

San Joaquin River Restoration Interim Flow Release Program
2013 Annual Technical Report
Surface Water Quality January 2013 – December 2013
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Through October 2013, Reclamation continued to collect water samples from seven sites along the river, as well as within the Mendota Wildlife Management Area. A total of 752 samples were collected between January and July 2013 to measure TSS, nutrients, TOC/DOC, bacteria (*E. coli*, fecal coliform, total coliform), cations, anions, and trace metals. Special samples were collected in April to measure carbamates, pyrethroids, organophosphate, and organochlorine pesticides. Roughly 2635 analyses have been made of 133 constituents. Sediment samples were collected in May of 2013 at five sites in Reaches 1, 2 and 3. A majority of the water quality and sediment samples were collected in Reaches 1, 2 and 3 due to the lack of water below Sack Dam. Sampling ended in October of 2013.

Project data indicate that there are few contaminants of concern in Reaches 1 and 2, between Friant Dam and the Mendota Pool. Despite the adjacent urban areas no pesticides were detected in all water samples. Several trace elements (e.g. nickel and selenium) have been measured in the water below Mendota Dam because of the inflow of water from the Delta-Mendota Canal and other tributaries. Many known sources of contamination in the San Joaquin River below Mendota Dam are monitored by Reclamation and the Central Valley Regional Water Quality Control Board.

This report includes summary figures that illustrate real-time measurements of flow, temperature, and salinity, as well as results from the monthly grab samples. Figures 7j and 7k include additional data collected at Fremont Ford under the Grasslands Bypass Project. All data including sediment and pesticide data are available from Reclamation upon request.

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