

**Study 13**

# **Levee Geotechnical Exploration**

**Public Draft**

**2014 Monitoring and Analysis Plan**





## San Joaquin River Restoration Program

### 2014 Monitoring and Analysis Plan

#### San Joaquin Levee Evaluation Project

- 1. Statement of Need:** An evaluation of the potential impacts of Interim and Restoration flows under the SJRRP on the San Joaquin River and flood bypasses is necessary per the SJRRP PEIS/R. For this evaluation, a geotechnical exploration of the Priority 1 Levees evaluating their geotechnical integrity was continued in 2013.
- 2. Background:** The Department of Water Resources (DWR) Non-Urban Levee Evaluations Program is preparing a technical memorandum (TM) to assist SJRRP in assessing flood risks and identify potential mitigation strategies to maintain acceptable flood risk management. DWR is continuing the review of geotechnical data and is preparing the Draft geotechnical Evaluation Report which will be complete in the summer 2014.
- 3. Anticipated Outcomes:** Results of this data collection and analysis task will allow DWR and the SJRRP to catalog reconnaissance-level geotechnical characteristics for 75 miles of levees within the flood system and allow Reclamation to make more informed decisions on release of restoration flows. The information ultimately in the TM will allow evaluation and design of potential remediation measures required to safely convey Restoration flows.
- 4. Methods:** The plan is to focus the exploration on the highest priority reaches and will include Lower San Joaquin River Flood Control Project (Project) levees and non-Project levees on the San Joaquin River from the top of Reach 2A to the end of Reach 5 at the Merced River confluence. The current study work excludes sub-reaches 2B and 4B1 until SJRRP makes the decision to use the existing levees for long-term conveyance of the restoration flows.
- 5. Schedule:** Field work is planned to continue through summer 2013. The TM will be complete in the Fall of 2014.
- 7. Deliverables:** Geotechnical Data Report, Geotechnical Overview Report and Levee Monitoring Recommendations TM.
- 8. Point of Contact/ Agency:** S. Greg Farley/DWR
- 9. References**