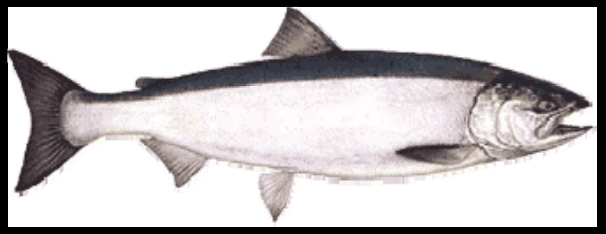

Dry Creek

Fish Habitat Enhancement Feasibility Efforts

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Talk Outline

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

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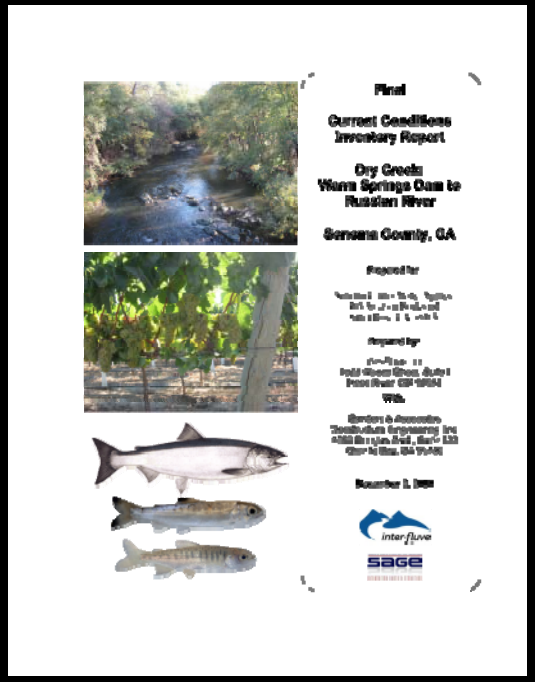
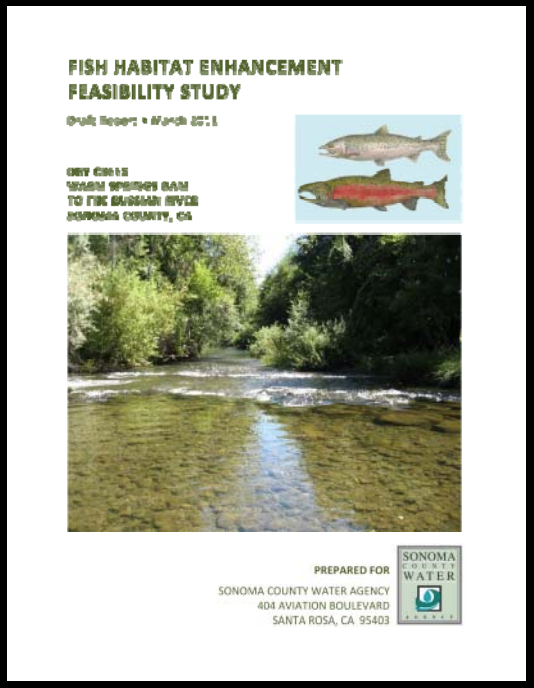
Dry Creek Habitat Enhancement Technical Efforts

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





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Inventory of Current Conditions in Dry Creek

- Geomorphic conditions
- Vegetative conditions
- Fisheries habitat conditions

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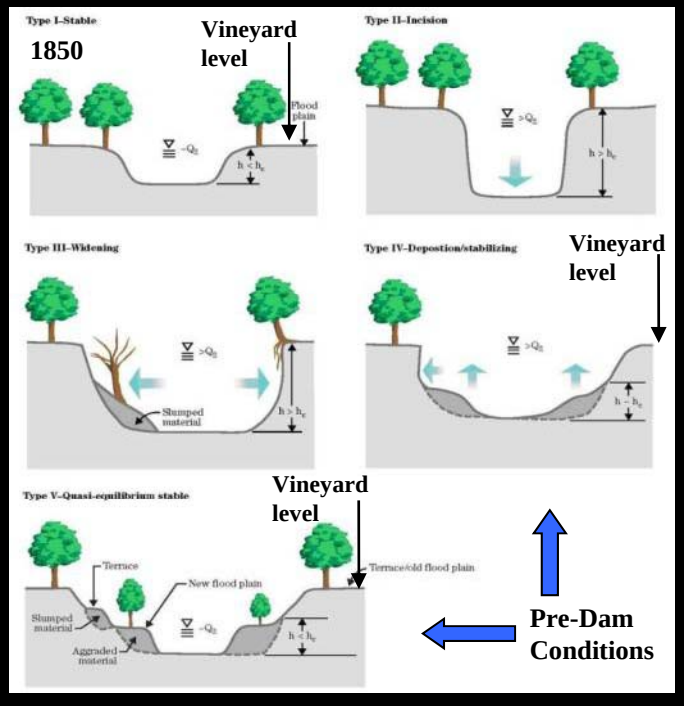
Stream Geomorphology Today

- 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



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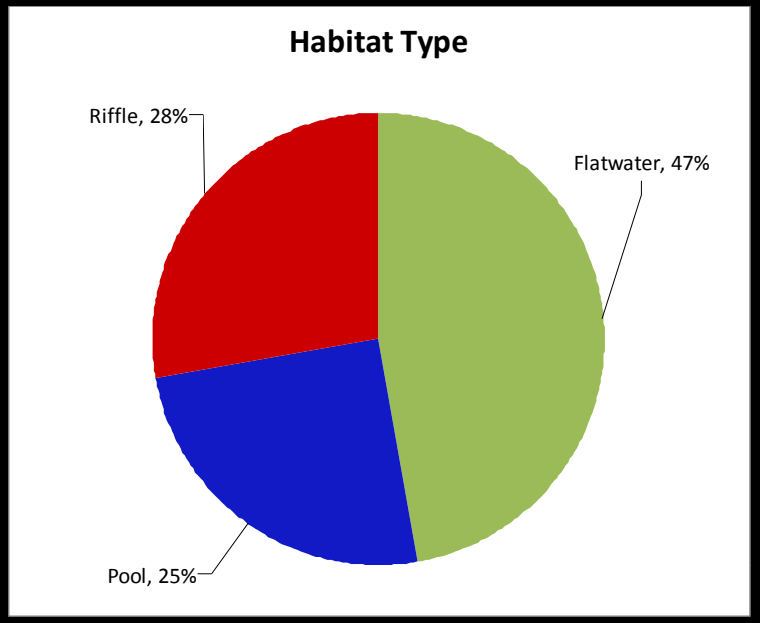
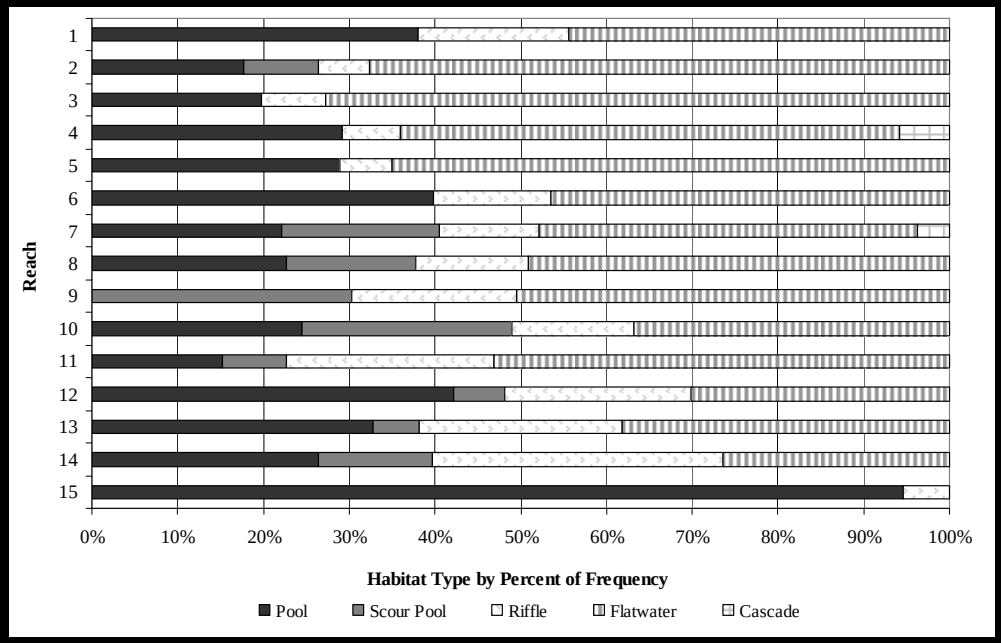
Fish Habitat

Selected Results:

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





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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.

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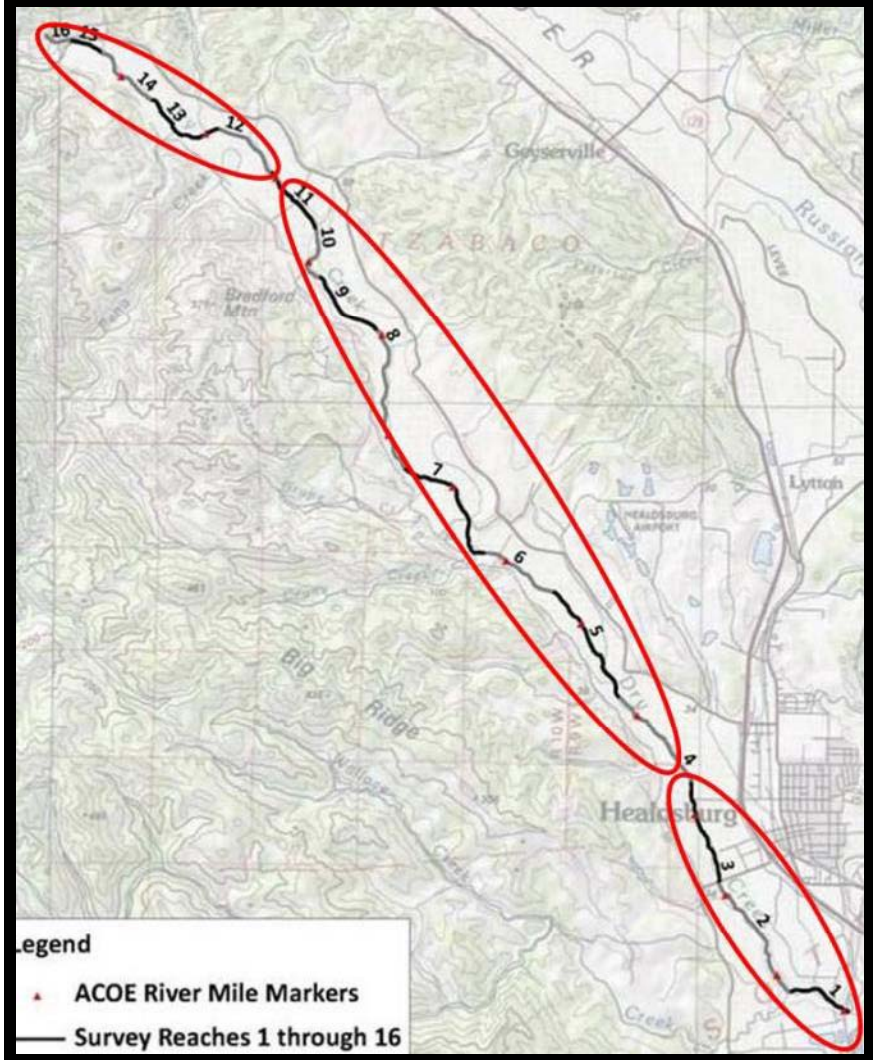
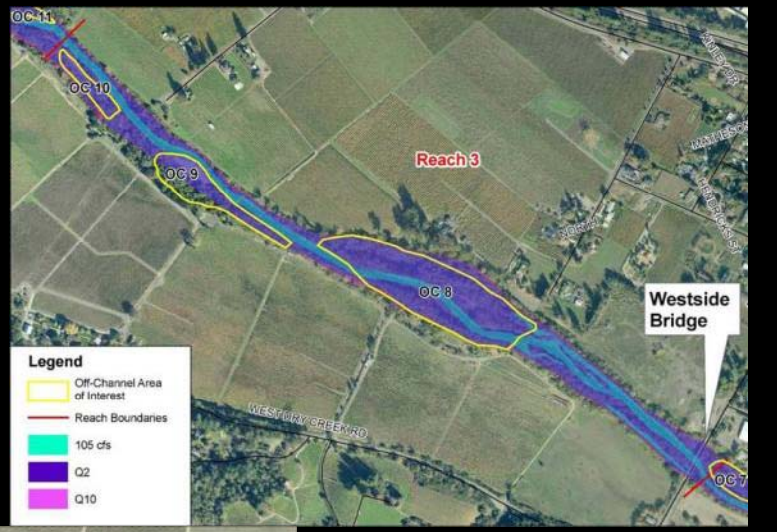
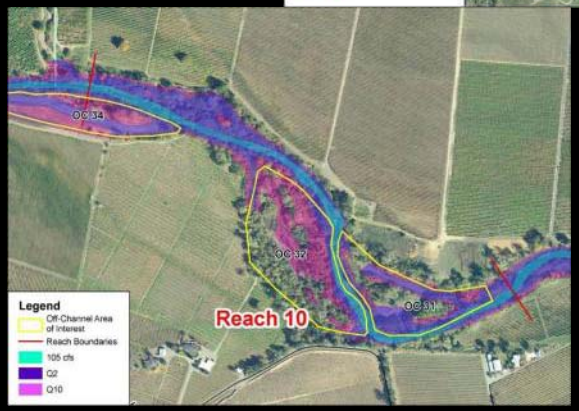
Habitat Enhancement Feasibility Study



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





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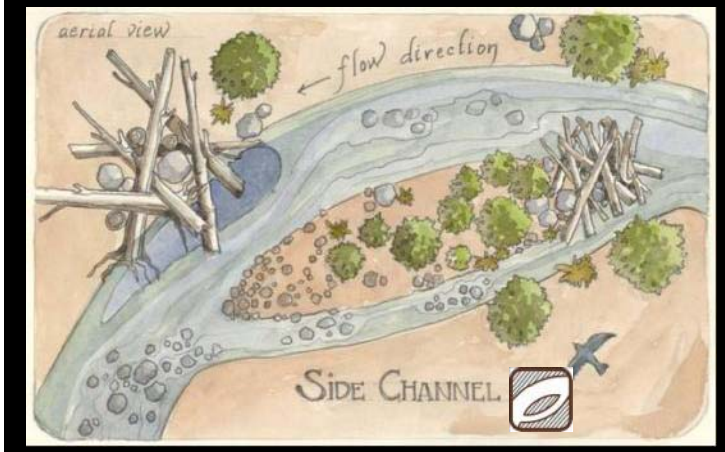
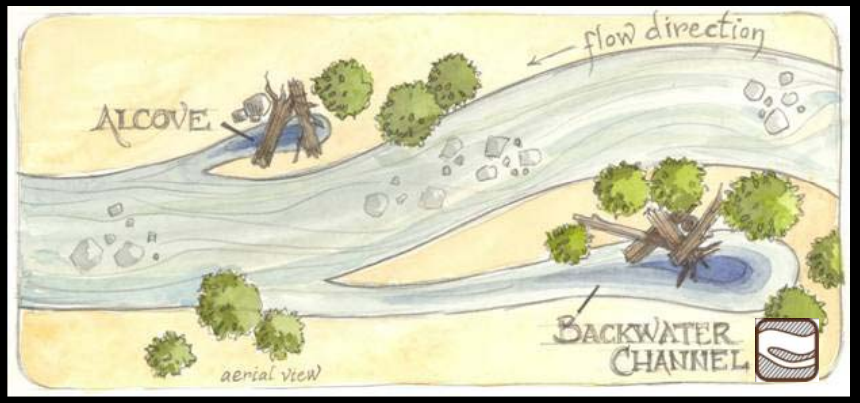
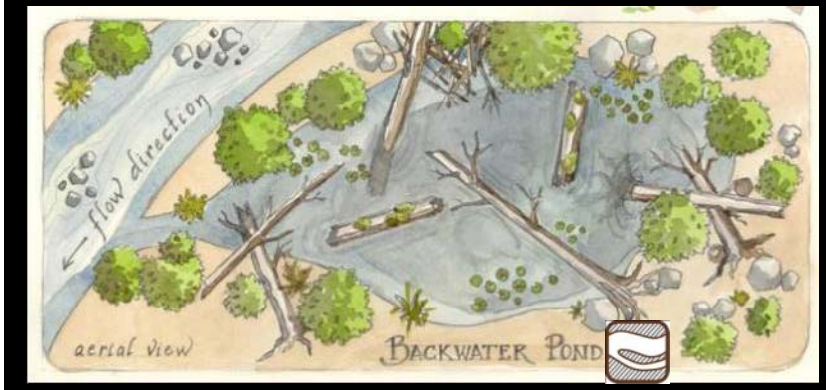
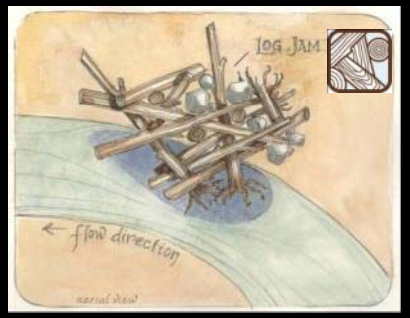
Habitat Enhancement Feasibility Study

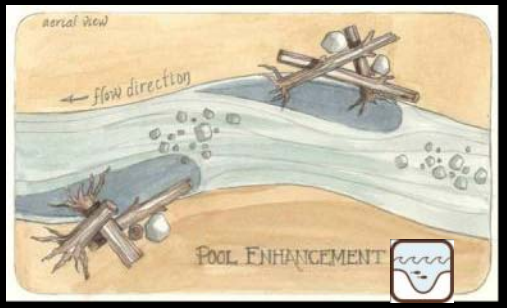
Conceptual Approaches











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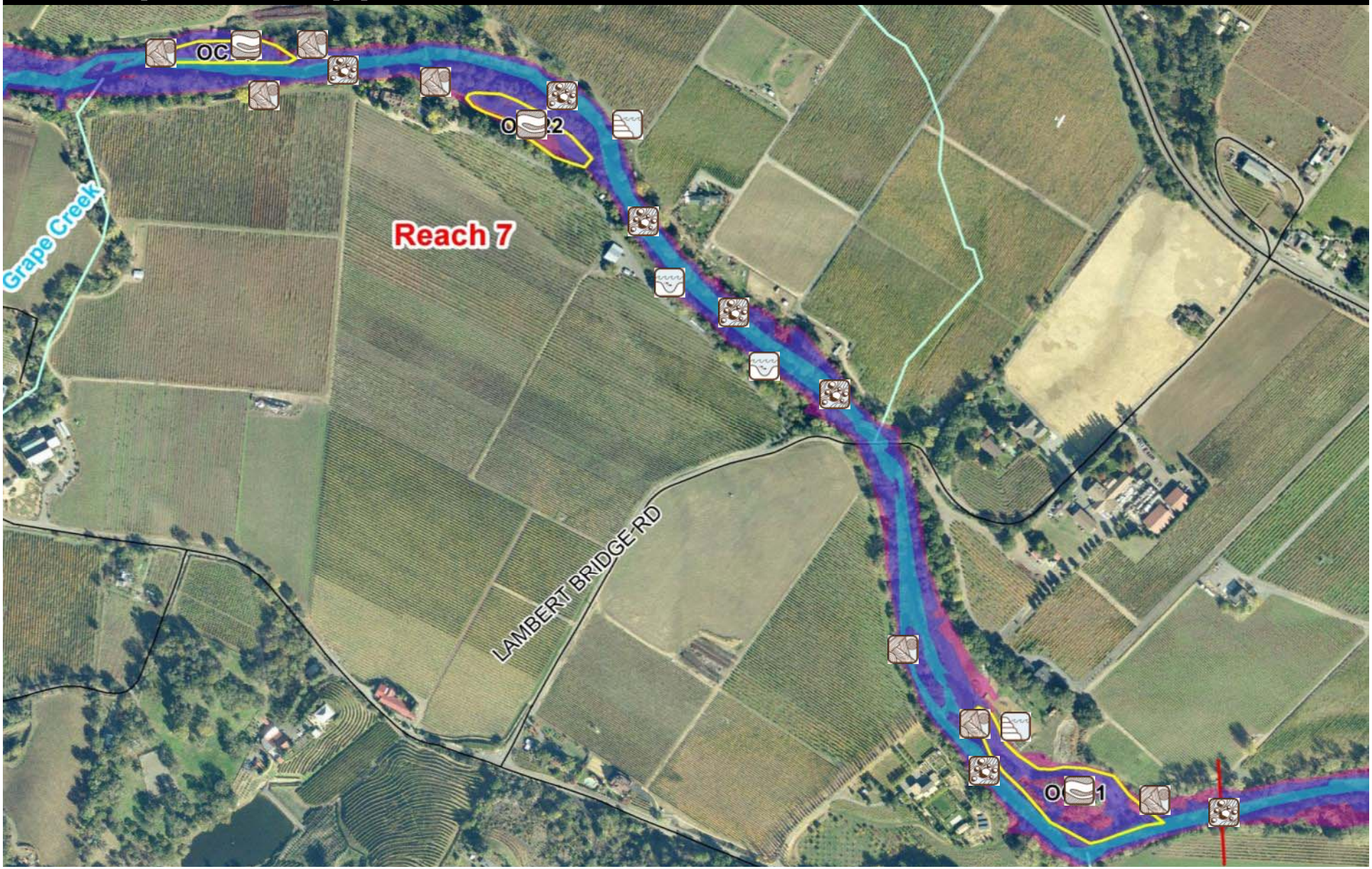
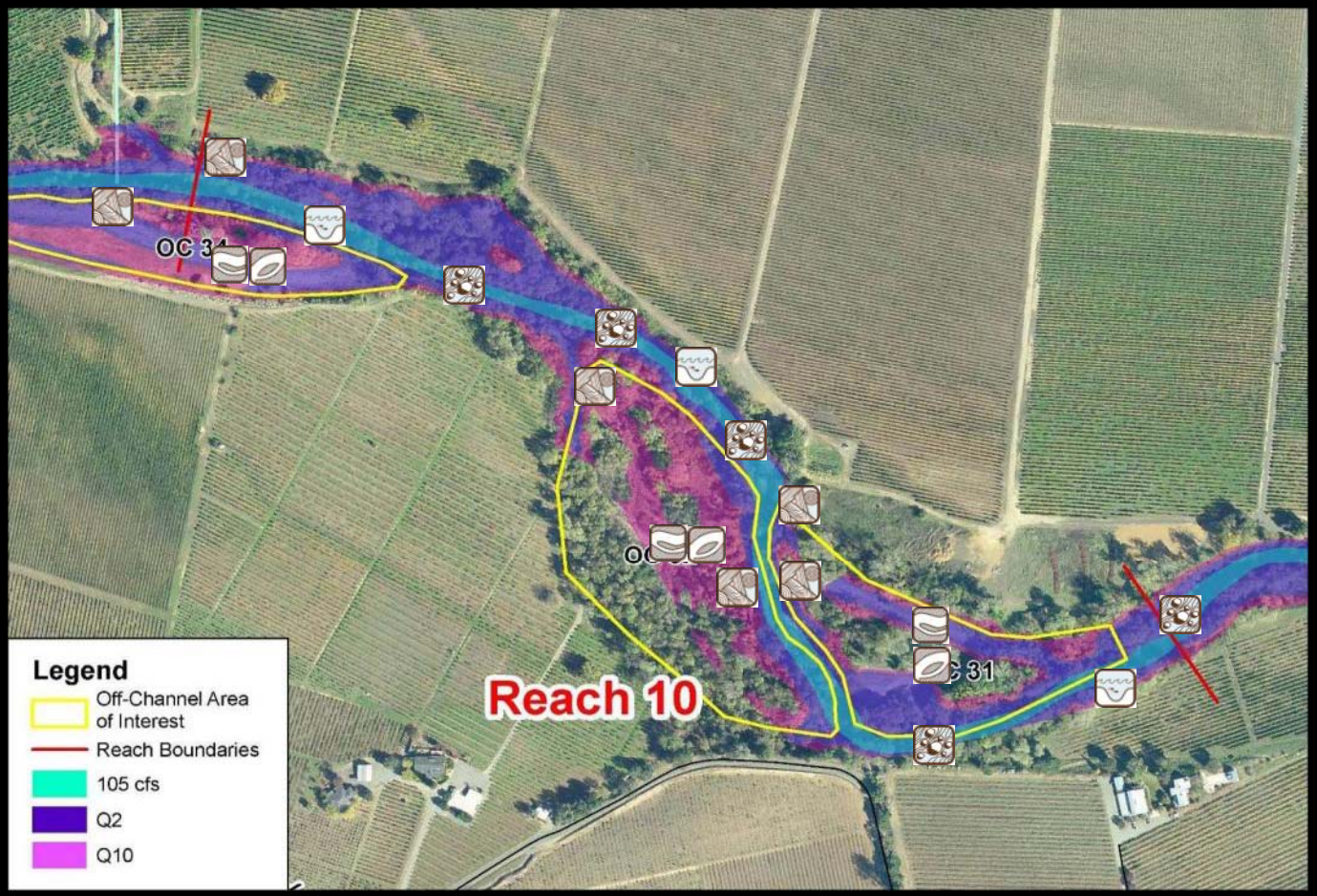
Habitat Enhancement Feasibility Study

Examples of Approach



Habitat Enhancement Feasibility Study

Examples of Approach



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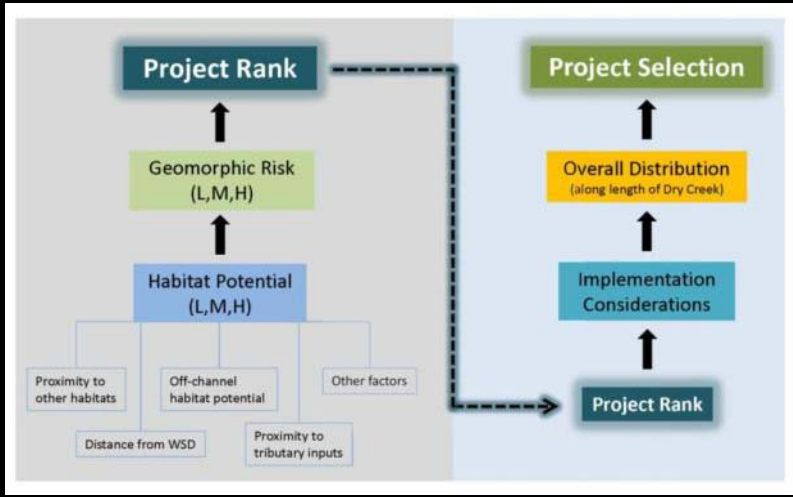
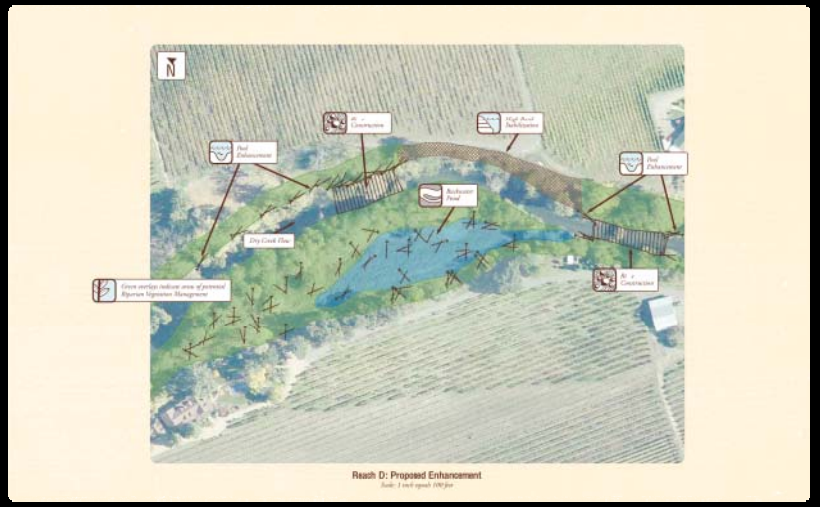
Habitat Enhancement Feasibility Study

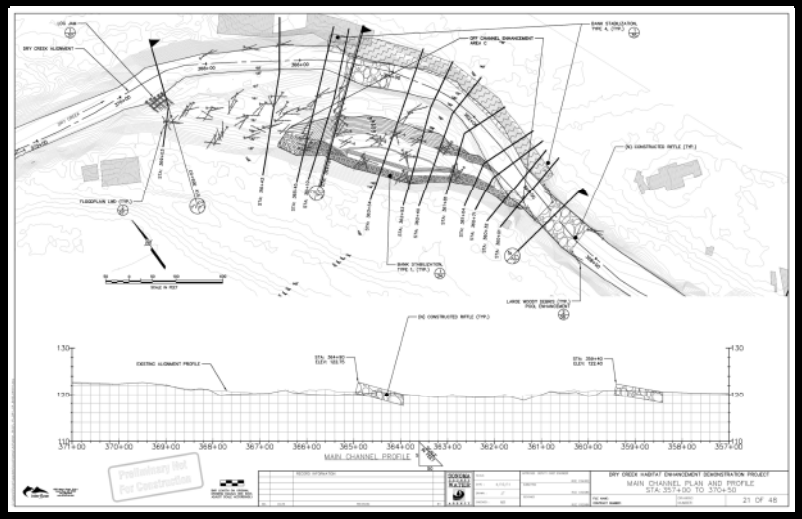




Next Steps

- Site specific conceptual design
- Site rankings

- Demonstration reach final design



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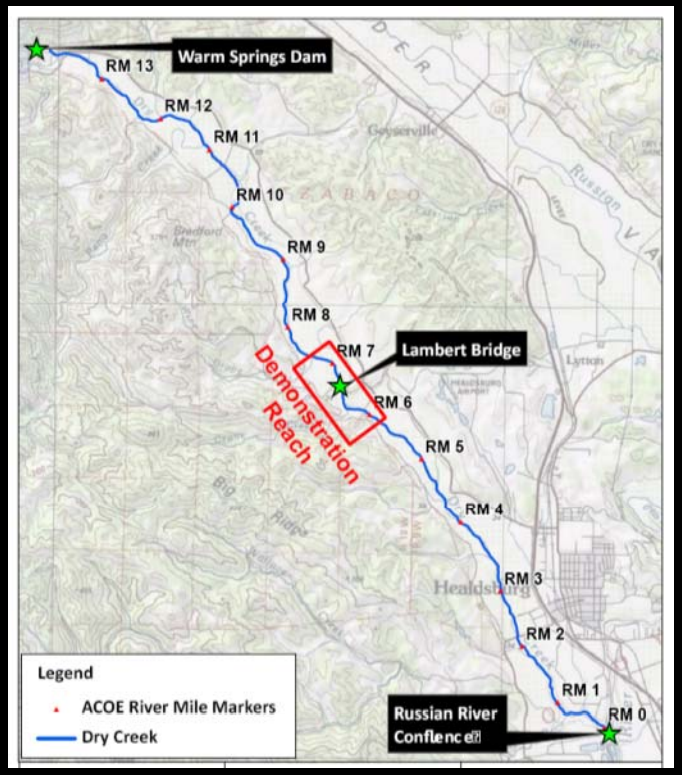
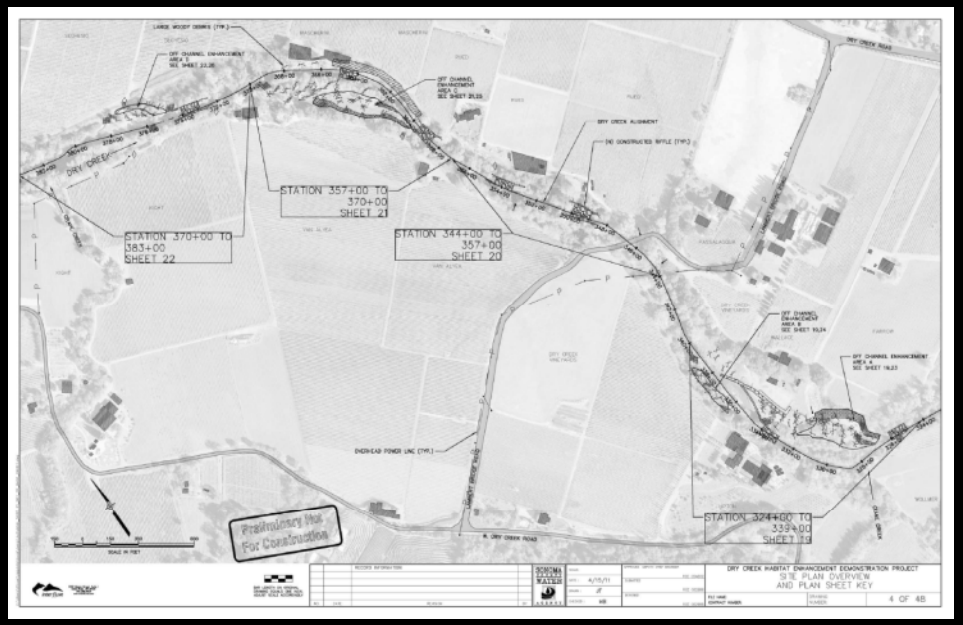
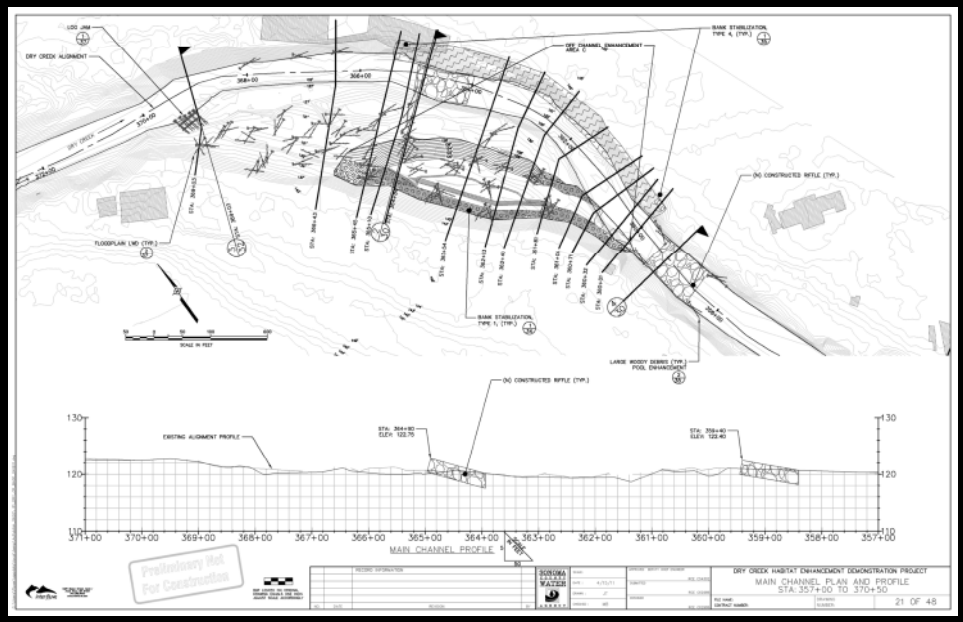
Demonstration Reach Final Design







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

Side channel enhancement in demonstration reach

Questions?

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