



Dry Creek

Fish Habitat Enhancement Feasibility Efforts



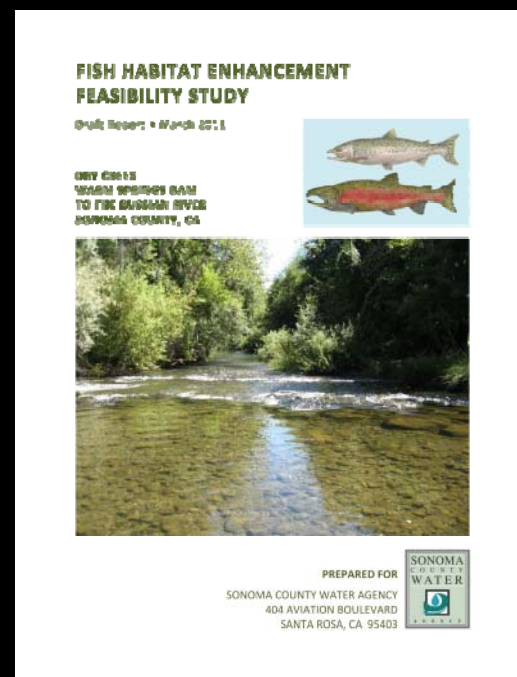
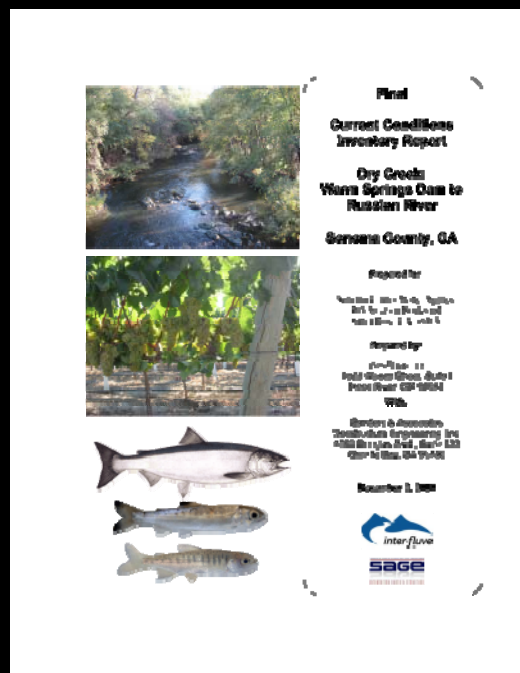
Talk Outline

- **Technical efforts to date**
 - Inventory
 - Enhancement feasibility
- **Enhancement feasibility**
 - Direct creation
 - Adaptive management
- **Conceptual approaches**
- **Next steps**
 - Concept design
 - Demonstration projects



Dry Creek Habitat Enhancement Technical Efforts

- Feasibility Study: 3 primary study phases
 - 1) Inventory of Current Conditions – *Complete*
 - 2) Feasibility Analysis – *Draft Complete*
 - 3) Conceptual Design – *Summer 2011*



Inventory of Current Conditions in Dry Creek

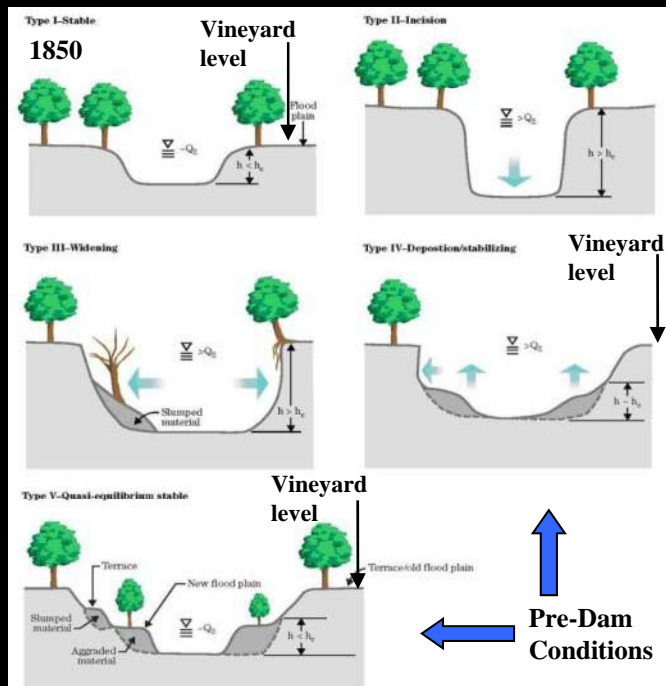
- Geomorphic conditions
- Vegetative conditions
- Fisheries habitat conditions



Stream Geomorphology Today

- Reduced winter floods,
reduced sediment input, and
increased vegetative growth

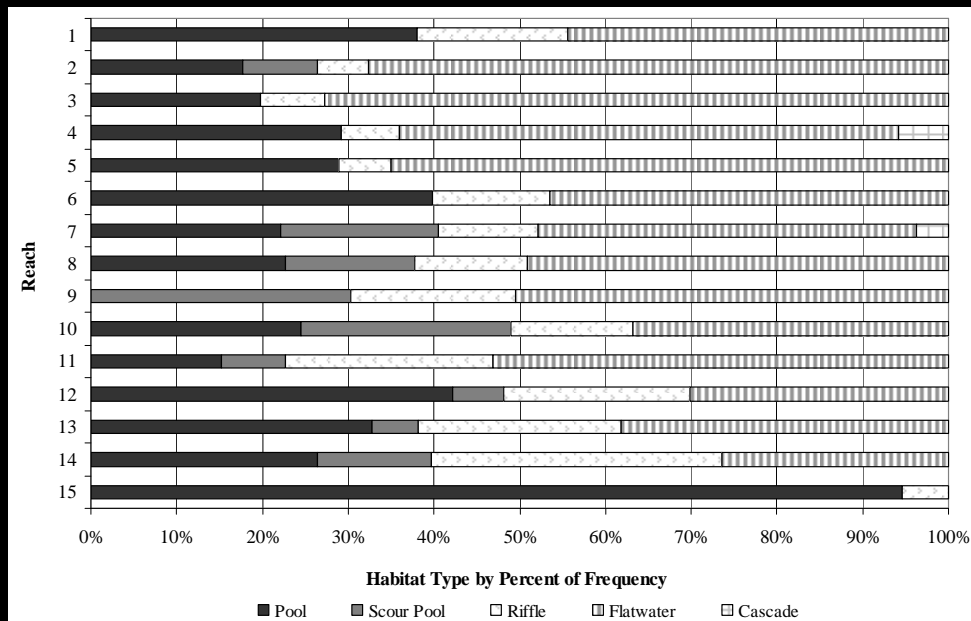
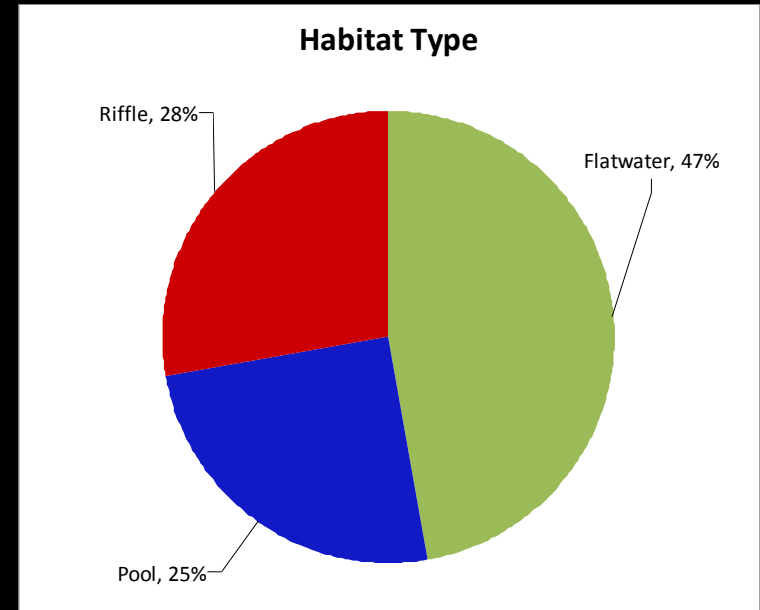
- limited incremental systemic bed lowering / local adjustments
- conditions vary from upstream to downstream
- grade control sills and bedrock help control creek bed elevation
- growth of vegetation makes creek efficient at transporting sediment even though floods are reduced



Fish Habitat

Selected Results:

- Variation between reaches
- Predominantly flatwaters & swift pools
- Alcoves most prevalent in lower half of study reach

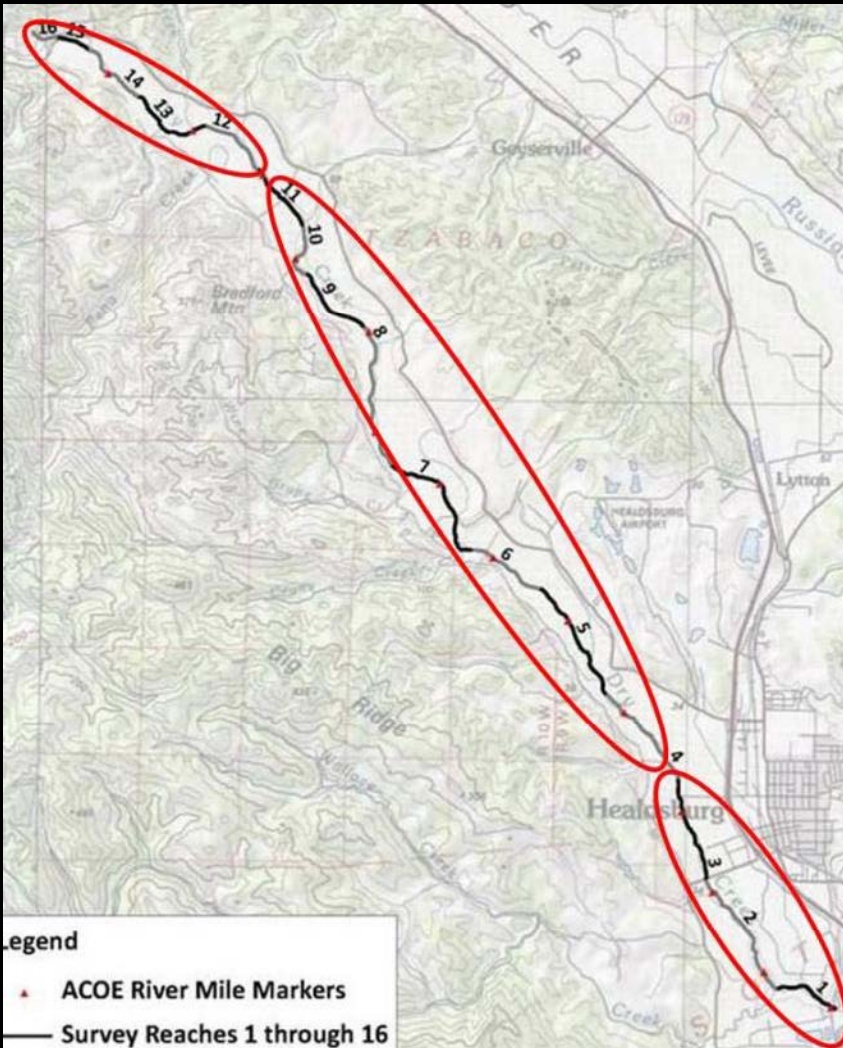


Habitat Enhancement Feasibility Study

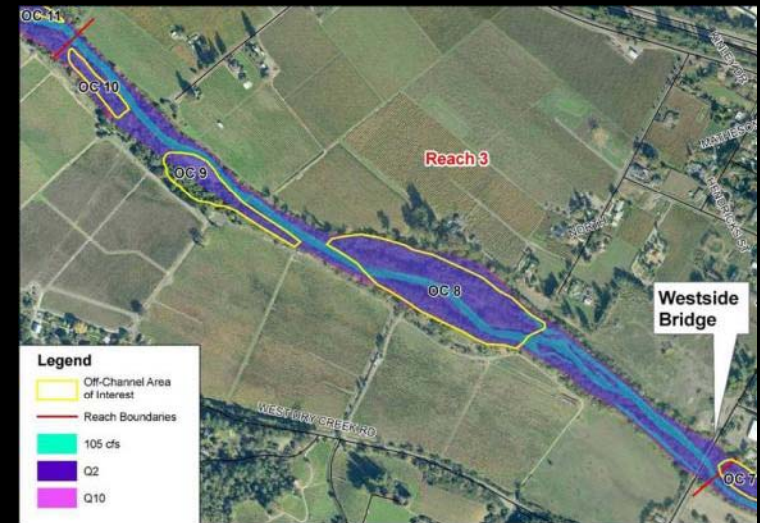
- Opportunities exist within a range of general approaches.
- For some areas of Dry Creek, existing fluvial processes may prove sufficient to allow a process based approach to enhancement.
- Other areas will need an adaptive management approach to maintain habitat long term.



Habitat Enhancement Feasibility Study

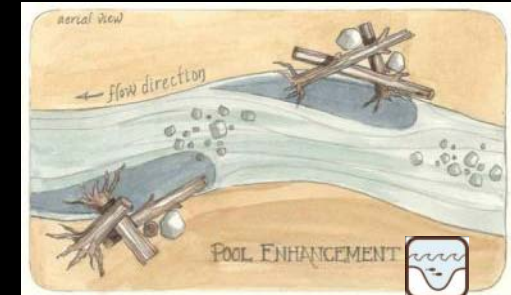
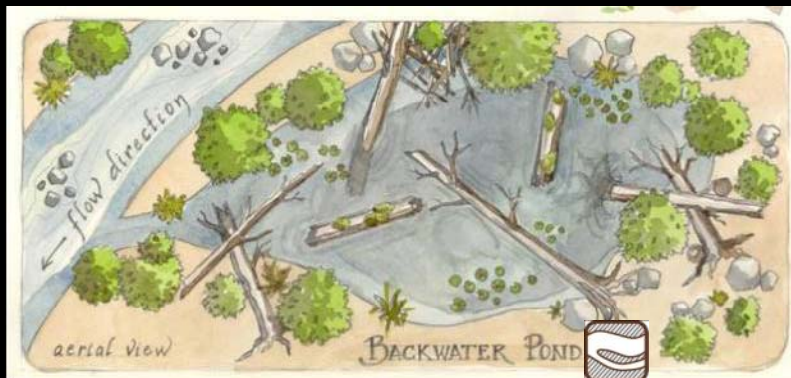
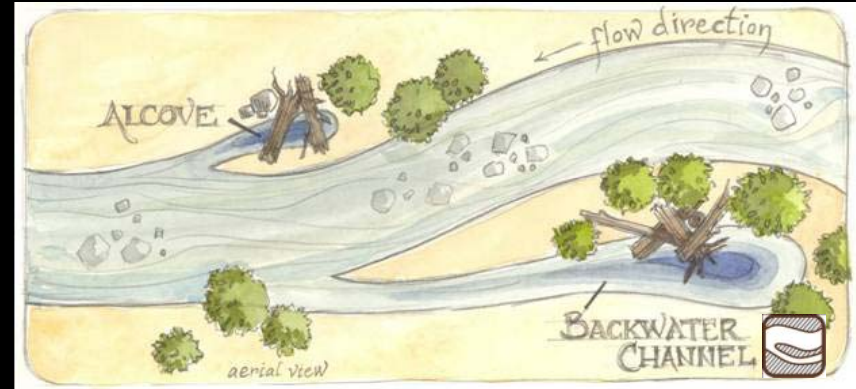


- Many opportunities identified
- Distributed throughout 14 miles over 3 primary segments
- Up to 9 miles of opportunity
- Vary by location



Habitat Enhancement Feasibility Study

Conceptual Approaches



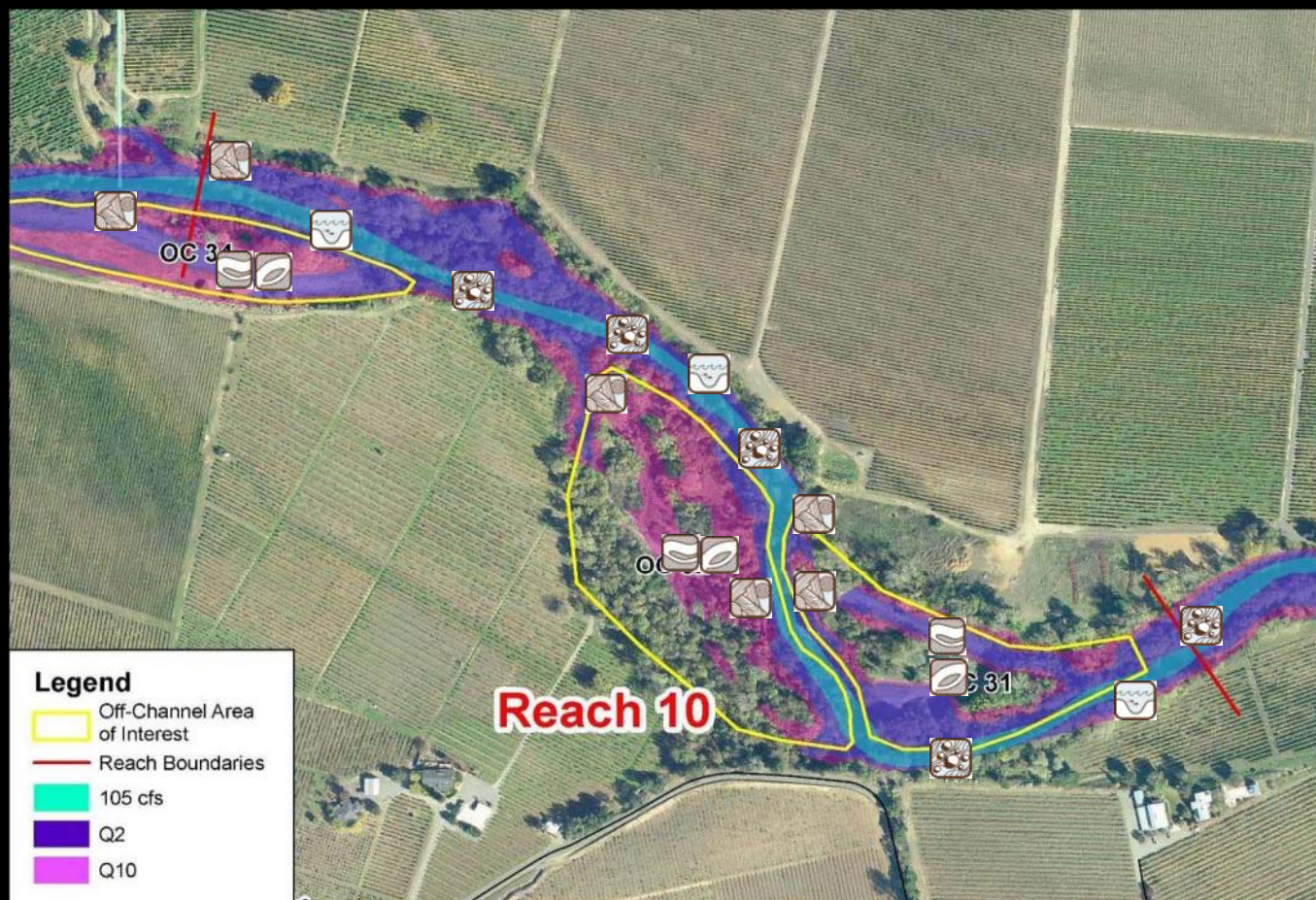
Habitat Enhancement Feasibility Study

Examples of Approach

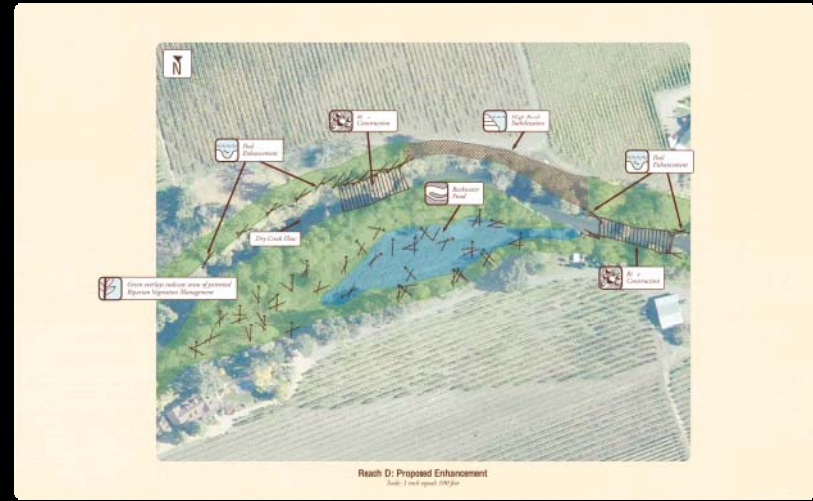
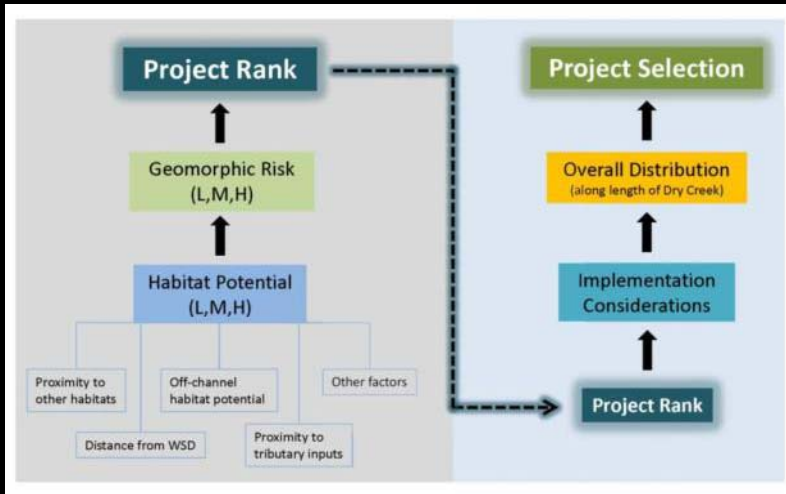


Habitat Enhancement Feasibility Study

Examples of Approach

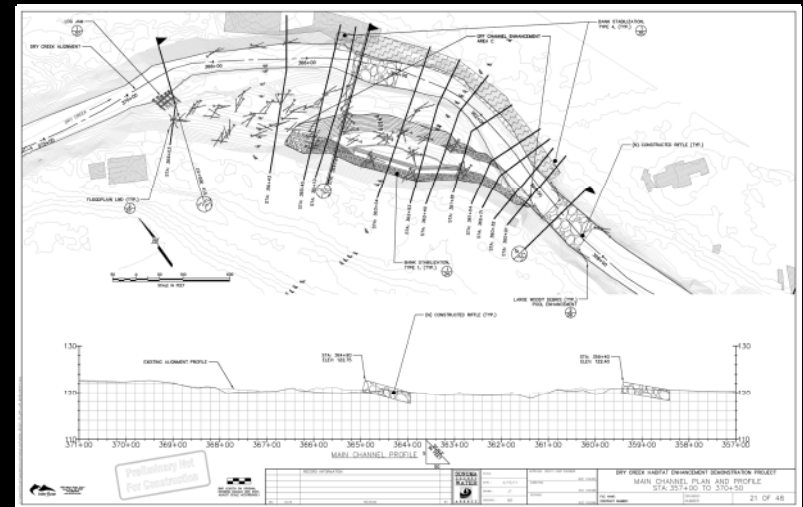


Habitat Enhancement Feasibility Study

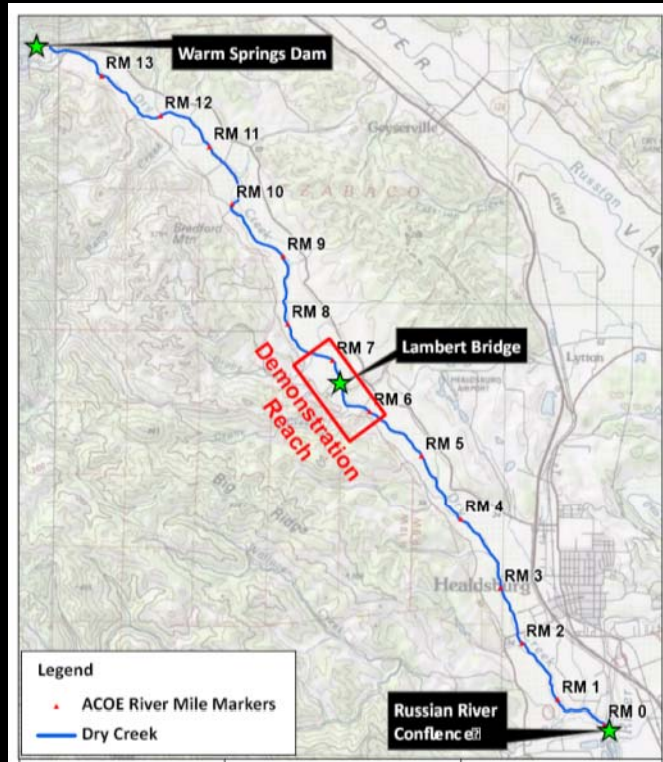


Next Steps

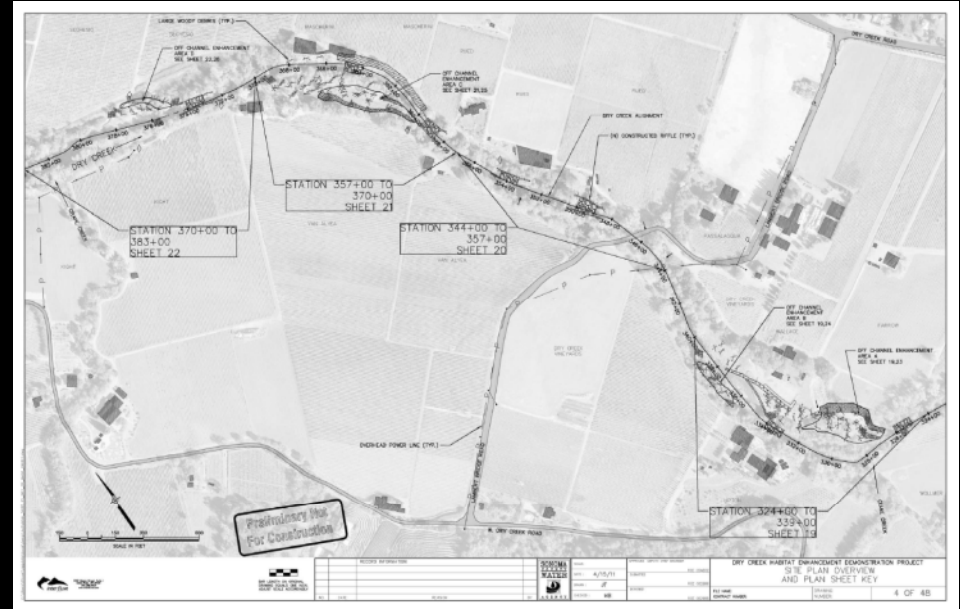
- **Site specific conceptual design**
- **Site rankings**
- **Demonstration reach final design**



Demonstration Reach Final Design



- Accelerated timeline
- Group of willing landowners
- Currently at 60% Design
- Construction Target 2012





Side channel enhancement in demonstration reach

Questions?

