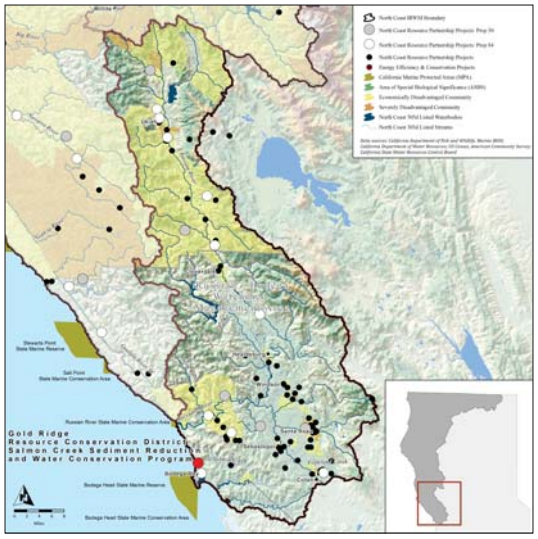
# Salmon Creek Sediment Reduction and Water Conservation Program, Phase 1 and 2

## GOLD RIDGE RESOURCE CONSERVATION DISTRICT




### STATEMENT OF THE PROBLEM

Working with our partners, we conducted multiple assessments of stream and estuary habitat and ecological function throughout the watershed, including an extensive inventory of road-related erosion and sediment delivery to streams. Restoration work stemming from these assessments has focused on the treatment of anthropogenic sediment sources, enhancement of instream physical habitat, and more recently, the improvement of instream flows, particularly during the summer-fall dry season.

### PROJECT GOALS

1. Improve instream flow during warm season
2. Decrease sedimentation to Salmon Creek through erosion control measures
3. Reach out to community to increase awareness and participation

### THE SOLUTION

GRRCD worked with local contractors and stakeholders to implement this project, which is focused on sediment reduction and water conservation throughout the Salmon Creek watershed.

### PROJECT IMPLEMENTATION AND ACCOMPLISHMENTS

Project implementation included the construction of eight residential and small agricultural-scale rainwater catchment systems and upgrades to the Bodega Water Company distribution system. Workshops were held to provide landowners with information to manage water for long-term water supply security.

### COMPLETION DATE

October 2012

### PROJECT BUDGET

**Phase 1 (Prop 50 Initial):**

IRWMP — $340,913

Cost share — $370,000

**Phase 2 (Prop 50 Supplemental)**

IRWMP - $384,409

Cost share - $45,000

**Totals for Prop 50 grants:**

IRWMP — $725,322

Cost share — $415,000

### BENEFITS

**Economic**

- Increased instream flow has an estimated benefit of $1,360 per year[1]
- Avoided operational costs estimated at $178,543
- Avoided water supply cost estimated at $139,823 based on transportation costs of importing water into the watershed

**Water Supply**

- Reduction in household and industry demand by up to 35%
- Total Annual Water Supply Benefits value of $593,393 (Prop 50 Phase 1) and $595,713 (Prop 50 Phase 2)

**Watershed Rehabilitation**

- Improved fish and wildlife habitat
  - » An additional 17 ac-ft retained for instream flows per year
  - » Reduction of fine sediments from 9 miles of Rural Roads

**Cultural benefits**

- 500 residents actively participated in water conservation practices
- 1500 residents educated through the water conservation program

**Jobs and Local Economic Benefit**

- Over $750,000 was spent locally using local labor and supplies when possible, thus contributing to State goals for environmental justice and social equity

### NEXT STEPS & RECOMMENDATIONS

We continue our efforts under the Prop 84 Round 1 grant, which is assisting with implementation of a large water storage project with the goal of eliminating summer diversions for a dairy in the watershed, and will partially fund a second round of rainwater catchment system design and implementation (a total of at least eight additional rainwater systems.


**CONTACT**

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Pacific Watershed Associates
Streamline Engineering
DragonFly Enhancement
Piazza
Pearson Exploration
Sierra Pipeline
Landowners


**CITATIONS**


1. Brown, T.C. 2007. "The Marginal Economic Value of Streamflow from National Forests: Evidence from Western Water Markets." In: M. Furniss, C. Clifton, and K. Ronnenberg, eds. Advancing the Fundamental Sciences: Proceedings of the Forest Service National Earth Sciences Conference, San Diego, CA, 18-22 October 2004. Gen. Tech. Rep. PNW-GTR-689. Portland, OR: U.S. Forest Service, Pacific Northwest Research Station. p. 458-466


NORTH COAST RESOURCE PARTNERSHIP