



SHERMAN ISLAND SETBACK LEVEE - MAYBERRY SLOUGH

Western Delta

TIDAL MARSH, SHADED AQUATIC RIVERINE, AND UPLAND HABITATS

Reclamation District 341, with funding from the California Department of Water Resources (DWR), constructed four sections of setback levee to increase levee stability along Mayberry Slough on Sherman Island in 2004 and 2005. The Sherman Island setback levee represents an opportunity to reverse some of the ecological damage resulting from levee construction and maintenance, by implementing a habitat development project that will augment the existing riparian vegetation and provide habitat for native species. The project restored tidal wetland and riparian habitat.

The setback levee totals approximately 6,100 linear feet and cost \$5.8 million to construct. Increased flood protection and a concomitant net gain of habitat in the Sacramento-San Joaquin Delta are goals of Assembly Bill 360 (AB 360; Delta Levees Program).

Construction of the waterside portion of the setback levee was divided into two phases (Phase IIA, Phase IIB), and the two phases were completed in Fall 2008 and 2009, respectively. Plant monitoring and maintenance was ongoing until 2013.

RESTORATION TOTALS

307 acres total:

- ▶ 192 acres of emergent wetlands
- ▶ 115 acres of seasonally flooded wetlands

OBJECTIVES

- ▶ Lower the waterside (6,100 feet) of the existing Sherman Island levee to create functioning intertidal channel margin habitat that will benefit native aquatic species and reduce the load on the setback levee.
- ▶ Successfully transplant Mason's lilaeopsis (*Lilaeopsis masonii*), a California Rare Plant, at the project site.
- ▶ Create intermittent habitat that resists colonization and establishment by non-native plant and animal species.
- ▶ Provide monitoring results that will aid in planning future projects for the Delta Levees Program.

LANDOWNER

Reclamation District 341 (Sherman Island) and DWR



FUNDING

- ▶ Planning, Design, and Construction - Proposition 84 and General Fund
- ▶ Operations and Maintenance – Prop 84 and 1E

TIMELINE

- ▶ Design and Plans Completed - 2007
- ▶ Landside Construction of Setback Levee - Summer 2008
- ▶ First Phase of Waterside Construction completed (2,300 linear feet) - Fall 2008
- ▶ Plant Monitoring and Maintenance begins, preparation for second phase of Waterside Construction - Spring 2009
- ▶ Second Phase of Waterside Construction completed (3,800 linear feet) - Fall 2009
- ▶ Plant Monitoring and Maintenance Completed, Final Report - 2013
- ▶ Project completed in 2009

PERMITTING

- ▶ CEQA – completed
- ▶ USACE 404 – completed
- ▶ Clean Water Act Section 401 - completed
- ▶ US EPA Stormwater Pollution Prevention Plan - completed
- ▶ CVFPB Encroachment Permit – completed

PROJECT PROPONENT

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