

SWP Weekly Water Quality Summary

August 10 to 17, 2010

Electrical Conductivity (EC): Concentrations increased at Harvey O. Banks Pumping Plant (HBP), Vallecitos and Barker Slough, but decreased at Check 41. Concentrations ranged from 201 to 386 $\mu\text{S}/\text{cm}$ (121 to 232 mg/L) and were below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). The lowest concentration of 201 $\mu\text{S}/\text{cm}$ (121 mg/L) occurred at Barker Slough, and the highest concentration of 386 $\mu\text{S}/\text{cm}$ (232 mg/L) occurred at Check 41. EC increased at HBP from 242 $\mu\text{S}/\text{cm}$ to 289 $\mu\text{S}/\text{cm}$ (145 to 173 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at HBP, Check 41 and Vallecitos throughout the week. Barker Slough had the lowest concentration of 0.05 mg/L, while the highest concentration of 0.15 mg/L occurred at Check 41.

* 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 increased at Check 41 and Barker Slough, but decreased at HBP and Vallecitos. Turbidity levels ranged from 3.5 NTU to 44.0 NTU. On August 17, the lowest level of 3.5 NTU occurred at Check 41, while the highest level of 44.0 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 17.2 NTU to 9.6 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased from 3.4 to 2.7 mg/L at Edmonston Pumping Plant, but increased from 2.1 to 2.2 mg/L at HBP and from 2.1 to 3.0 mg/L at Check 13.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from non-detect (<1 ng/L) to 14 ng/L at Clifton Court Inlet, HBP, Del Valle Check 7, O'Neill Forebay Outlet, San Luis Reservoir and Pacheco Pumping Plant Outlet.

Groundwater pump-ins to the California Aqueduct totaled 2,756 AF. The breakdown of the total volume was:

- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 7 AF
- Semitropic (2&3) Water Storage District = 2,749 AF

As of August 17, 2010, no data were available for Check 29 or Devil Canyon due to malfunctioning instruments.

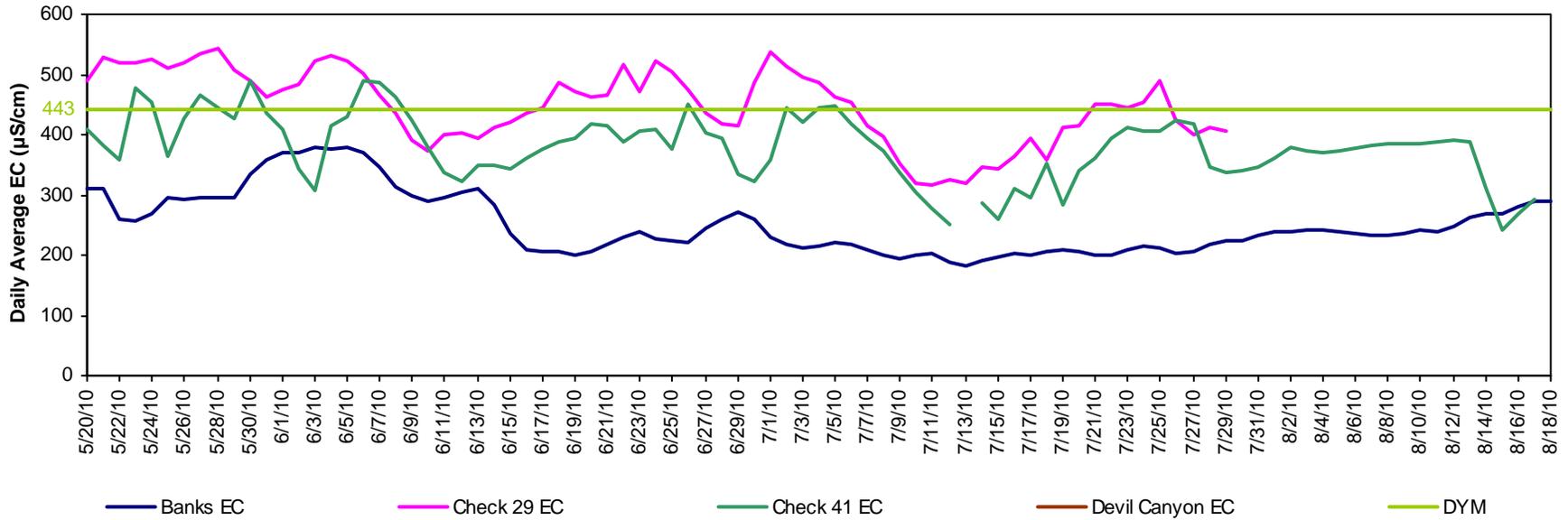
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213 or Austine Eke @ 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

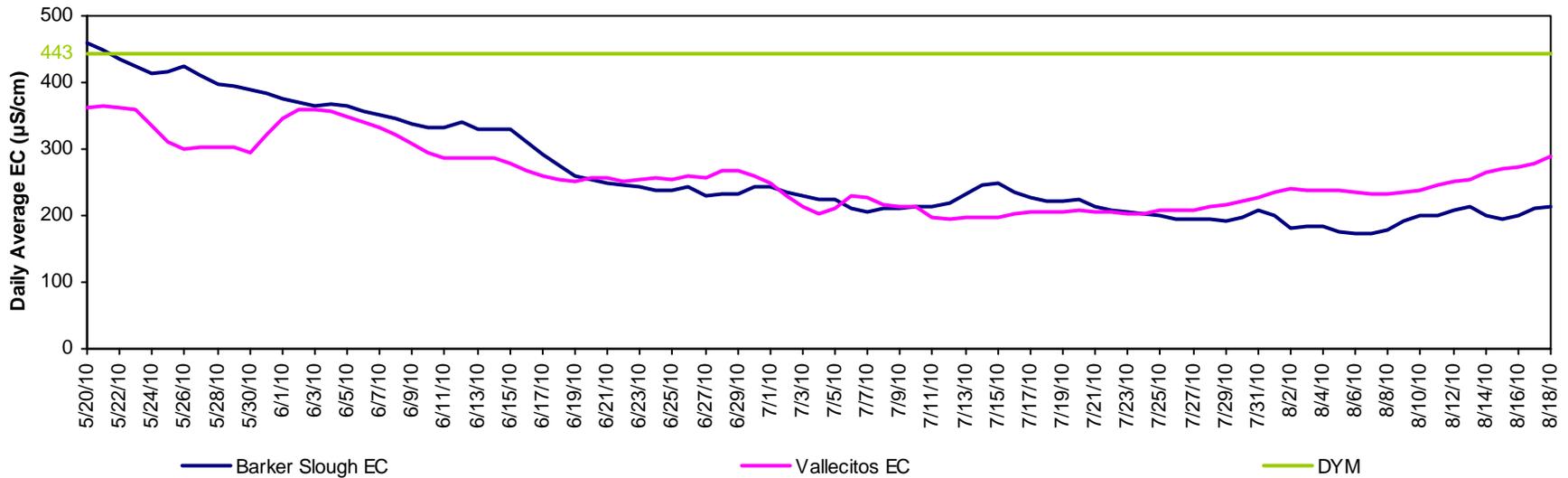
click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

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."

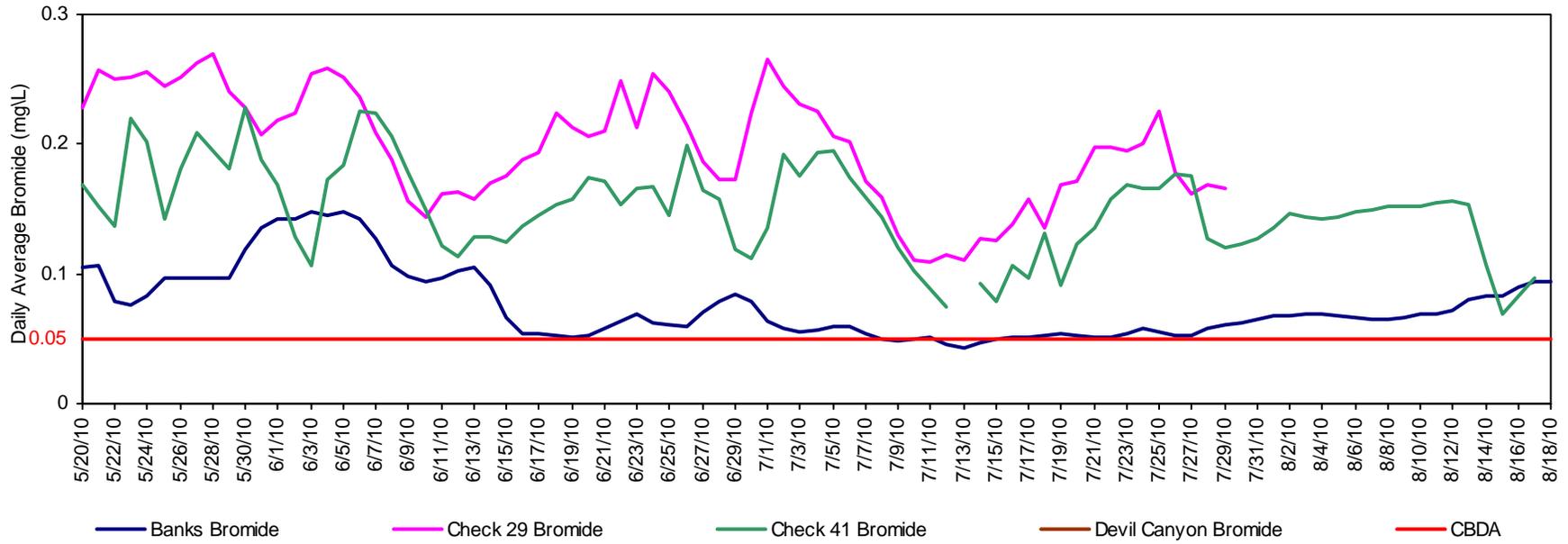
California Aqueduct - Electrical Conductivity



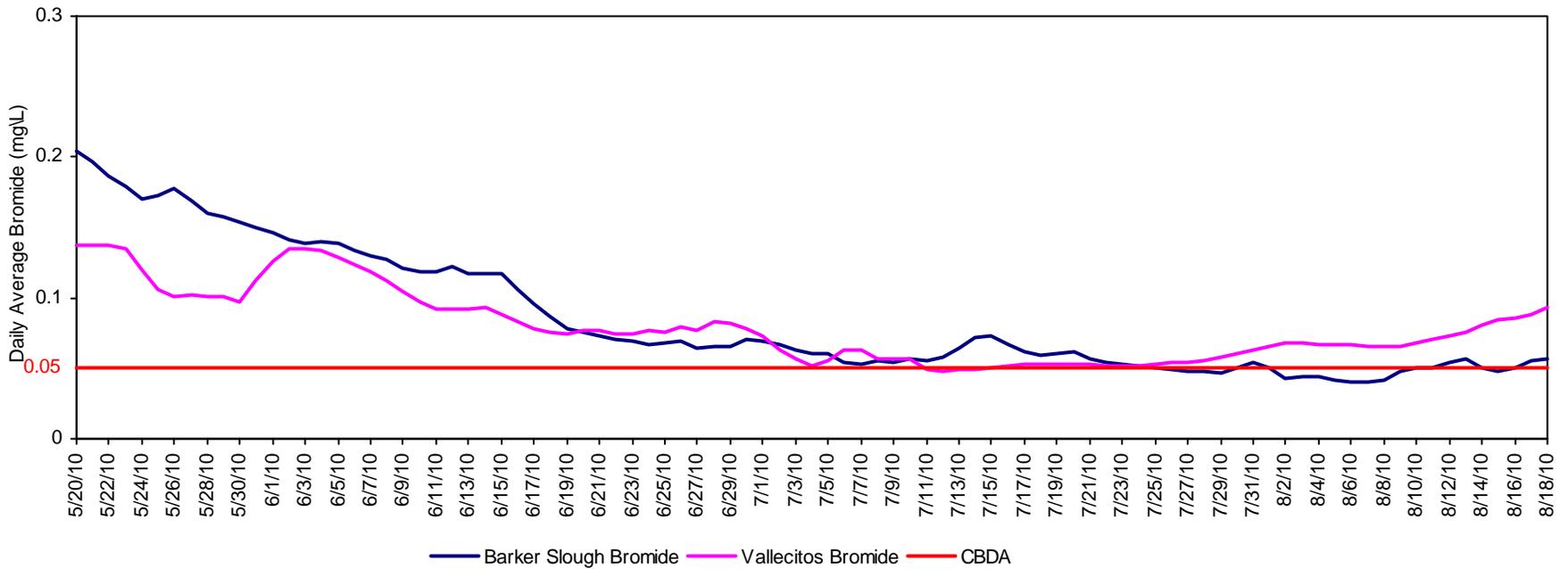
North and South Bay Aqueduct - Electrical Conductivity



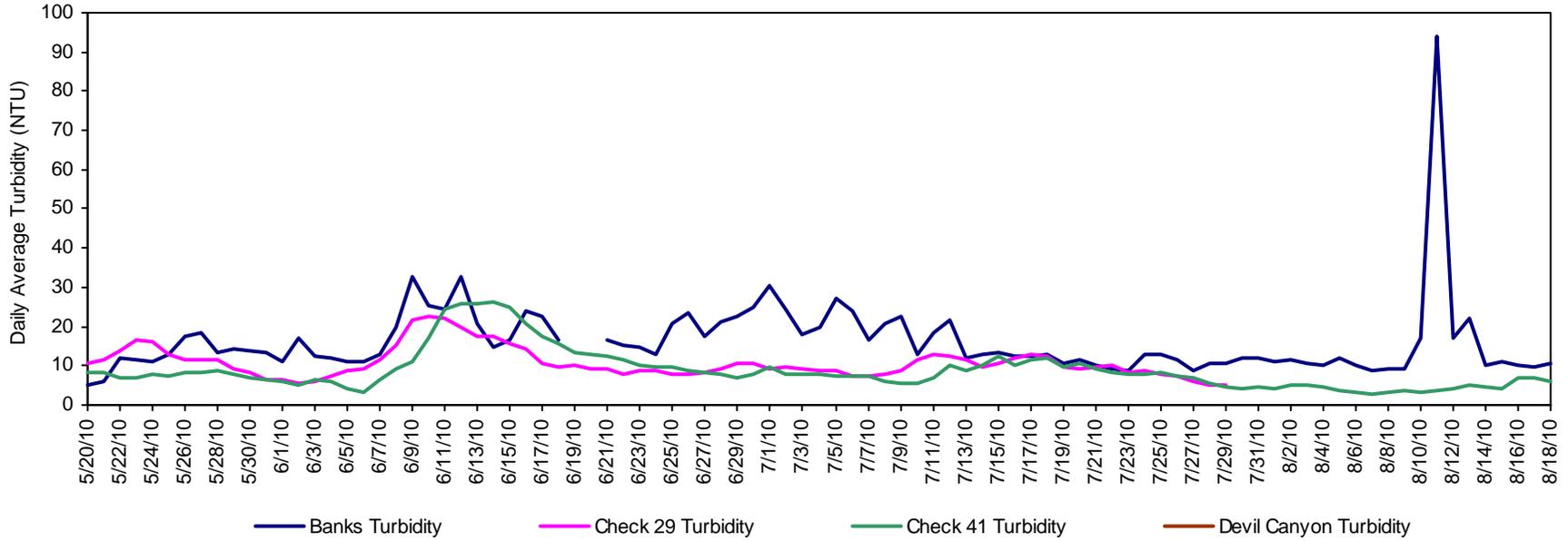
California Aqueduct - Calculated Bromide



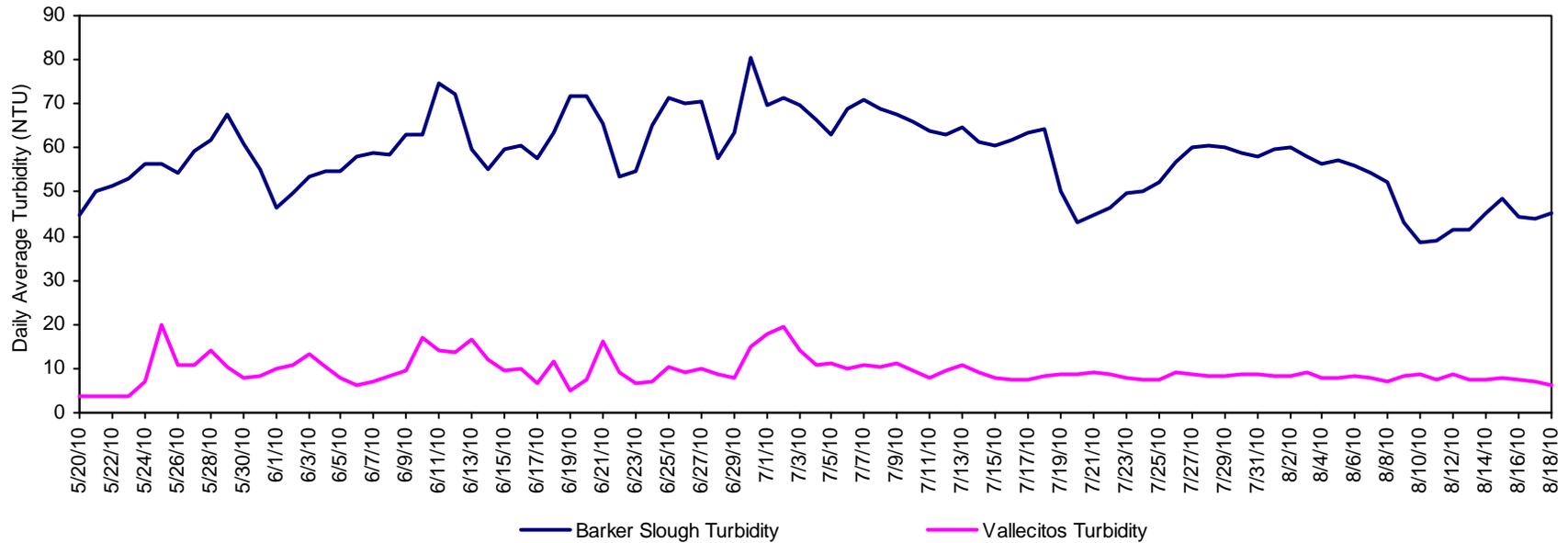
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

