



Field Activity Advisory Reach 2B Geophysical Surveys November 2020

The San Joaquin River Restoration Program (SJRRP) is preparing to conduct geophysical investigations in Reach 2B of the San Joaquin River Restoration Area. These surveys include frequency-domain electromagnetic (FEM) mapping and electrical resistivity tomography (ERT). The surveys will be conducted to create a screening level map of subsurface conditions and to create a deeper profile of subsurface conditions in the Reach 2B Project area.

Who: U.S. Bureau of Reclamation

What: Reclamation staff will spend up to three days FEM mapping and up to three days performing ERT surveys. The FEM mapping technique is non-invasive, and the systems are hand or vehicle-carried and do not contact the ground surface at all. Any physical impact on the survey area is from the field crew walking or driving a vehicle and cart along survey lines (existing roads and levees). Once the area is mapped, the results will be used to locate areas that are optimal for deeper subsurface investigation with electrical resistivity tomography (ERT). The team is looking for sandy areas that could be problematic for potential levee design and to identify depth to groundwater conditions. The ERT lines are set up with metal electrodes driven into the ground at a regular spacing (most typically every 10ft) and connected with a cable. When surveying is completed, all equipment is removed, leaving no evidence of the survey being conducted.

When: November 5-11, 2020

Where: Left bank of the San Joaquin River and adjoining lands from the Chowchilla Bifurcation Structure to Fresno Slough; right bank of the San Joaquin River from Chowchilla Bifurcation Structure to Mendota Dam (see Figure A).

Questions about SJRRP field activities on public and private land should be directed to the SJRRP Landowner Coordinator below. Questions about the SJRRP should be directed to the Public Affairs Specialist below.

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Contact the SJRRP Hotline, 916-978-4398, or email RestorationFlows@restoresjr.net if you see any problems or have any concerns.

For more information, please visit the SJRRP Web site at www.restoresjr.net or contact Josh Newcom, Public Affairs Specialist, at 916-978-5508. Field Advisories for activities are available at <http://restoresjr.net/get-involved/field-advisories/>

Figure A

