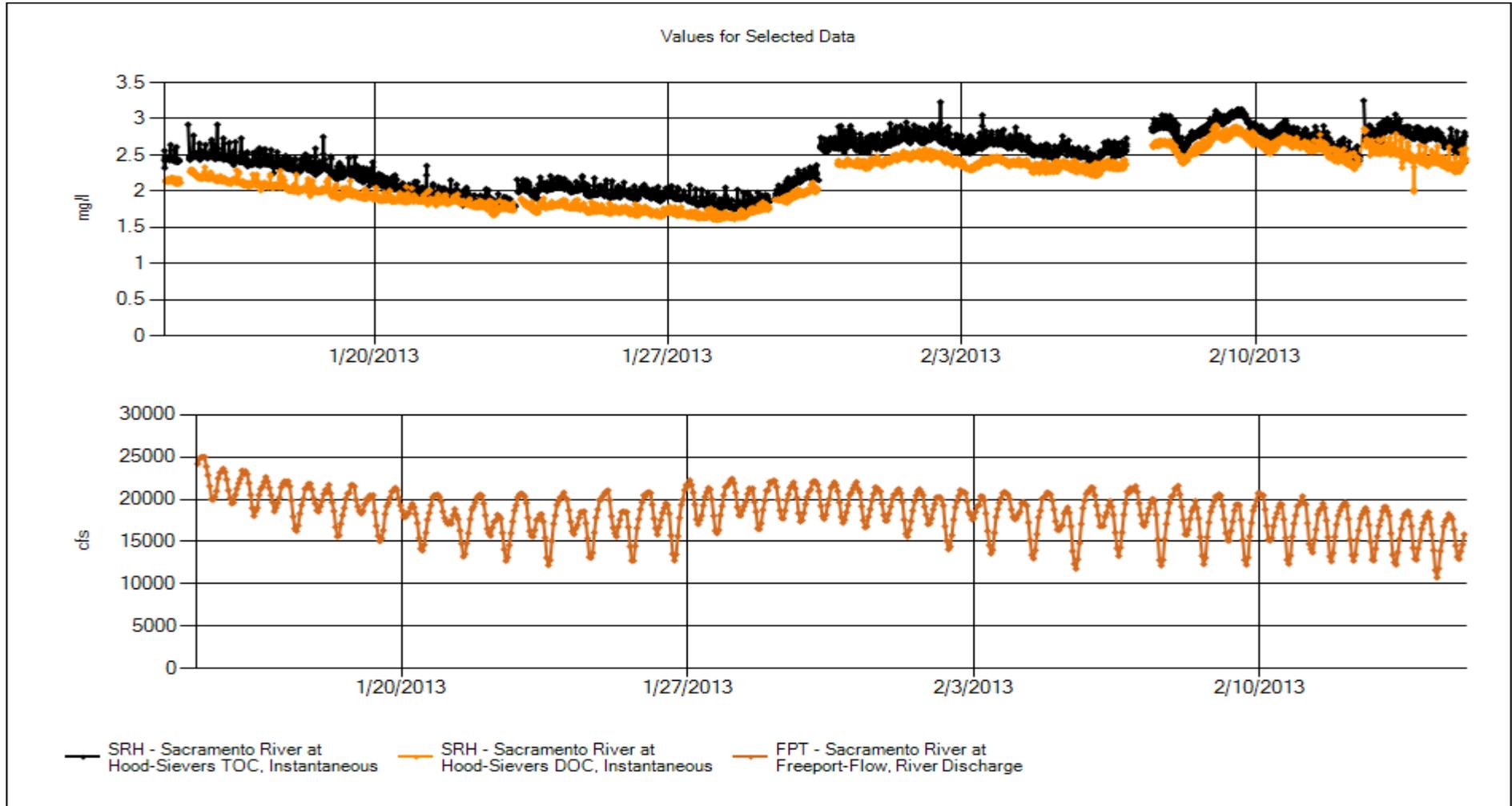


RTDF Graphical Station Update: January 2013-February 2013

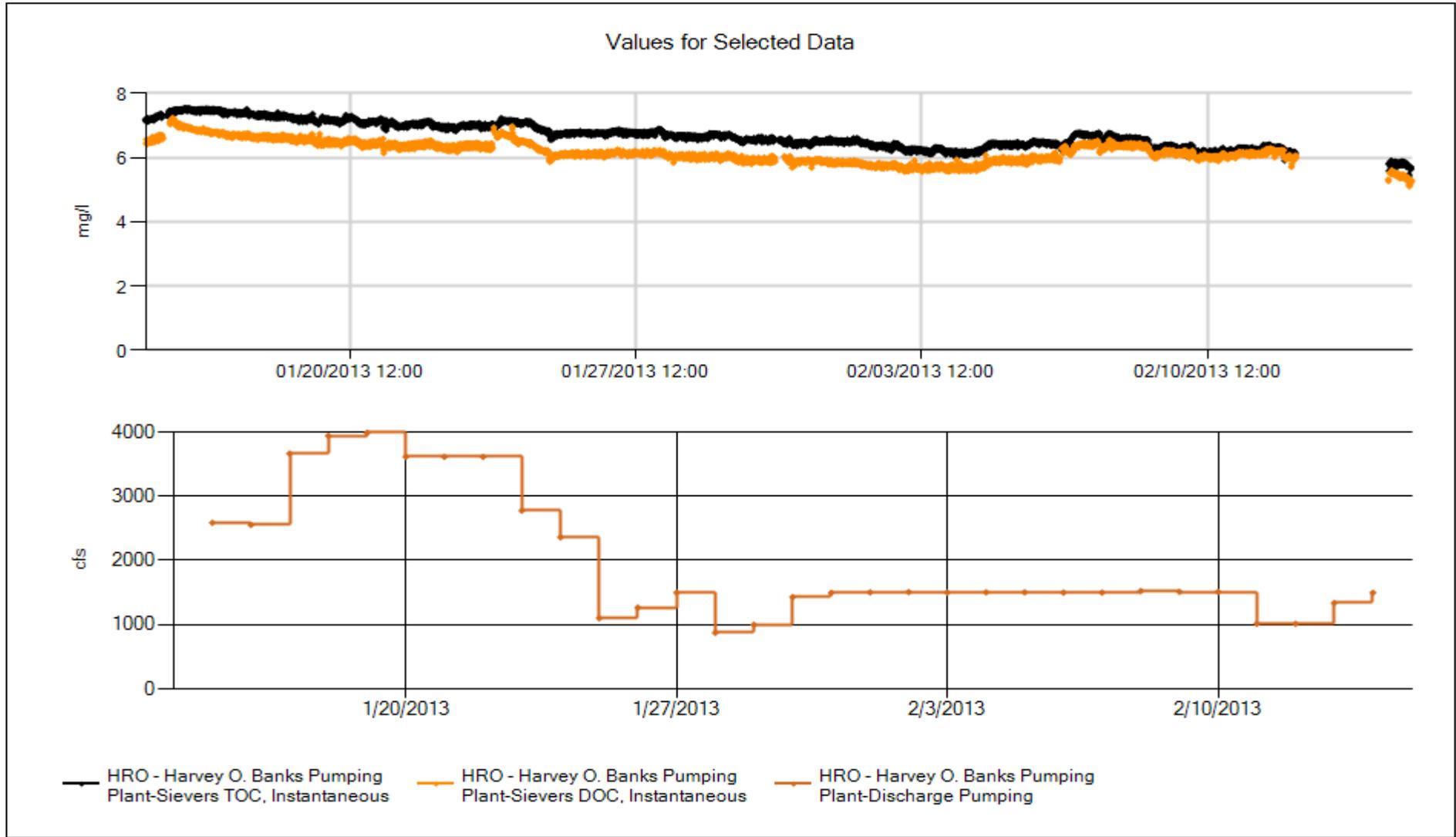
Sacramento River at Hood Organic Carbon and River Discharge



Significant events: 1/16/2013 – 2/15/2013:

- | | |
|--|---|
| <ul style="list-style-type: none"> ➤ 1/20 – TOC and DOC levels begin to converge due to over filtering. ➤ 1/23 – Filter change and QC check is performed on the instrument. ➤ 1/28 – TOC and DOC levels begin to converge due to over filtering, again. ➤ 1/29 – Filter change and QC check is performed on the instrument. Shut-off valve installed to Streamwalker waste line in an attempt to increase filter life. | <ul style="list-style-type: none"> ➤ 1/30 – New UV lamp install. ➤ 1/31 – Shut-off valve distorted TOC and DOC values, so the waste line was opened slightly. Values improved almost immediately. ➤ 2/6 – Filter change. ➤ 2/13 – Filter change, due to clogged filters reducing flow rate to instrument. |
|--|---|

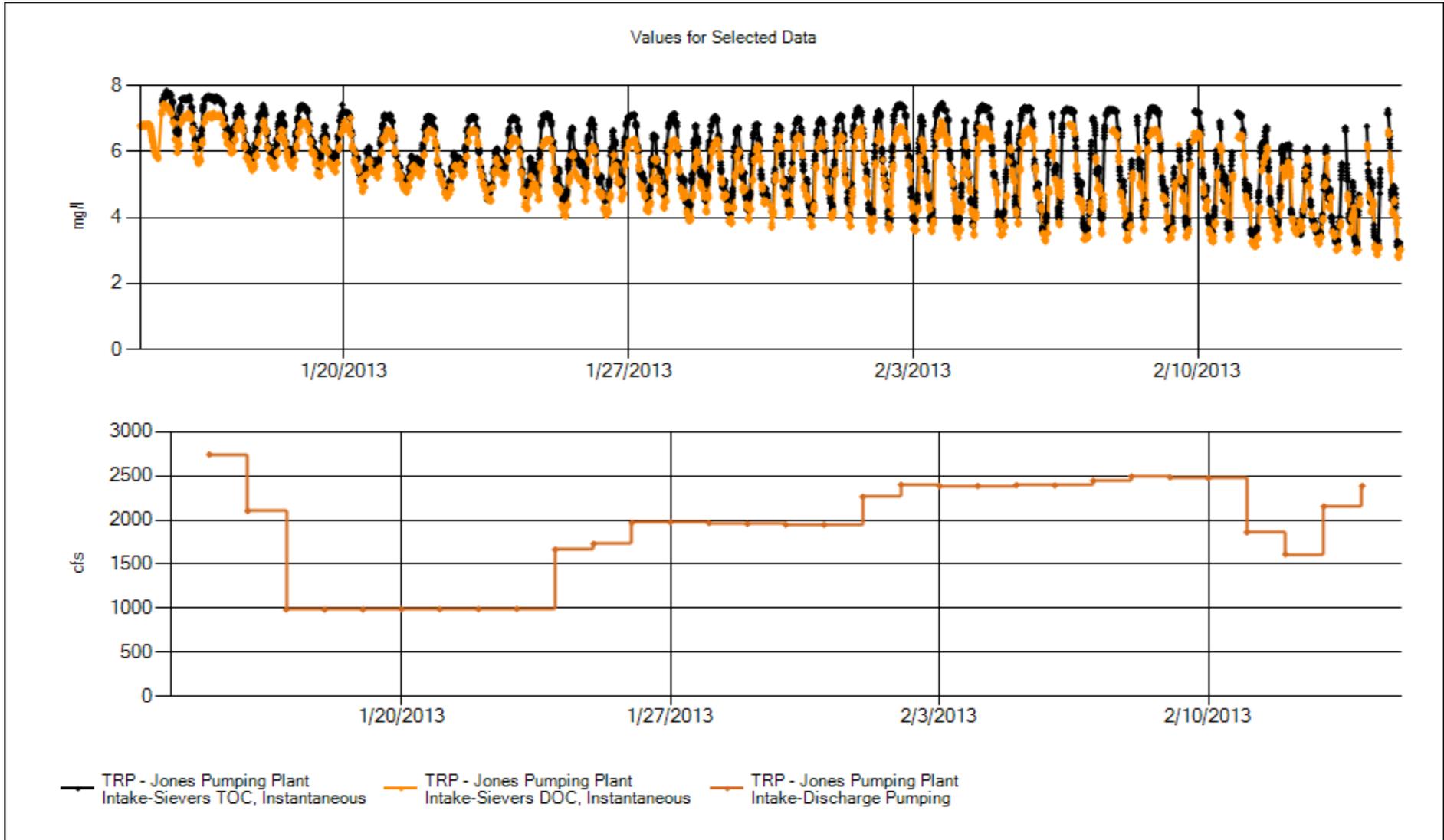
Banks Pumping Plant Organic Carbon and Pumping:



Significant events: 1/15/2013-2/15/2013:

- | | |
|--|---|
| <ul style="list-style-type: none"> ➤ 1/23/2013-- Sample water delivery system filters changed on. Oxidizer warning on the Sievers. ➤ 1/24/2013-- A new oxidizer cartridge installed. ➤ 1/30/2013-- Sample water delivery system filters changed. Aqueduct pumps off, canal was approximately 4 to 5 feet lower than normal. | <ul style="list-style-type: none"> ➤ 2/6/2013-- Sample water delivery system filters changed. ➤ 2/12/2013-- Sample water delivery system filters changed. A 75 um lead filter was used in place of a 100 um filter. The low acid warning was indicated today. We did not have a replacement cartridge available so one was ordered overnight from GE analytical. It was replaced on the morning of 2/14/2013. |
|--|---|

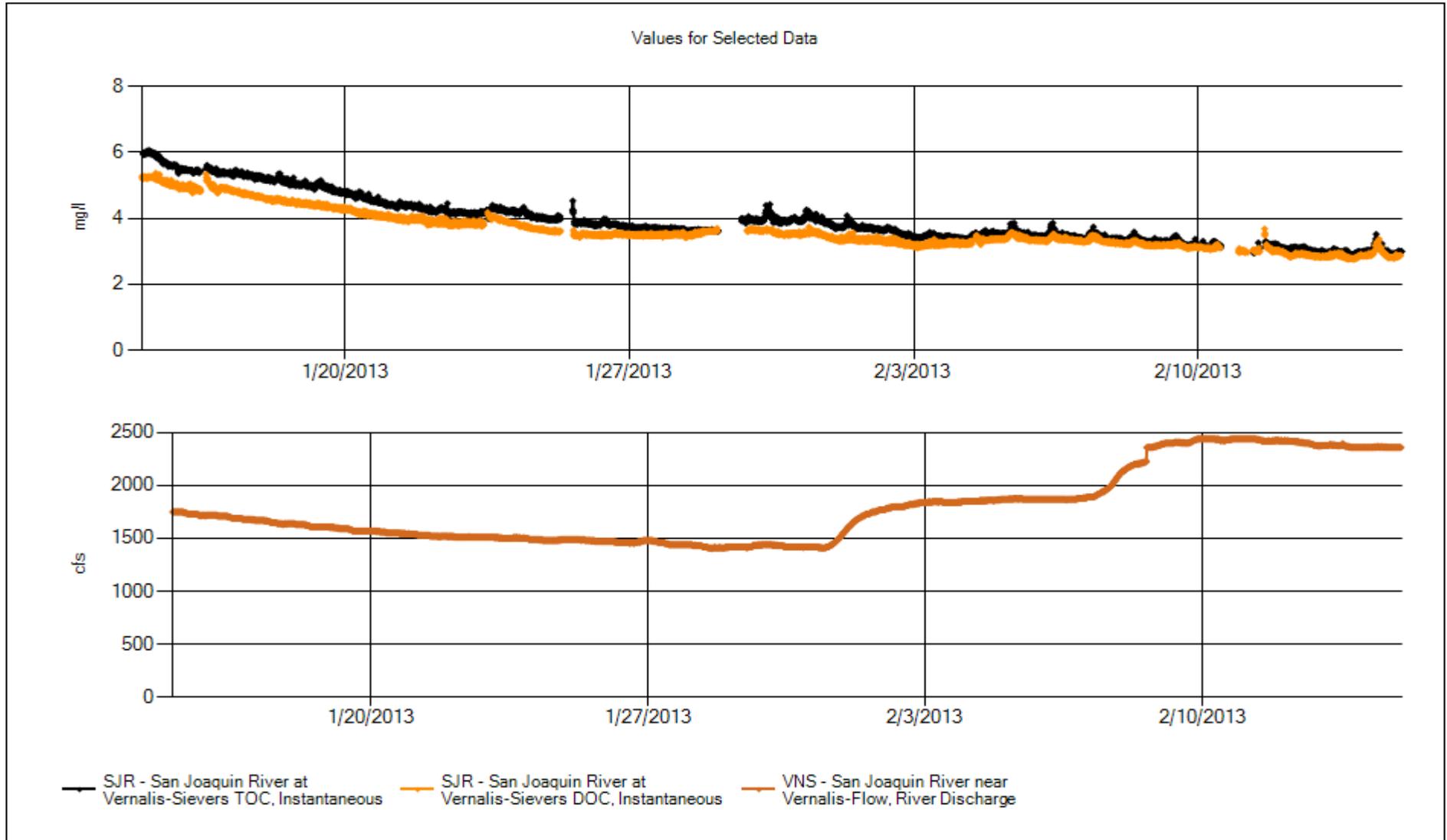
Jones Pumping Plant Organic Carbon and Pumping:



Significant events: 1/15/2013-2/15/2013

- | | |
|--|--|
| <ul style="list-style-type: none"> ➤ 1/12/2013-- There was a power outage which caused the StreamWalker to run stream 2 (DOC) continually. ➤ 1/15/2013-- Sample water delivery system filters changed. StreamWalker re-set after power outage. | <ul style="list-style-type: none"> ➤ 1/30/2013-- Sample water delivery system filters changed. ➤ 2/6/2013-- Sample water delivery system filters changed. ➤ 2/12/2013-- Sample water delivery system filters changed. |
|--|--|

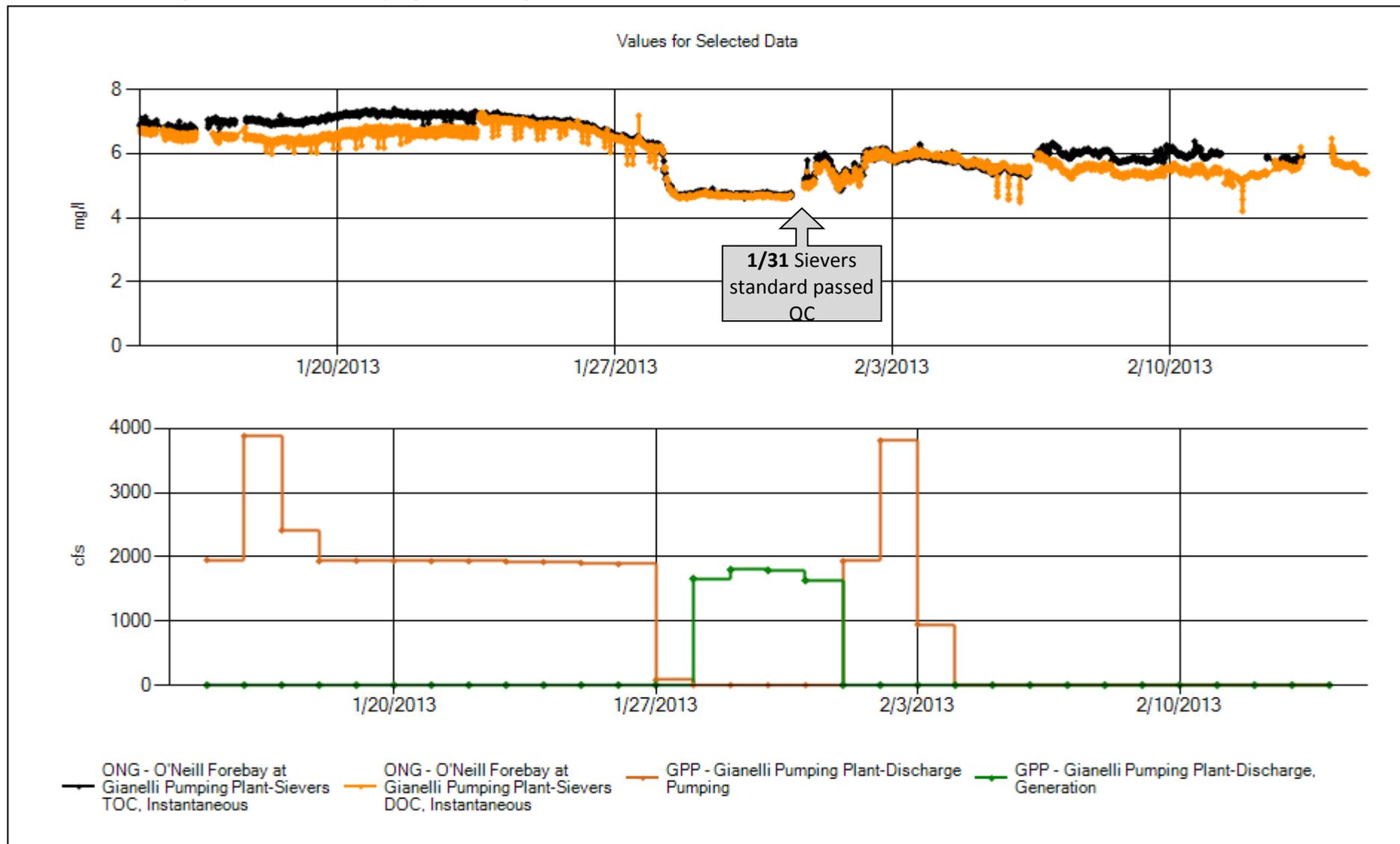
San Joaquin River nr Vernalis: Organic Carbon and River Discharge:



Significant events: 1/15/2013-2/15/2013

<ul style="list-style-type: none"> ➤ 1/16/13-- RTMQC filter change. ➤ 1/23/13-- RTM filter change. ➤ 1/25/13-- Acid cartridge ran out of reagent. New cartridge installed. Changed 100 micron filter on DOC line. 	<ul style="list-style-type: none"> ➤ 1/29/13-- RTMQC. TOC/DOC flows stopped due to filter loading. Prefilter capacity doubled (four 100s on TOC, two 100s on DOC), new filters. ➤ 2/11/2013-- RTMQC filter change.
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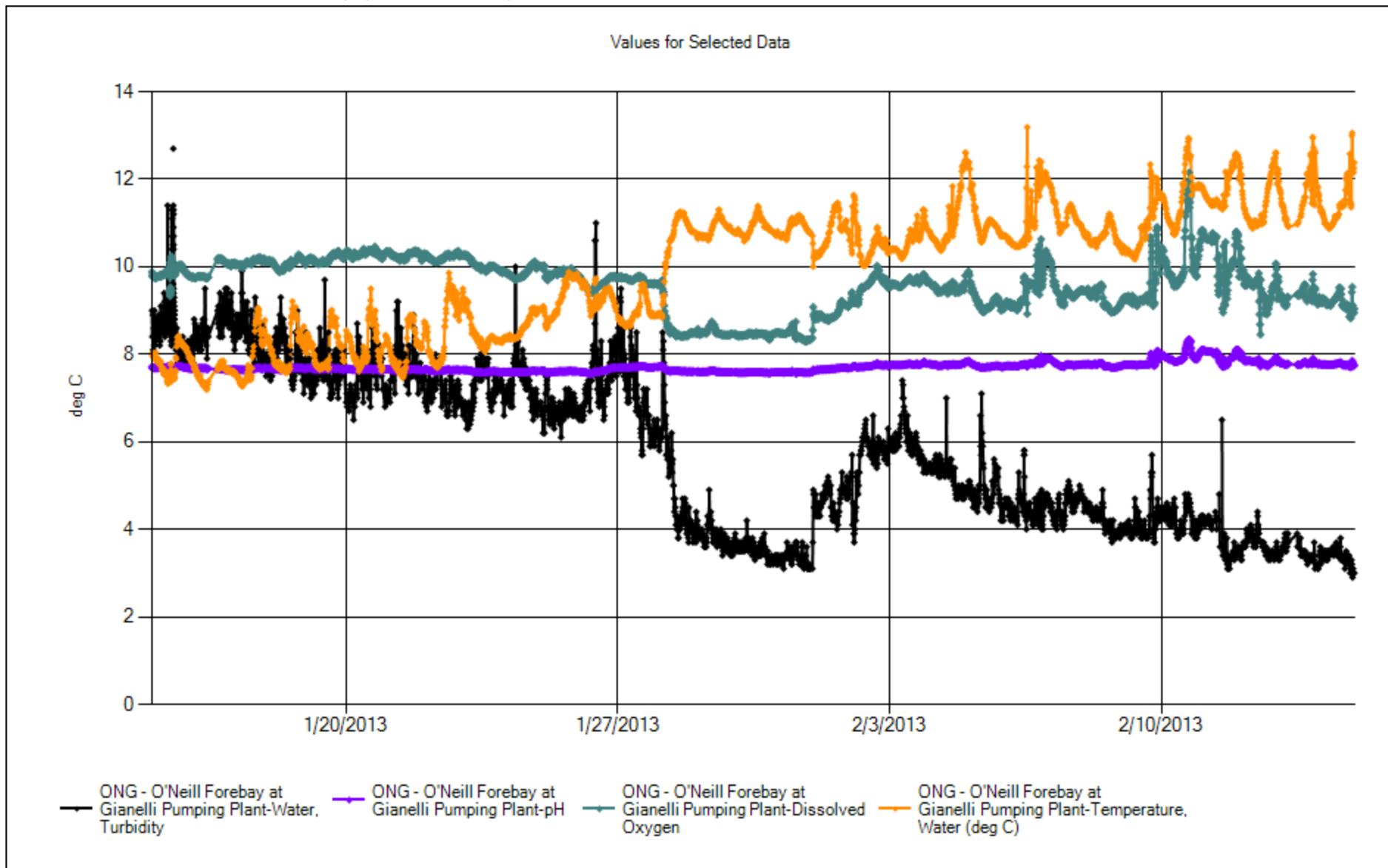
Gianelli Station: Organic Carbon and Pumping/Generating



Significant Events: 1/15/2013-2/15/2013

<ul style="list-style-type: none"> ➤ 1/23–2/6/13-- Plug of algae in the Sievers caused TOC and DOC values to merge. The instrument did pass QC based on standard on 1/31. ➤ 2/5-2/6/13-- Communication was lost with the station computer. 	<ul style="list-style-type: none"> ➤ 2/11-2/13/13-- Power outages at the Field Division resulted in missing TOC and skewed results due to interruptions in station water supply. ➤ Continuing issues with internal syringe has caused repetitive dips in DOC.
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Gianelli Station: Sonde Data (DO, Temp, pH and Turbidity):

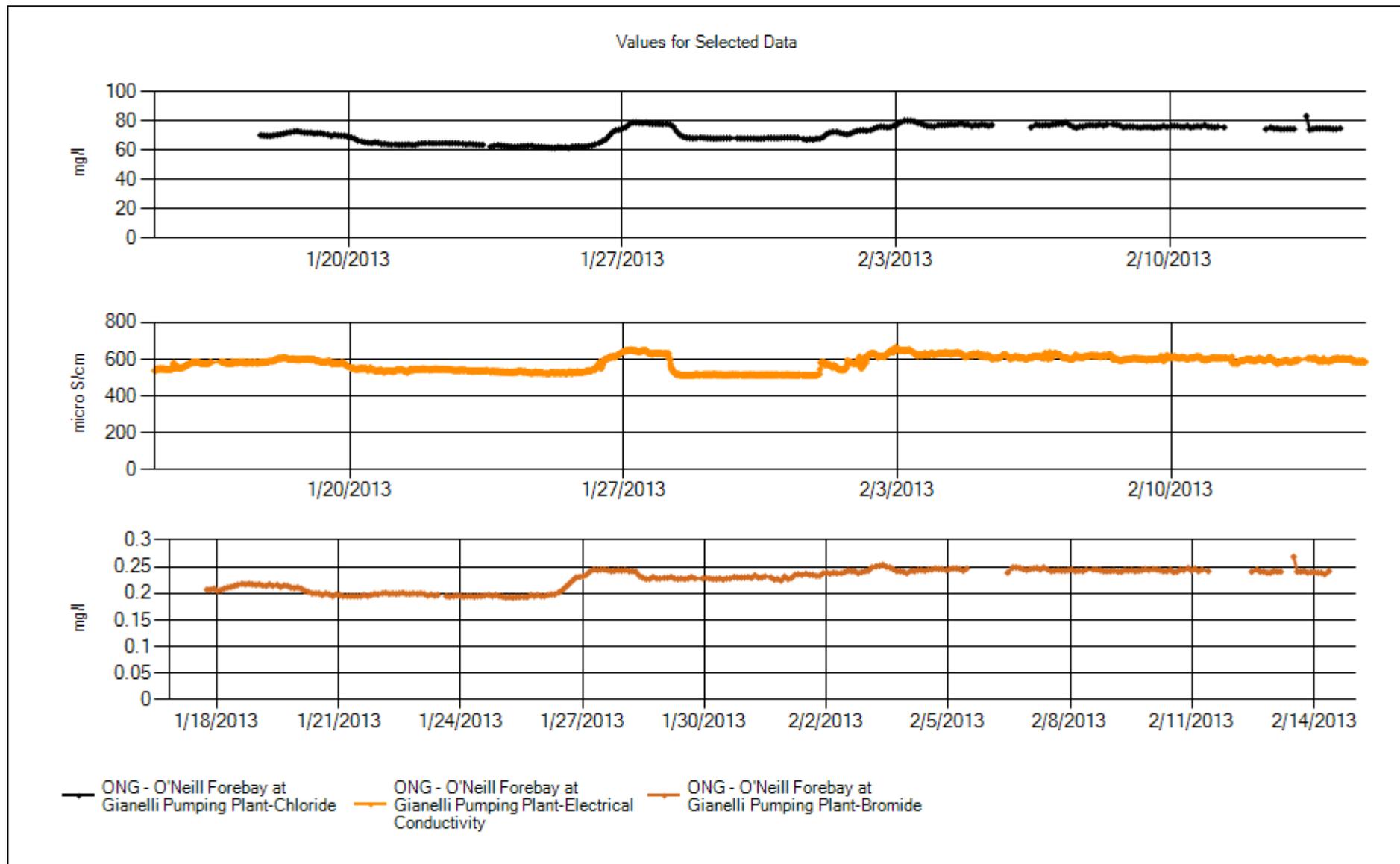


Significant Events: 1/15/2013-2/15/2013

➤ 2/5-2/6/2013--Communication was lost with the station computer.

➤ 2/11-2/13/2013-- Power outages at the Field Division resulted in skewed and missing data.

Gianelli Station; Selected Anions and EC:

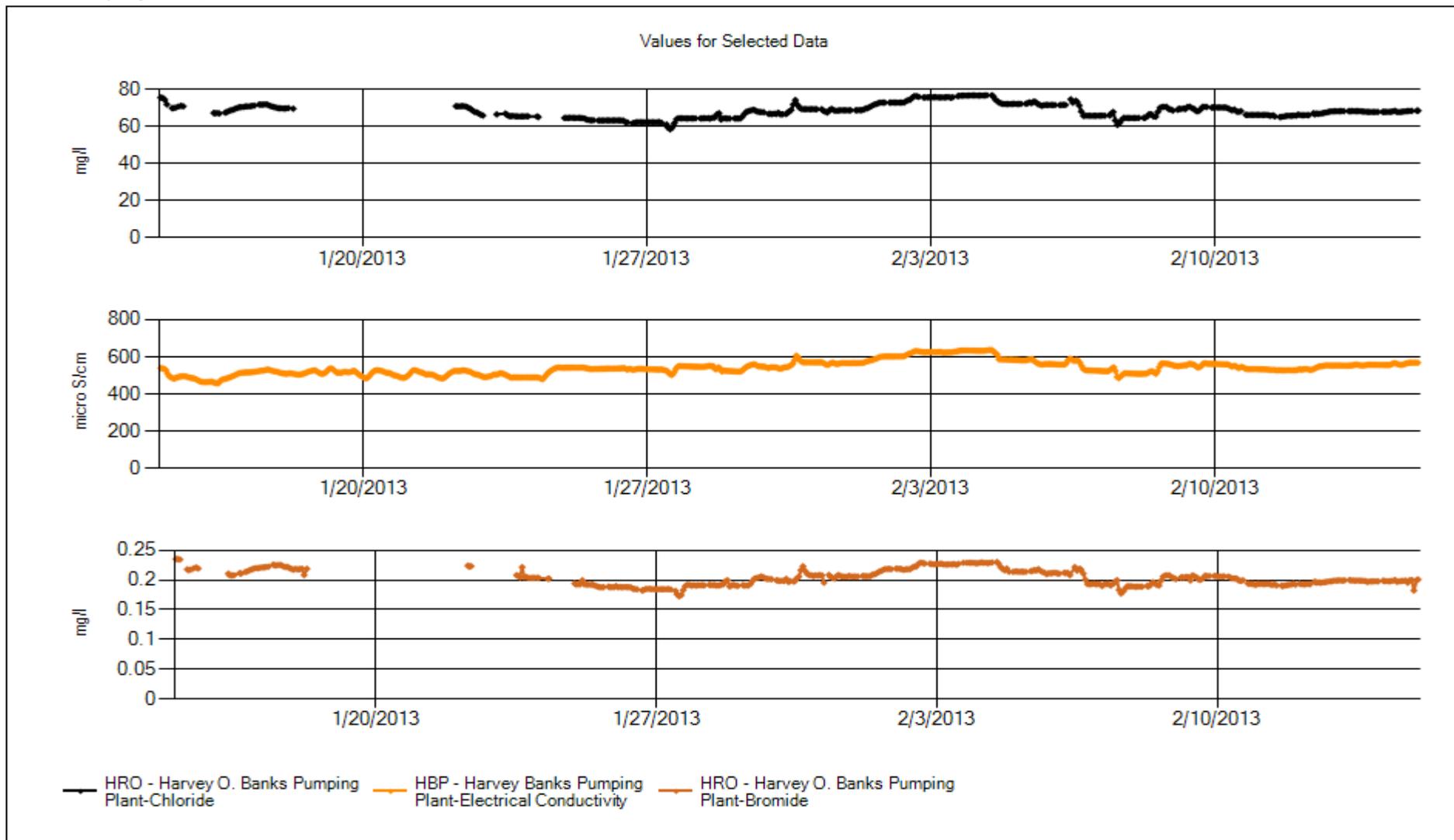


Significant Events: 1/15/2013 – 2/15/2013

➤ 2/5-2/6/2013--Communication was lost with the station computer.

➤ 2/11-2/13/2013-- Power outages at the Field Division resulted in skewed and missing data.

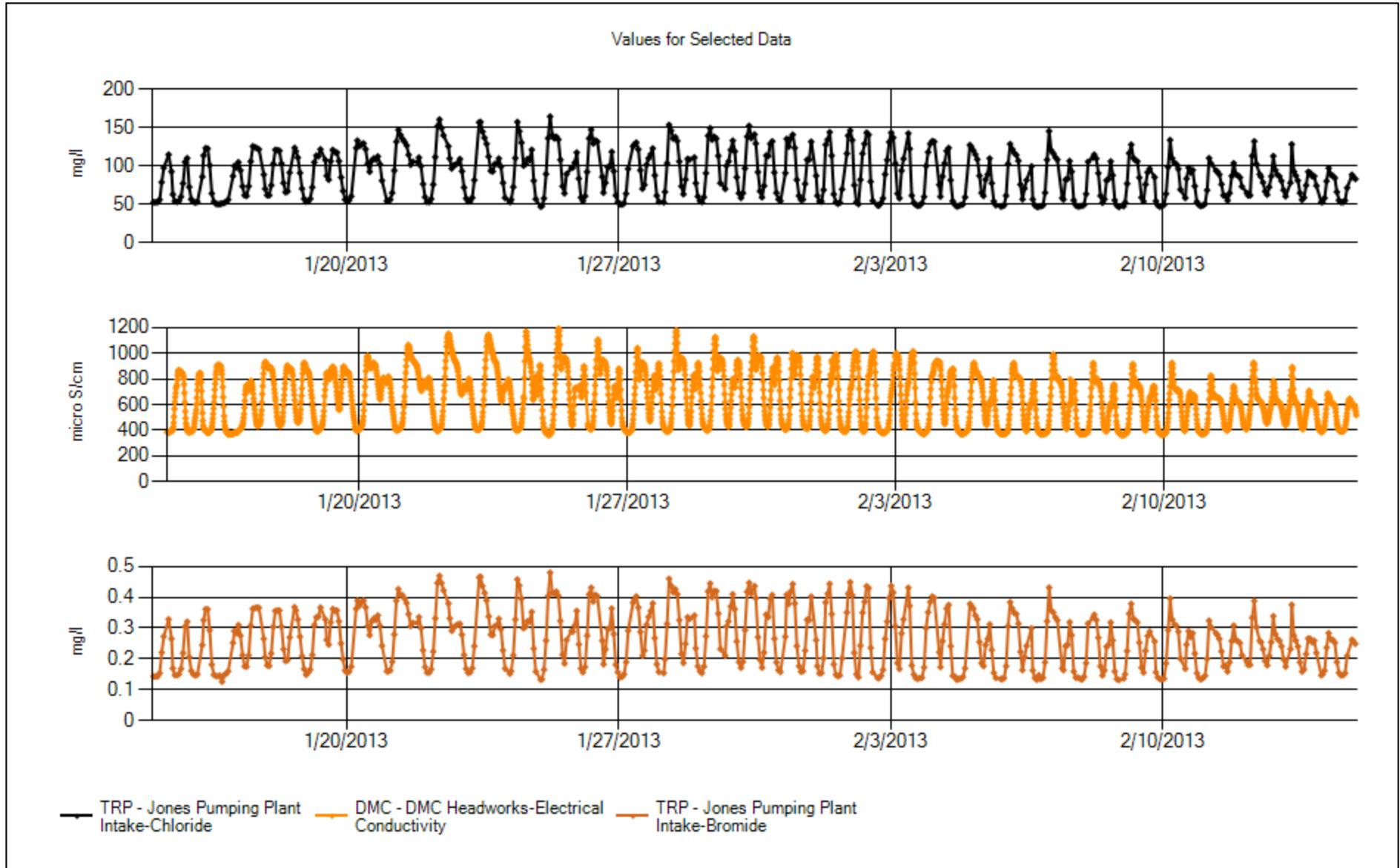
Banks Pumping Plant, Selected Anions and EC:



Significant events: 1/15/2013-2/15/2013

- | | |
|---|--|
| <ul style="list-style-type: none"> ➤ 1/23/2013-- Sample water delivery system filters changed. ➤ 1/18-1/25/13-- Data gap caused by a faulty 10 port valve in the Dionex. The 10 port valve replaced on 1/25/2013. ➤ 1/30/2013-- Sample water delivery system filters changed. Aqueduct pumps off, canal was approximately 4 to 5 feet lower than normal. | <ul style="list-style-type: none"> ➤ 2/6/2013-- Sample water delivery system filters changed. There was a sample flow issue within the Dionex. The metering valve in question was cleared after an initial attempt failed. ➤ 2/12/2013-- Sample water delivery system filters changed. A 75 um lead filter was used in place of a 100 um filter. |
|---|--|

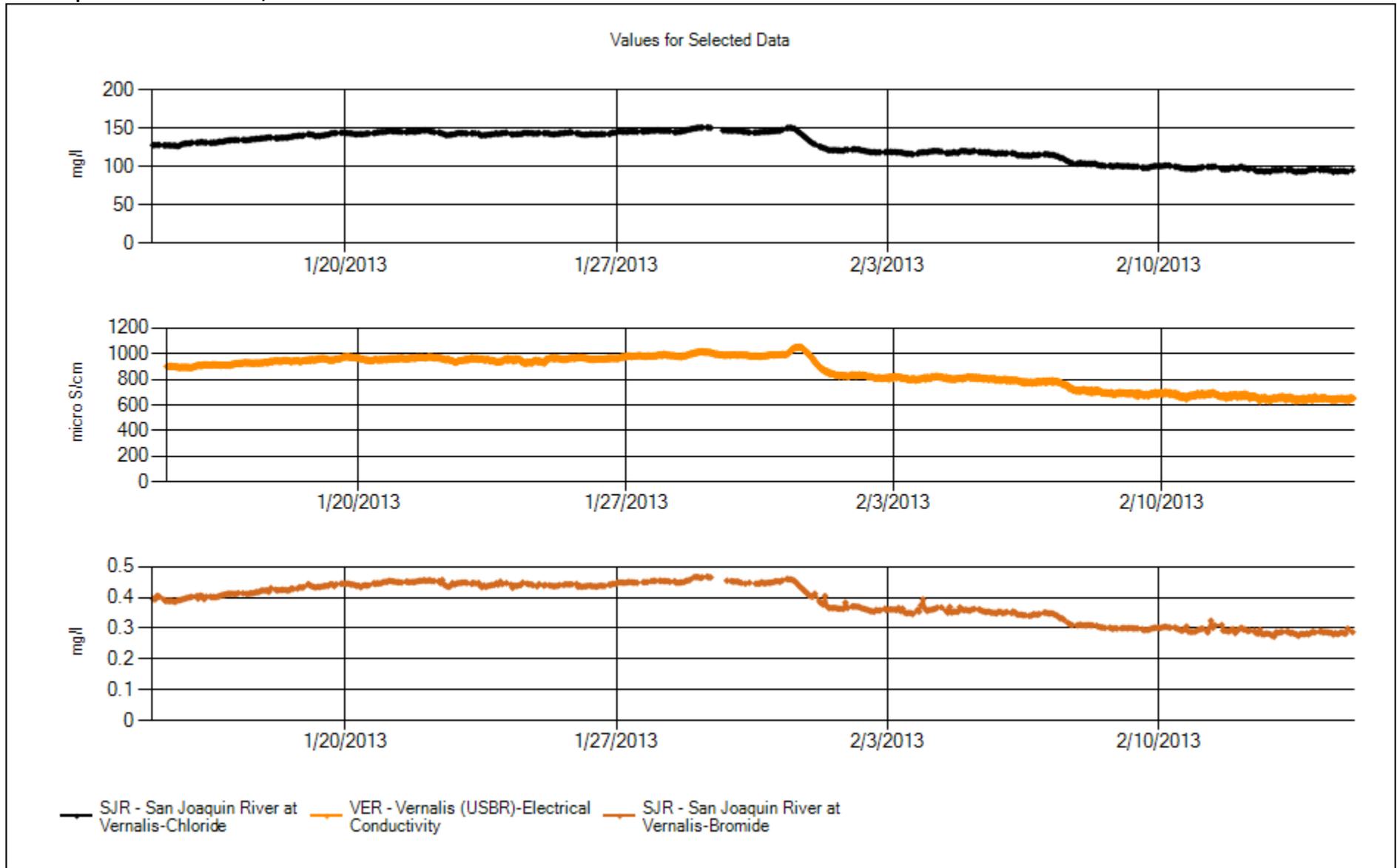
Jones Pumping Plant, Selected Anions and EC:



Significant events: 12/9/2012 – 1/17/2013

- | | |
|--|---|
| <ul style="list-style-type: none"> ➤ 1/15/2013-- Sample water delivery system filters changed. ➤ 1/30/2013-- Sample water delivery system filters changed. | <ul style="list-style-type: none"> ➤ 2/6/2013-- Sample water delivery system filters changed. ➤ 2/12/2013-- Sample water delivery system filters changed. |
|--|---|

San Joaquin River nr Vernalis, Selected Anions and EC:

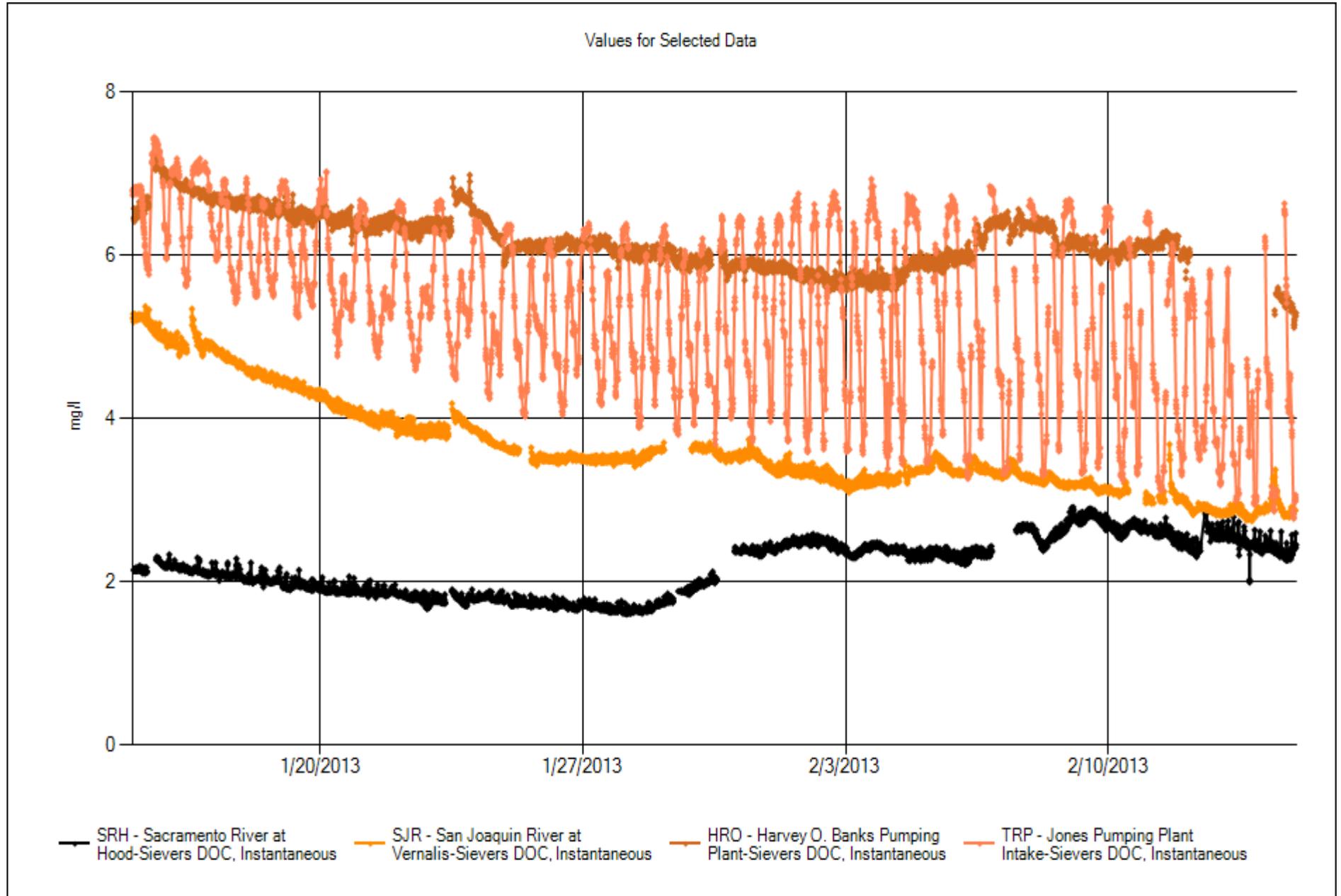


Significant Events: 1/15/2013-2/15/2013

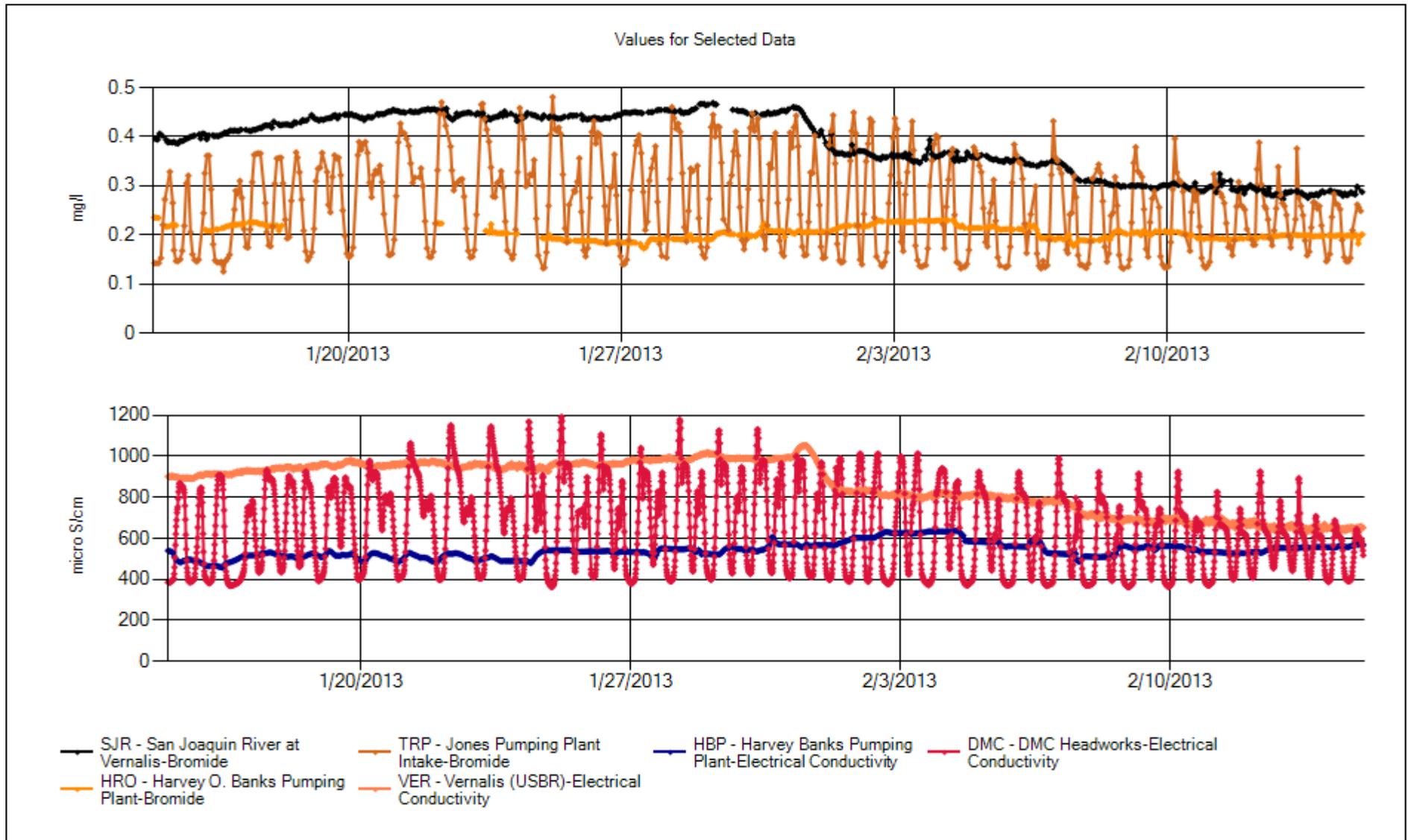
- 1/29/13-- System flows stopped due to filter loading.
- 1/31/13-- Increase in flows/releases upstream.

- 2/7/13-- Increase in flows/releases upstream.

DOC at Selected Stations:



Bromide and EC at Selected Stations:



Notes on DOC, Bromide, and EC:

- Over the past month Clifton Court gate operation appears to be selecting for higher DOC water. In order to decrease DOC concentration at Banks, the gate operation should actually be reversed. This said, current gate operation is selecting for lower EC/Bromide water. Based on this, and excluding other external factors, gate operation could be adjusted to minimize loading of the constituent of greatest momentary concern.