

SWP Weekly Water Quality Summary

April 28 to May 4, 2010

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Check 41, Barker Slough and Vallecitos, but increased at Check 29 from April 28 to May 4, 2010. Concentrations ranged from 346 to 545 $\mu\text{S}/\text{cm}$ (207 to 327 mg/L), below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L .) As of May 4, 2010, the lowest concentration of 346 $\mu\text{S}/\text{cm}$ occurred at Check 41, while the highest concentration of 540 $\mu\text{S}/\text{cm}$ occurred at Barker Slough. EC concentration at HBP decreased from 425 $\mu\text{S}/\text{cm}$ to 354 $\mu\text{S}/\text{cm}$, as of May 4, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.13 to 0.27 mg/L . As of May 4, HBP and Check 41 had the lowest concentration of 0.13 mg/L , while the highest concentration of 0.27 mg/L occurred at Barker Slough. The average daily bromide concentration at HBP was 0.13 mg/L as of May 4, 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: This week turbidity levels increased at all locations and their levels ranged from 5.6 NTU to 22.1 NTU. As of May 4, 2010, the lowest level of 7.2 NTU occurred at Vallecitos, while the highest level of 22.1 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 6.1 NTU to 8.7 NTU as of May 4, 2010.

Dissolved Organic Carbon (DOC): Concentrations decreased slightly from 3.3 mg/L to 2.8 mg/L at HBP, from 4.2 mg/L to 4.1 mg/L at Check 13, but increased from 2.9 to 3.6 mg/L at Edmonston PP as of May 4, 2010.

Taste and Odor Compounds: As of May 4, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 4 ng/L at Clifton Court Inlet, HBP, Del Valle Check 7 and Check 41.

Ground water pump-ins to the California Aqueduct from April 28 to May 4, 2010 totaled 17,944 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 3,330 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 3,994 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 7,900 AF
- Semitropic (2&3) Water Storage District = 48 AF
- Wheeler Ridge Maricopa Water Storage District = 2,672 AF

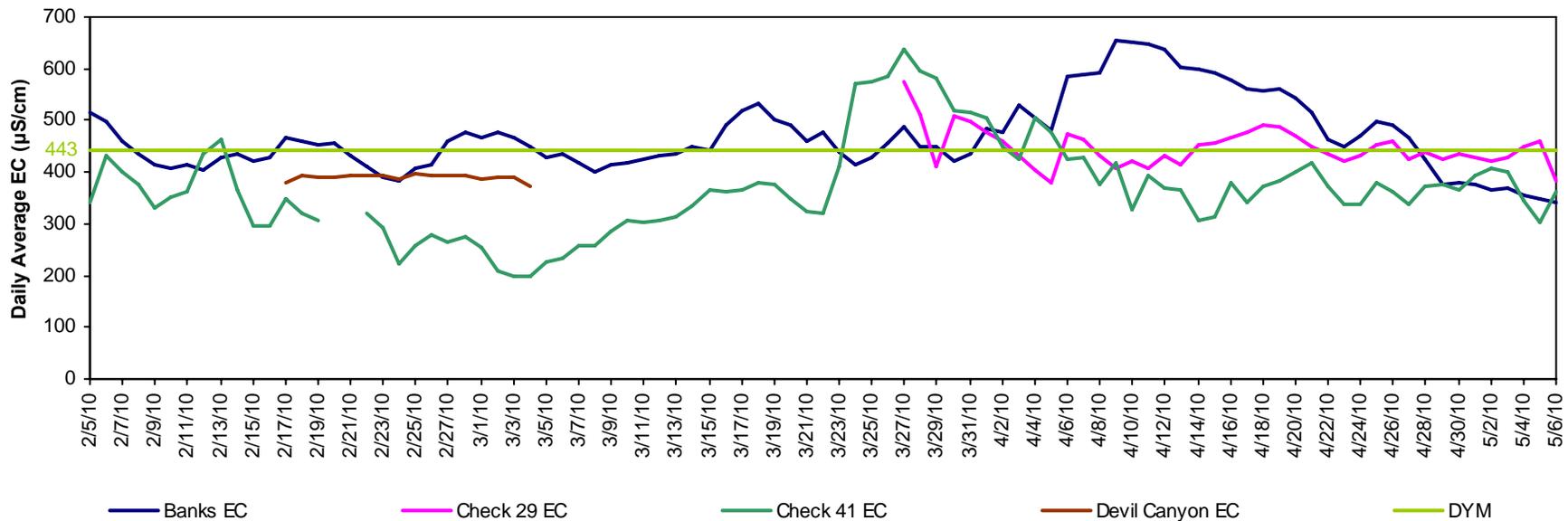
As of May 4, 2010, no data were available for Devil Canyon due to malfunctioning instruments.

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).

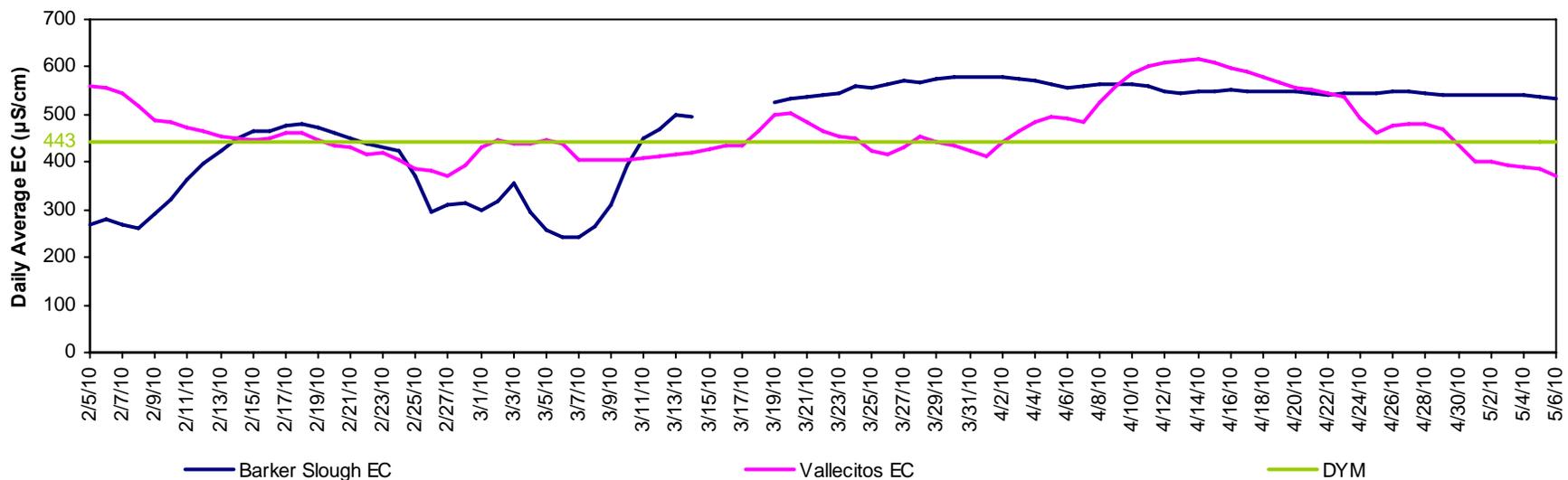
Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station 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."

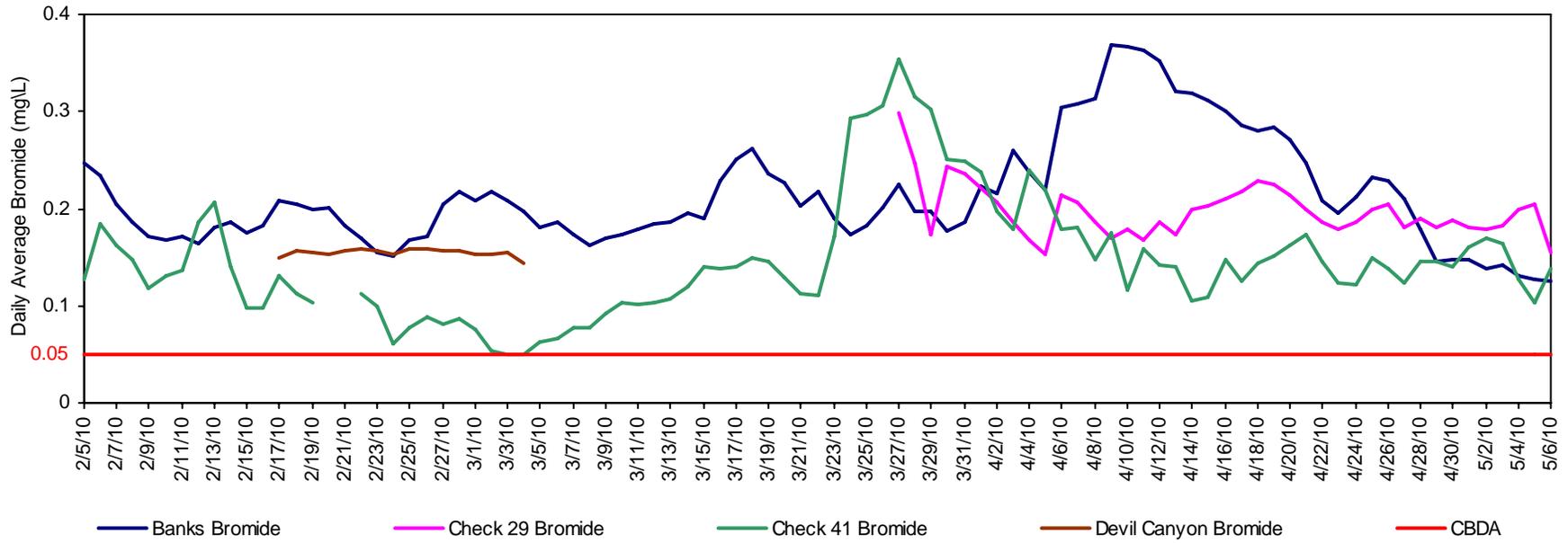
California Aqueduct - Electrical Conductivity



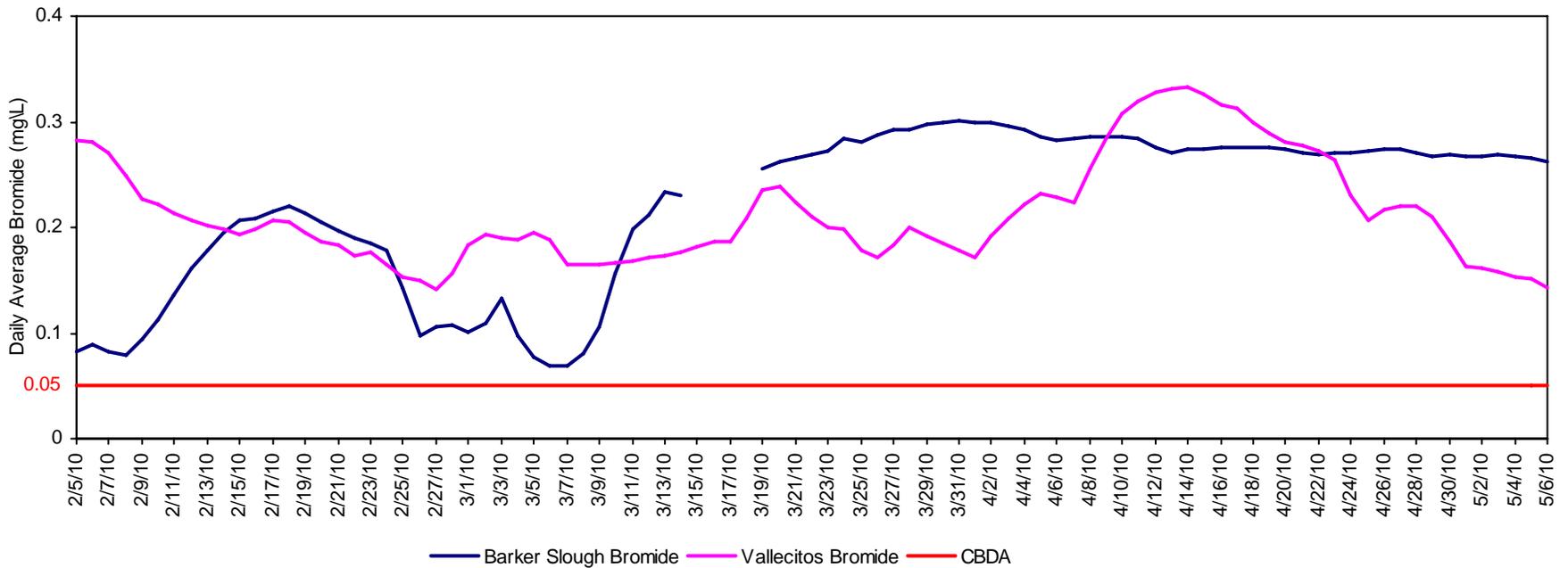
North and South Bay Aqueduct - Electrical Conductivity



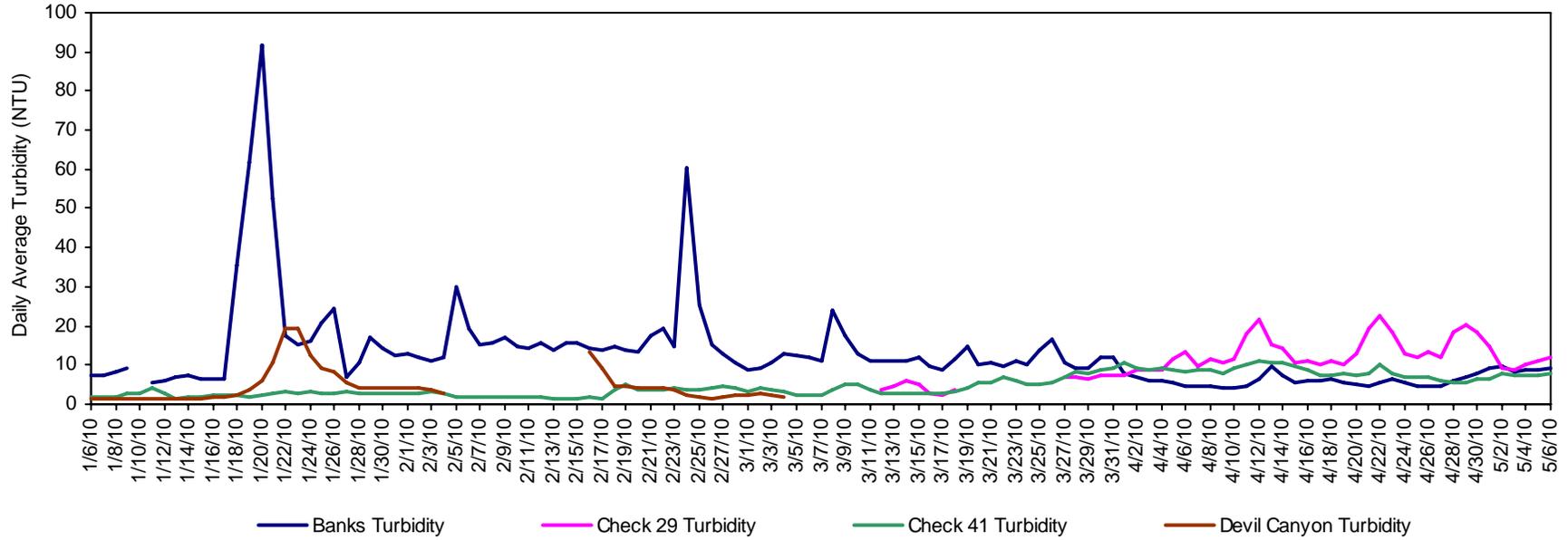
California Aqueduct - Calculated Bromide



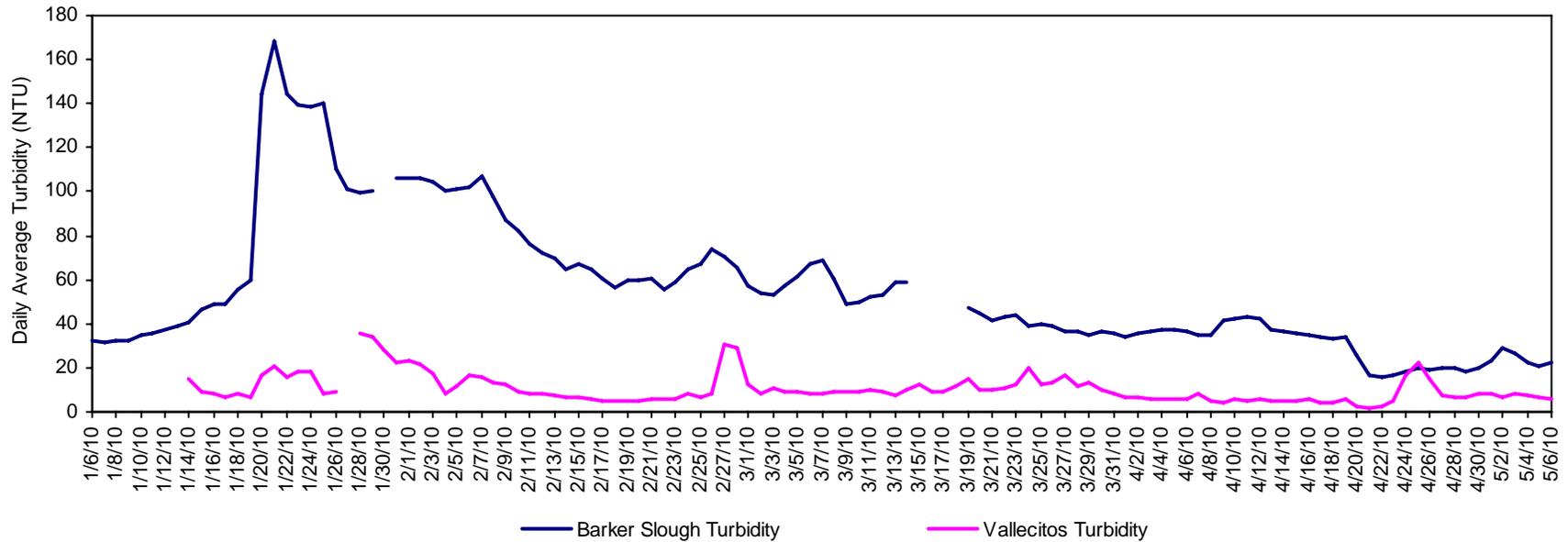
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

