

SWP Weekly Water Quality Summary

September 8 to 14, 2010

Electrical Conductivity (EC): EC concentrations increased at Harvey O. Banks Pumping Plant (HBP) and Check 29, but decreased at Check 41 and Barker Slough. All EC concentrations were below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). Concentrations ranged from 222 to 557 $\mu\text{S}/\text{cm}$ (133 to 334 mg/L). The lowest concentration of 222 $\mu\text{S}/\text{cm}$ (133 mg/L) occurred at Barker Slough, and the highest concentration of 557 $\mu\text{S}/\text{cm}$ (334 mg/L) occurred at HBP. EC increased at HBP from 439 $\mu\text{S}/\text{cm}$ to 557 $\mu\text{S}/\text{cm}$ (263 to 334 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all the stations throughout the week. Barker Slough had the lowest concentration of 0.06 mg/L, while the highest concentration of 0.28 mg/L occurred at HBP.

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

Turbidity: Turbidity levels decreased at HBP, Check 41 and Barker Slough and ranged from 6.1 NTU to 38.8 NTU. At the end of the week, the lowest level of 6.7 NTU occurred at Check 29, while the highest level of 37.1 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 14.6 NTU to 8.5 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased from 3.2 mg/L to 2.6 mg/L at Edmonston Pumping Plant. Due to malfunctioning instruments at HBP and Check 13, DOC data were unavailable this week.

Taste and Odor Compounds: This week, MIB and geosmin concentrations in the SWP ranged from ND to 13 $\mu\text{g}/\text{L}$ at HBP, Del Valle Check 7, O'Neill Outlet, Pacheco Pumping Plant Outlet, Castaic Lake and Silver Wood Lake.

Groundwater pump-ins to the California Aqueduct totaled 2,079 AF. The breakdown of the total volume was:

- Arvin Edison = 1 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 6 AF
- Semitropic (2&3) Water Storage District = 2,072 AF

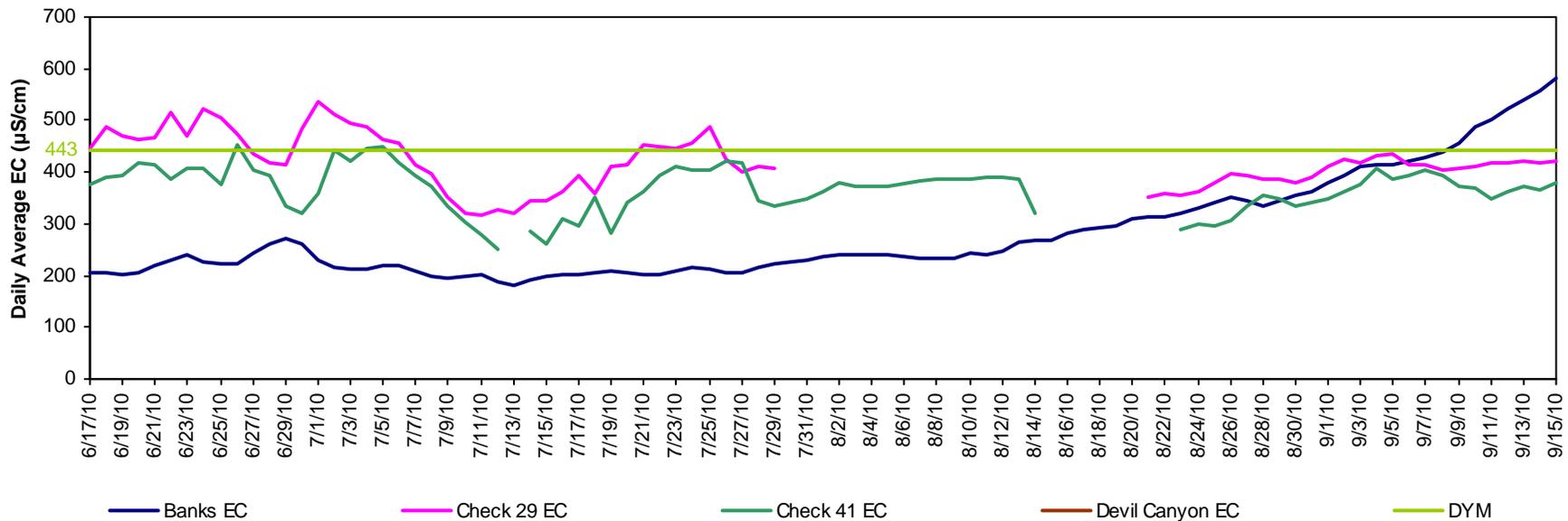
During the week, no data were available for Devil Canyon due to malfunctioning instruments.

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). You can direct your comments, questions and suggestions to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

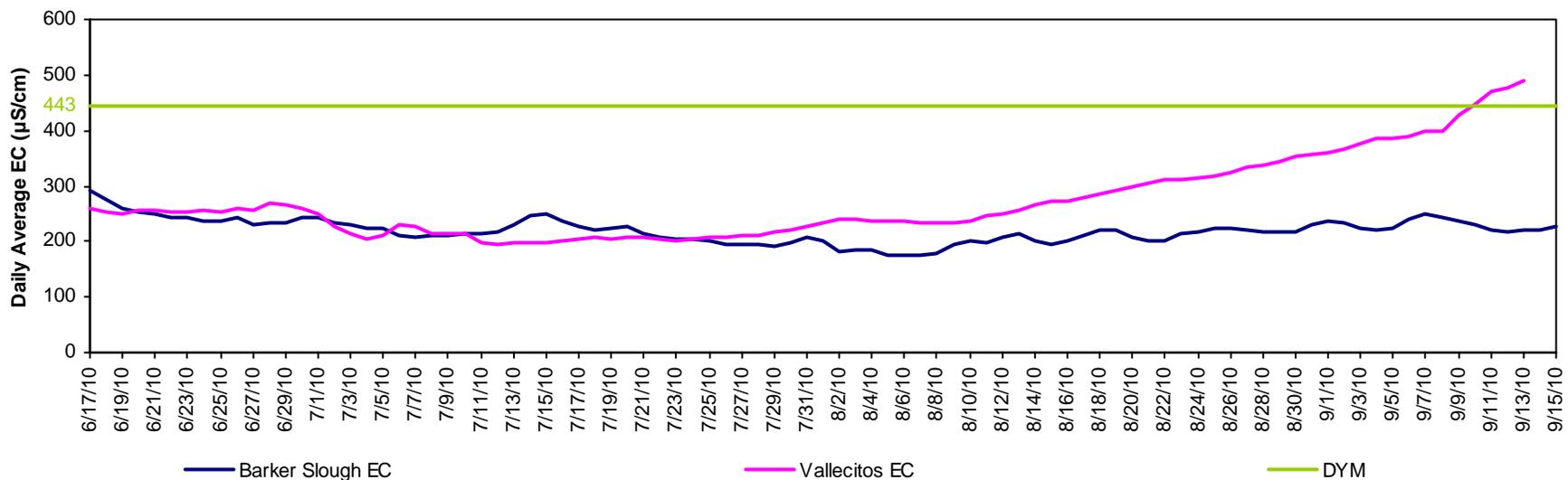
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

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."

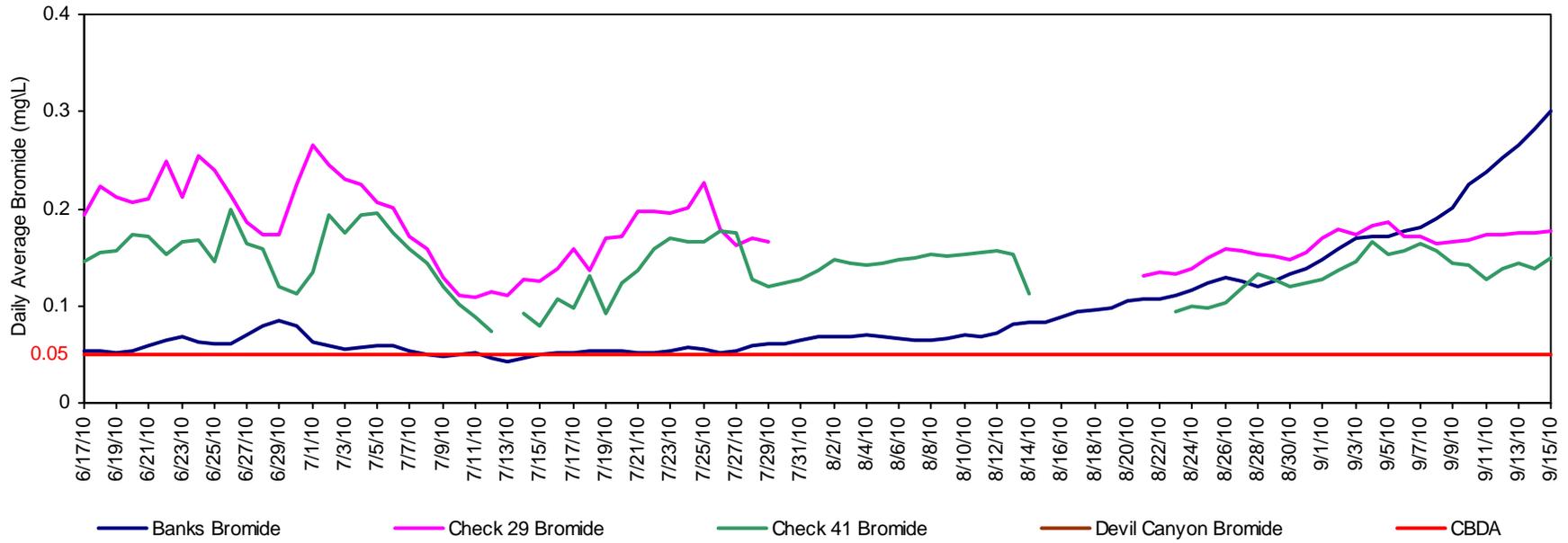
California Aqueduct - Electrical Conductivity



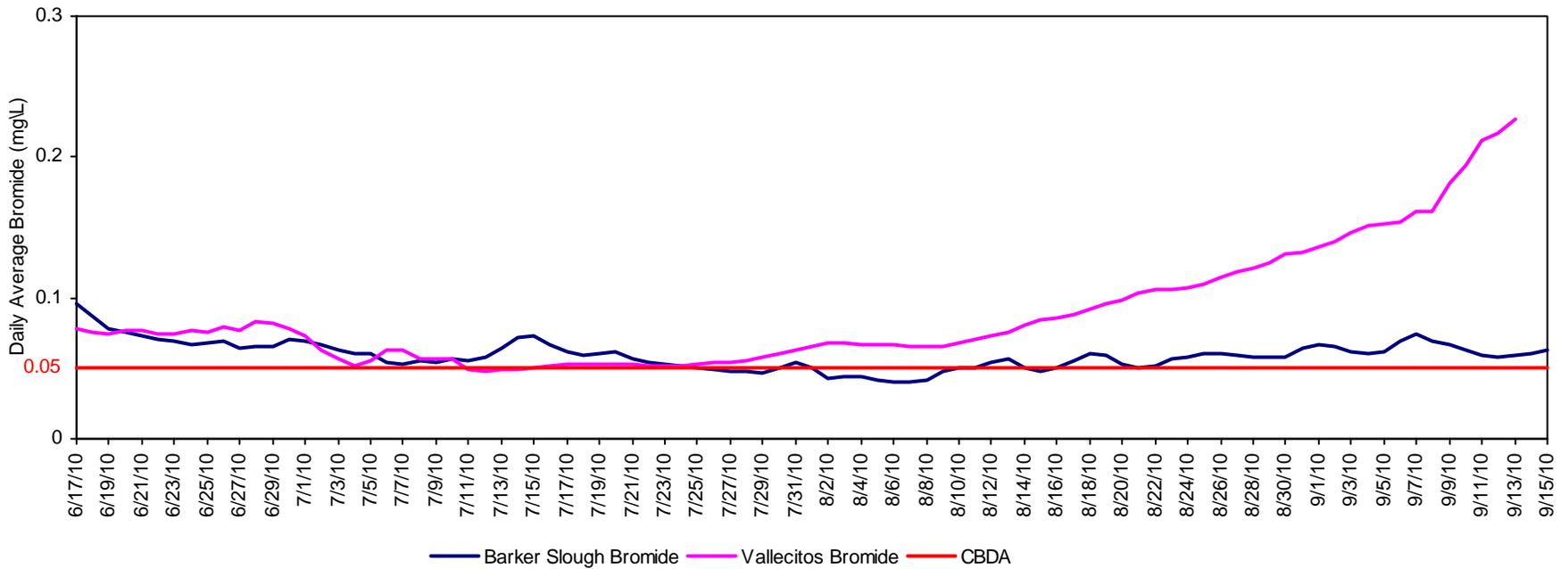
North and South Bay Aqueduct - Electrical Conductivity



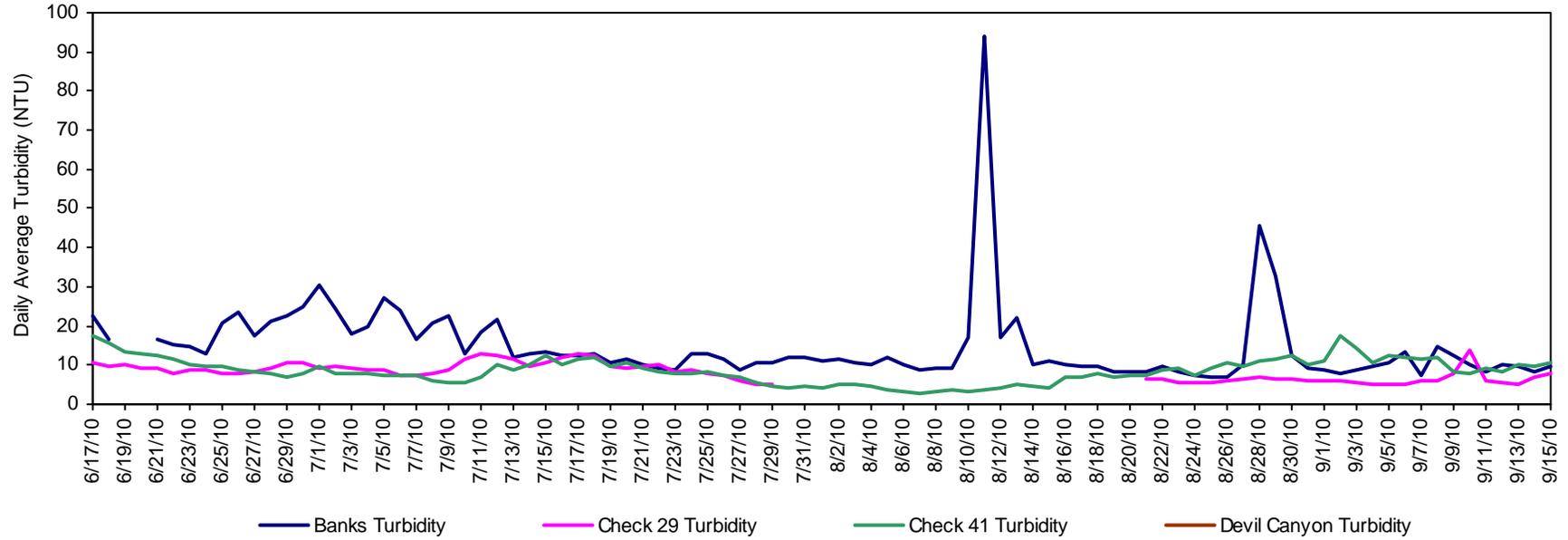
California Aqueduct - Calculated Bromide



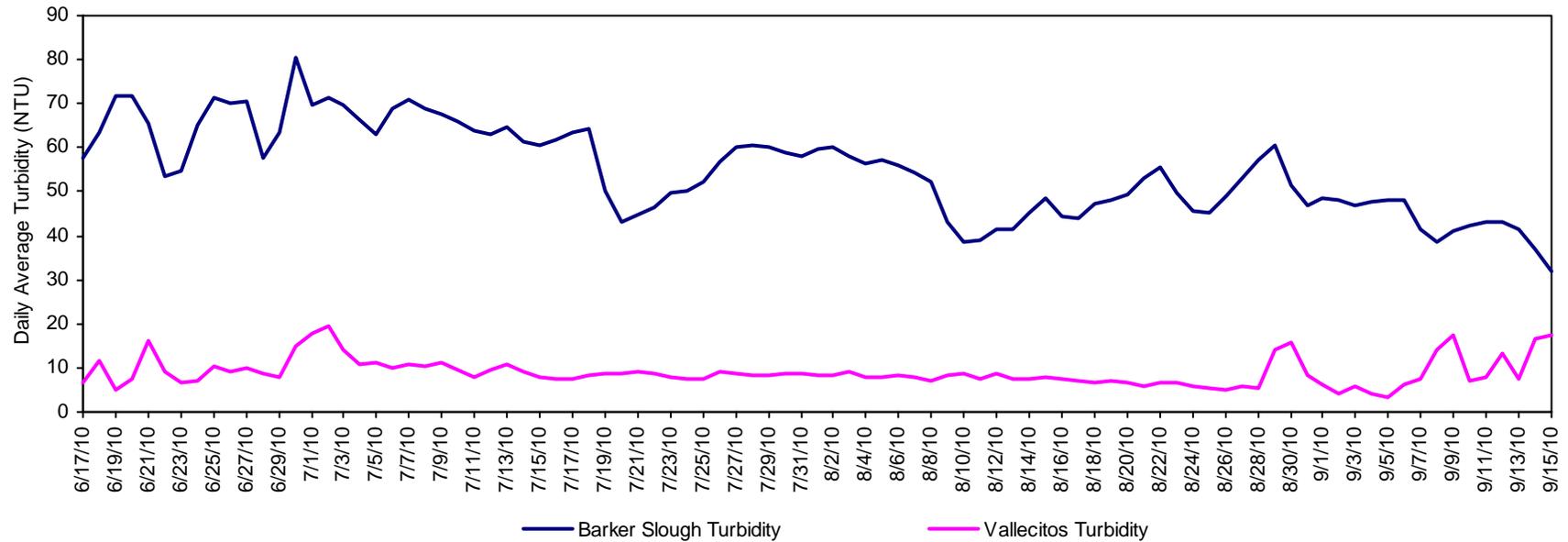
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

