

SWP Weekly Water Quality Summary

November 9 to 16, 2010

Electrical Conductivity (EC): EC concentrations decreased at Check 29 and Check 41, but increased at Harvey O. Banks Pumping Plant (HBP), Barker Slough and Vallecitos. All EC concentrations were below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). Concentrations ranged from 219 to 481 $\mu\text{S}/\text{cm}$ (131 to 289 mg/L). At the end of the week, the lowest concentration of 220 $\mu\text{S}/\text{cm}$ (132 mg/L) occurred at Barker Slough, and the highest concentration of 481 $\mu\text{S}/\text{cm}$ (289 mg/L) occurred at HBP. EC increased at HBP from 437 $\mu\text{S}/\text{cm}$ to 481 $\mu\text{S}/\text{cm}$ (262 to 289 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all the stations. Barker Slough had the lowest concentration of 0.06 mg/L, while the highest concentration of 0.22 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 29, Check 41 and Vallecitos, but increased at Barker Slough. Turbidity ranged from 2.6 NTU to 43.6 NTU. The lowest level of 2.6 NTU occurred at Vallecitos, while the highest level of 43.6 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 8.5 NTU to 7.3 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.0 mg/L to 2.2 mg/L at HBP, from 1.7 to 2.0 mg/L at Check 13, and from 2.9 to 3.1 mg/L at Edmonston Pumping Plant.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP were $\leq 6 \mu\text{g}/\text{L}$ at Clifton Court Inlet, HBP and Lake Del Valle Outlet.

Groundwater pump-ins to the California Aqueduct totaled 3,782 AF. The breakdown of the total volume was:

- Arvin-Edison Water Storage District = 1 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 111 AF
- Semitropic (2&3) Water Storage District = 3,670 AF

No data were available for Devil Canyon this week due to malfunctioning instruments.

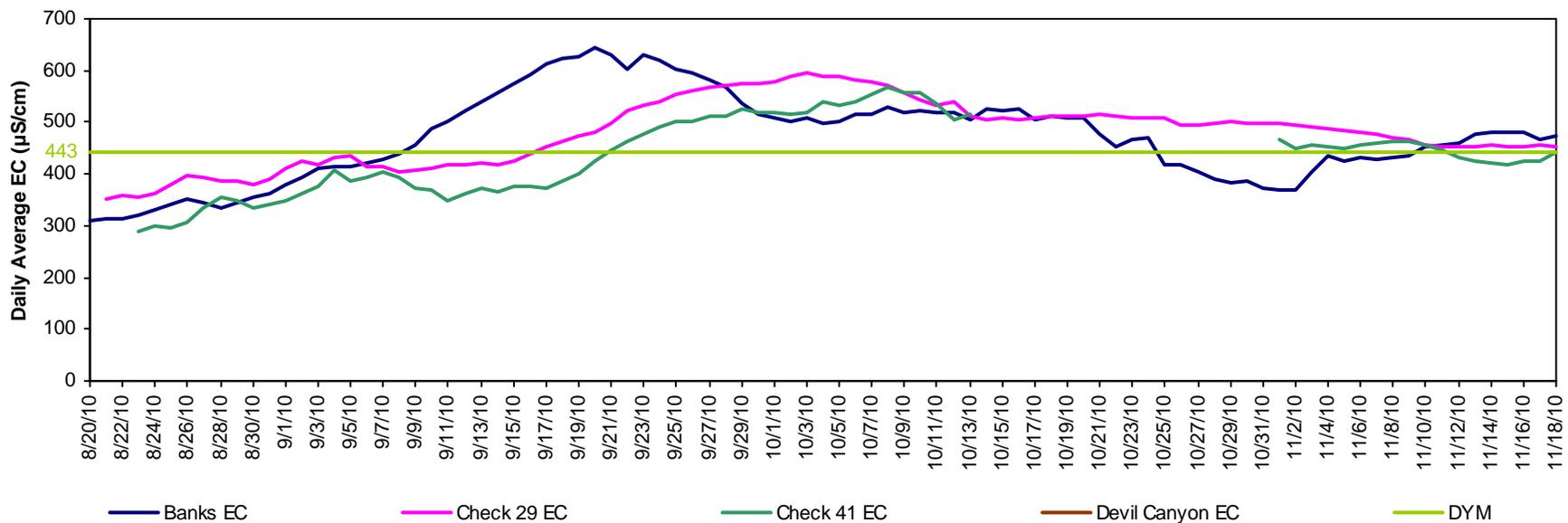
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). You can direct your comments, questions and suggestions to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and

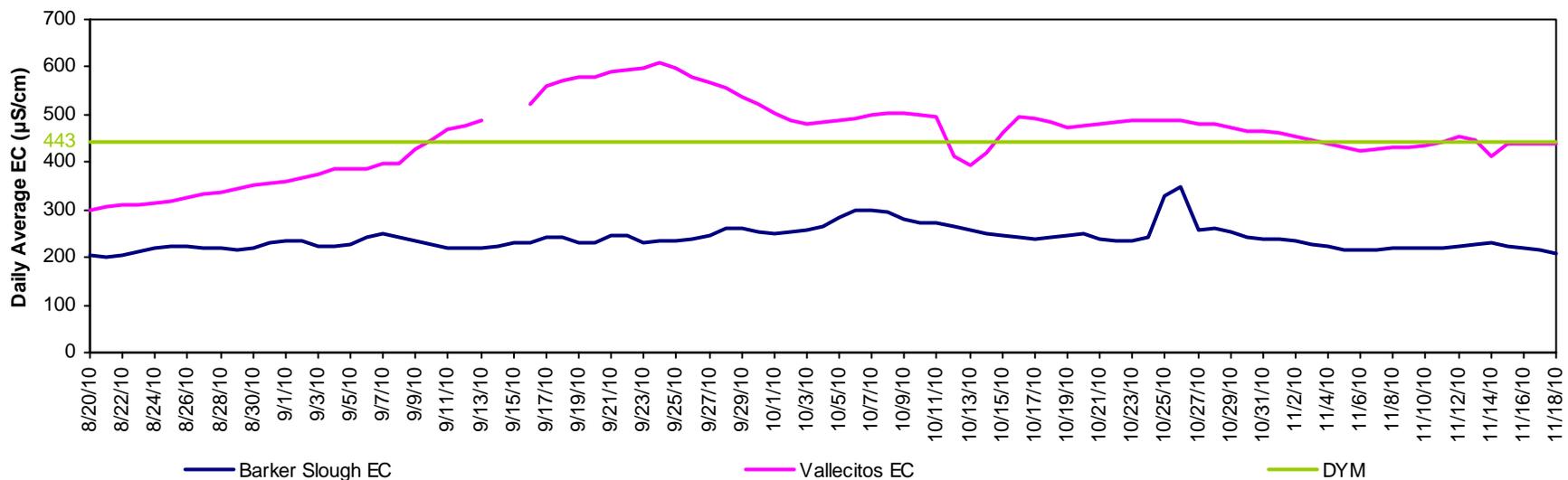
click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

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."

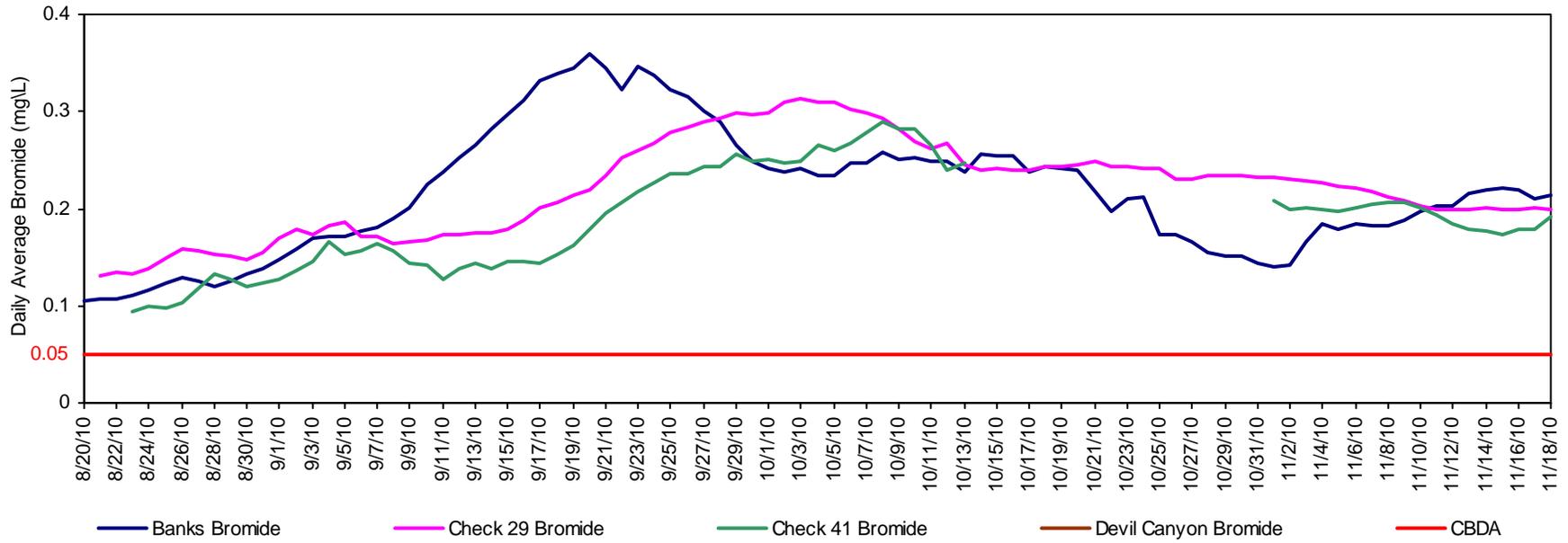
California Aqueduct - Electrical Conductivity



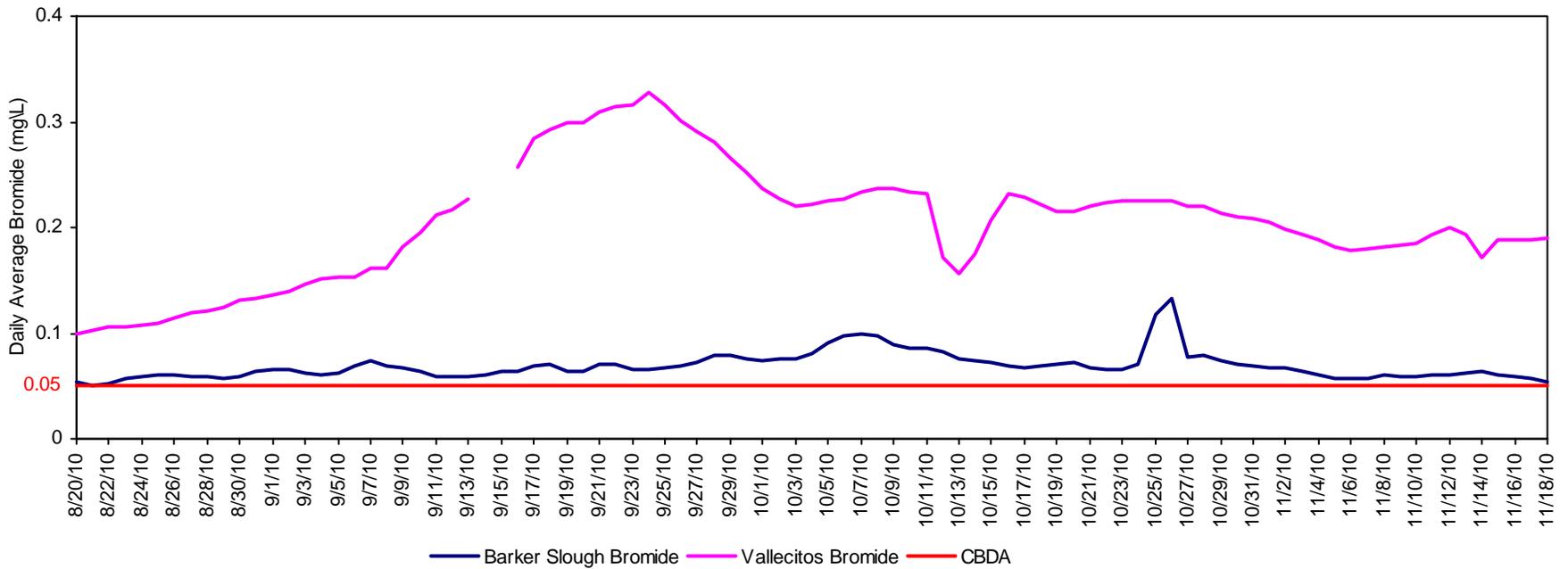
North and South Bay Aqueduct - Electrical Conductivity



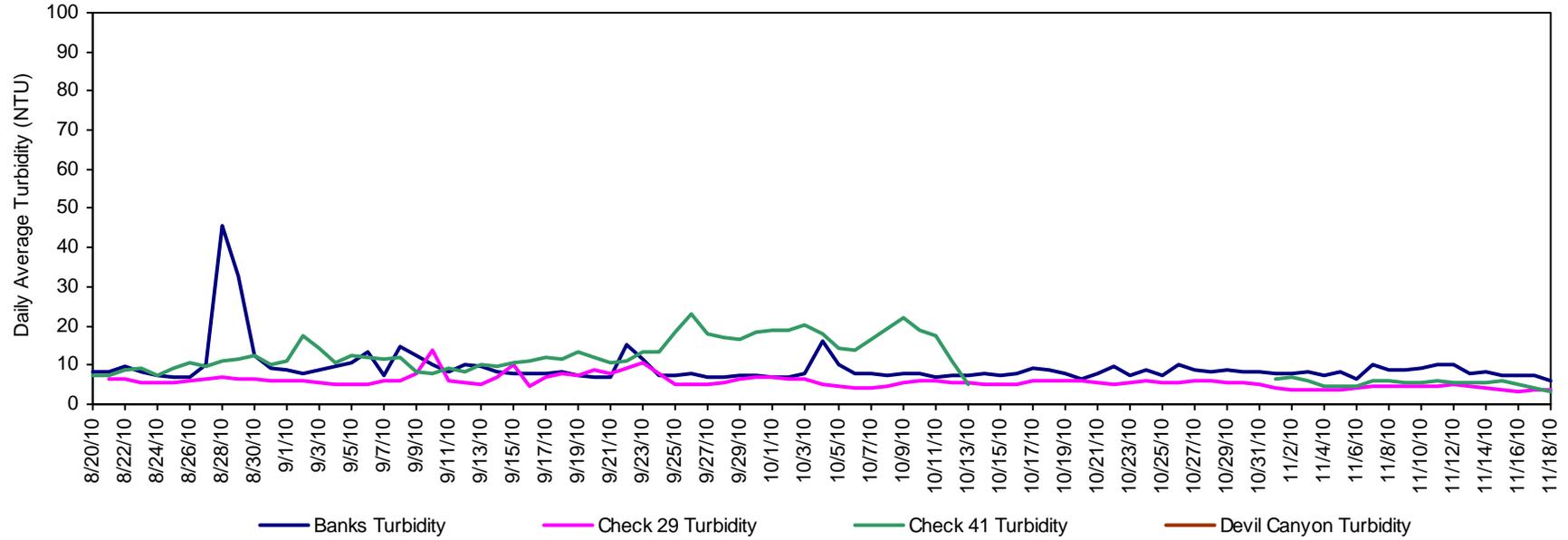
California Aqueduct - Calculated Bromide



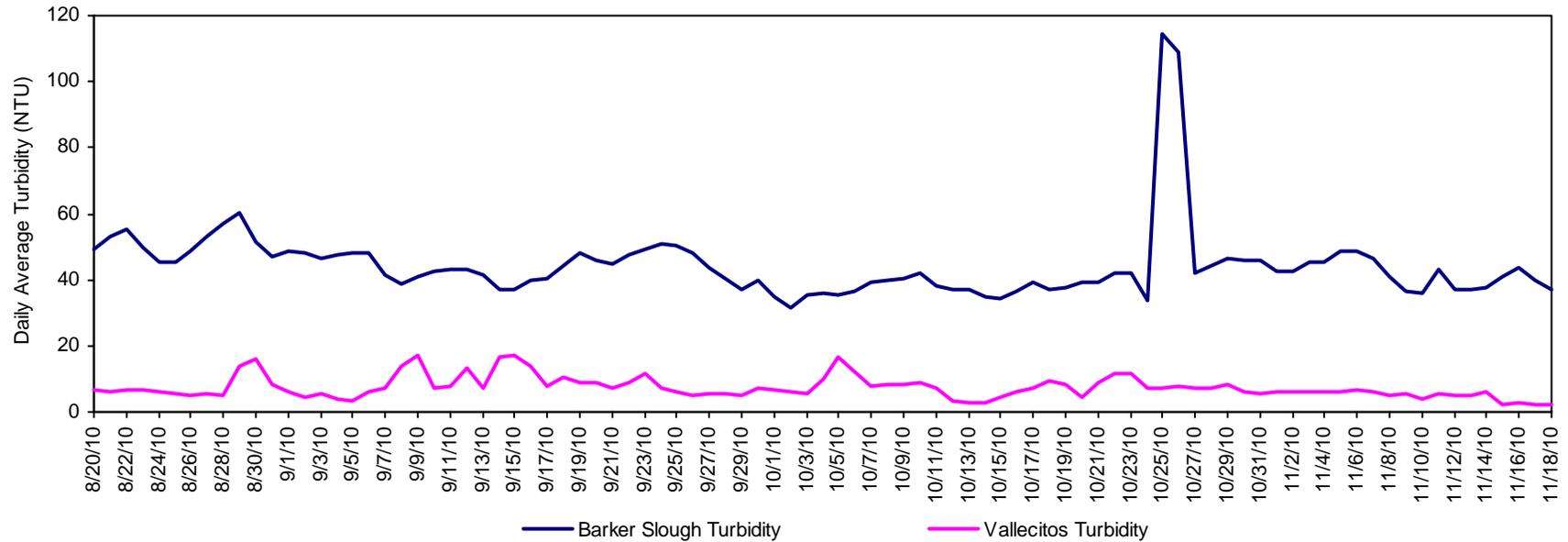
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

