

SWP Weekly Water Quality Summary

February 3 to 10, 2010

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP) and Vallecitos, but increased slightly at Barker Slough and Check 41. Concentrations ranged from 239 $\mu\text{S}/\text{cm}$ to 577 $\mu\text{S}/\text{cm}$ (143 mg/L to 346 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). As of February 10, 2010, the lowest concentration of 325 $\mu\text{S}/\text{cm}$ occurred at Barker Slough while the highest concentration of 485 $\mu\text{S}/\text{cm}$ occurred at Vallecitos. As of February 3, 2010, the EC concentration at HBP was 409 $\mu\text{S}/\text{cm}$.

Bromide*: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.07 mg/L to 0.30 mg/L. As of February 10, Barker Slough had the lowest concentration of 0.11 mg/L, while the highest concentration of 0.22 mg/L occurred at Vallecitos. The average daily bromide concentration at HBP was 0.17 mg/L as of February 10, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From February 3 to 10, turbidity levels increased at HBP, but decreased at Check 41, Barker Slough and Vallecitos. Turbidity levels ranged from 2.0 NTU to 104.4 NTU during the week. As of February 10, 2010, the lowest level of 2.0 NTU occurred at Check 41, while the highest level of 81.6 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 11.1 NTU to 14.6 NTU, as of February 10, 2010.

Dissolved Organic Carbon (DOC): Concentrations increased from 5.7 mg/L to 7.0 mg/L at HBP, from 5.2 mg/L to 5.6 mg/L at Check 13 and from 2.1 mg/L to 2.3 mg/L at Edmonston, as of February 10, 2010.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from non-detect to 7 ng/L at Clifton Court Inlet, HBP, Del Valle Check 7, Del Valle Outlet, O'Neill Forebay Check 13, San Luis Reservoir and Pacheco Pumping Plant as of February 10, 2010.

Ground water pump-ins to the California Aqueduct from February 3 to 10, 2010 totaled 10,400 AF. The break down of the total volume was:

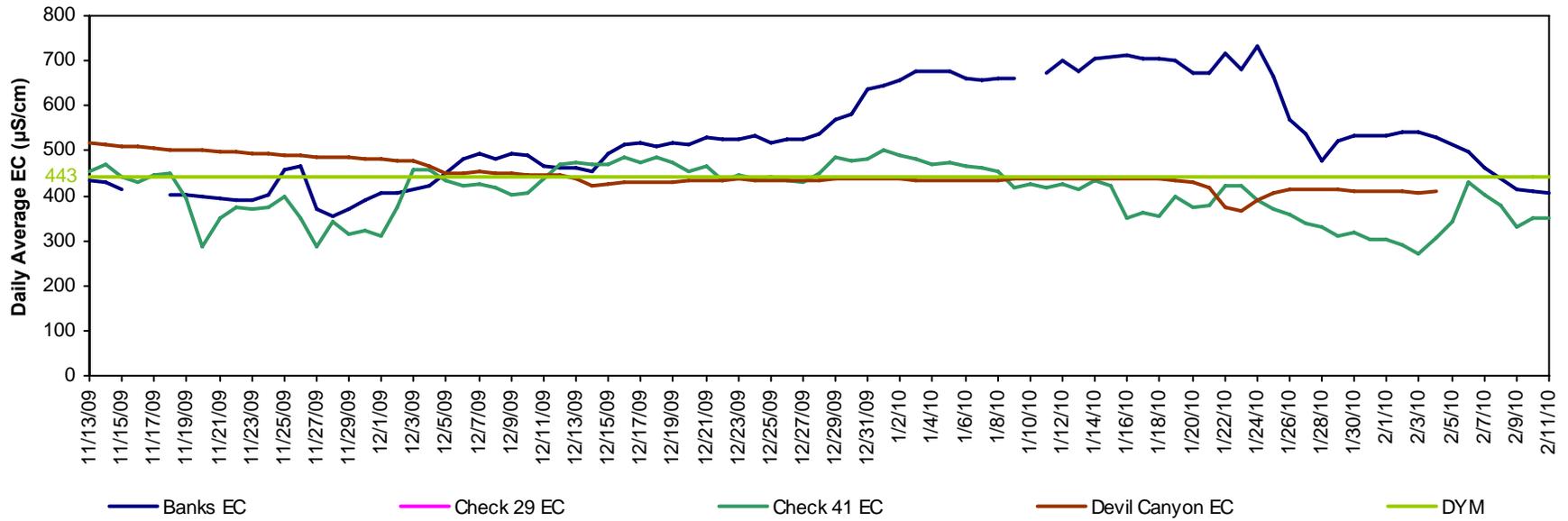
- Arvin Edison Water Storage District = 2,937 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 2,789 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 4,606 AF
- Semitropic (2&3) Water Storage District = 68 AF

As of February 10, 2010, no data were available for Devil Canyon and Check 29 due to malfunctioning instruments and the water quality station upgrades currently underway.

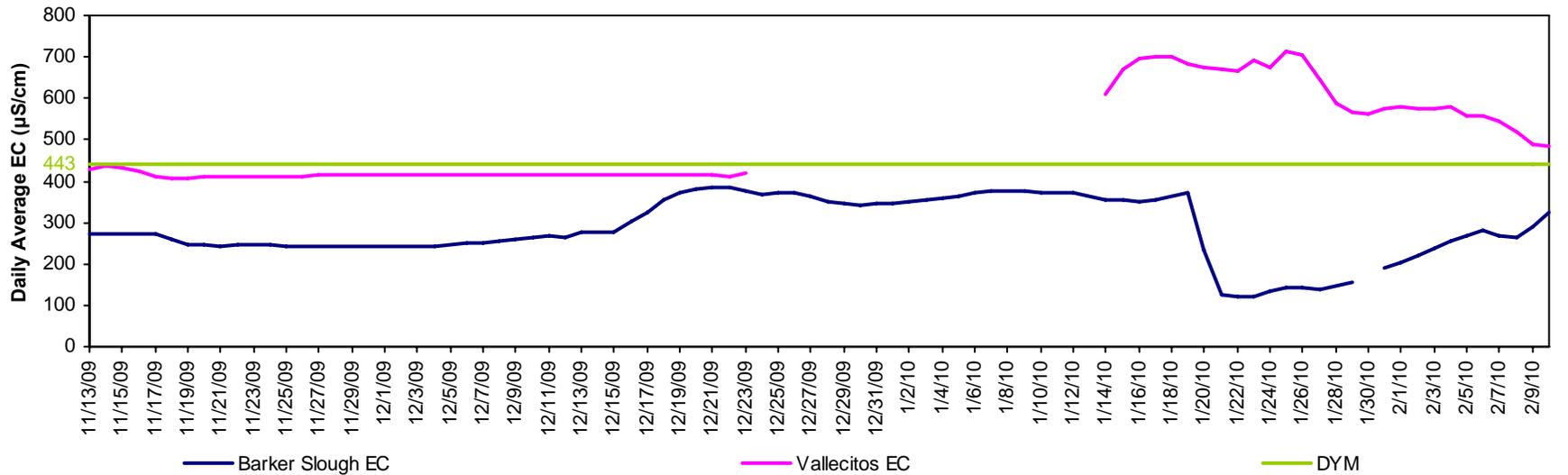
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

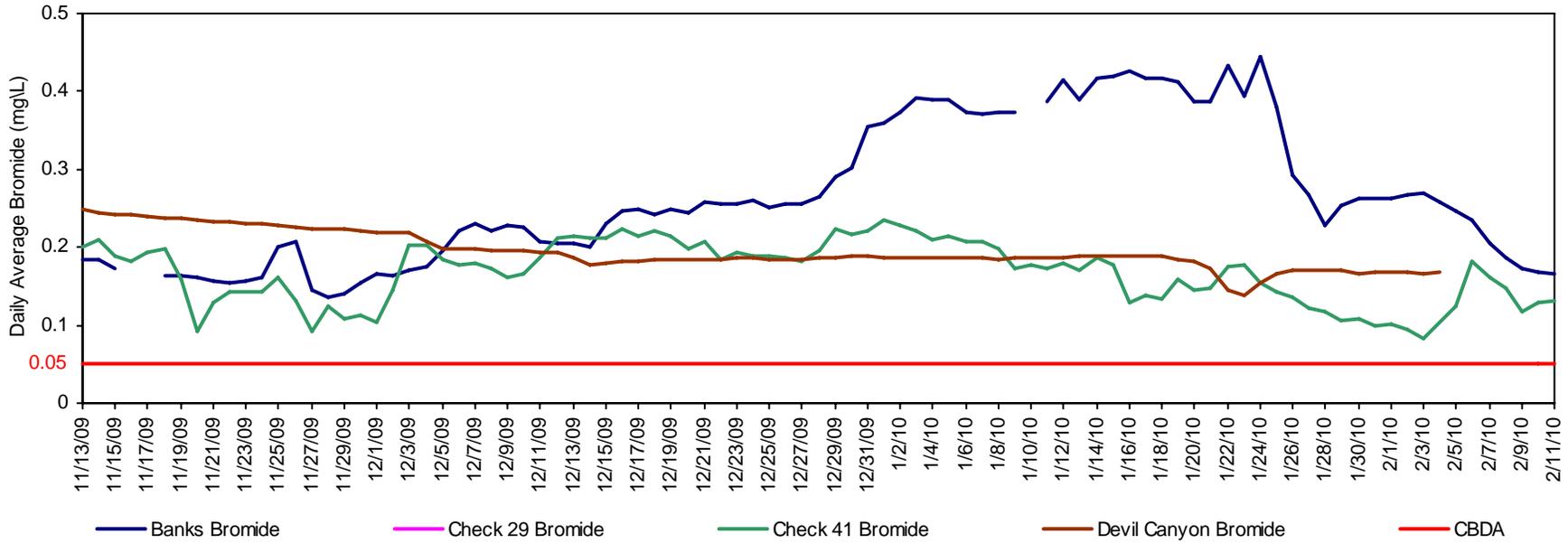
California Aqueduct - Electrical Conductivity



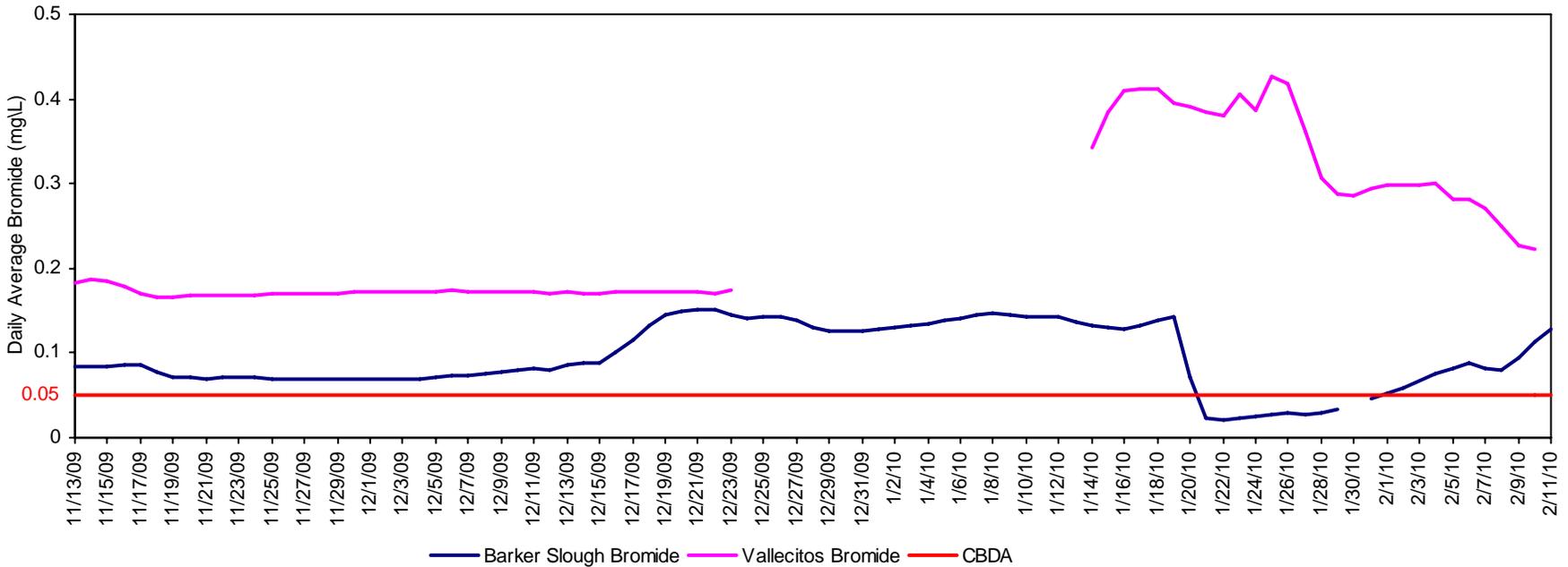
North and South Bay Aqueduct - Electrical Conductivity



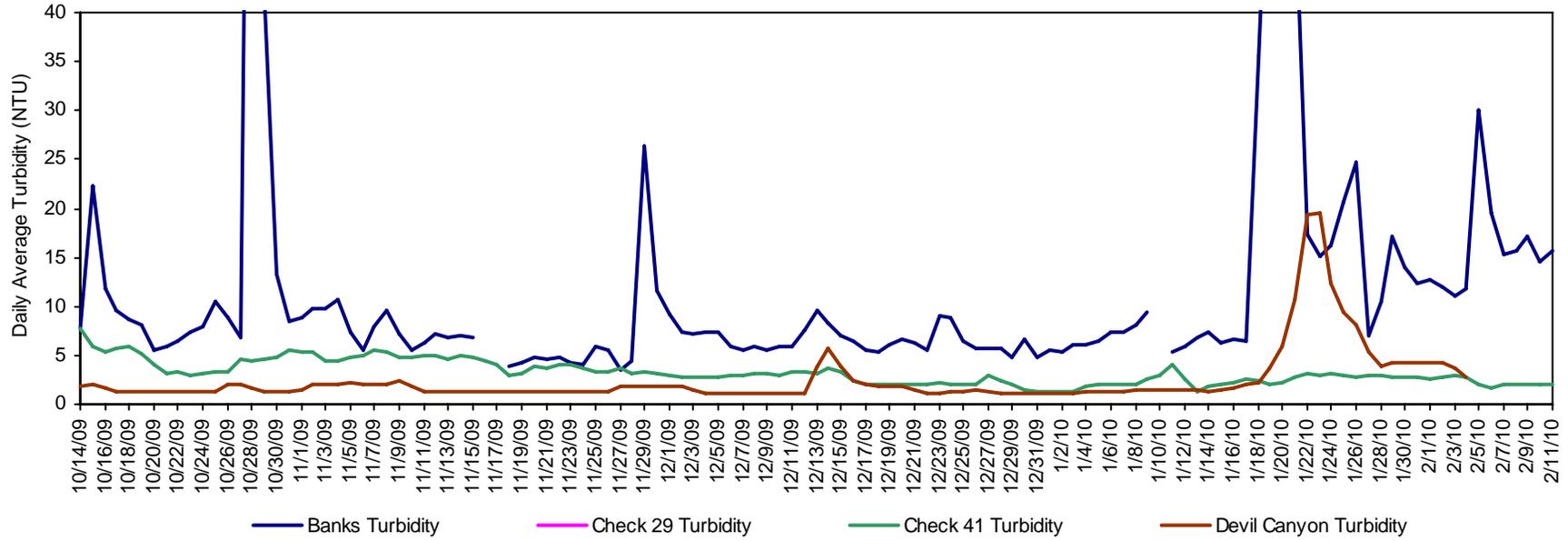
California Aqueduct - Calculated Bromide



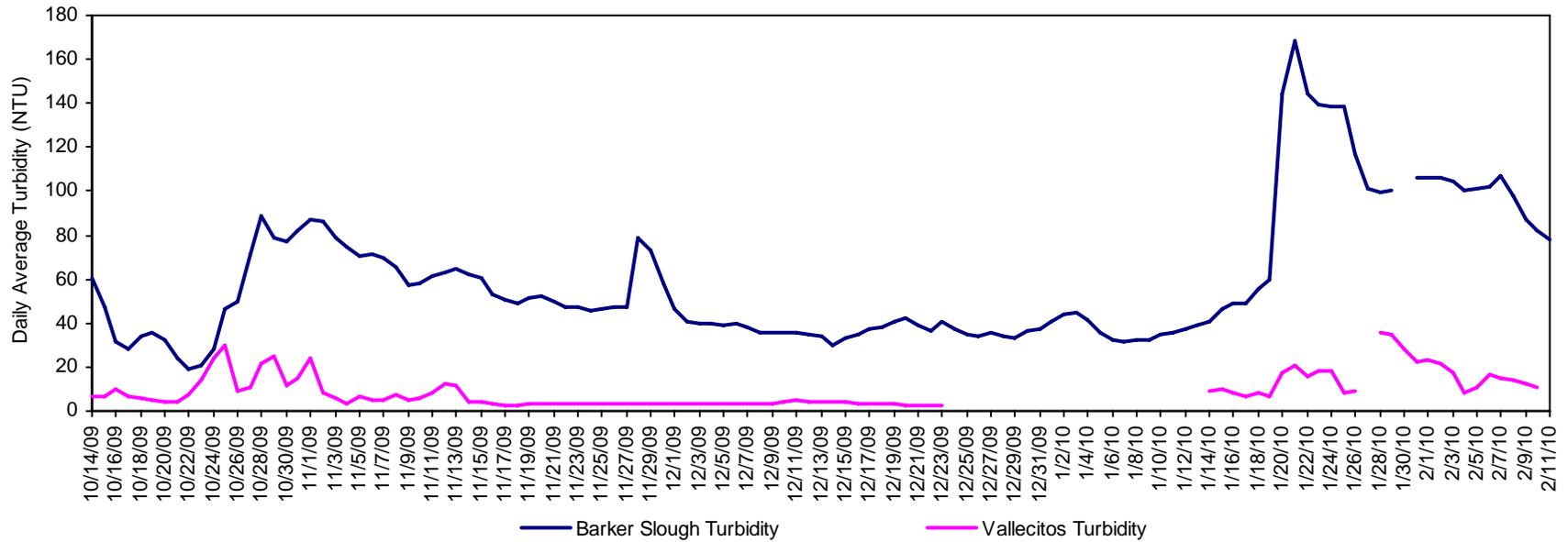
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

