

**An Overview of the  
Bay-Delta Conservation Plan  
CALFED Water Supply Subcommittee Meeting  
June 6, 2007**

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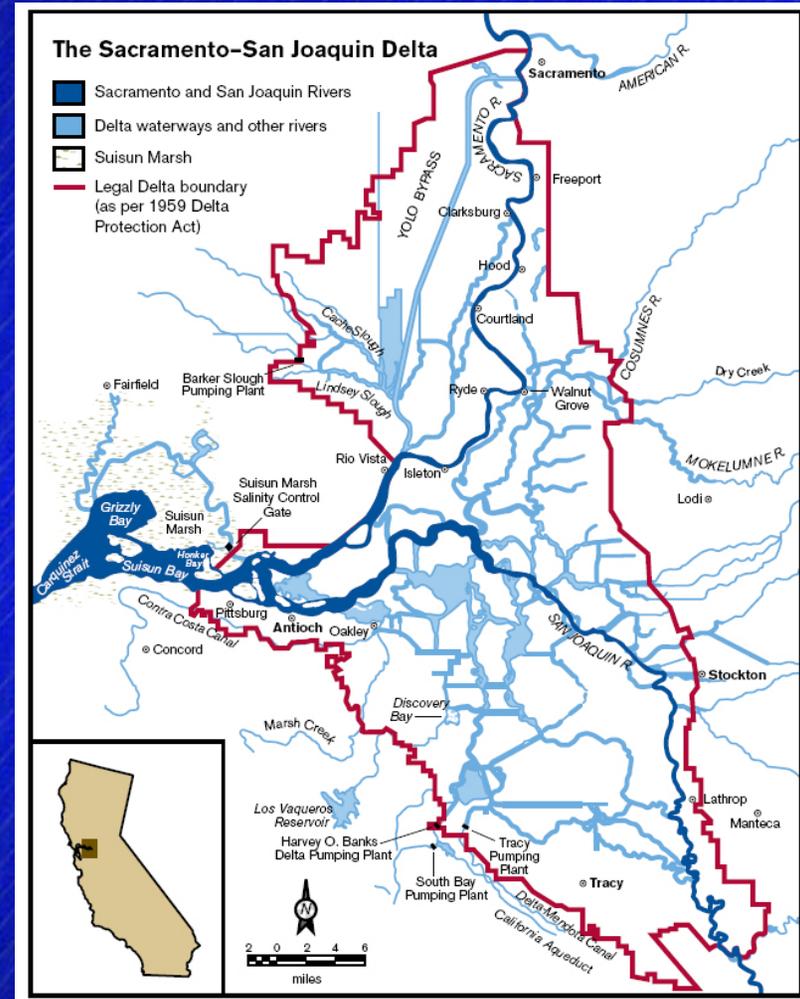
# What is the BDCP?

- An applicant driven effort to provide for the conservation and management of aquatic species and regulatory assurances related to water supply reliability and water quality.
- BDCP will be comprised of an HCP or NCCP but likely both.



# What is an HCP/NCCCP?

- HCP = Habitat Conservation Plan (Federal)
- NCCCP = Natural Community Conservation Plan (California)
- Coordinated, regional conservation plans prepared for the purpose of obtaining long-term incidental take permits under FESA and CESA.



# What's the Purpose of the BDCP?

- Provides a plan to restore and protect water supply, water quality, and ecosystem health within a stable regulatory framework.
- FESA/CESA Compliance
- Long-term Incidental Take Permits
- Assurance that future ESA listings will not result in additional environmental regulation and mitigation.



# Who is involved with BDCP?

- **The Applicants, aka PREs (Potentially Regulated Entities): DWR, USBR, Mirant Energy, State and Federal Water Contractors**
- **The Fish and Wildlife Agencies: DFG, USFWS, NOAA Fisheries**
- **The NGOs: Nature Conservancy, American Rivers, Natural Heritage Institute, Environmental Defense, Defenders of Wildlife, and California Farm Bureau**
- **The Resources Agency, acting as the Steering Committee Facilitator**

# Where are we in the Process?

- **Planning Agreement**
- **Work Plan**
- **Draft Covered Activities**
- **Selection of Lead Scientist and Science Facilitators**
- **Refinement of Conservation Strategy Options**

**Nine CSO's**



**Evaluation Criteria**



**Four CSO's**

# SWP Covered Activities:

Activities associated with delivering water from SWP Delta facilities.

- SWP water deliveries: Table A, Article 21, Article 55,
- Drought water bank and other water deliveries
- Water supply facilities and operations
- Other Delta facilities: Skinner, south Delta barriers
- Maintenance activities
- Ongoing and future projects
- Monitoring activities
- JPOD

## BDCP Proposed Covered Species:

- Central Valley steelhead
- Central Valley Chinook salmon (spring run & fall/late-fall runs)
- Sacramento River Chinook salmon (winter run)
- Delta smelt
- Green and white sturgeon
- Splittail
- Longfin smelt

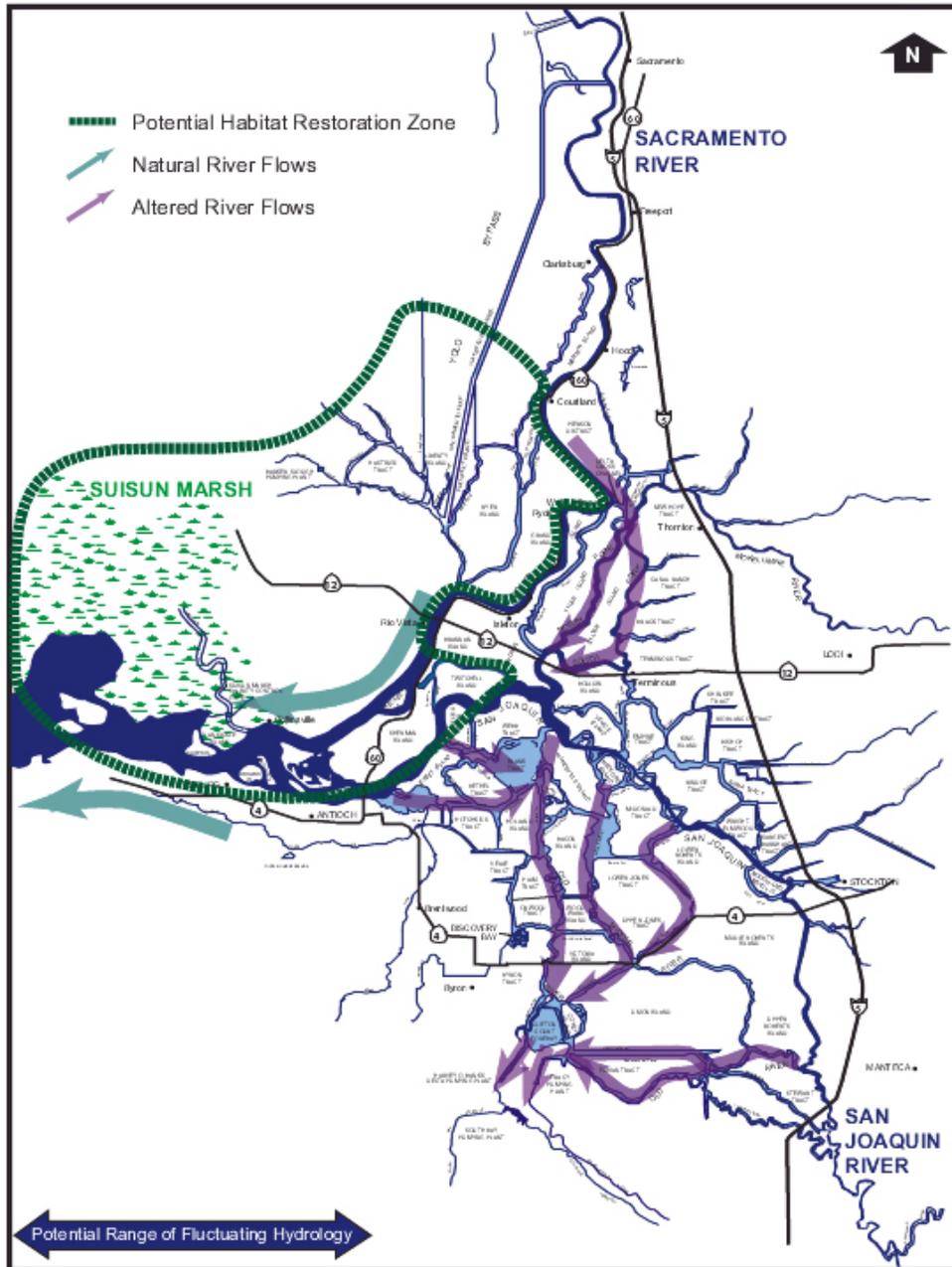
## Other species under consideration:

- Swainson's hawk
- Bank swallow
- Giant garter snake
- Valley elderberry longhorn beetle

# Sturgeon Stressor Matrix Example

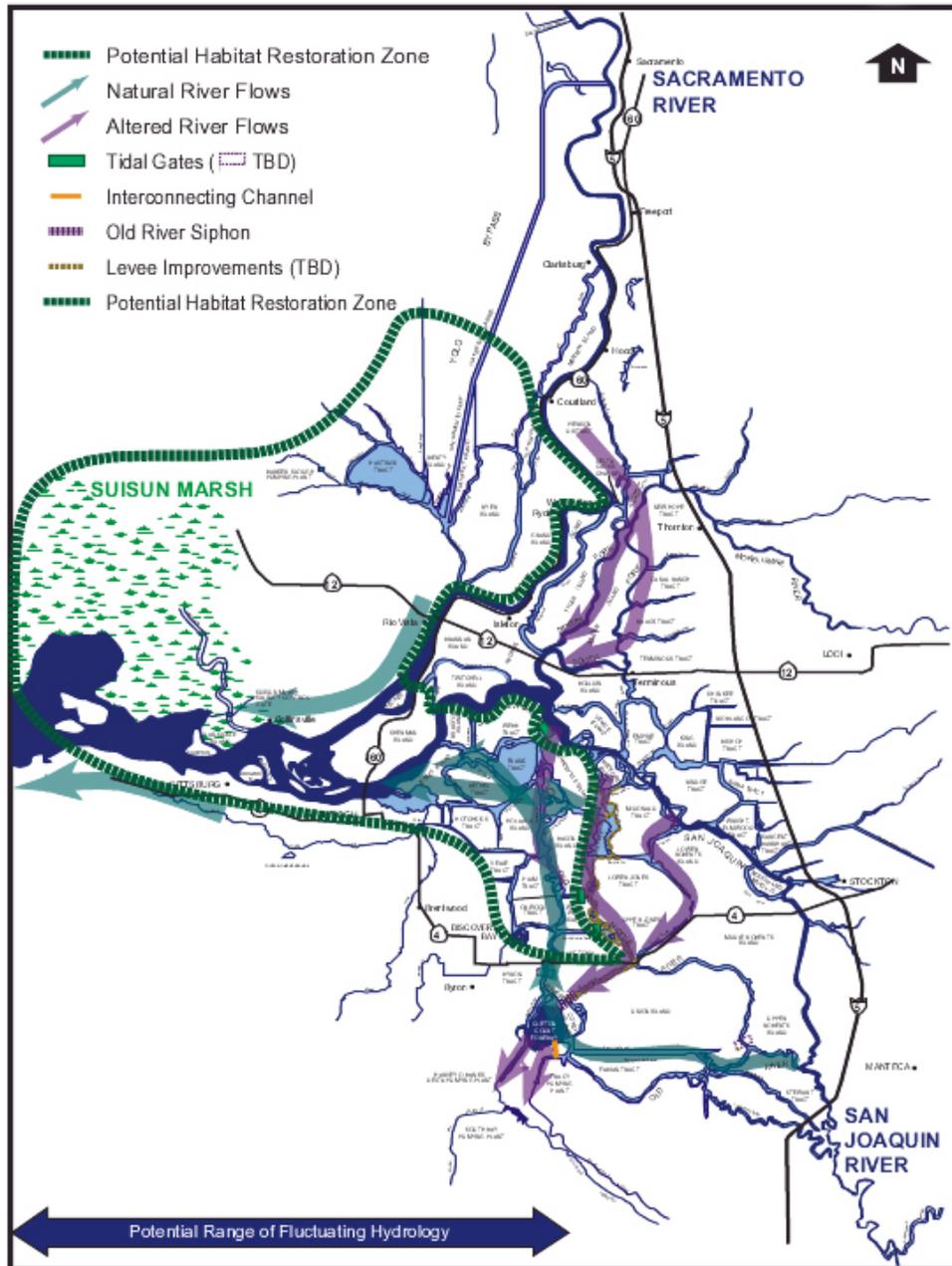
1-1b	CVP entrainment	▪Loss through louvers	3	0	X	?	0	<ul style="list-style-type: none"> <li>▪Install fish screens</li> <li>▪Real-time/seasonal operations</li> <li>▪Increase outflow</li> <li>▪Relocate intake and improve screening (multiple intakes, new channel)</li> <li>▪Rebuild or refurbish existing louver facility</li> <li>▪Intertie between SWP and CVP, joint pumping, fill San Luis early to provide flexibility in operations, preferential diversion operations based on fish densities and losses</li> </ul>
1-2	SWP/CVP salvage	▪Collection, Handling, Transportation, Release (CHTR) mortality <sup>[1]</sup>	2	0	X	X	0	<ul style="list-style-type: none"> <li>▪Install fish screens</li> <li>▪Improve louver guidance</li> <li>▪Improve CHTR process</li> <li>▪Seasonal operations</li> <li>▪Relocate intake and improve screening</li> <li>▪Multiple release sites</li> <li>▪Different techniques for release (e.g., barge vs. truck)</li> <li>▪Predator control within the salvage process</li> </ul>
1-3	CCF predation	▪Predation	2	0	X	?	0	<ul style="list-style-type: none"> <li>▪Predator management/removal</li> <li>▪Modify Forebay.<sup>[2]</sup></li> <li>▪Remove Forebay</li> <li>▪Install fish screens</li> <li>▪Relocate intake</li> </ul>
1-4	DWR owned diversions	▪Loss at unscreened diversions (check to confirm that unscreened diversions in the Delta are not being used)	3	0	X	0	0	<ul style="list-style-type: none"> <li>▪Install fish screens</li> <li>▪Consolidate diversions</li> <li>▪Remove diversion</li> <li>▪Seasonal operations</li> </ul>

## Conservation Strategy - Option 1



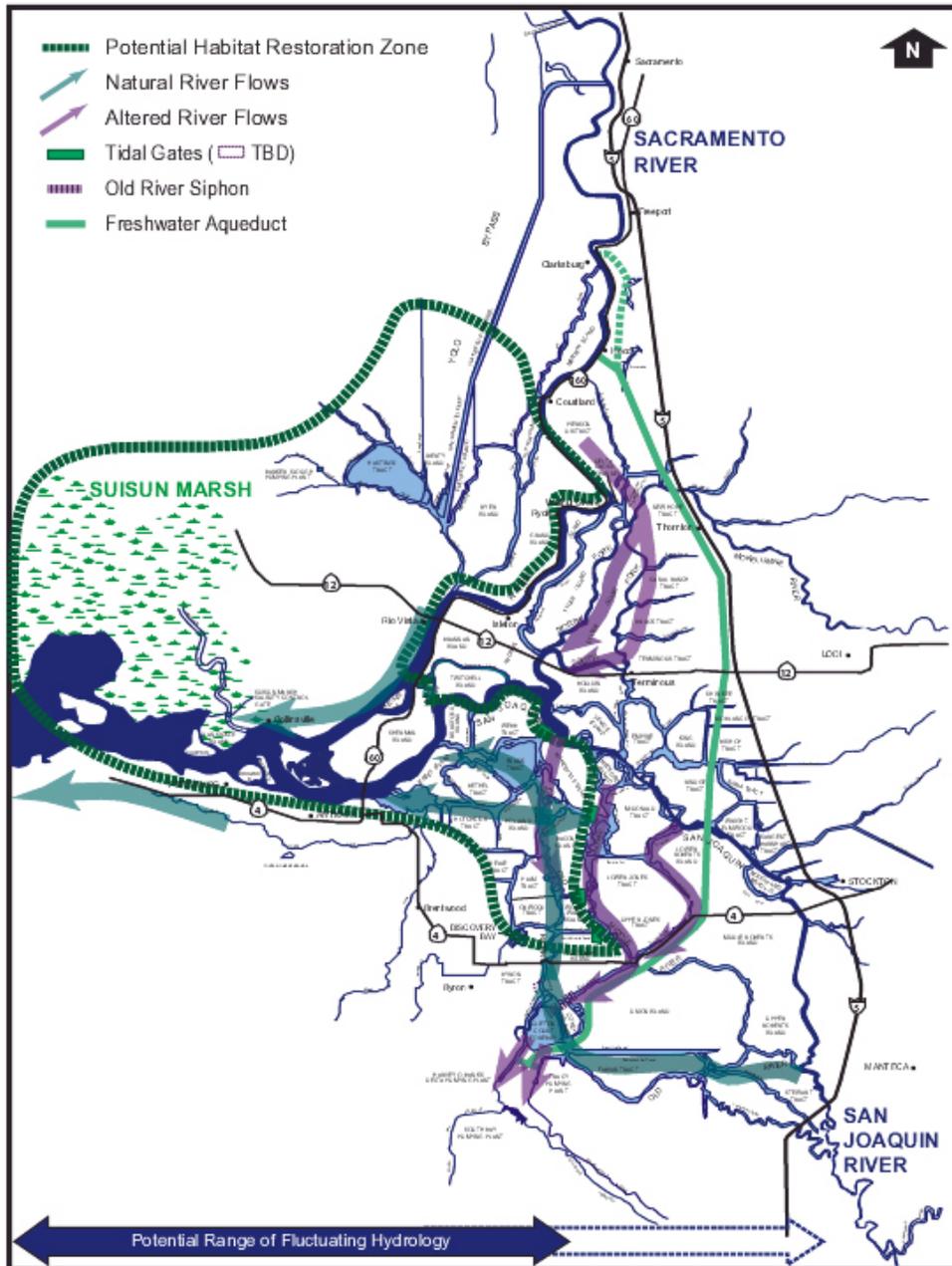
- Similar to PPIC Alternative 7 “Opportunistic Delta”
- Uses existing conveyance and pump facilities
- Operations focused on reducing take at the export facilities and improved hydrologic conditions for fish in the northern and western Delta
- Habitat restoration in northern and western Delta and Suisun Marsh

## Conservation Strategy – Option 2



- Similar to PPIC Alternative # 6 “Armored-Island Aqueduct”
- Improvement of through-Delta conveyance by the constructing operable barriers and levee improvements along Middle River
- Separating water supply conveyance flows from SJR flows with a siphon connecting Victoria Canal and CCF
- Operations focused on reducing take at the export facilities and improvement of hydrologic conditions for fish in the northern, western, central, and southern Delta
- Habitat restoration in the northern, western, central, and southern Delta and Suisun Marsh

### Conservation Strategy – Option 3



- Similar to PPIC Alternatives # 4 and 6, “Armored-Island Aqueduct” and “Peripheral Canal Plus”
- Dual conveyance facilities – peripheral aqueduct with state-of-the-art positive barrier fish screen near Hood or Clarksburg and improved through Delta conveyance as in BDCP Option 2.
- Flexibility of dual-conveyance enables reduction in take at the export facilities and improved hydrologic conditions for fish in the northern, western, central, and southern Delta.
- Habitat restoration in the northern, western, central, and southern Delta and the Suisun Marsh



# What's Next?

**Impact Analysis of the  
four CSO's**  
(July-August 2007)



**Draft Framework  
Conservation Strategy**  
(October 2007)



**Final Framework  
Conservation Strategy**  
(December 2007)

**Public  
Outreach  
&  
Public  
Scoping**

**BDCP  
Independent  
Science Input**

# Questions?

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