

Implementation Program

The program of implementation to meet the proposed EC WQO primarily includes the following, already initiated, actions within the San Joaquin River:⁶

- ~~• Full Implementation of the Real Time Management Program (RTMP) – RTMP facilitates the control and timing of wetland, agricultural drainage, and/or other discharges to the LSJR to coincide with periods when the LSJR has capacity to assimilate additional salt up to the EC WQO. It is anticipated that the RTMP will be fully implemented by 2020.~~
- Full Implementation of the Grassland Bypass Project – The Grassland Bypass Project prevents discharge of subsurface agricultural drainage water into wildlife refuges and wetlands in central California. The Grassland Bypass Project is scheduled for completion at the end of 2019.

Comment [JB1]: The RTMP is not part of the implementation program as modeled by WARMF. Therefore, this bullet item should be removed.

MONITORING PROGRAM GOALS

The primary goals of the LSJR Monitoring Program are to evaluate:

- 1) Compliance with the salinity WQOs and Performance Goal in Reach 83 of the LSJR⁷; and
- 2) The effectiveness of the implementation program.⁸

Based on the information developed in Task 4, these LSJR Monitoring Program goals were expanded into the following, more specific, assessment goals:

- Assess compliance with the EC and boron WQOs in Reach 83 of the LSJR⁹ (primary goal No. 1);
- Characterize long-term changes/trends in the ambient EC and boron concentrations within Reach 83 of the LSJR (primary goals No. 1 and No. 2);
- Assess the effectiveness of the implementation program management actions in controlling salt and boron in Reach 83 (primary goal No. 2); and
- Use the LSJR Monitoring Program results to identify potential revisions to the WQOs, Performance Goal, and/or implementation program (primary goals No. 1 and No. 2).

These assessment goals may be modified in the future based on additional information and/or the adaptive management of the implementation program.

EXISTING MONITORING PROGRAMS

Existing monitoring efforts in the LSJR are significant and include continuous (typically 15 minute interval) sensors and sample collection at numerous locations within Reach 83 and immediately upstream in the San Joaquin River, Stanislaus River, Tuolumne River, Merced River, Orestimba Creek, Mud Slough, and Salt Slough. The Central Valley Water Board, the United States Geological Survey (USGS), the California Department of Water Resources (DWR), and the United States Bureau of Reclamation (USBR) all conduct routine flow and EC

⁶ Section 6.2, Task 4 Report

⁷ Primarily electrical conductivity (EC) and boron

⁸ Section 6.2, Task 4 Report

⁹ Compliance with the EC WQOs will be based on a 30-day running average