

**Subject: WQ & WL forecast for June 25-July 15**

Date: 6/26/2018 4:27:26 PM Pacific Standard Time

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The Department of Water Resources and the U.S. Bureau of Reclamation are planning to conduct water transfers beginning on July 3, and continuing through September. The average daily rate of planned transfer during July is currently anticipated to be as high as 1,320 cfs.

The attached files contain forecasted water quality at Holland Tract, Old River near Middle River, San Joaquin River at Brandt Bridge, and Old River at Tracy Road as well as forecasted water levels at the following south Delta locations--Old River west of Union Island near Coney Island, Middle River at Howard Road, Old River at Tracy Road, Doughty Cut, and the head of Grant Line Canal for both the "with" and "without-transfer" cases.

The attached model results cover the period of June 25-July 15, and are based on the following assumptions:

1. CCFB Gates are operating to Priority 3 throughout the forecast period.
2. The Delta Cross Channel gates are open throughout the forecast period.
3. Suisun Marsh salinity control flashboards are out, and the three Suisun Marsh Salinity Control Gates are in open position throughout the forecast period.
4. The Middle River ag. Barrier is installed with all 6-culvert flap-gates tidal operation.
5. The Old River at Tracy ag. barrier is installed with all 9 flap-gates tidal operation.
6. The Grant Line Canal ag. barrier is fully closed with all 6-culvert flap-gates in tidal operation.
7. San Joaquin River flow at Vernalis is at 1,150cfs at the beginning of the forecast period and is estimated to decrease to 900 cfs by the end of the forecast period.

The model results show insignificant differences in forecasted water levels between the with-transfer and the without-transfer cases at compliance stations. While we are conducting transfers we will monitor water levels at the five south Delta stations listed above. If we are not meeting the requirements of the WLRP, the Projects would not initiate or would cease transfers until water levels improved.

The model results show minor degradation in forecasted water quality in the with-transfer as compare to the without-transfer cases at some of south Delta stations listed above. The 30-day average electrical conductivity (EC) objective for the interior south Delta stations is 0.7 mmhos/cm April through August. South Delta EC is highest at the Old River at Tracy station; the current mean daily and 30-day average EC values are 0.59 mmhos/cm and 0.43 mmhos/cm, respectively.

Please contact me if you have any questions or concerns regarding this email/notice.

Sincerely,

Reza Shahcheraghi

***Reza Shahcheraghi***

***Department of Water Resources***

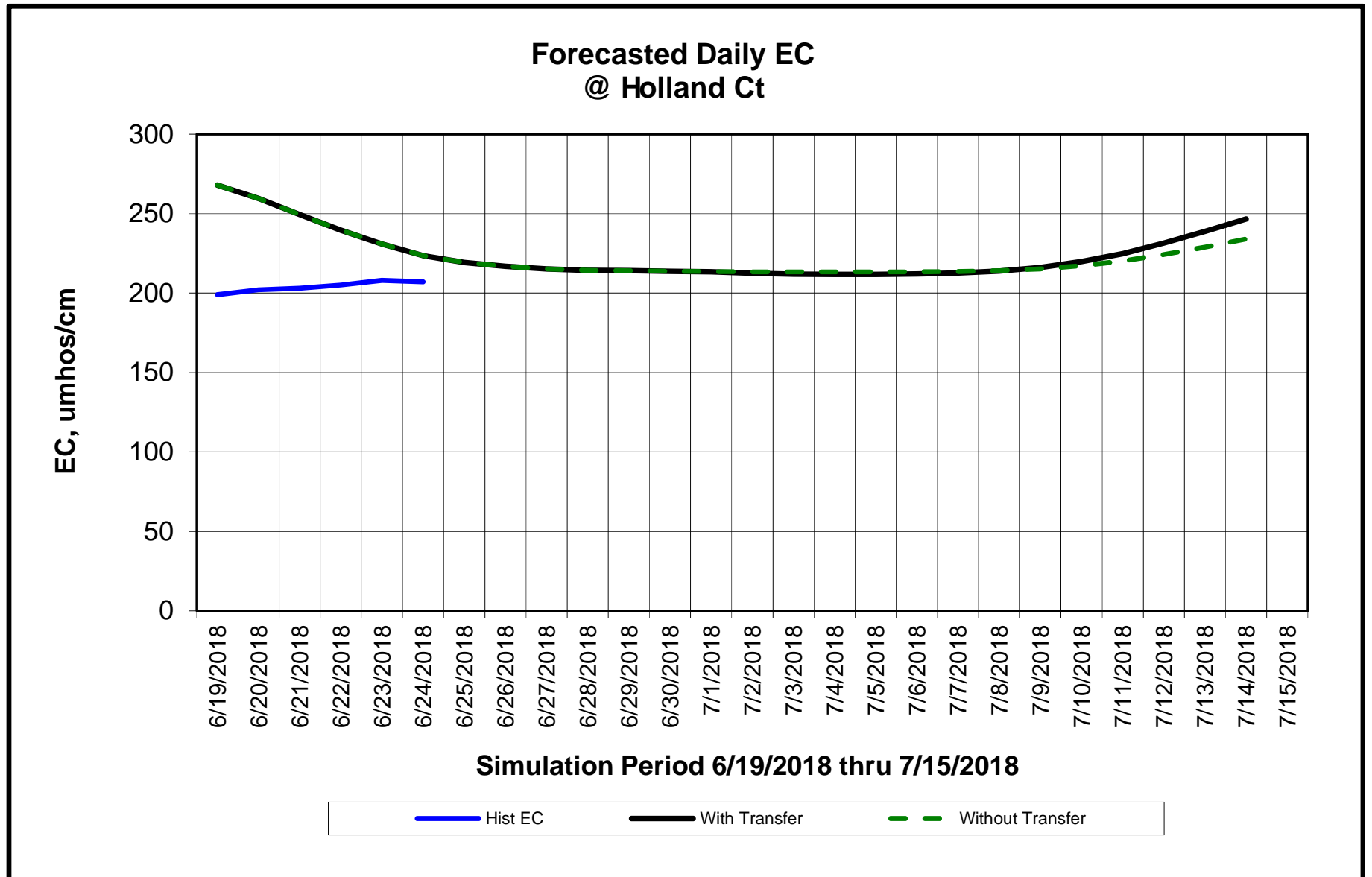
***Division of Operation & Maintenance***

***Delta Compliance & Modeling Section***

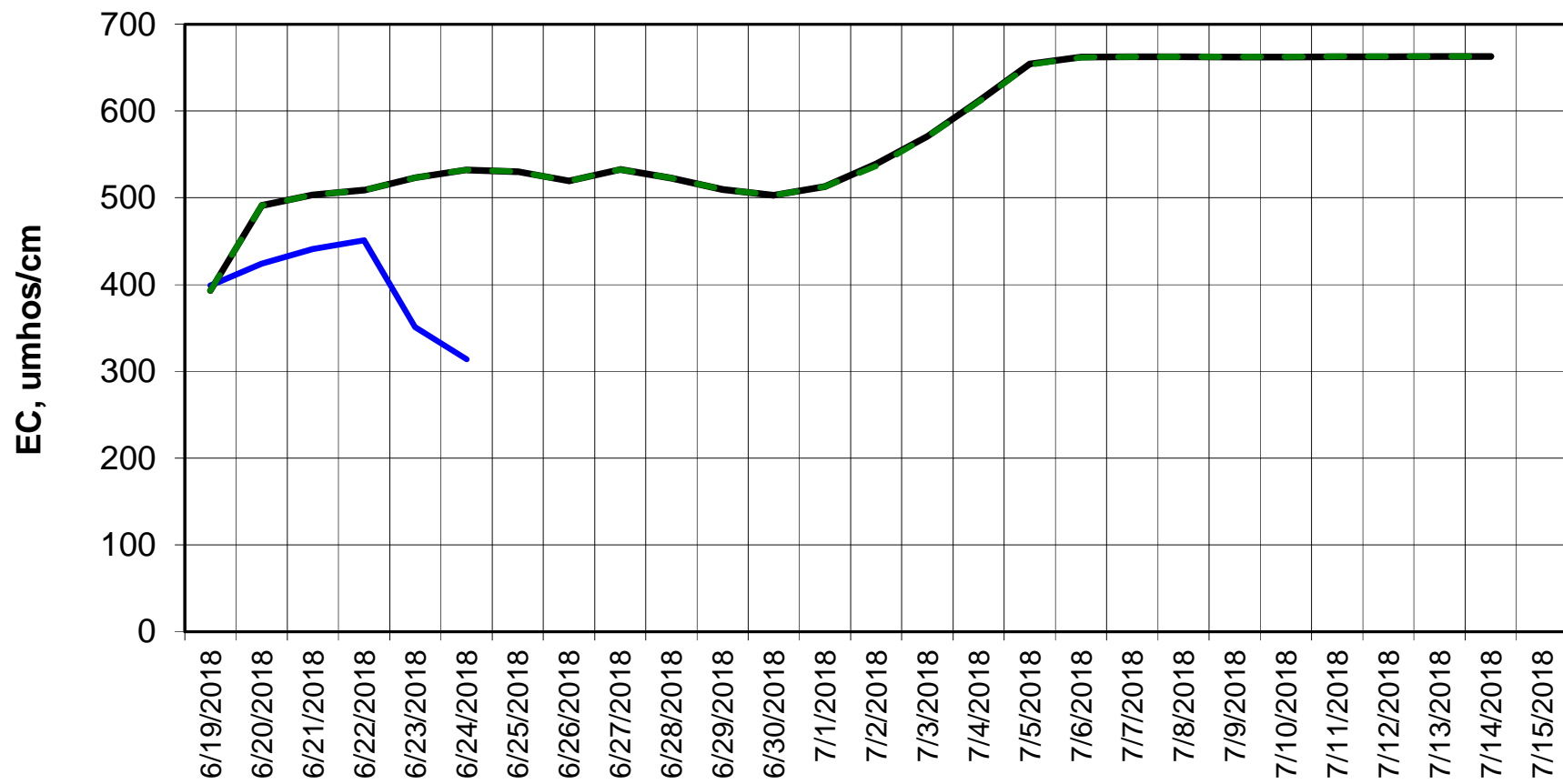
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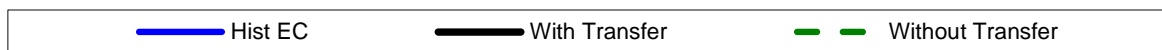
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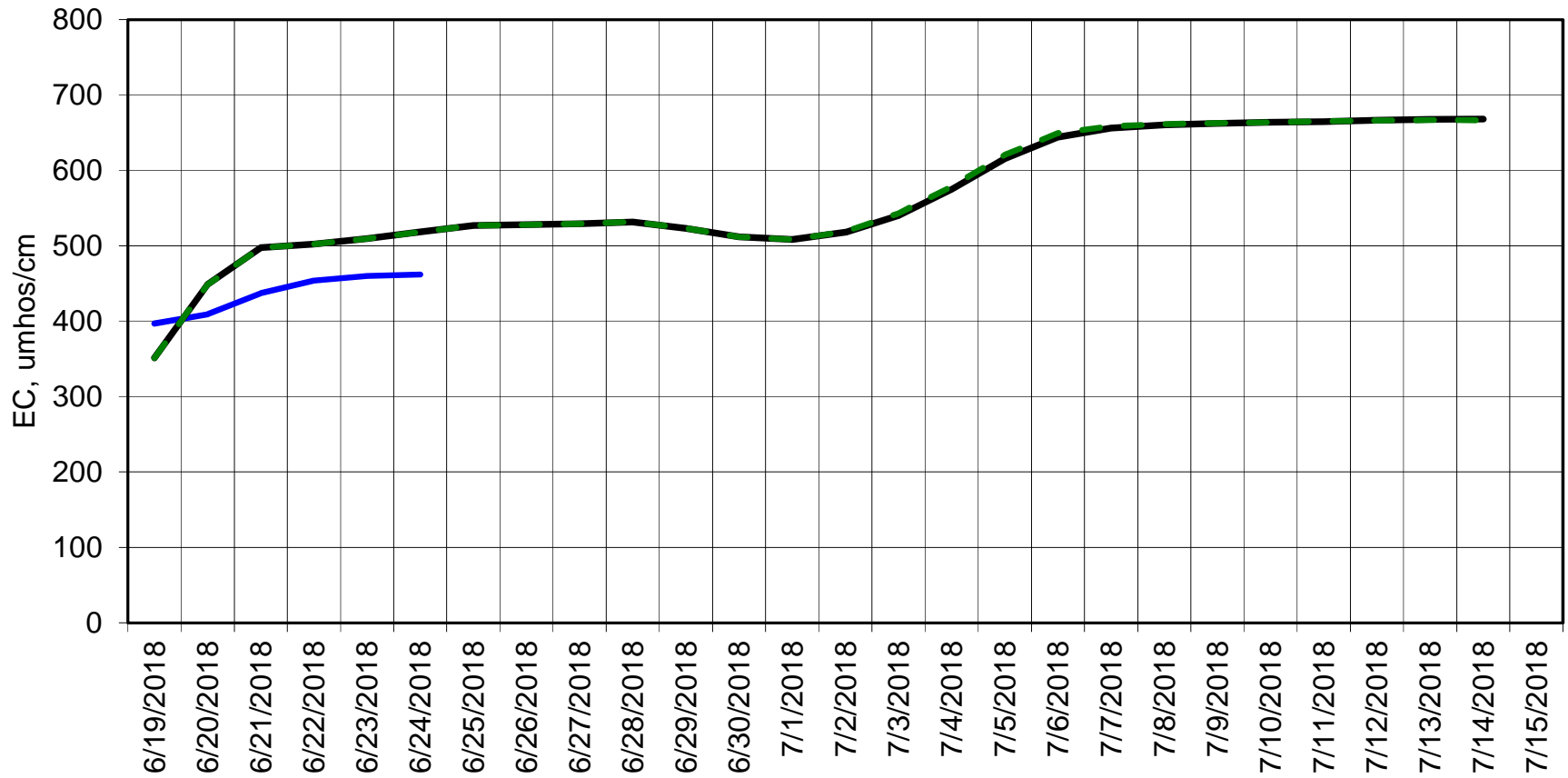
### Forecasted Daily EC @ Old River near Middle River



Simulation Period 6/19/2018 thru 7/15/2018



### Forecasted Daily EC @ San Joaquin River at Brandt Bridge



Simulation Period 6/19/2018 thru 7/15/2018



### Forecasted Daily EC @ Old River at Tracy Road

