



Knights Landing Outfall Gate Fish Barrier Project

Project Description: Currently, adult salmon may be able to enter the Colusa Basin Drain (CBD) through the Knights Landing Outfall Gates (KLOG) when certain flow velocities are met that attract migrating salmon. Once salmon enter the CBD, there is no upstream route for salmon to return to the Sacramento River and, absent fish rescue operations, the fish perish and are lost from production. This project proposes to construct a positive fish barrier (with new concrete wing walls and installation of a metal picket weir) on the downstream side of the existing KLOG in the CBD, as well as place a small amount of riprap on the right bank of the CBD immediately downstream of the KLOG. This project serves primarily as a fish passage improvement action that will prevent salmon entry into the CBD while also maintaining outflows and appropriate water surface elevations. A secondary purpose of this project is to address an existing erosion site on the right bank of the CBD channel immediately downstream of the KLOG structure to enhance stability.

Type of Project: Fish Passage

Restoration Targets: NA

Location and Landowner: This project is located in the CBD at the KLOG structure, approximately one-quarter mile from the confluence with the Sacramento River near the community of Knights Landing, just below River Mile 90, in Yolo County (site map attached). The banks on each side of the KLOG are Sacramento River Flood Control Project levees and the KLOG is managed by the California Department of Water Resources (DWR). The fish barrier would be owned by the California Central Valley Flood Protection Board and operated and maintained by DWR's West Sacramento Maintenance personnel.

Permitting: Project completed November 2015.

Estimated Timeline: Project completed November 2015.

Project Proponent: Reclamation District 108 (RD108)
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