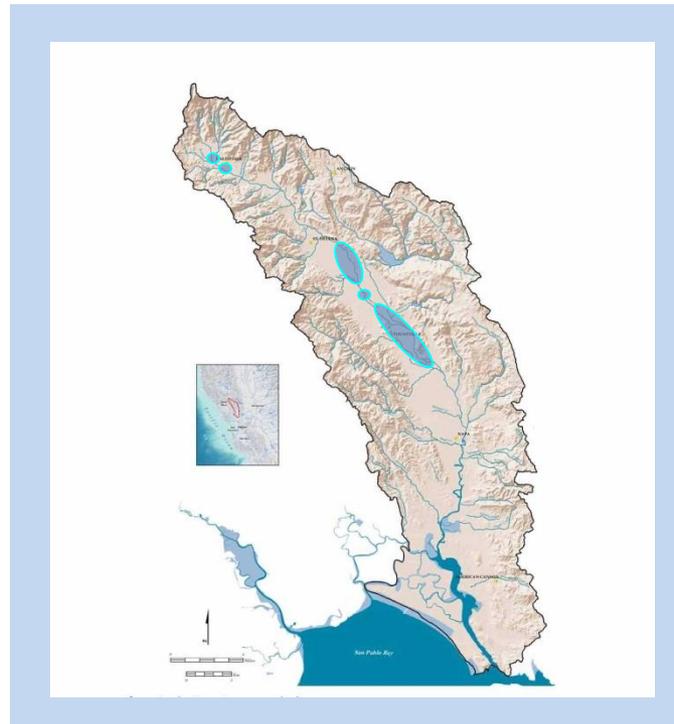


Large & Small Restoration Projects in the Napa River Watershed



Napa County Watershed Symposium
Watershed Information Center and Conservancy

Shaun Horne, Watershed and Flood Control Resource Specialist



A Tradition of Stewardship
A Commitment to Service

May 15, 2015

Stream Maintenance Program (SMP)

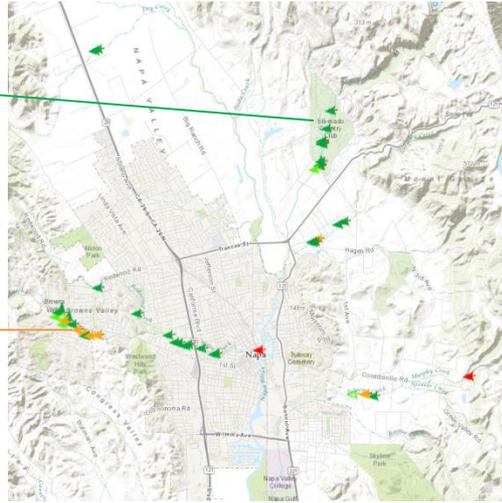
Napa County Flood Control and Water Conservation District

SMP Activities

- Vegetation and Invasive Plant Management
- Downed Tree Management & LWD Recruitment
- Streambank Erosion/Biotechnical Stabilization
- Sediment Removal
- Riparian Enhancement
- Barrier Removal
- Trash and Debris Removal

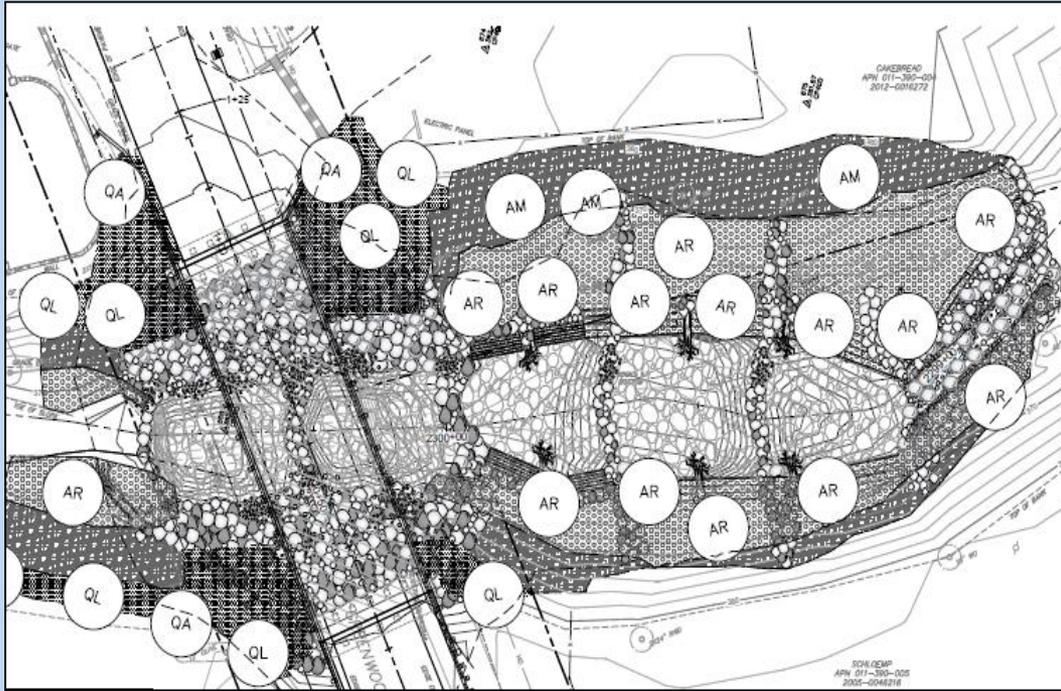


LWD Management & Monitoring

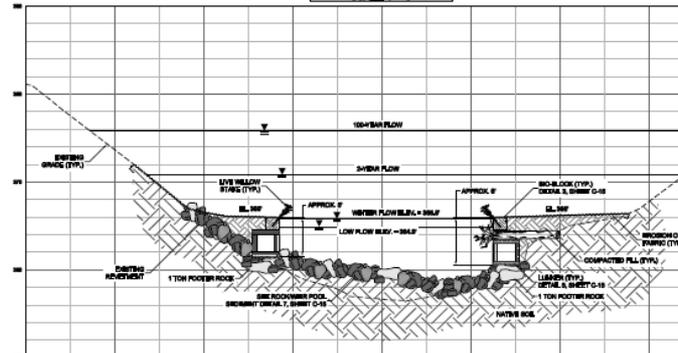
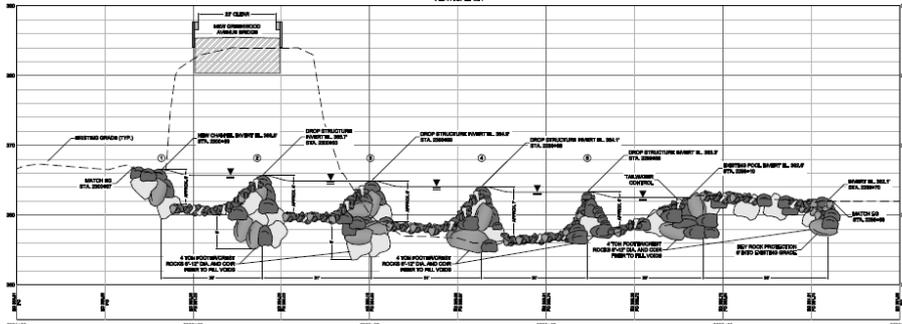


Greenwood Avenue Culvert Replacement

Napa County Public Works



NAPA RIVER FLOW LINE PROFILE
SCALE: 1" = 10'
VERTICAL: 2"



Calistoga Footbridge Removal

Napa County Resource Conservation District (RCD)



Project Objective

Provide unimpeded access to 14 miles of historic upper watershed spawning and rearing habitat while maintaining pedestrian access.

Project Status

- Completed detailed topographic survey for final design
- Completed geomorphic inventory and channel profile for 1,300 foot project reach to support final design
- RCD acquired \$150,000 in CADFW FRGP funding for final design
- Caltrans is acquire pedestrian bridge for upstream project that will be the permanent replacement bridge



Napa River Restoration Rutherford Project

Napa County Public Works



 Expanded Riparian Corridor  Setback Berms  Floodplain Benches  Tributary Alcove  Instream Structures

3,054 Feet of Secondary Channels Created

31 Acres of Riparian Forest Enhanced

17 Acres of Slow Water Aquatic Habitat Created

2.5 Miles of Channel Widened

147 Instream Habitat Structures Installed

3.25 Acres of *Arundo donax* Eradicated

29 Landowners Participating and Funding Ongoing Monitoring and Maintenance Through an Assessment District



Reach 4 west bank stabilization during November 2012 high flow event



Reach 4 west bank stabilization March 2013

Project Monitoring

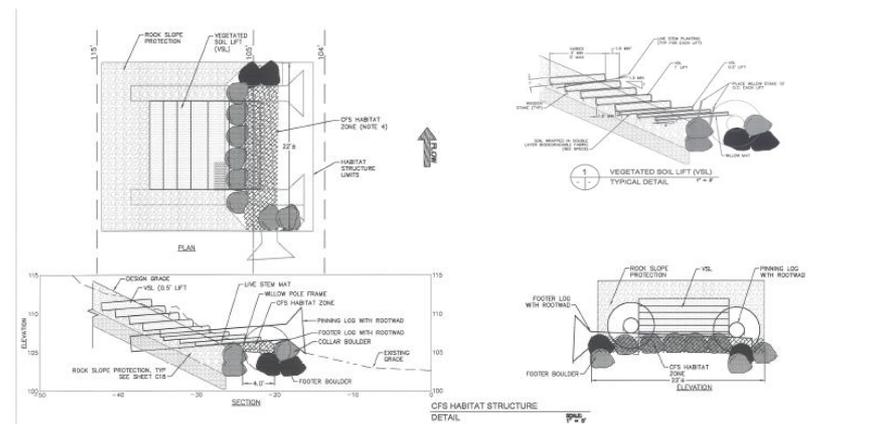
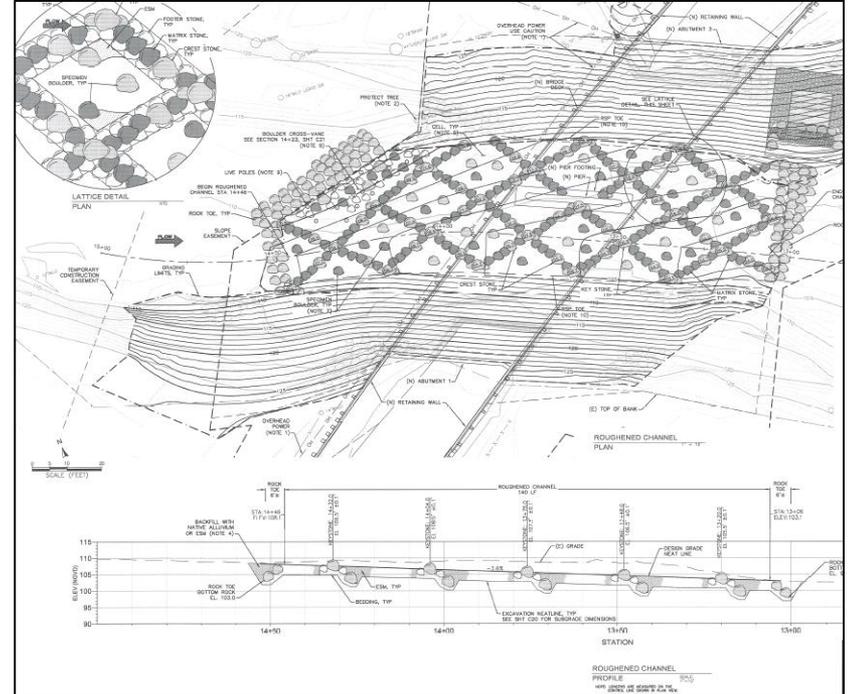


Project Maintenance



Oakville Bridge Replacement Project

Napa County Public Works

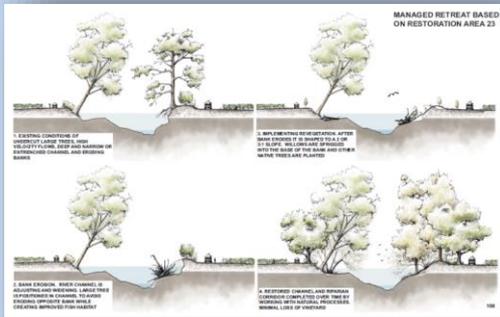
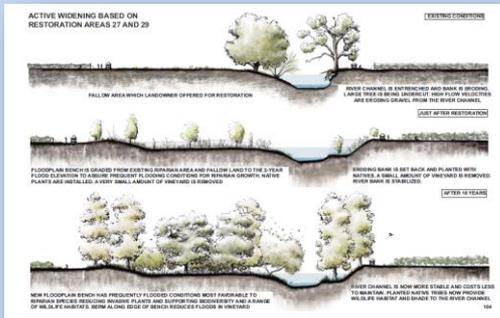


Oakville to Oak Knoll Restoration Project

Napa County Public Works



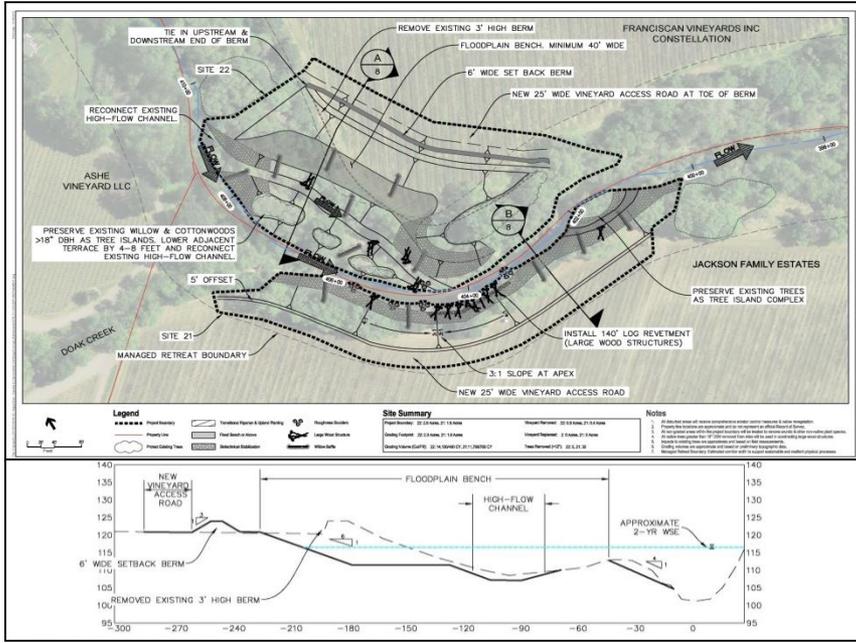
 Construction Group A
 Construction Group B
 Construction Group C
 Construction Group D



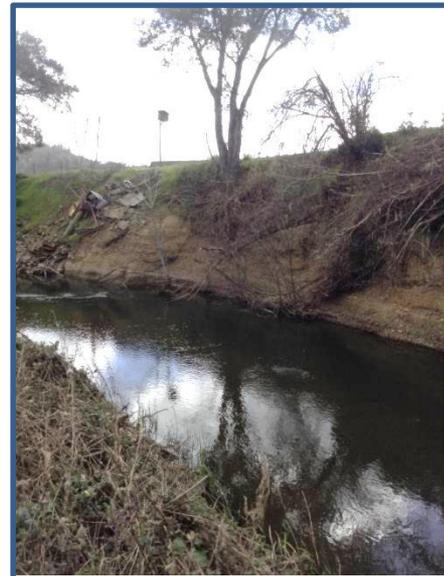
- 2011 • Completion of Conceptual Plan
- 2012 • Completion of 30% Design
- 2012 • Completion of CEQA Analysis
- 2013 • Received Grant From EPA
- 2013 • Treated 8 Acres of Arundo
- 2014 • Landowners Formed CFD
- 2015 • Group A Implementation



Site 22 & 21



Looking at East bank



Looking at west bank

Site 23

