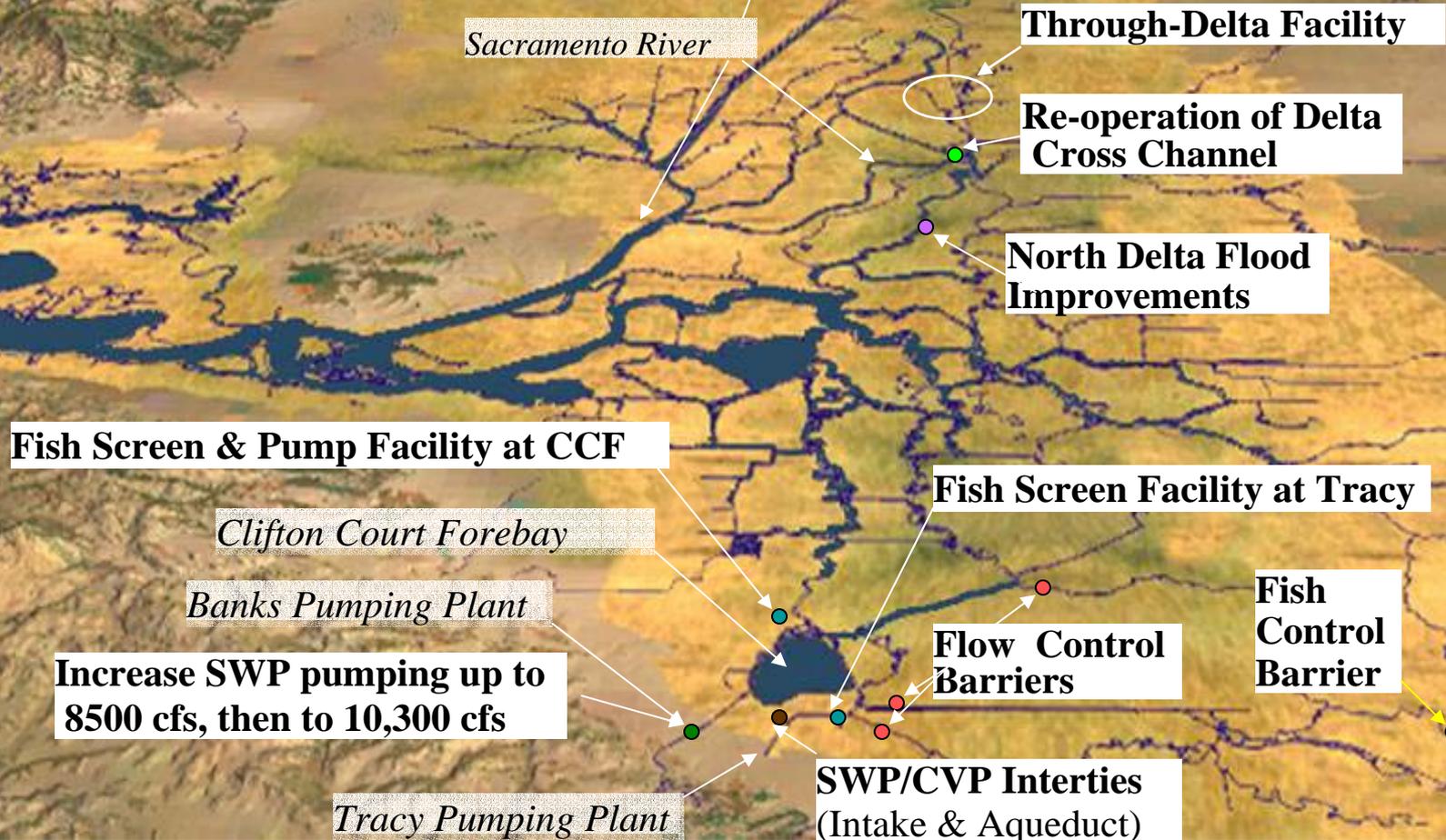


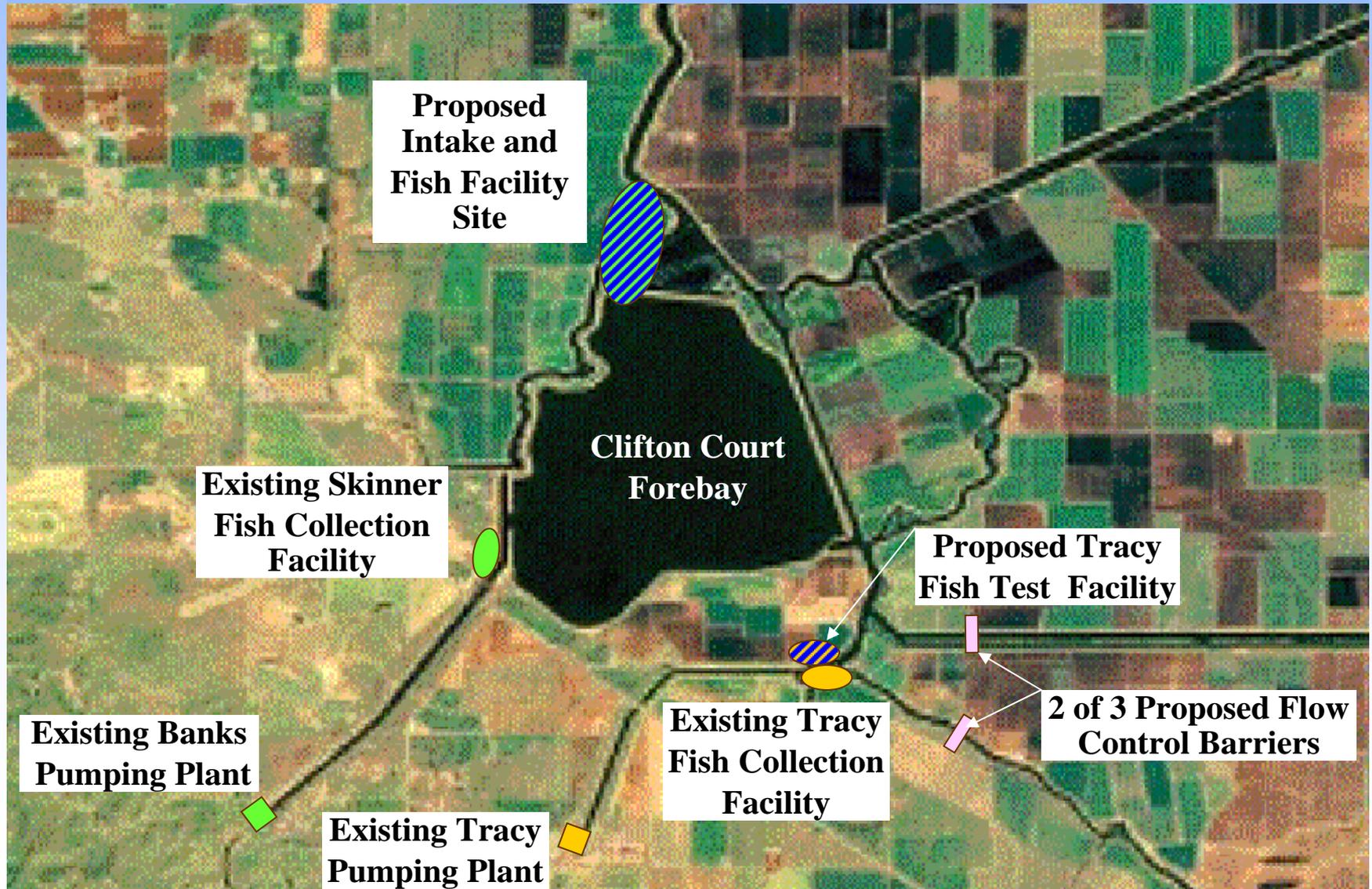
# Information on the CALFED Conveyance Program Element

# Conveyance Actions in the Delta



# South Delta Actions:

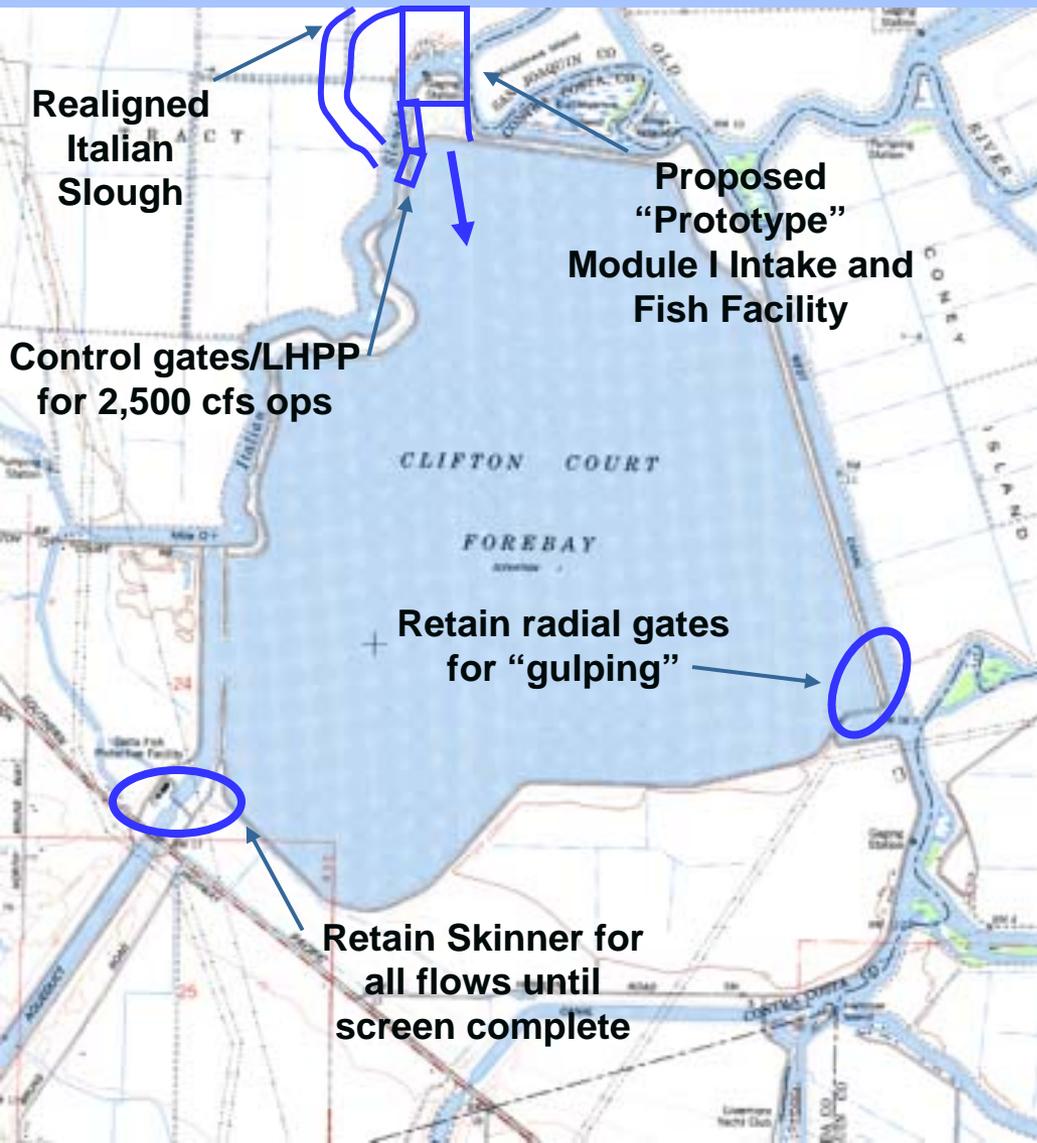
- Increase SWP pumping 8500 cfs/10,300 cfs
- Construct new fish screens at SWP & CVP Facilities



# CCF Intake / Fish Facility

# Proposed CCF Intake & Fish Facility

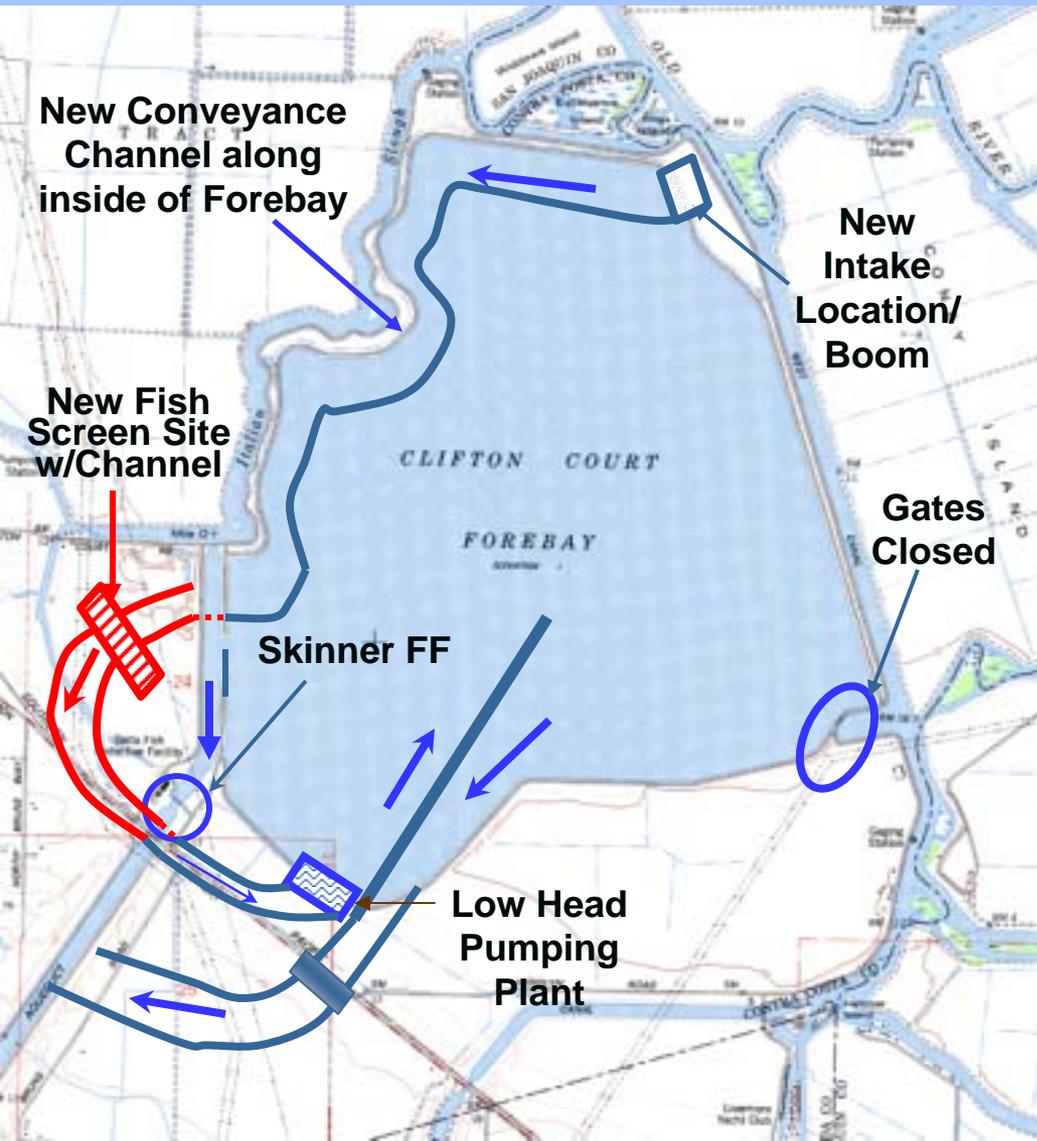
## Modular Approach - Potential Northwest Intake Site



- Original/current design concept is to build a new intake & fish facility
- Module 1 - First 2500 cfs through this facility
- Remaining flows through existing intake gates (*Note: 75% pre-screen loss through CCF*)
- Continue operation of Skinner until full buildout
- Design of module 1 based on TFTF

# Proposed Alternative CCF Intake & Fish Facility

## New Intake Channel to Existing Skinner Fish Facility



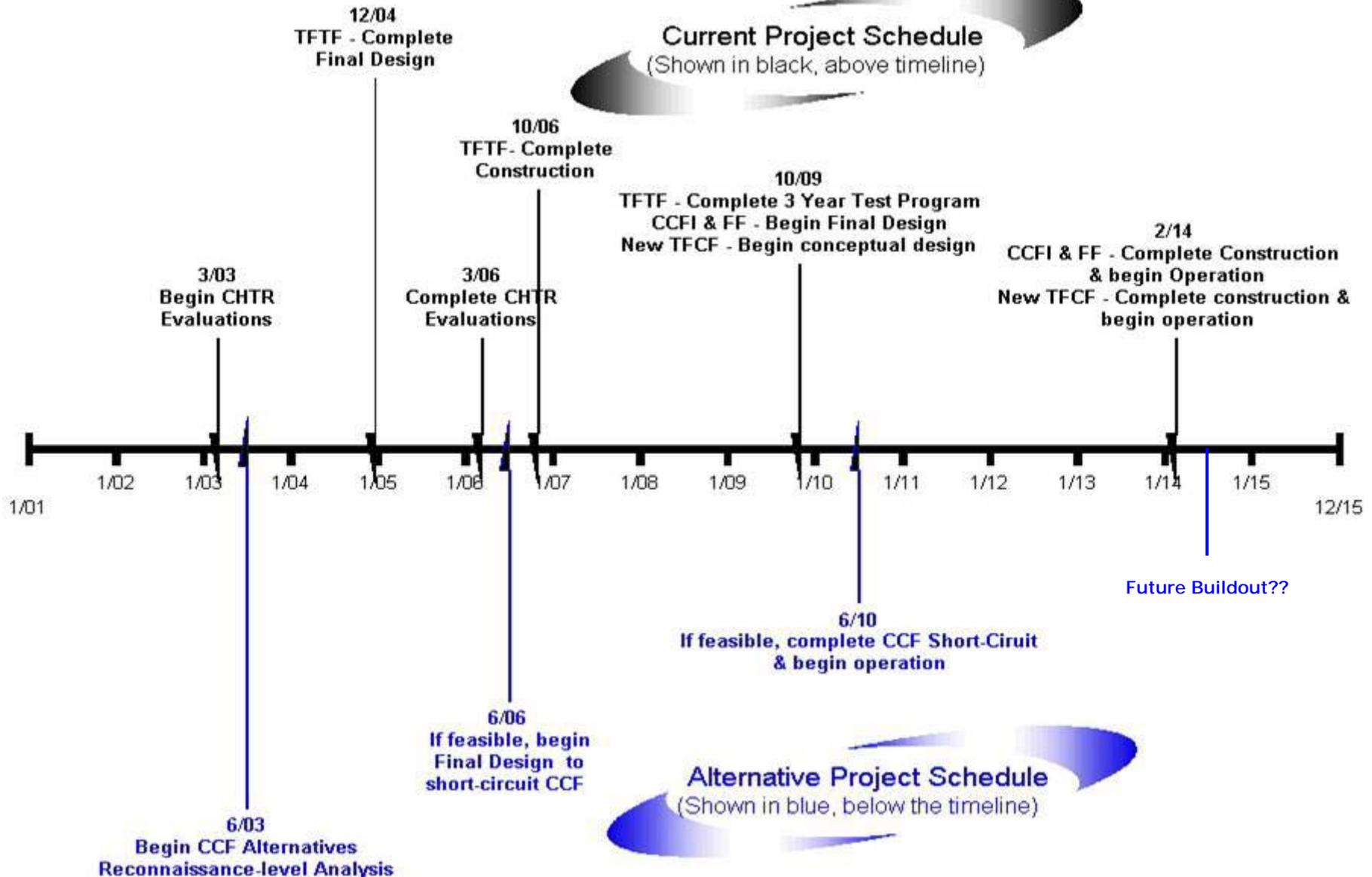
- New concept with new channel to existing Skinner Fish Facility with downstream low head pumping plant to CCF(Phase I)
- New fish facility modifications at Skinner to be considered in future phases (Phase II & III)
- Potential to significantly reduce the 75% pre-screen losses
- New fish facility design based on TFTF

# CCF Intake and Fish Facility Options

## Construction Cost Estimates

		<u>Stage Cost</u>	<u>Cummulative Cost</u>
		(Millions)	(Millions)
<b>Northeast Site (Module Approach)</b>			
<b>Stage 1:</b>	2500 cfs Fish Facility, 2500 cfs LHPP, Site Development (Module 1)	\$160	\$160
<b>Stage 2:</b>	Add 7800 cfs Fish Facility, 7800 cfs LHPP (10,300 cfs capacity total)	\$460	<b>\$620</b>
<b>Skinner FF Site (Short Circuit Alternative)</b>			
<b>Stage 1:</b>	New Intake Channel, 10,300 cfs LHPP, Existing Skinner	\$210	\$210
<b>Stage 2:</b>	Partial Upgrade of Holding Facilities at Skinner (5150 capacity total)	\$120	\$330
<b>Stage 3:</b>	10,300 cfs New Fish Screens and Completion of Holding Facilities (10,300 capacity total)	\$250	<b>\$580</b>

# Tracy Fish Test Facility & Clifton Court Forebay Intake and Fish Facility Timeline



# CCF Intake & Fish Facility Issues

## Infrastructure Issues

- Engineering feasibility of new alternatives
- Evaluation of water supply improvement

## Fishery Issues

- Evaluation of regulatory requirements of new intakes/positive fish screens
- Evaluation of fish losses for alternative SWP configurations

# Suggested Near-term Sdff Forum Actions

## CCF Intake and Fish Facility

- Proceed with evaluating CCF Module approach and/or alternatives in coordination with CCFTAT
- Request Science/IEP/CALFED to determine direct fish losses for proposed alternatives