

Los Vaqueros Reservoir Expansion Project

Purpose and Need/Objectives

The project objectives focus on using an expanded Los Vaqueros Project to accomplish the following:

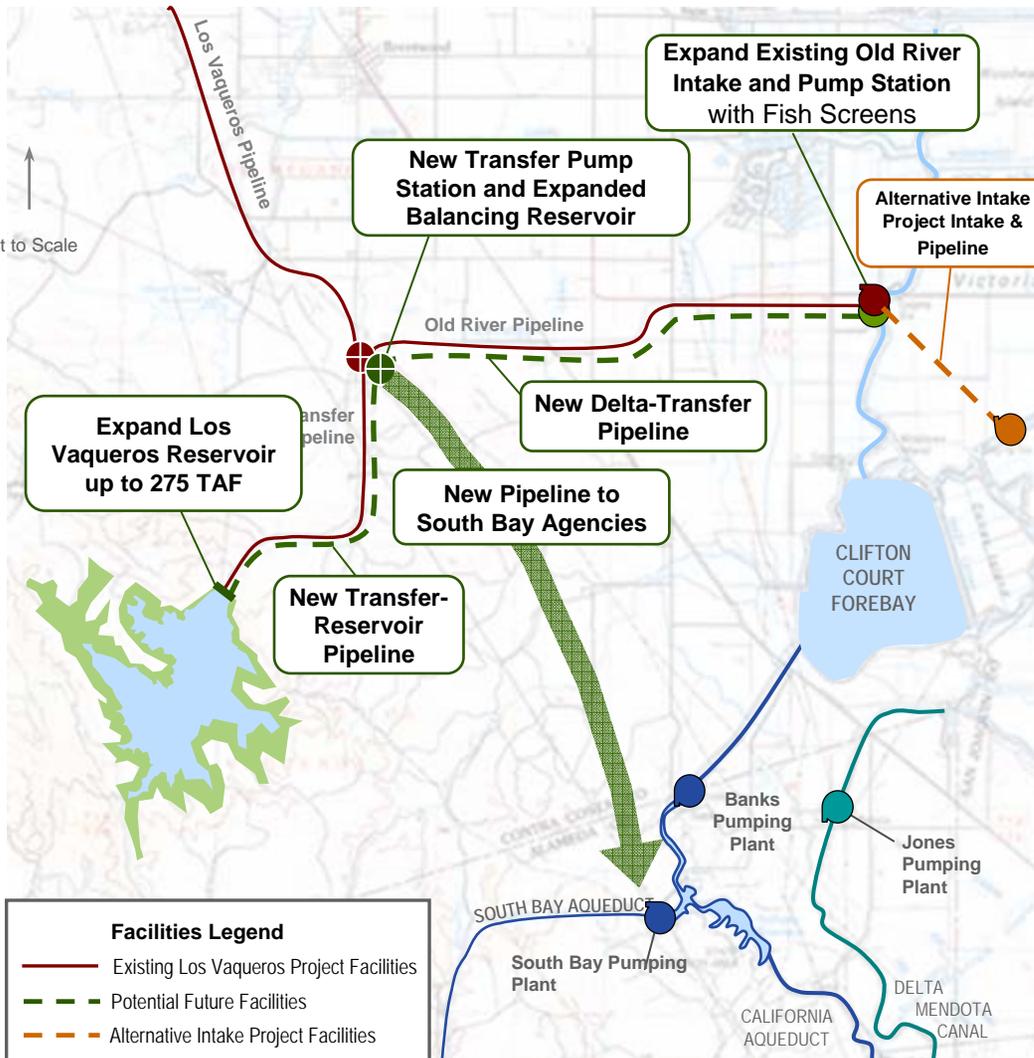
Primary Objectives:

- Develop water supplies for environmental water management that support fish protection, habitat management, and other environmental water needs.
- Increase water supply reliability for water providers within the San Francisco Bay Area to help meet municipal and industrial water demands during drought periods and emergencies and/or to address shortages due to regulatory and environmental restrictions.

Secondary Objective:

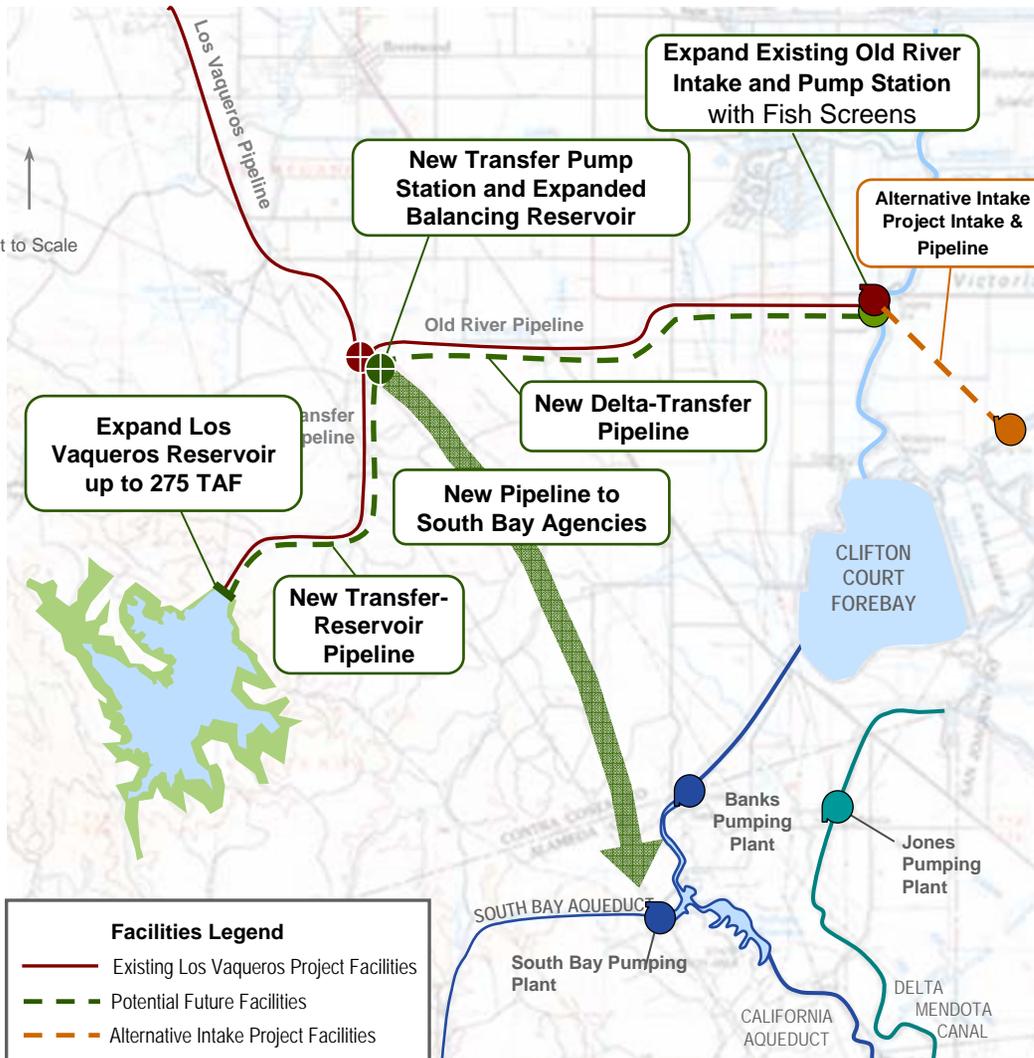
- Improve the quality of water deliveries to municipal and industrial customers in the San Francisco Bay Area, without impairing the project's ability to meet the environmental and water supply reliability objectives stated above.

Los Vaqueros Reservoir Expansion Project



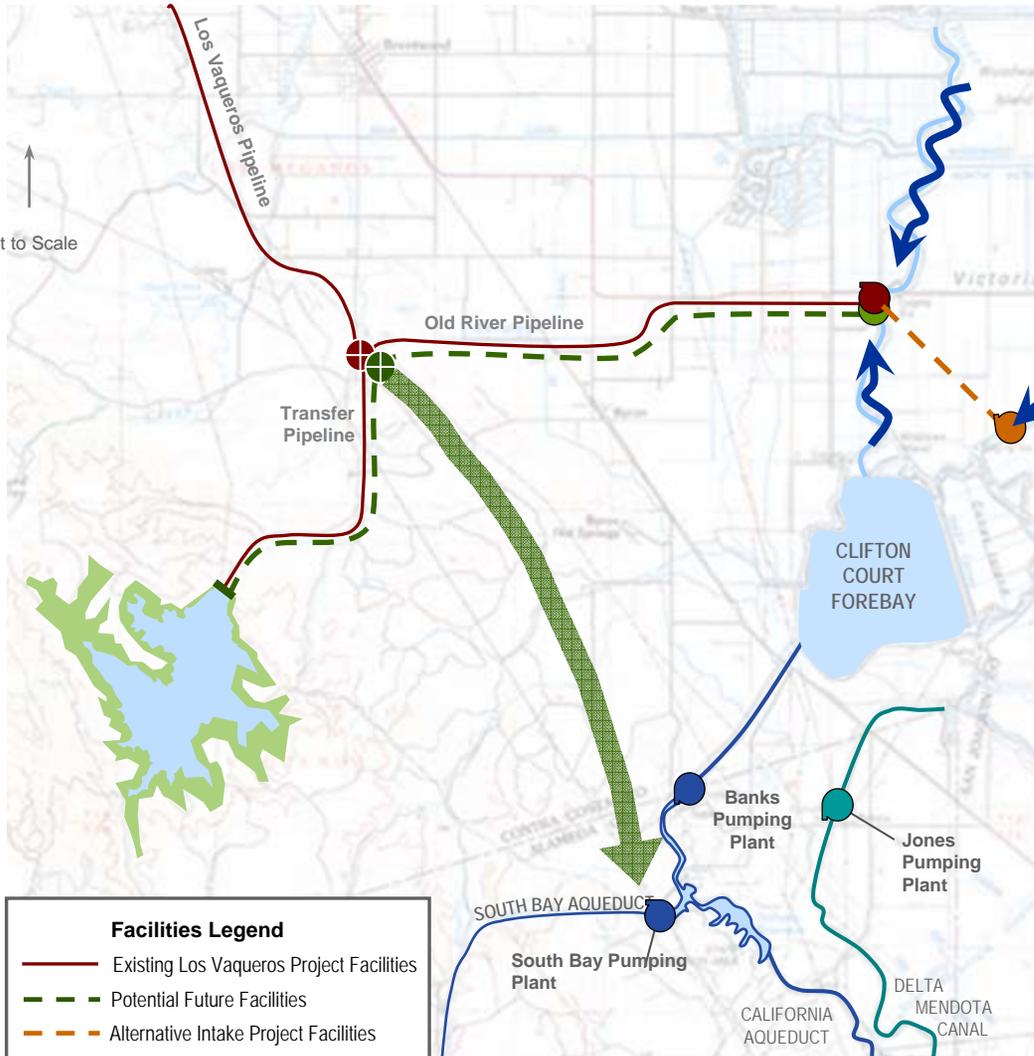
- Expand Los Vaqueros from 100,000 up to 275,000 acre-feet
- Provide for restoration of Delta ecosystem and fisheries
 - Screened deliveries to Bay Area water agencies
 - Supplies for wildlife refuges
 - Conjunctive operations with CVP supplies in Shasta and Delta fish protection
- Improve supply reliability, drinking water quality and drought supply for CCWD and other Bay Area water agencies
- Draft Environmental Impact Statement / Environmental Impact Report (EIS/EIR) will be out in Summer 2008

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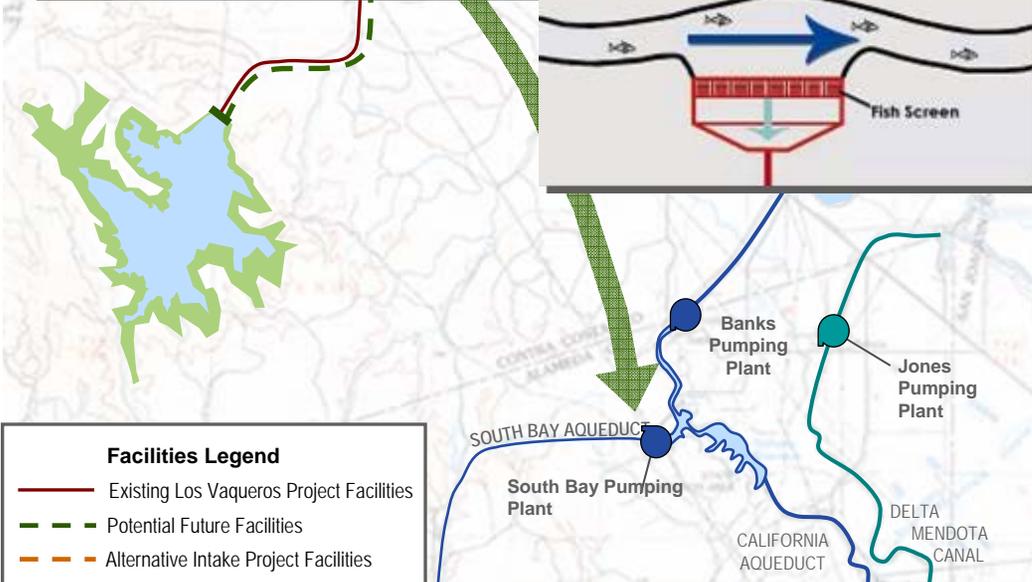
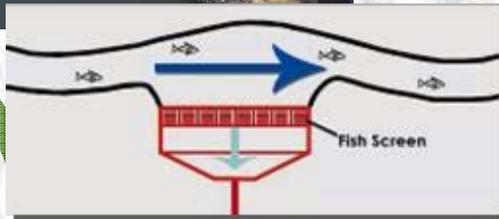
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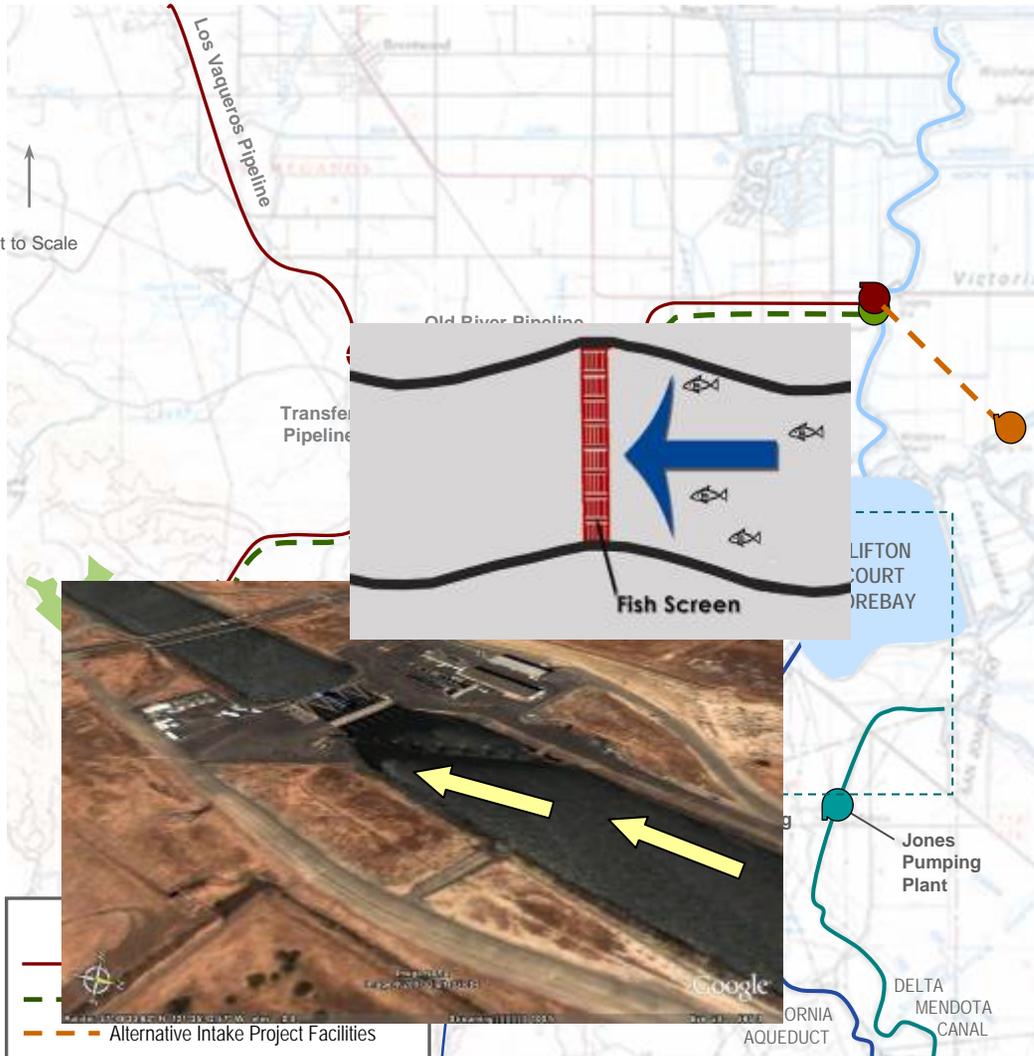
- **CCWD Intakes**
 - Existing Old River Pumping Facility
 - Alternative Intake on Victoria Canal is under construction (will provide higher quality water throughout the year)
- Old River flow can be toward or away from Clifton Court depending on time of year and operation of export pumps

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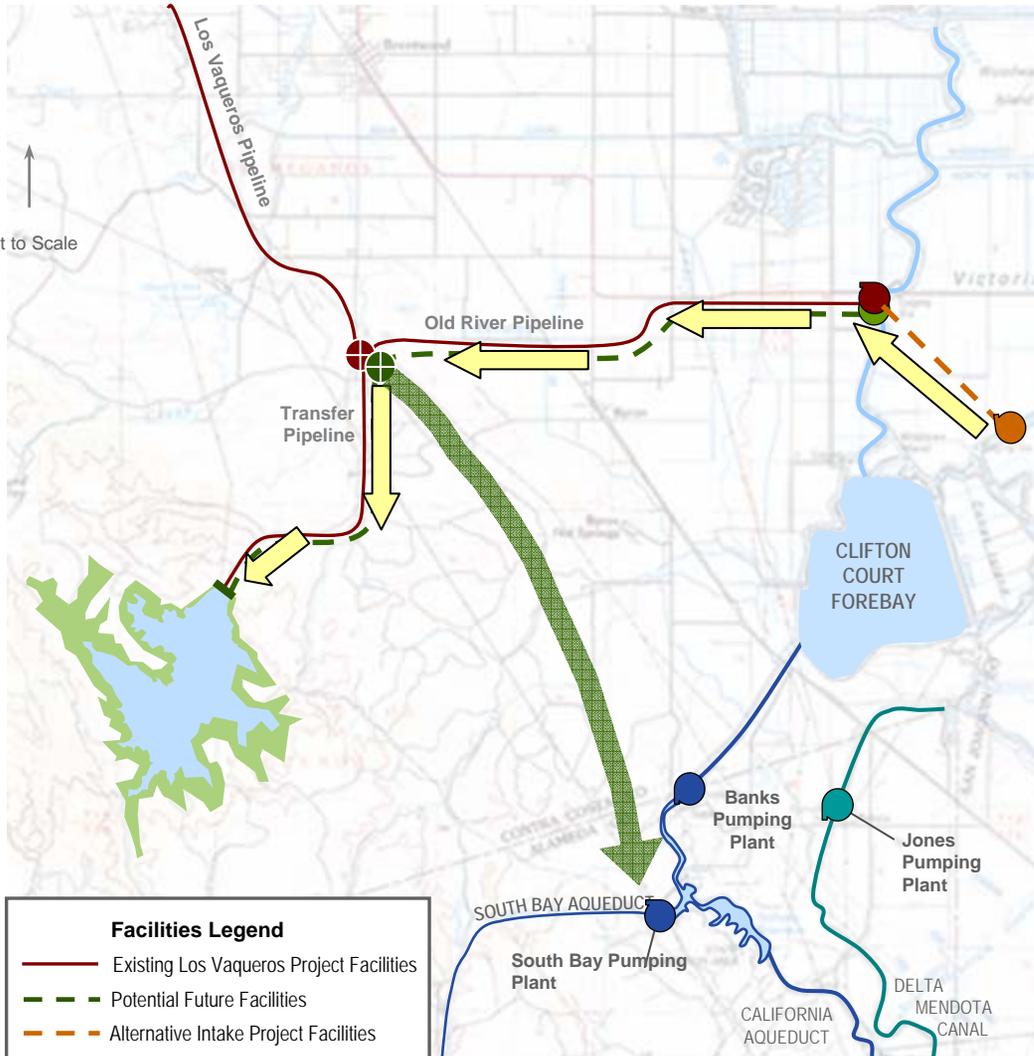
- State of the art fish screens are designed parallel to flow in Old River and Victoria Canal
- Pumps operate at low velocity allowing fish to successfully swim past screens
- Adaptive management to protect larvae
- Result: 1 delta smelt larva taken after 10 years of operation and 1 million acre-feet water pumped

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- Screens at federal and state export pumps run perpendicular to water flow
- Fish are diverted to separate facility / tanks and trucked back to locations in the Delta
- Result: high mortality seen in fish diverted at these facilities

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Operation of expanded Los Vaqueros Reservoir

- Water is pumped from Old River or Victoria Canal (depending on Delta conditions)
- Delta-Transfer pipeline carries water from the Delta, to the Transfer pump station / balancing reservoir
- Transfer-Reservoir pipeline delivers water to the reservoir for storage – released for use as appropriate

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Operation of expanded Los Vaqueros Reservoir

- Water pumped through the Delta-Transfer pipeline can also be directly diverted to:
 - Los Vaqueros Reservoir
or
 - Bethany Reservoir and then South Bay Aqueduct
or
 - Contra Costa Water District
or
 - San Luis Reservoir for use by Santa Clara Valley Water District

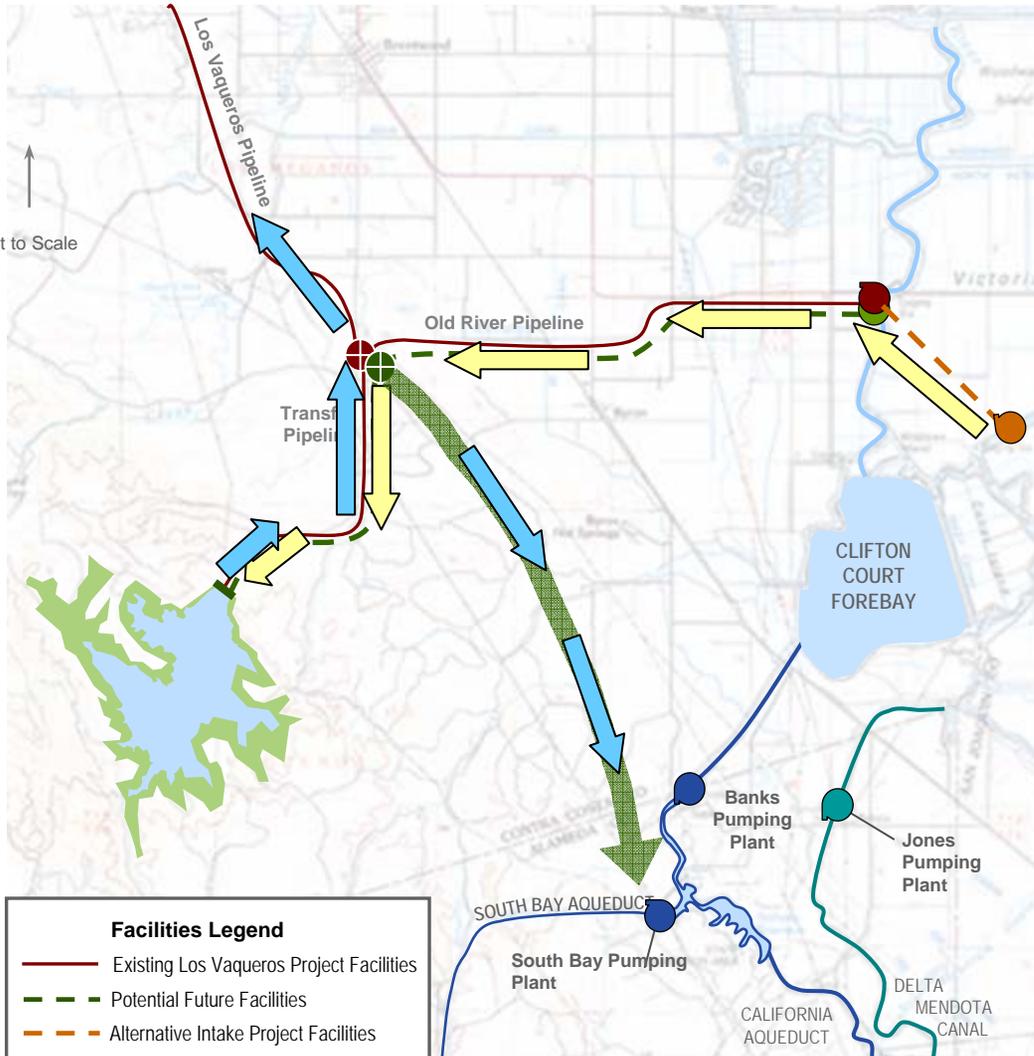
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Operation of expanded Los Vaqueros Reservoir

- Use water exchanges to supply water to San Joaquin Valley wildlife refuges
- Capture CVP water released from Shasta for fish when flows reach the lower Delta area

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Operation of expanded Los Vaqueros Reservoir

- Store water in Los Vaqueros when surplus is available
- Supply Contra Costa Water District and / or SBA agencies from Los Vaqueros when sensitive species are present

Questions?

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back-up slides

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