

**WILDCAT CREEK**  
**Resource Agency Meeting 14 November 2003**  
**Discussion of Fish Passage and Habitat Issues**

**Meeting Notes**

**Downstream End to Giaramita Bridge**

1. Discussed possible levee re-alignment downstream of Richmond Parkway to minimize impacts on riparian habitat.
2. Discussed the possibility of allowing the natural process of sediment deposition to raise bench elevations to design levels instead of using fill.
3. In some areas on the north bank proposed levee improvements are only 3-6 inches high. Levees less than 3-4 inches should be replaced with a low floodwall.

**Giaramita Bridge to the upstream end of the project**

1. Before additional fish bypass designs are considered determine the following:  
  
Maximum flow, depth and velocity for adult fish passage. Criteria 2 - 5 year  
Minimum flow, depth and velocity for adult fish passage. Criteria 1 foot flow depth  
  
Maximum flow, depth and velocity for juvenile fish passage. Criteria 2 - 5 year  
Minimum flow, depth and velocity for juvenile fish passage. Criteria 6 inch flow depth
2. South Bypass concerns
  - Sediment deposition and vegetation growth in the proposed south bypass.
  - Difficulty in designing an upstream entrance that allows 0 to 70 cfs maximum into the channel and excludes/diverts sediment.
  - The downstream south bypass exit must attract upstream migrating fish.
3. What is the residence time of water flowing through the basin.
4. Suggestion to remove the Washington baffles in the center bay low flow channel and replace with removable steel corner baffles.
5. Design a continuous slope fish passage through the concrete section. Look into the possibility of a new compound fish channel through the north bay of the concrete culvert.

6. Construct baffles/barriers in the sediment basin to promote deposition and a meandering low flow channel. The barriers would be levee like peninsulas that could also be used for maintenance vehicle access.
7. Low flow channel to be constructed in the sediment basin. The channel would be constructed below the minimum basin design elevation and will remain after maintenance cycles.
8. Fish passage alternatives that empty directly into the sediment basin will require an outlet design that minimizes gravel bar formation at their exits. Under existing conditions gravel bar formation at the downstream end of the existing concrete culvert interferes with upstream fish migration.

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