

SWP Weekly Water Quality Summary

December 7 to 16, 2009

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP), Check 41 and Barker Slough, but decreased at Devil Canyon and Vallecitos from December 7 to 16, 2009. Concentrations ranged from 251 $\mu\text{S}/\text{cm}$ to 514 $\mu\text{S}/\text{cm}$ (151 mg/L to 308 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). As of December 16, the lowest concentration of 301 $\mu\text{S}/\text{cm}$ occurred at Barker Slough while the highest concentration of 514 $\mu\text{S}/\text{cm}$ occurred at HBP. EC concentrations at HBP increased from 495 $\mu\text{S}/\text{cm}$ to 514 $\mu\text{S}/\text{cm}$ as of December 16, 2009.

Bromide*: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.07 mg/L to 0.25 mg/L. As of December 16, Barker Slough had the lowest concentration of 0.10 mg/L, while the highest concentration of 0.25 mg/L occurred at HBP. Concentrations at HBP increased from 0.23 to 0.25 mg/L this week.

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

Turbidity: From December 7 to 16, turbidity levels increased at HBP, Devil Canyon and Vallecitos, but decreased at Check 41 and Barker Slough. Turbidity levels ranged from 1.1 NTU to 37.9 NTU during the week. As of December 16, 2009, the lowest level of 2.4 NTU occurred at Check 41, while the highest level of 35.2 NTU occurred at Barker Slough. As of December 16, the levels at HBP increased from 5.6 NTU to 6.4 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.2 mg/L to 2.7 mg/L at HBP and from 1.8 mg/L to 3.8 mg/L at Edmonston, but decreased from 2.5 to 2.2 mg/L at Check 13 as of December 16, 2009.

Taste and Odor Compounds: MIB concentrations were low project wide ranging from ND to 5 ng/L. Geosmin concentrations ranged from ND to 21 ng/L. The highest concentrations were:

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|---|----------|
| - California Aqueduct Pool 57 (MP 356.69) | 21 ng/L |
| - California Aqueduct Pool 59 (MP 362.60) | 21 ng/L |
| - California Aqueduct Pool 60 (MP 374.00) | 18 ng/L |
| - California Aqueduct Pool 62 (MP 384.07) | 15 ng/L |
| - California Aqueduct Pool 64 (MP 395.11) | 18 ng/L |
| - California Aqueduct Pool 66 (MP 403.41) | 16 ng/L. |

Ground water pump-ins to the California Aqueduct from December 7 to 16, 2009 totaled 12,218 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 812 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 5,323 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 3,083 AF
- Semitropic (2&3) Water Storage District = 3,000 AF.

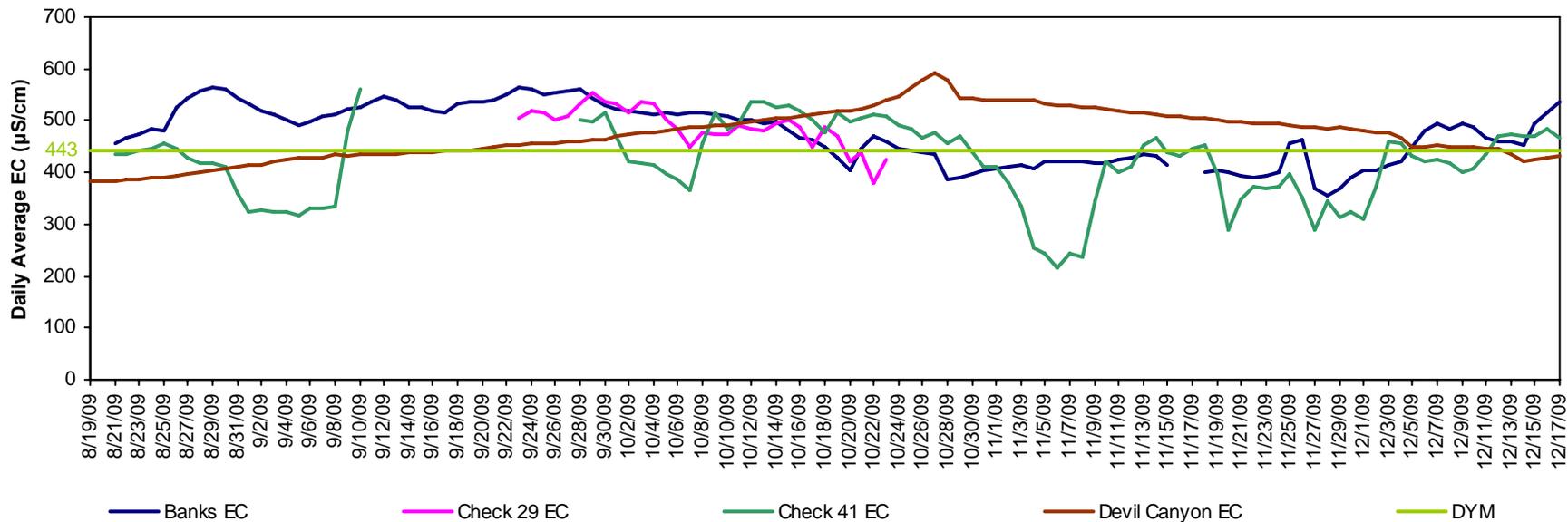
- Wheeler Ridge Maricopa Water Storage District = 0 AF.

As of October 21, 2009, no data were available for Del Valle Check 7 and Pacheco Pumping Plant due to maintenance driven station shut downs, and for Check 29 due to a malfunctioning turbidity instrument and the water quality station upgrades currently underway.

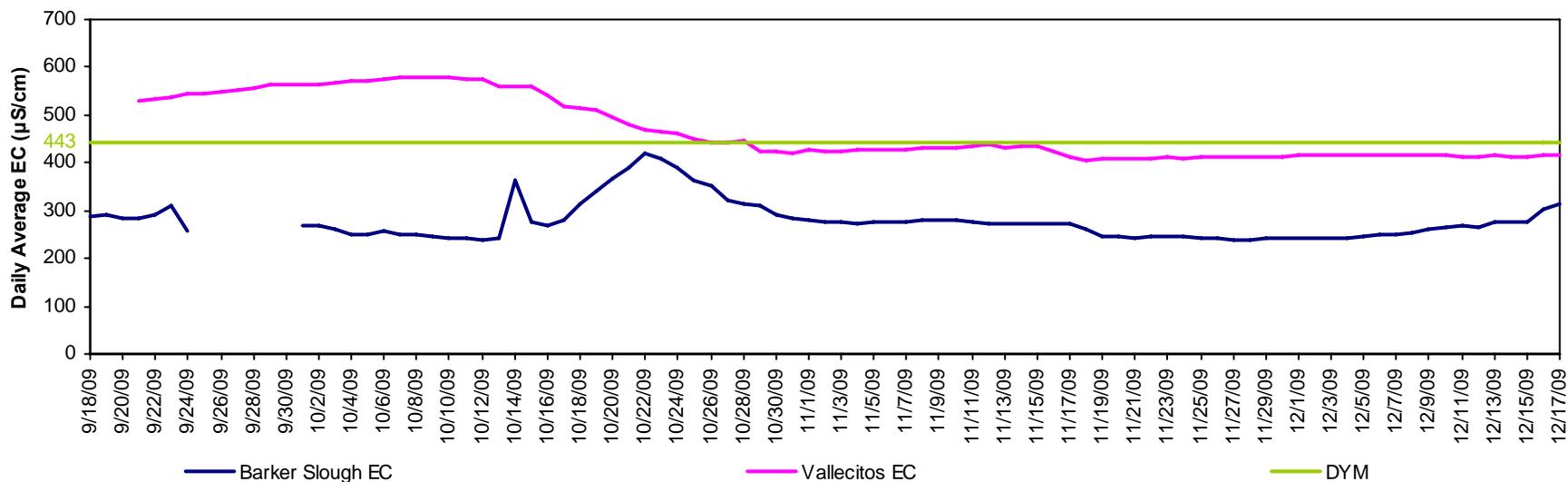
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke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

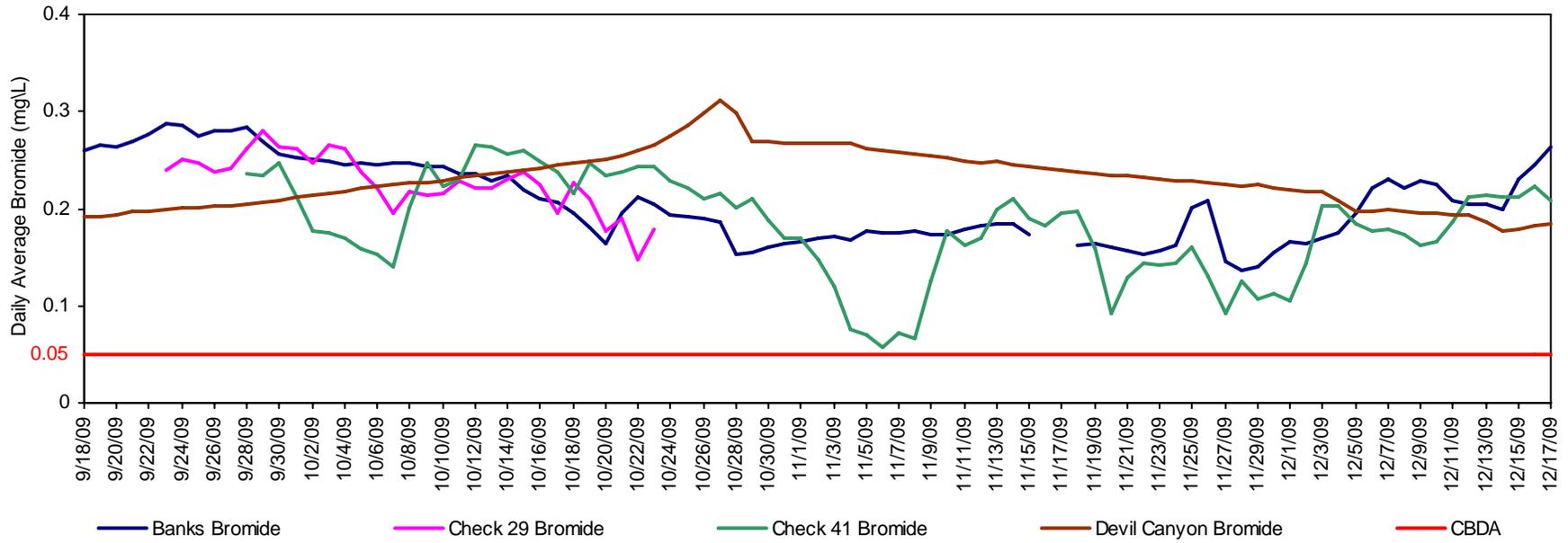
California Aqueduct - Electrical Conductivity



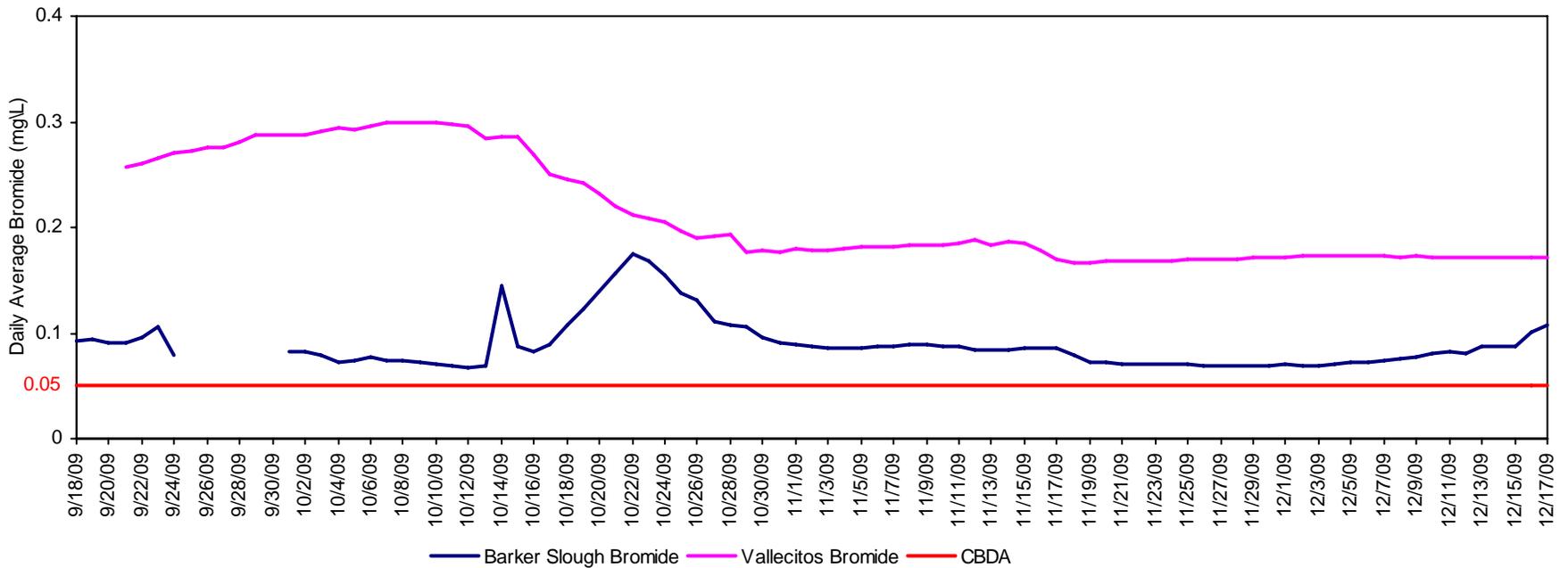
North and South Bay Aqueduct - Electrical Conductivity



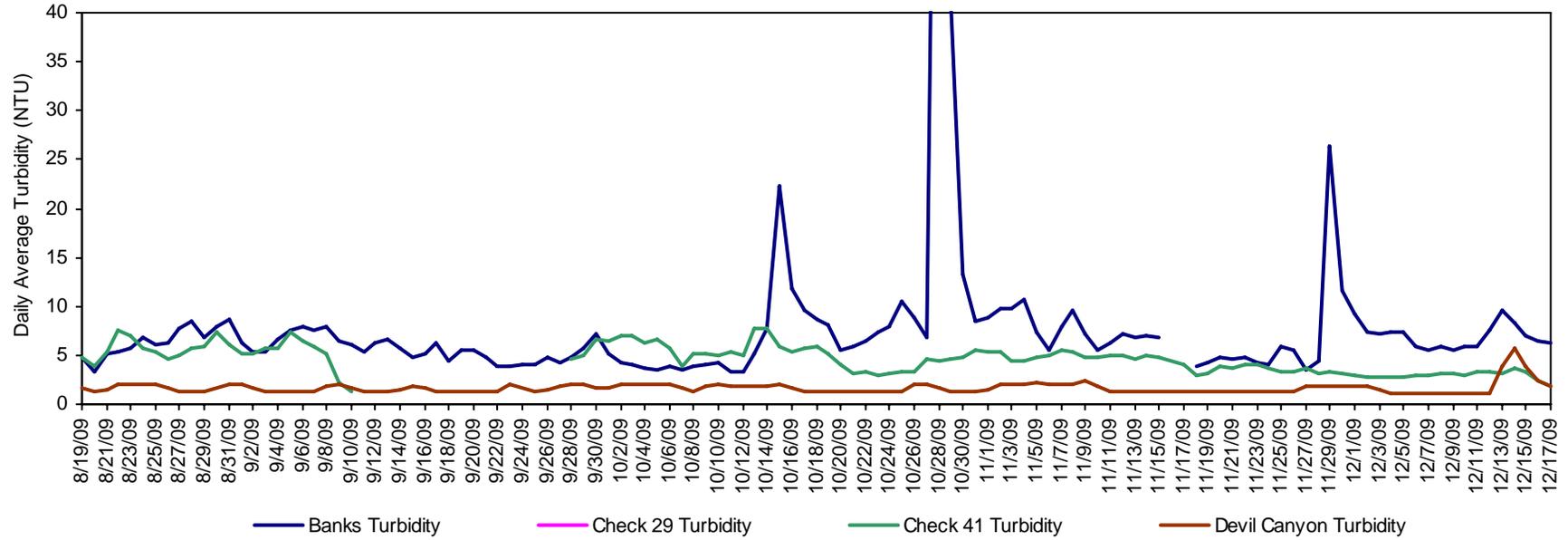
California Aqueduct - Calculated Bromide



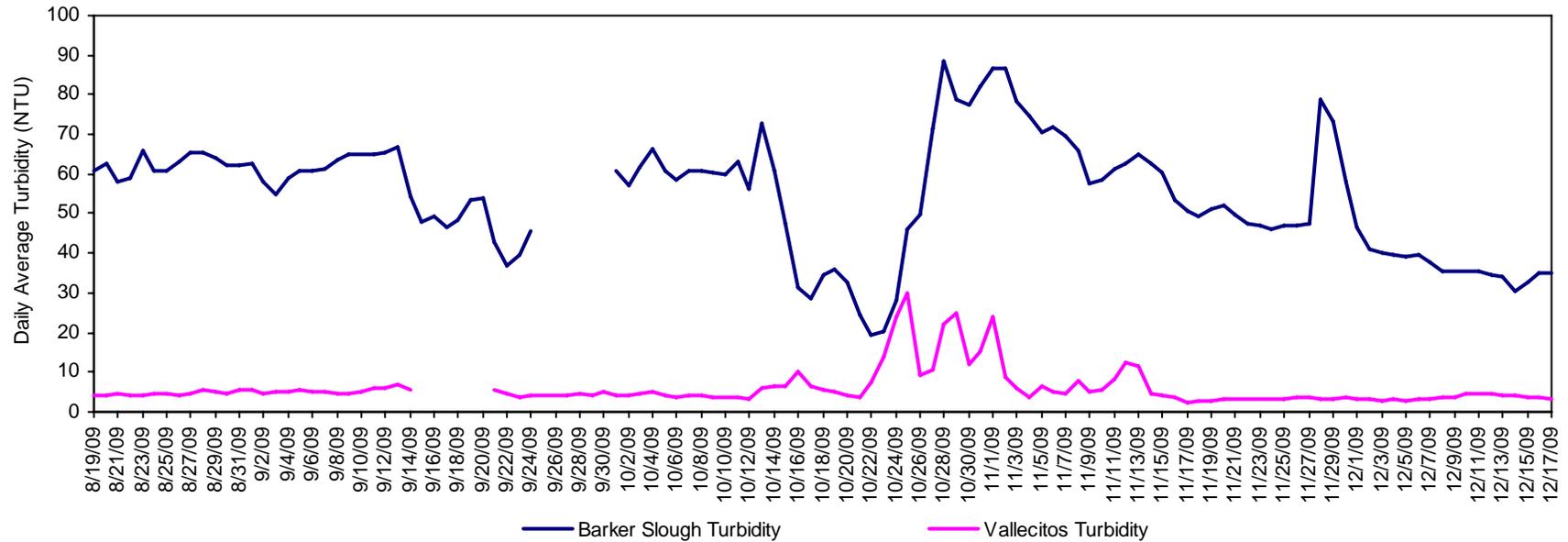
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

