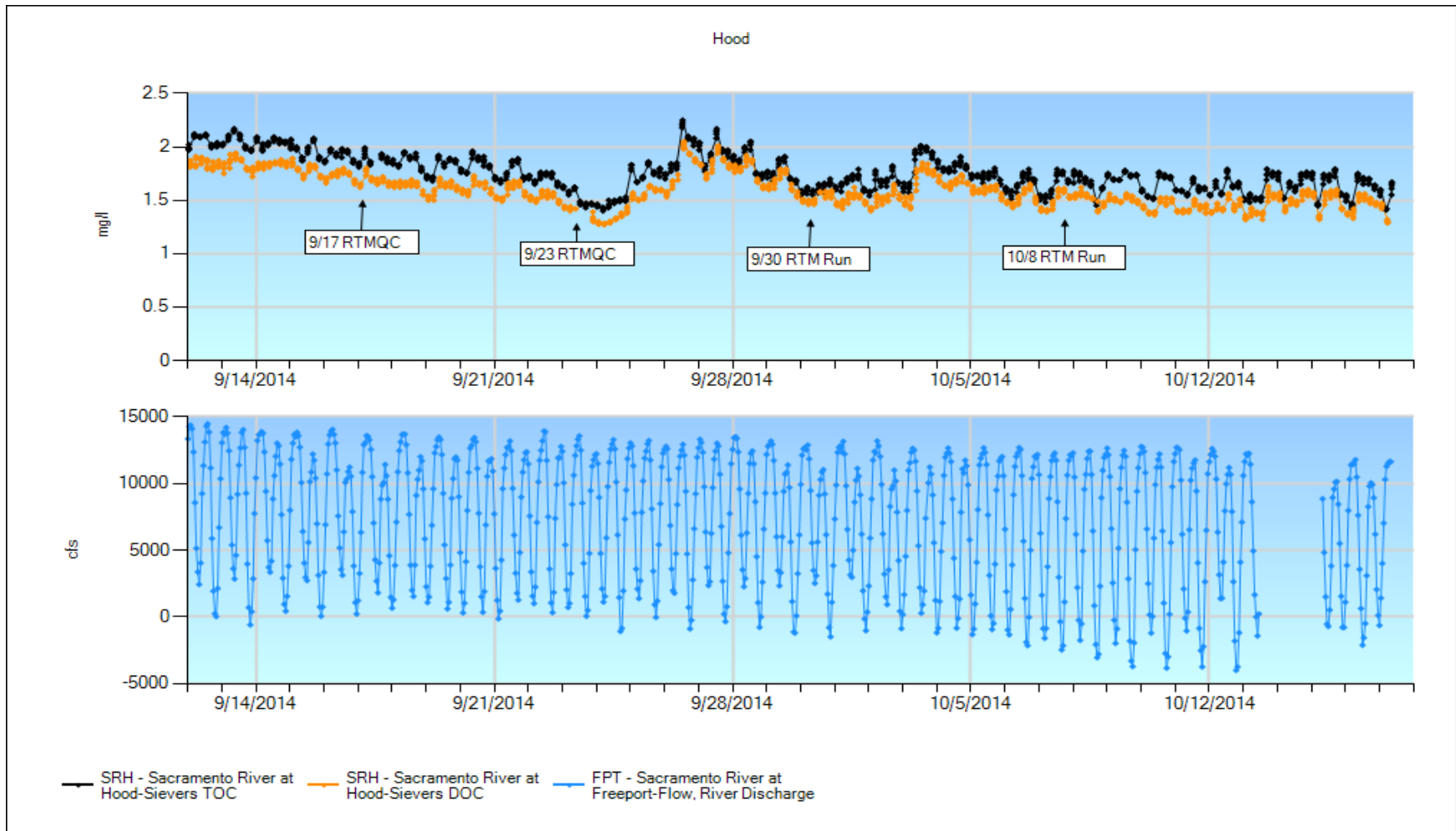
Vernalis Flow, Organic Carbon, and Electrical Conductivity Data



Filter Changes: 9/17 prefilters only, 9/25 all filters, 9/30 prefilters only, 10/8 prefilters only. **Events:** Flow and carbon spikes in early October.



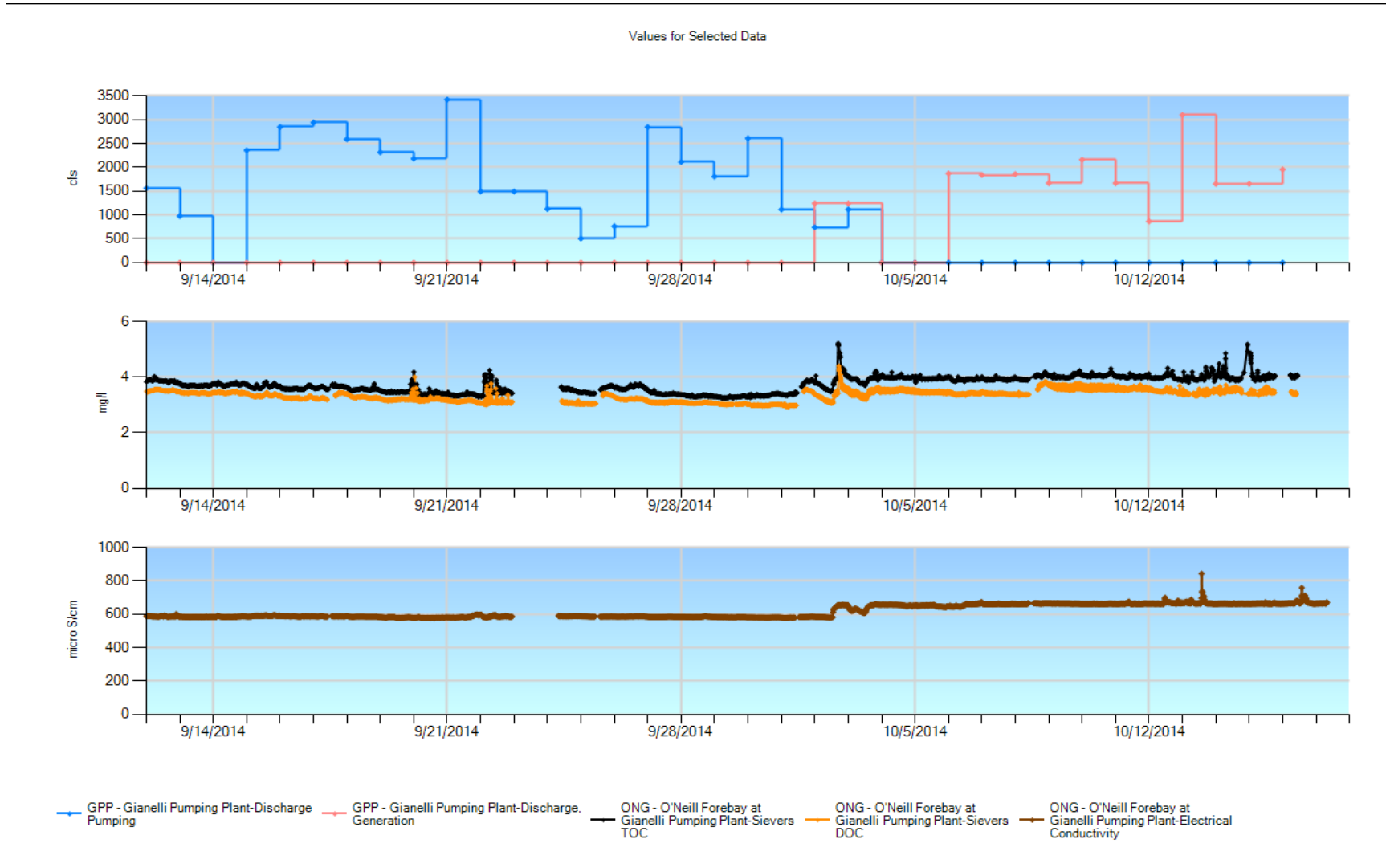
9/12 Retention time shift for Nitrate, 9/30 Ret. time shift need for Bromide and Nitrate. Time shifted for all. **Events:** Strange bromide peak 10/8.



Significant Events: September 12th 2014 to October 18th 2014

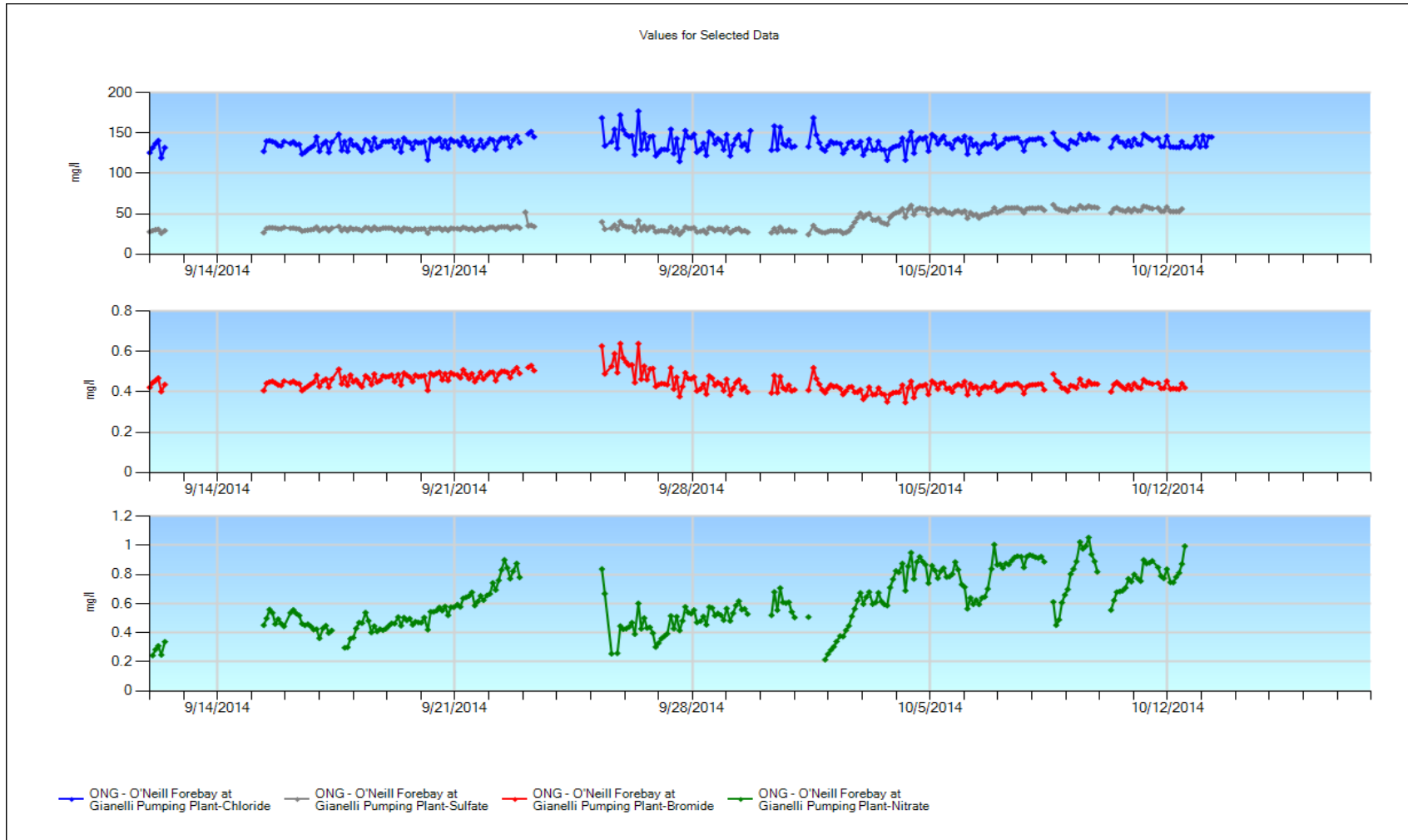
- **9/17 RTMQC:** Changed the pre filters: 75micron filter and 50micron filter.
- **9/23 RTMQC:** Changed all filters.
- **9/30 RTM Run:** Changed the 75micron filter only.
- **10/8 RTM Run:** Changed the 75micron filter and 50 micron filter. Also flushed the rest

Gianelli – Pumping, Organic Carbon, EC



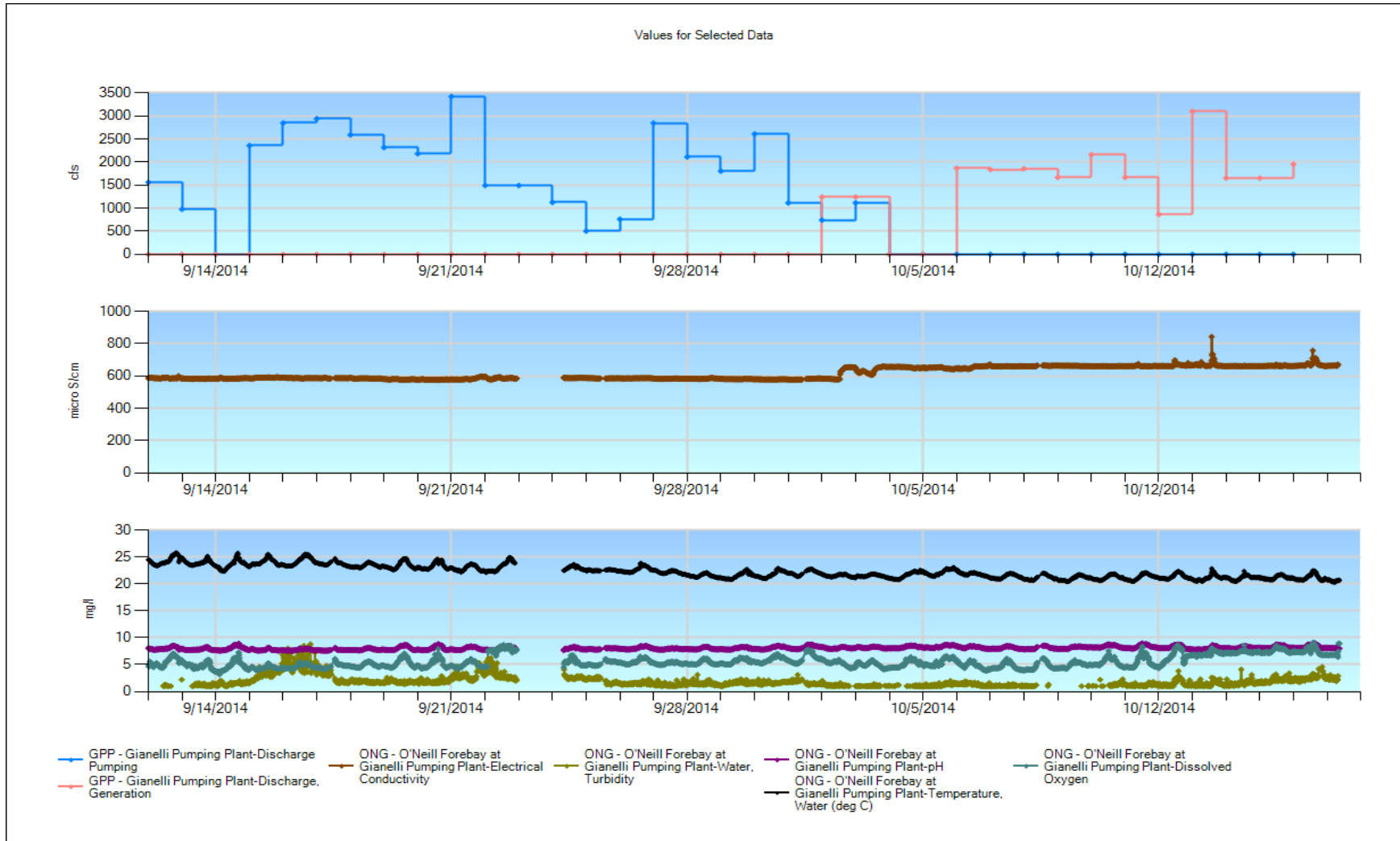
- 9/22 – Low flow, problem resolved itself.
- 10/15 – Possible low flow problem.

Gianelli – Chloride, Sulfate, Bromide, Nitrate



- 9/12 – Communication error caused the instrument to shut down over the weekend.
- 9/22 – Low flow, problem resolved itself.
- 10/1 – Replaced guard column and filter.
- 10/12 – Retention time shift, possibly due to spent column.

Gianelli – EC, Temperature, pH, DO & Turbidity



- 9/22 – Low flow, problem resolved itself.
- 10/8 – Turbidity dipped below 1 NTU.