**Abstract**

California Department of Fish and Wildlife (CDFW) conducts juvenile salmonid emigration monitoring on Butte Creek near Chico California at the Parrott-Phelan Diversion Dam. Monitoring is conducted annually from October through June utilizing an eight-foot rotary screw trap (RST) and a diversion screen trap (DST). Data from this monitoring is used to estimate juvenile spring-run Chinook salmon abundance and passage, identify alevin emergence timing, document juvenile size at emigration, and document rearing and emigration patterns. This data will also be used to inform the development of a juvenile production estimate (JPE) for spring-run Chinook salmon in the Sacramento River Watershed as required by Incidental Take Permit No. 2081-2019-006-00 issued by CDFW to California Department of Water Resources (DWR) for the long-term operation of the State Water Project.