

Matilija Dam now

Matilija Dam Ecosystem Restoration Project

PROJECT OBJECTIVES

- Improve Aquatic and Terrestrial Habitat Along Matilija Creek and Ventura River
 - Restore Natural Processes to Support Beach Sand Replenishment
 - Enhance Recreational Opportunities
 - Restore Fish Passage



Matilija Creek after dam removal



Arundo donax Removal

Restore riparian habitat by the removal of this invasive reed throughout the watershed

Robles Diversion Modification 6

High flow bypass will flush sand, gravel and boulders through the diversion during floods



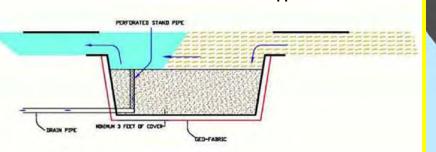
Meiners Oaks Levee

A new levee downstream of the **Robles Diversion** will protect residential community from increased flood risk



Desilting Basin

Sediment settling basins will prevent fine sediments from entering Lake Casitas



Foster Park Wells

Two new water wells to ensure water supply for the City of Ventura



Beach Replenishment

Dam removal will allow

sediment to move downstream

to naturally replenish and protect

beaches and coastal property

Carried and an experience of the second

Paul Jenkin Cynthia Hartley- GIS Rich Reid - photography April 2010





Dam Removal Matilija Dam will be removed after the downstream project components are

constructed

Existing Robles

Diversion Dam

Historic Steelhead **Habitat**

Dam removal will allow Steelhead to regain access to prime habitat in the Matilija Creek

Matilija Dam

Sediment Management

Dredge and slurry 2 million cubic yards of fine sediment and then excavate a 'pilot channel' upstream of the dam and temporarily stabilize remaining 4 million cubic yards of sediment (from fines to large boulders)



Camino Cielo Bridge

New bridge will accomodate increased sediment flow



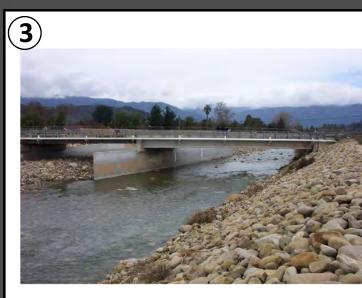
Slurry Deposition Sites

A pipeline will deliver 2 million cubic yards of fine sediment (silt and clay) from the Matilija Reservoir to temporary storage areas within the floodplain downstream of the Robles Diversion



Live Oak Levee

Reconstruction will bring levee up to FEMA flood control standards



Santa Ana Bridge

Widening will reduce floodplain constriction to accommodate increased sediment flow

Matilija Dam Project Components

The 2004 Feasibility Plan will remove the dam and allow controlled release of sediment while protecting water supply and downstream property

Approximate order of the plan components:

Arundo Removal Foster Park Wells

Live Oak Levee

Desilting Basins

- **Robles Diversion Modification Meiners Oaks Levee**
- Santa Ana Bridge
 - **Camino Cielo Bridge** 9 Slurry Disposal
 - 10 Sediment Management
- Water Supply Bridges Levees Biological Sediment





