



DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance
3310 El Camino Avenue, Suite 300
Sacramento, California 95821



BUREAU OF RECLAMATION
Central Valley Operations Office
3310 El Camino Avenue, Suite 300
Sacramento, California 95821

SEP 14 2018

Eileen Sobeck
Executive Director
State Water Resources Control Board
1001 I Street
Sacramento, California 95814

Subject: Report of Exceedance of South Delta Water Quality Agricultural Objective at San Joaquin River at Brandt Bridge

Dear Ms. Sobeck:

Pursuant to Condition A.10 of the State Water Resources Control Board's (SWRCB) Order 2010-0002 (Order) to the Department of Water Resources (DWR) and the United States Bureau of Reclamation (Reclamation), DWR and Reclamation notify SWRCB of the exceedance of the 30-day average Electrical Conductivity (EC) at the San Joaquin River at Brandt Bridge compliance location (Station C-6). On August 15, 2018, the EC at Station C-6 was 0.8 millisiemens per centimeter (mS/cm), which exceeds SWRCB's Water Rights Decision 1641 (D-1641) objective of 0.7 mS/cm. The attached table (Attachment 1) shows daily and 30-day average EC values leading up to the date of exceedance, which is determined by rounding the 30-day average values to the nearest one-tenth EC value.

On that exceedance date, the 30-day average EC values at Old River near Middle River (Station C-8), Old River at Tracy Road Bridge (Station P-12), and Vernalis (Station C-10) were 0.6 mS/cm, 0.9 mS/cm, and 0.5 mS/cm respectively. Figure 1 is a map of the four south Delta compliance locations, as well as the export locations, and the corresponding 30-day average EC values on the date of the exceedance at Station C-6.

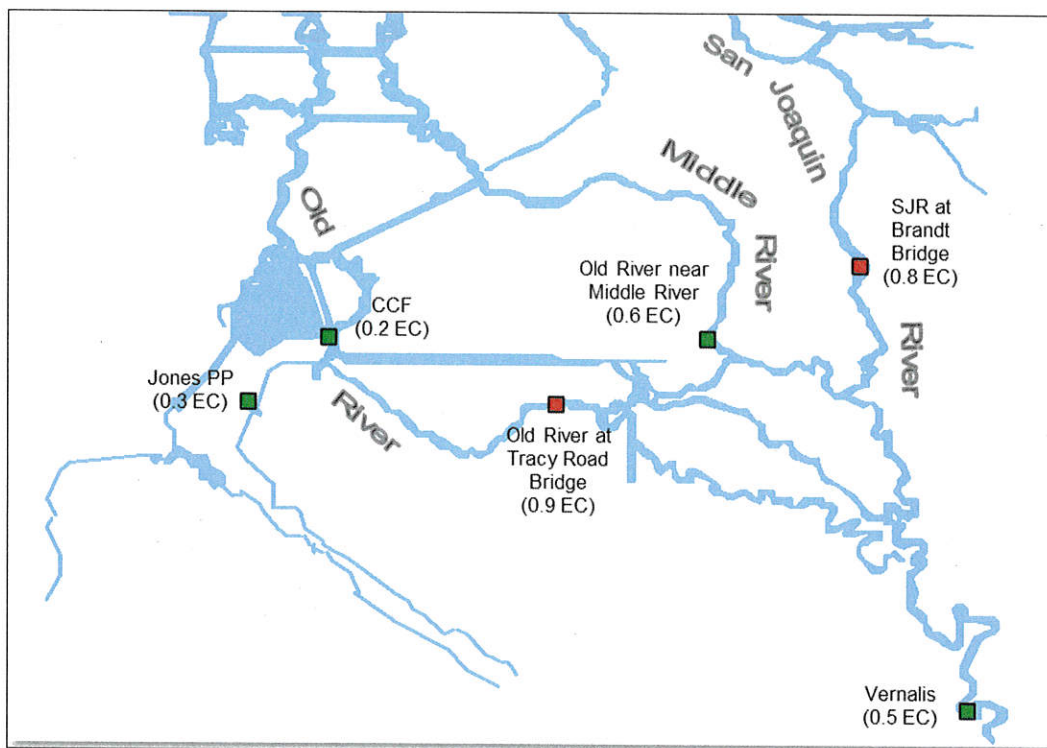


Figure 1: Map of South Delta Compliance Locations and 30-day Average EC on August 15, 2018

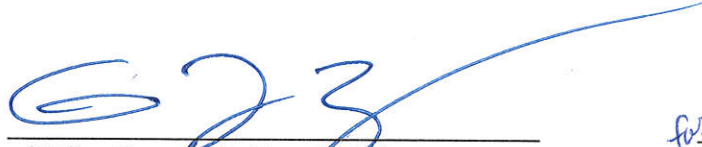
DWR and Reclamation consider the primary cause of this exceedance to be localized degradation. This local degradation appears to have originated just south of Stockton and moved upstream to Brandt Bridge with the spring tide that peaked out on or around August 11, 2018. With the exception of Old River at Tracy Road Bridge, which is another compliance location highly susceptible to localized degradation, the other south Delta compliance locations have maintained considerably better water quality.

DWR and Reclamation will continue to undertake all practicable measures to assist in improving water quality in the south Delta, primarily the coordination with South Delta Water Agency regarding the intermittent alteration of the operation of the culvert flap gates at the Old River near Tracy barrier from time to time to balance water levels with water quality. As of the date of this letter, the status of the south Delta barriers is as follows:

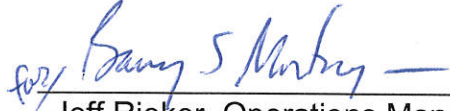
- Middle River - barrier closed March 14; barrier raised 1 foot on August 17; all six culvert flap gates tidally operating since June 13
- Old River near Tracy - barrier closed April 2, all nine culvert flap gates tidally operating since June 13. (Note: In early July, inspections identified the flap gates were not seating properly. This was quickly fixed, and the flap gates are all working as designed.)
- Grant Line Canal barrier - barrier closed June 4, all six culvert flap gates tidally operating since June 21.
- Spring Head of Old River – barrier was not installed this year due to high San Joaquin River flows.

If you have any questions regarding this notification, please contact Ms. Molly White of DWR at (916) 574-2722 or Ms. Elizabeth Kiteck of Reclamation at (916) 979-2684.

Sincerely,



Attilio Zasso, Acting Chief
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Department of Water Resources



Jeff Rieker, Operations Manager
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Attachment

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Attachment 1 South Delta Water Quality Conditions*

Date	SJR at Vernalis		SJR at Brandt Bridge		Old River at Tracy Road Bridge		Old River near Middle River	
	Mean Daily (mS/cm)	30-day Avg (mS/cm)	Mean Daily (mS/cm)	30-day Avg (mS/cm)	Mean Daily (mS/cm)	30-day Avg (mS/cm)	Mean Daily (mS/cm)	30-day Avg (mS/cm)
7/15/2018	0.5	0.5	0.6	0.5	1.0	0.7	0.6	0.5
7/16/2018	0.4	0.5	0.6	0.5	1.0	0.7	0.6	0.5
7/17/2018	0.5	0.5	0.6	0.5	1.0	0.7	0.6	0.5
7/18/2018	0.5	0.5	0.6	0.5	0.9	0.7	0.6	0.5
7/19/2018	0.5	0.5	0.7	0.5	0.8	0.7	0.6	0.5
7/20/2018	0.5	0.5	0.7	0.5	0.9	0.8	0.6	0.5
7/21/2018	0.4	0.5	0.7	0.6	0.9	0.8	0.6	0.5
7/22/2018	0.4	0.5	0.7	0.6	0.9	0.8	0.6	0.5
7/23/2018	0.4	0.5	0.7	0.6	0.9	0.8	0.6	0.5
7/24/2018	0.4	0.5	0.7	0.6	0.9	0.8	0.6	0.5
7/25/2018	0.5	0.5	0.7	0.6	0.8	0.7	0.6	0.6
7/26/2018	0.4	0.5	0.7	0.6	0.8	0.8	0.6	0.6
7/27/2018	0.5	0.5	0.7	0.6	0.9	0.8	0.6	0.6
7/28/2018	0.5	0.5	0.7	0.6	0.9	0.8	0.6	0.6
7/29/2018	0.4	0.5	0.7	0.6	0.9	0.8	0.6	0.6
7/30/2018	0.4	0.5	0.7	0.6	1.0	0.8	0.6	0.6
7/31/2018	0.4	0.5	0.7	0.6	1.0	0.8	0.6	0.6
8/1/2018	0.4	0.5	0.7	0.6	0.9	0.9	0.6	0.6
8/2/2018	0.4	0.5	0.7	0.7	0.9	0.9	0.5	0.6
8/3/2018	0.5	0.5	0.7	0.7	0.9	0.9	0.5	0.6
8/4/2018	0.5	0.5	0.7	0.7	0.9	0.9	0.5	0.6
8/5/2018	0.5	0.5	0.6	0.7	0.9	0.9	0.6	0.6
8/6/2018	0.4	0.5	0.6	0.7	0.8	0.9	0.6	0.6
8/7/2018	0.4	0.5	0.7	0.7	0.8	0.9	0.6	0.6
8/8/2018	0.5	0.5	0.8	0.7	0.9	0.9	0.6	0.6
8/9/2018	0.4	0.5	0.9	0.7	0.8	0.9	0.6	0.6
8/10/2018	0.5	0.5	1.0	0.7	0.8	0.9	0.7	0.6
8/11/2018	0.5	0.5	1.0	0.7	0.9	0.9	0.7	0.6
8/12/2018	0.5	0.5	1.0	0.7	0.9	0.9	0.8	0.6
8/13/2018	0.5	0.5	0.9	0.7	0.9	0.9	0.8	0.6
8/14/2018	0.4	0.5	0.9	0.7	0.9	0.9	0.7	0.6
8/15/2018	0.4	0.5	0.8	0.8	0.9	0.9	0.6	0.6

*Salinity reported as electrical conductivity in milliSiemens per centimeters (mS/cm).