

SWP Weekly Water Quality Summary

May 20 to 26, 2010

Electrical Conductivity (EC): Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Barker Slough and Vallecitos, but increased at Check 29 and Check 41. Concentrations ranged from 294 to 520 $\mu\text{S}/\text{cm}$ (176 to 312 mg/L), below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). As of May 26, 2010, the lowest concentration of 294 $\mu\text{S}/\text{cm}$ (176 mg/L) occurred at HBP, while the highest concentration of 520 $\mu\text{S}/\text{cm}$ (312 mg/L) occurred at Check 29, and concentrations at HBP decreased from 309 $\mu\text{S}/\text{cm}$ to 294 $\mu\text{S}/\text{cm}$ (185 to 176 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.10 to 0.25 mg/L. As of May 26, HBP and Vallecitos had the lowest concentration of 0.10 mg/L, while the highest concentration of 0.25 mg/L occurred at Check 29, and the average daily bromide concentration at HBP was 0.09 mg/L.

* 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. Turbidity levels ranged from 3.8 NTU to 54.5 NTU. As of May 26, 2010, the lowest level of 8.3 NTU occurred at Check 41, while the highest level of 54.5 NTU occurred at Barker Slough, and the turbidity levels at HBP increased from 5.3 NTU to 17.7 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased slightly from 2.5 mg/L to 2.3 mg/L at HBP, but increased at Check 13, from 3.4 mg/L to 4.3 mg/L and from 2.9 mg/L to 3.7 mg/L at Edmonston PP, as of May 26, 2010.

Taste and Odor Compounds: As of May 24, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect to 4 ng/L at Clifton Court Inlet, HBP, O'Neill Outlet, Del Valle Check 7, Del Valle Conservation Outlet and Lake Castaic.

Ground water pump-ins to the California Aqueduct from May 20 to 26, 2010 totaled 3,230 AF. The breakdown of the total volume was:

- Arvin Edison Water Storage District = 0 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 735 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 2,480 AF
- Semitropic (2&3) Water Storage District = 15 AF
- Wheeler Ridge Maricopa Water Storage District = 0 AF

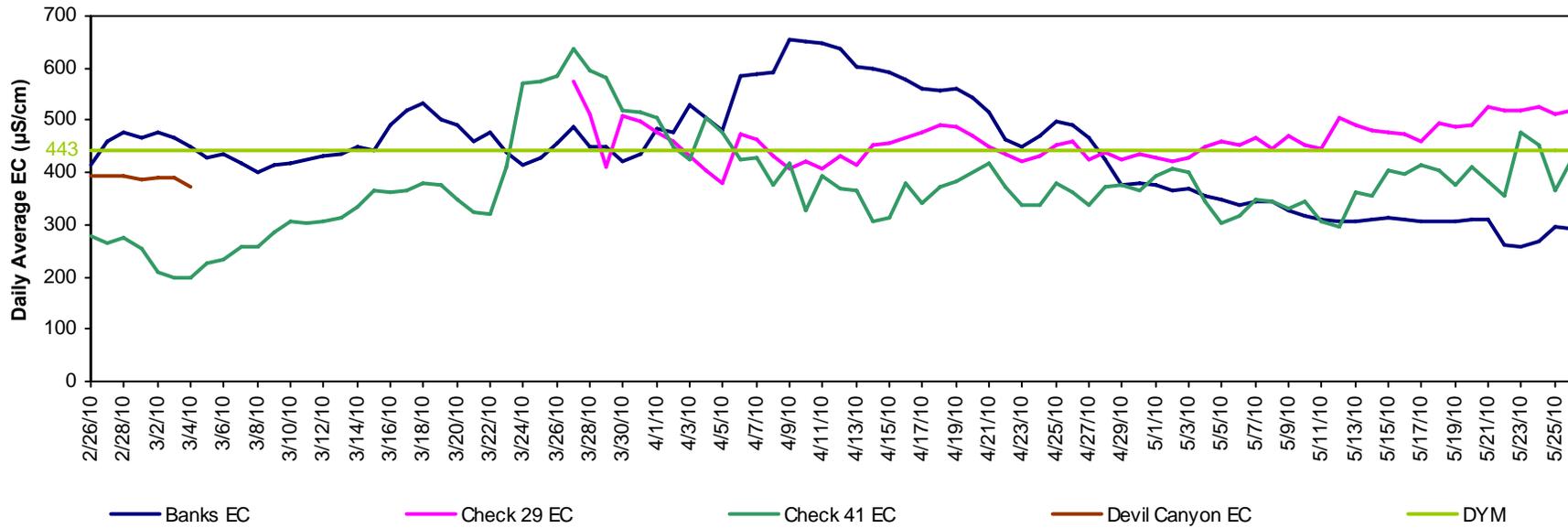
As of May 26, 2010, no data was available for Devil Canyon due to malfunctioning instruments.

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).

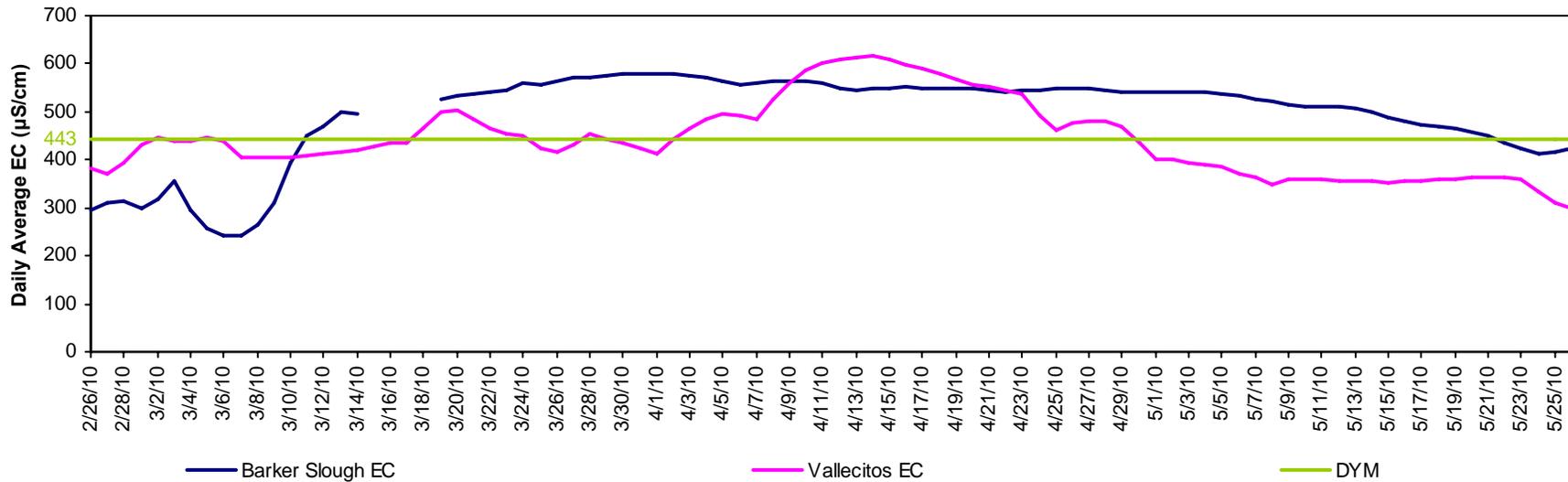
Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station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

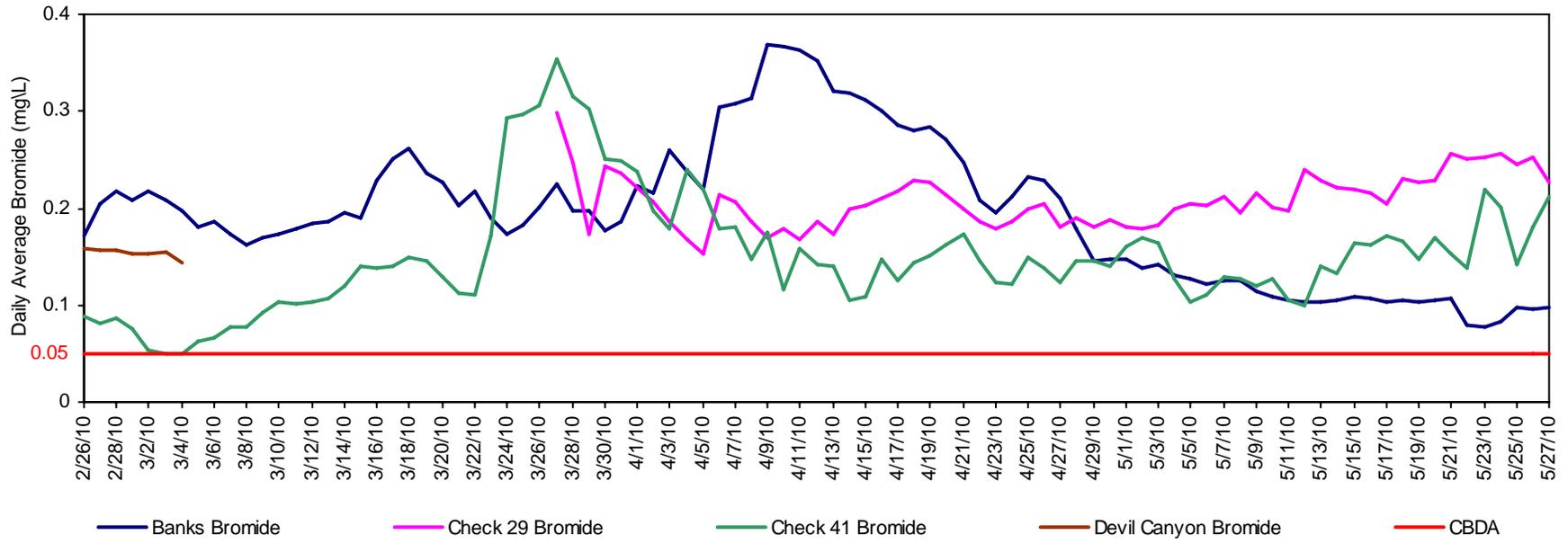
California Aqueduct - Electrical Conductivity



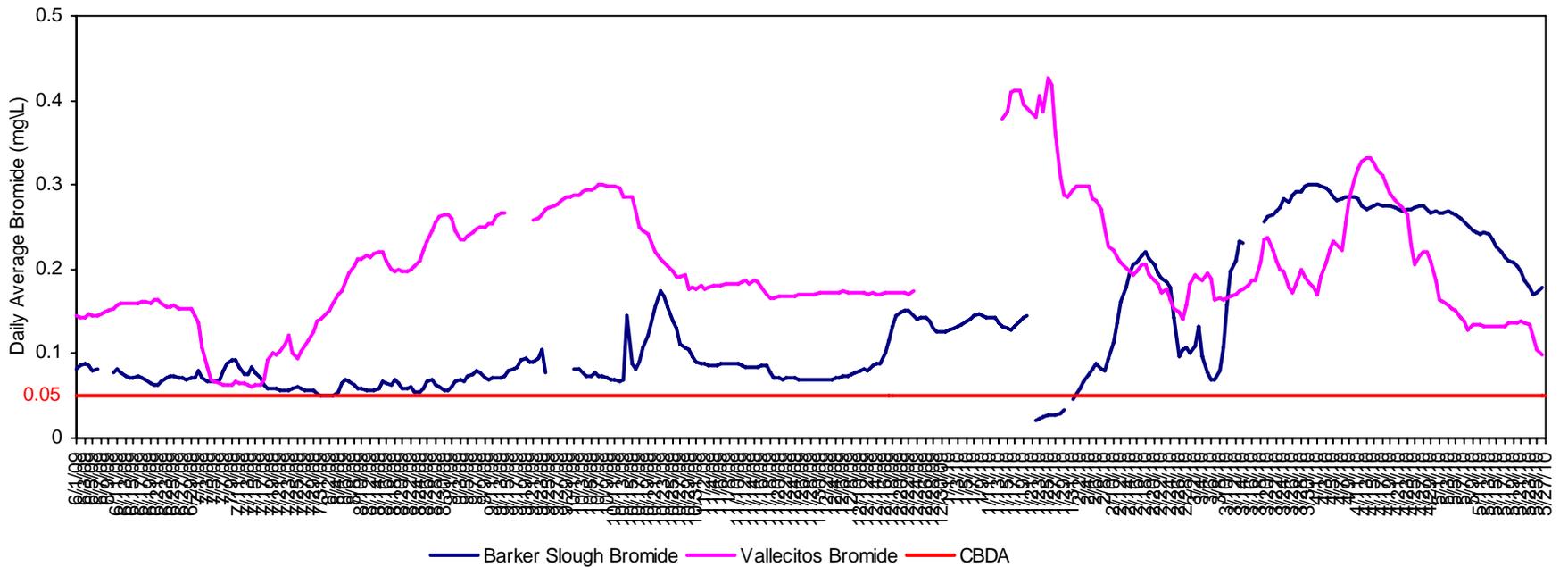
North and South Bay Aqueduct - Electrical Conductivity



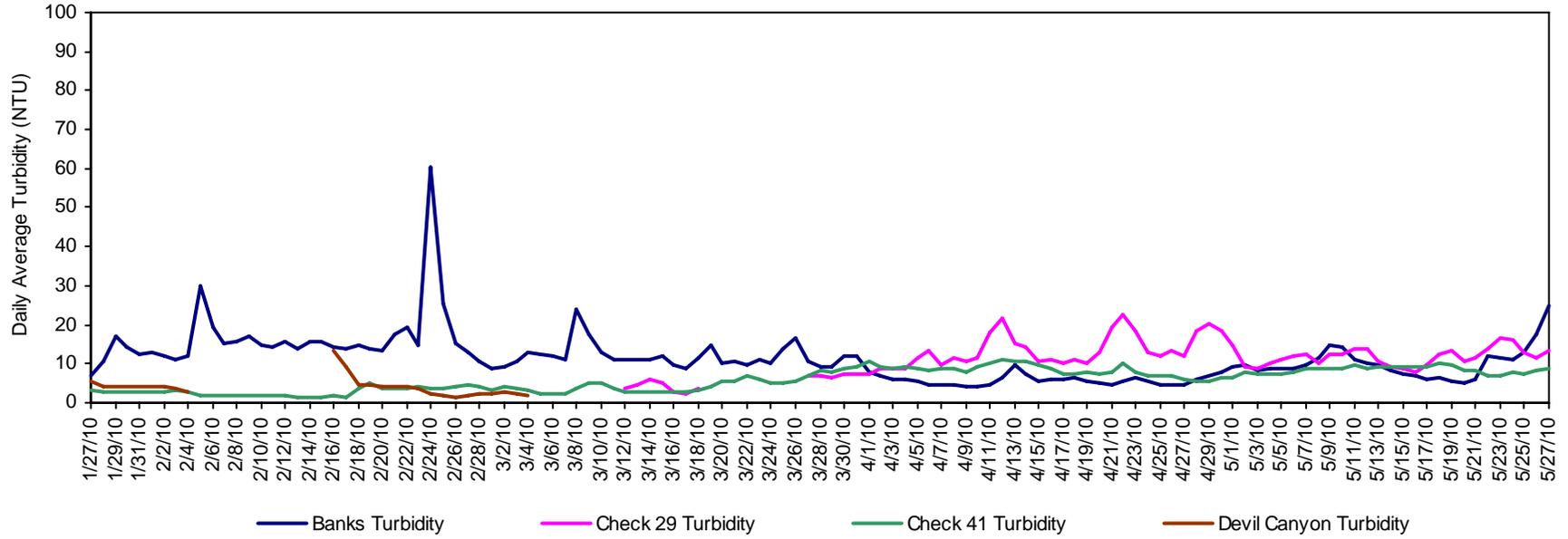
California Aqueduct - Calculated Bromide



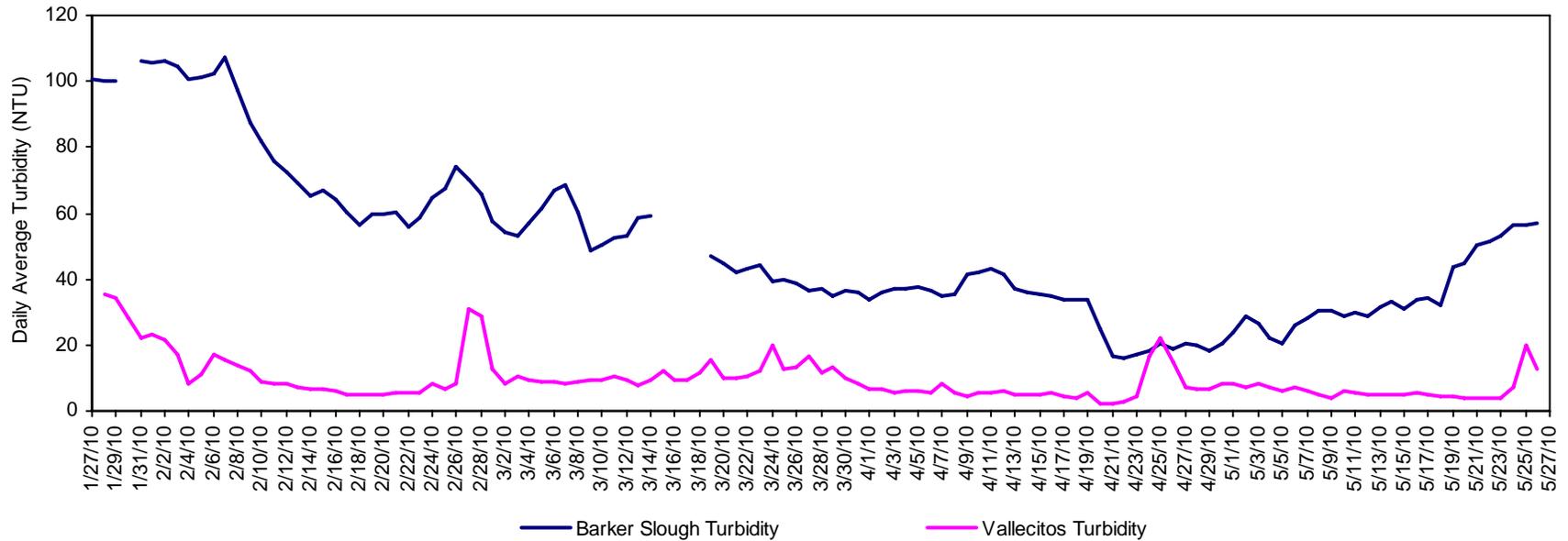
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

