

The logo for the Los Vaqueros Reservoir Expansion Project. It features the text "LOS VAQUEROS" in blue, "RESERVOIR EXPANSION" in green, and "PROJECT" in green. To the right of the text is a stylized graphic of a reservoir dam or expansion structure, composed of several horizontal bars of varying heights, colored in shades of blue and green.

LOS VAQUEROS RESERVOIR EXPANSION PROJECT

A photograph of a large reservoir surrounded by rolling green hills. In the background, a line of wind turbines is visible on the horizon. The foreground shows a concrete dam structure and a road winding through the hills. The text is overlaid on the bottom half of the image.

**California Water Commission Meeting
WSIP: LVE Project Update
June 16, 2021**

Existing LV Reservoir

- Los Vaqueros (LV) Reservoir is an off-stream reservoir in Contra Costa County with a capacity of 160 TAF
- Contra Costa Water District (CCWD) operates LV in conjunction with four Delta intakes and an intertie with the East Bay Municipal Utility District (EBMUD)
- Benefits:
 - Water quality improvement
 - Drought supply reliability
 - Emergency supply
 - Delta fishery protection



160 TAF LV Dam Raise in Construction



LVE Project Components

Storage

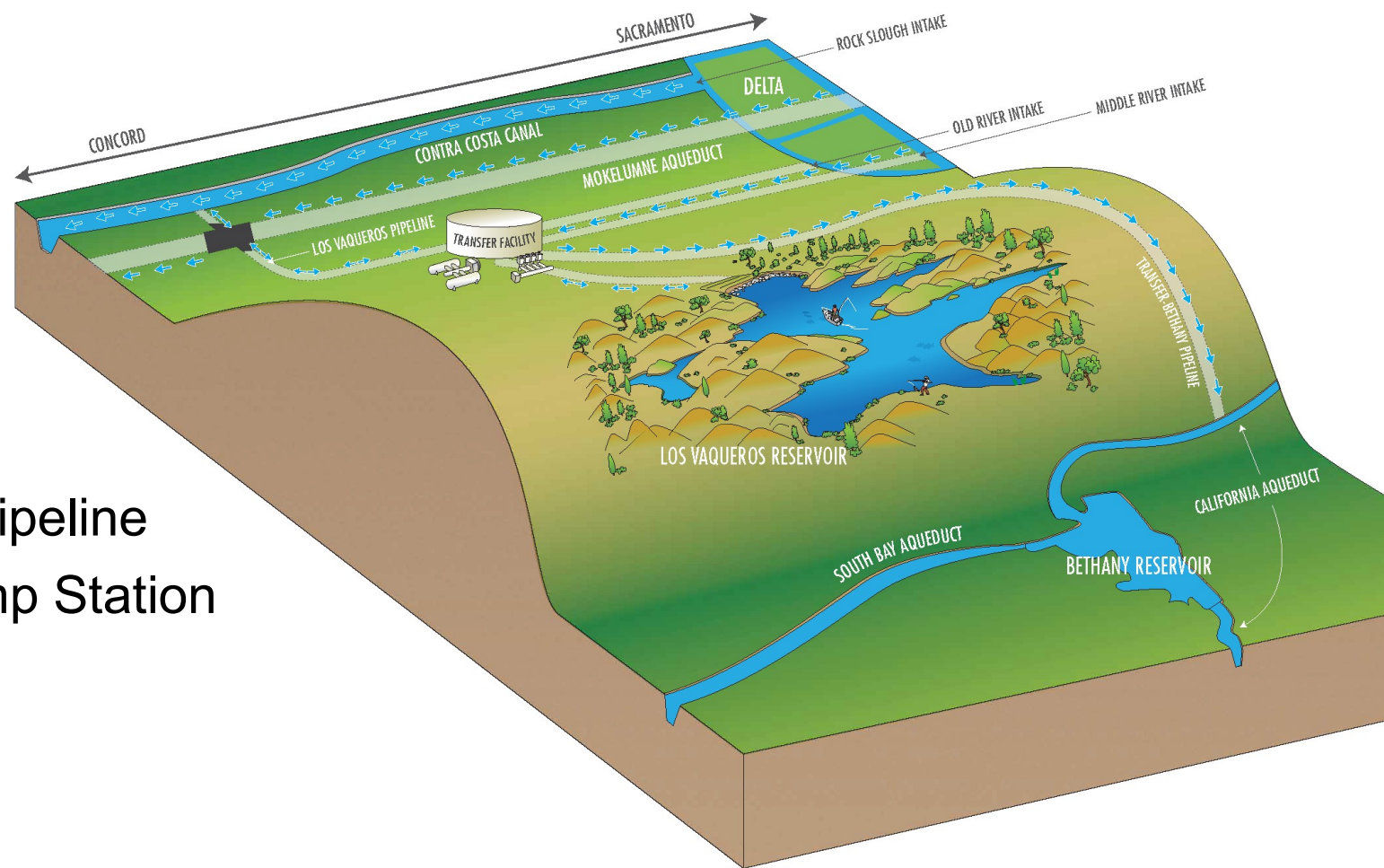
- Expand Reservoir from 160 to 275 TAF
- Upgrade Transfer Facility

Conveyance

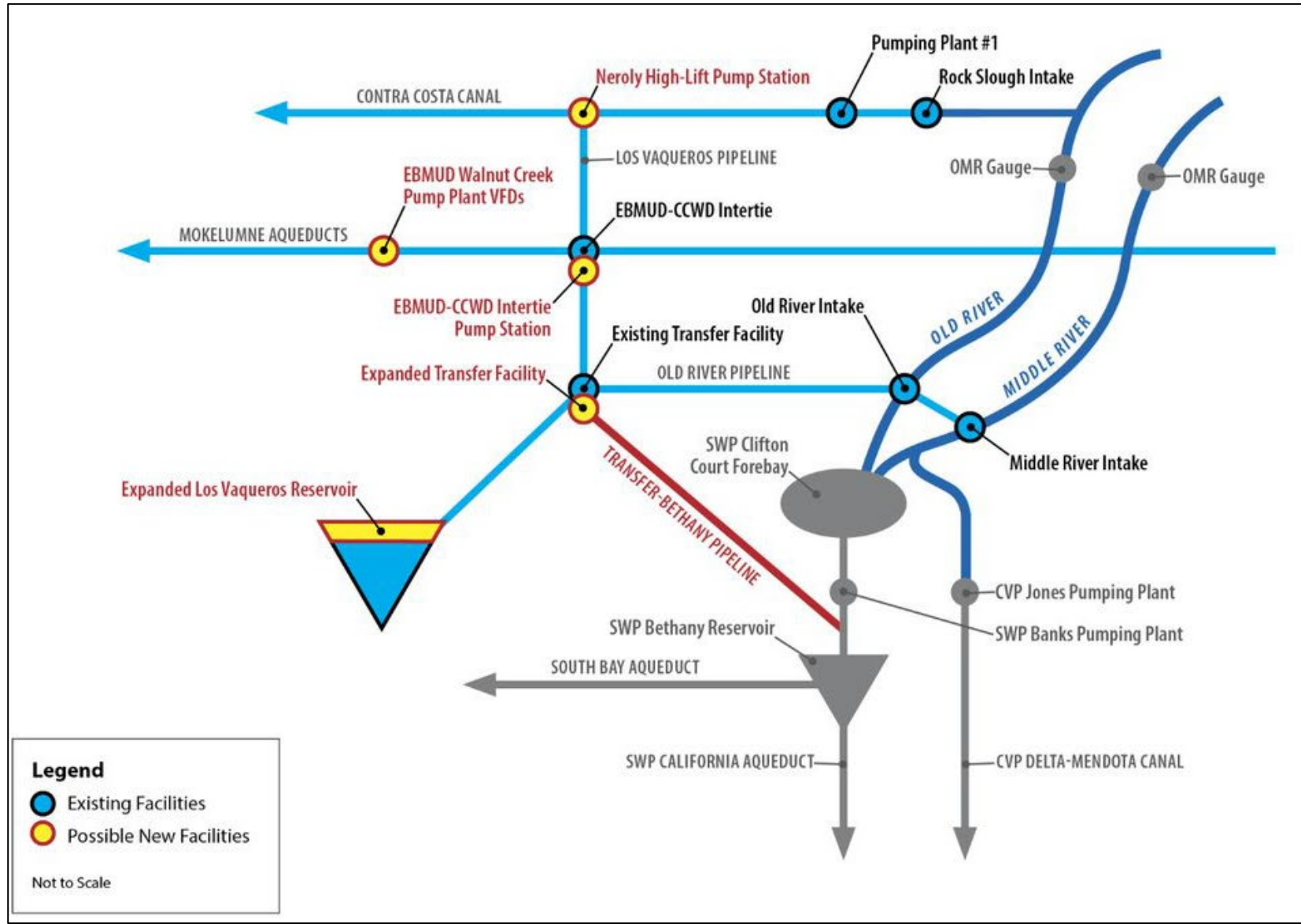
- Transfer-Bethany Pipeline
- Neroly High-lift Pump Station

Recreation

- Trails
- Interpretive Center
- Marina



Existing and New Facilities



WSIP Public Benefits

Ecosystem

- Increased water supply for San Joaquin Valley wildlife refuges
- Improved survival of salmonids migrating through Delta

Emergency Response

- Catastrophic emergency
- Drought emergency

Recreation

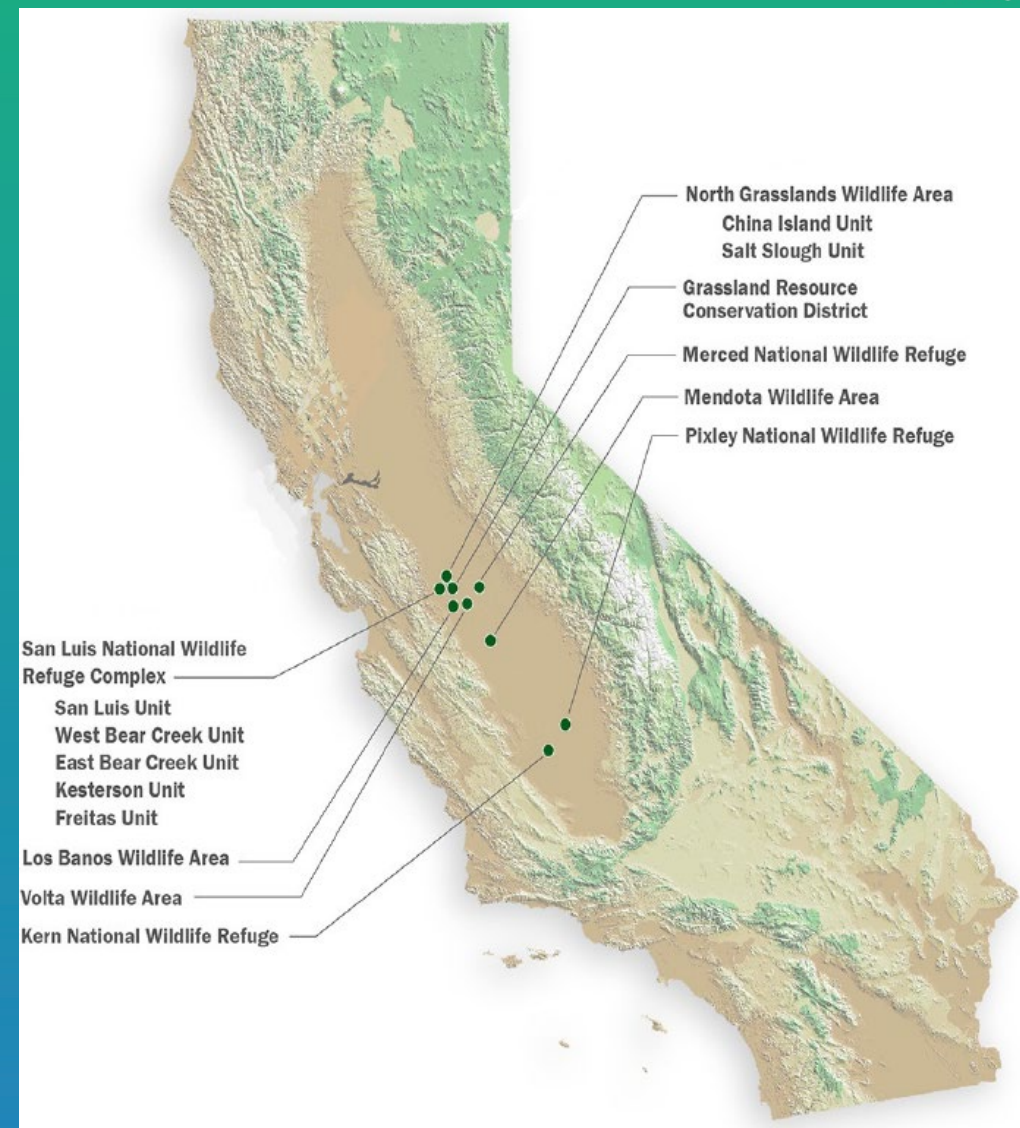
- Enhance recreation at LV Reservoir & Watershed



South-of-Delta Wildlife Refuges

Federal Central Valley Project Improvement Act (CVPIA)

- Enacted in 1992
- Identifies full demand of wildlife refuges (Level 2 + Incremental Level 4)
- Guarantees a portion of CVP water to meet a portion of refuge demand each year (Level 2)
- Does not guarantee delivery to meet full Incremental Level 4 demand



Net Environmental Benefits Provided to South-of-Delta Wildlife Refuges

Increased Water Supply

- Incremental Level 4 CVPIA refuge water (46,000 AF/year on average)
- Flexible short-term storage
- Access to Delta surplus

Increased Water Reliability

- Reduce reliance on spot market purchases
- Maximize benefits from available federal funding
- Improved operational flexibility



Non-Public Benefits

Increased Supply Reliability

- Bay Area Municipal & Industrial
- South-of-Delta CVP Agricultural

Improved Drinking Water Quality

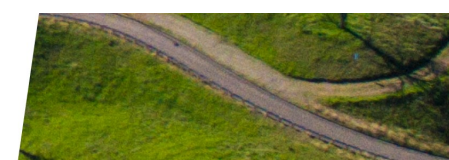
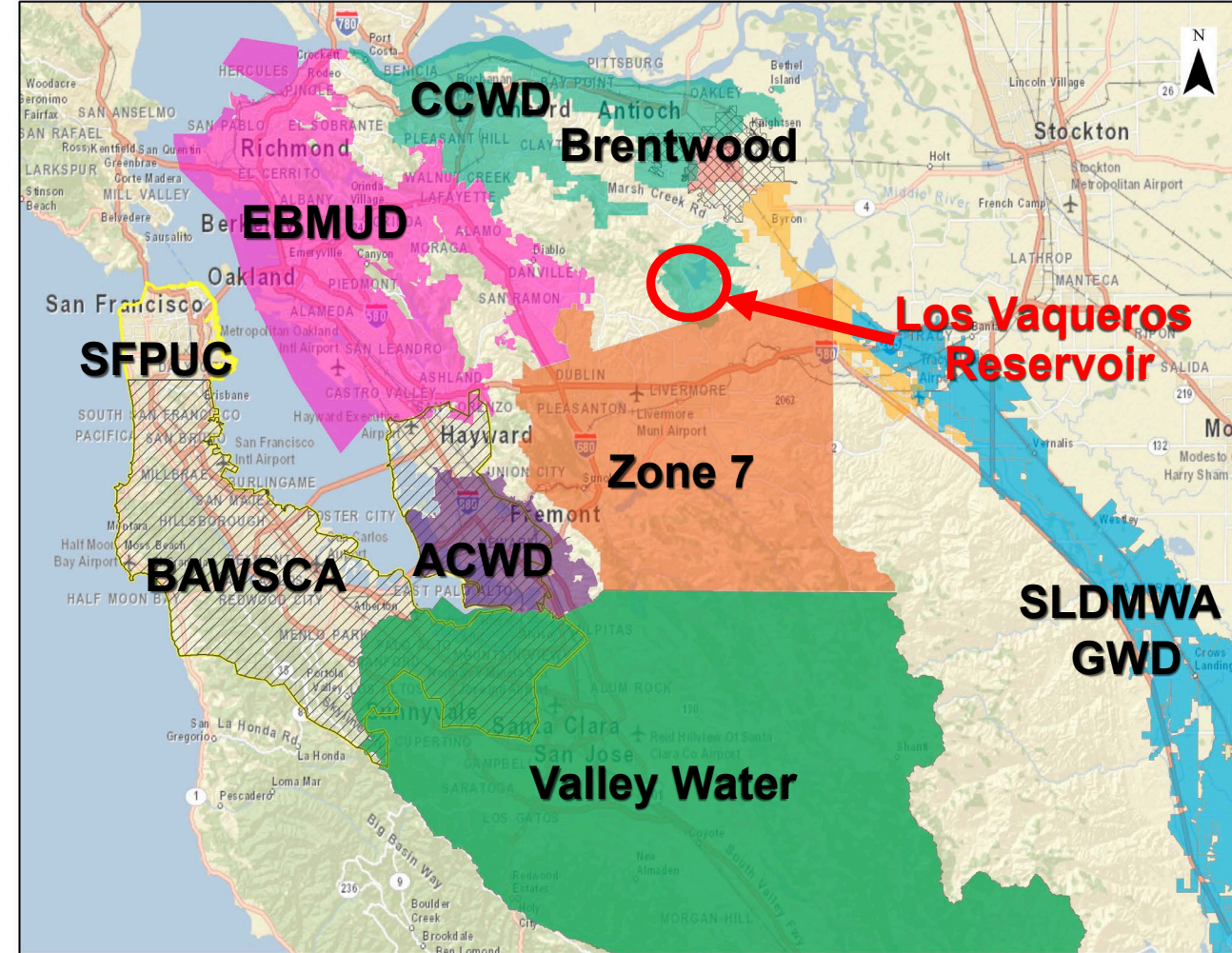
Enhanced Regional Collaboration

- Leverage Existing Facilities
- Facilitate Transfers
- Diversify Regional Supplies
- Improve Climate Change Resiliency



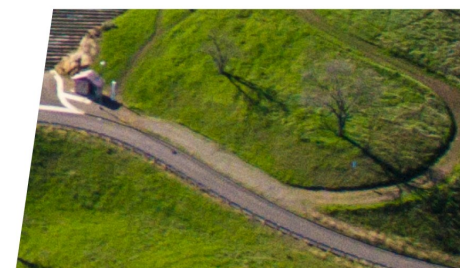
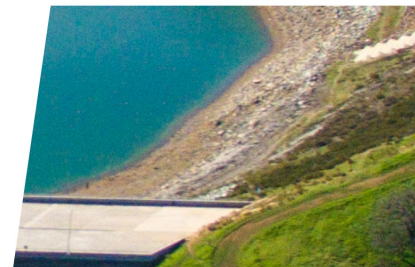
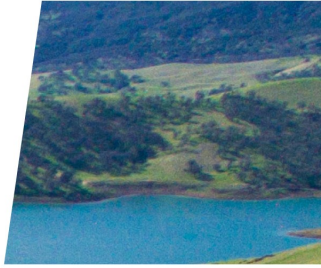
Local Agency Partners

- Alameda County Water District (ACWD)
- Contra Costa Water District (CCWD)
 - City of Brentwood
- East Bay Municipal Utility District (EBMUD)
- Grassland Water District (GWD)
- San Francisco Public Utilities Commission (SFPUC)
 - Bay Area Water Supply and Conservation Agency (BAWSCA)
- San Luis & Delta-Mendota Water Authority (SLDMWA)
 - Byron-Bethany Irrigation District
 - Del Puerto Water District
 - Panoche Water District
 - Westlands Water District
- Santa Clara Valley Water District (Valley Water)
- Zone 7 Water Agency




Los Vaqueros Reservoir Joint Powers Authority Formation

- **CCWD and Local Agency Partners are forming new JPA**
- **JPA Role**
 - Enter into contracts for administration of public benefits
 - Enter into final funding agreement with CWC
 - Finance Local Agency Partner share of construction costs
 - Coordinate partner requests for service
 - Monitoring and reporting
- **CCWD will continue to operate LVE system and provide additional services to JPA as required**



CEQA/NEPA Compliance

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- 2000 CALFED Programmatic Record of Decision (ROD)
 - 2010 Final EIS/EIR for Los Vaqueros Reservoir Expansion
 - Analyzed alternatives up to 275 TAF
 - CCWD selected alternative for 160-TAF Phase 1 Expansion
 - Evaluated timing and impacts of Phase 2 Expansion
 - 2011 Reclamation Approved Phase 1 LVE ROD
 - 2017 Draft Supplement to Final EIS/EIR
 - Refined project facilities
 - Reflects changed Delta conditions and requirements
 - Incorporated updated partner operations
 - 2020 Final Supplement to Final EIS/EIR
 - CCWD certified, and no CEQA challenges
 - 2021 Phase 2 LVE ROD anticipated by end of year

Final Feasibility Report



— BUREAU OF —
RECLAMATION

Final Feasibility Report

Los Vaqueros Reservoir Expansion Investigation



- Published in August 2020
- Secretary of Interior determined LVE Project is feasible and recommended for implementation
- Project authorization provides for federal cost sharing up to 25%
- FY21 Federal Appropriations:
 - \$10 million for pre-construction activities
 - \$ 4.1 million for construction

Permitting

- **Update existing state and federal permits**
- **Consultations/Applications Status**
 - Completed
 - Fish and Wildlife Coordination Act Report
 - Initiated/Submitted
 - January 2021 - Section 404/401 Clean Water Act
 - March 2021 - Section 106 National Historic Preservation Act
 - April 2021 - Section 7 Endangered Species Act – Terrestrial
 - April 2021 - Section 783.2 CA Incidental Take – Terrestrial
 - In Progress
 - Section 1600 Lake and Streambed Alteration Agreement
 - Section 7 Endangered Species Act - Aquatic

Design

- **LV Dam Expansion**

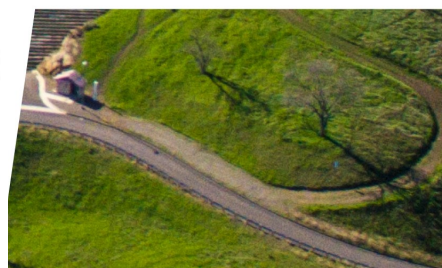
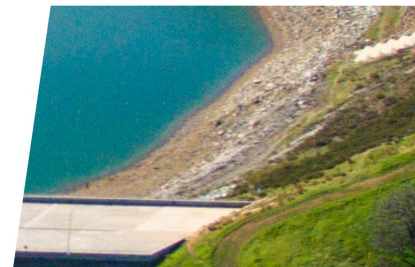
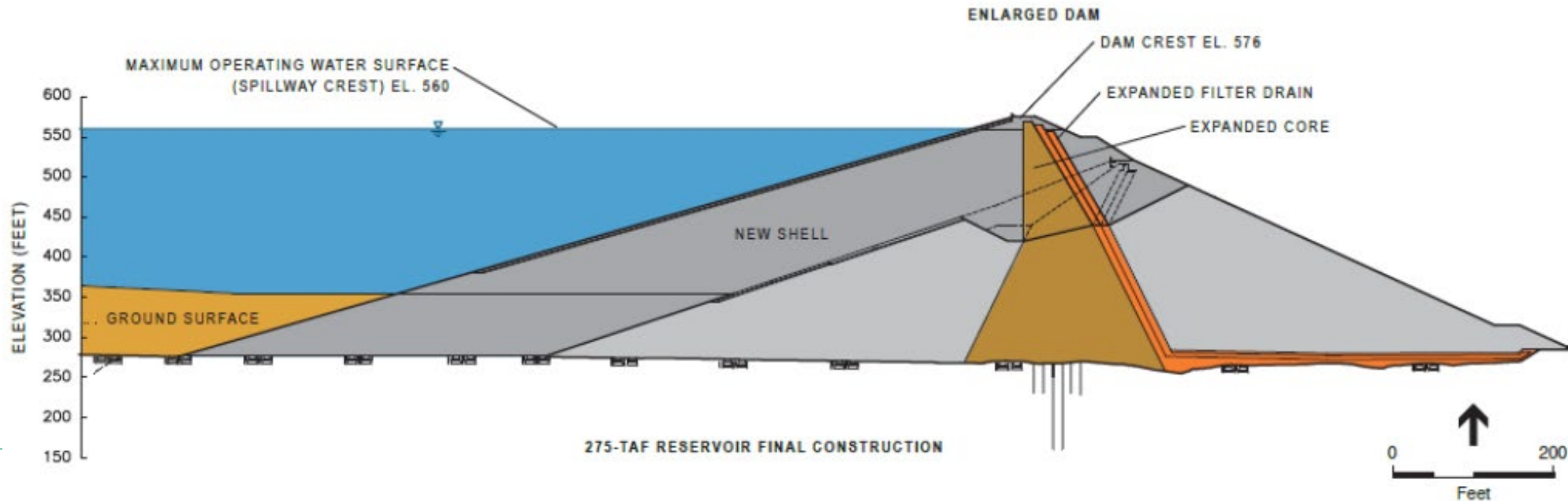
- 50% Design submitted for DSOD review

- **Contra Costa Canal Pumping Plant No. 1 Replacement**


- Completed Preliminary Design

- **Transfer-Bethany Pipeline**

- Final Design in progress

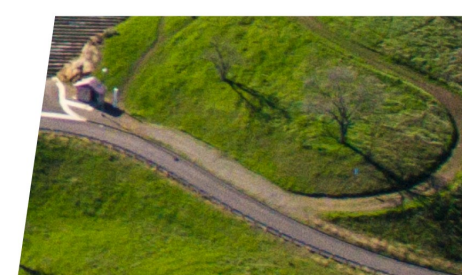
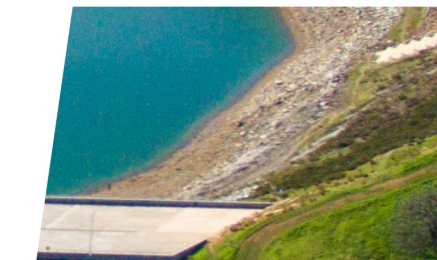
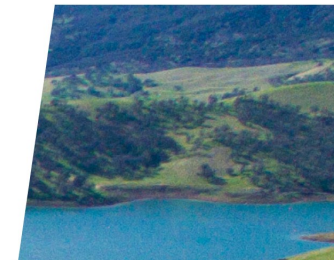
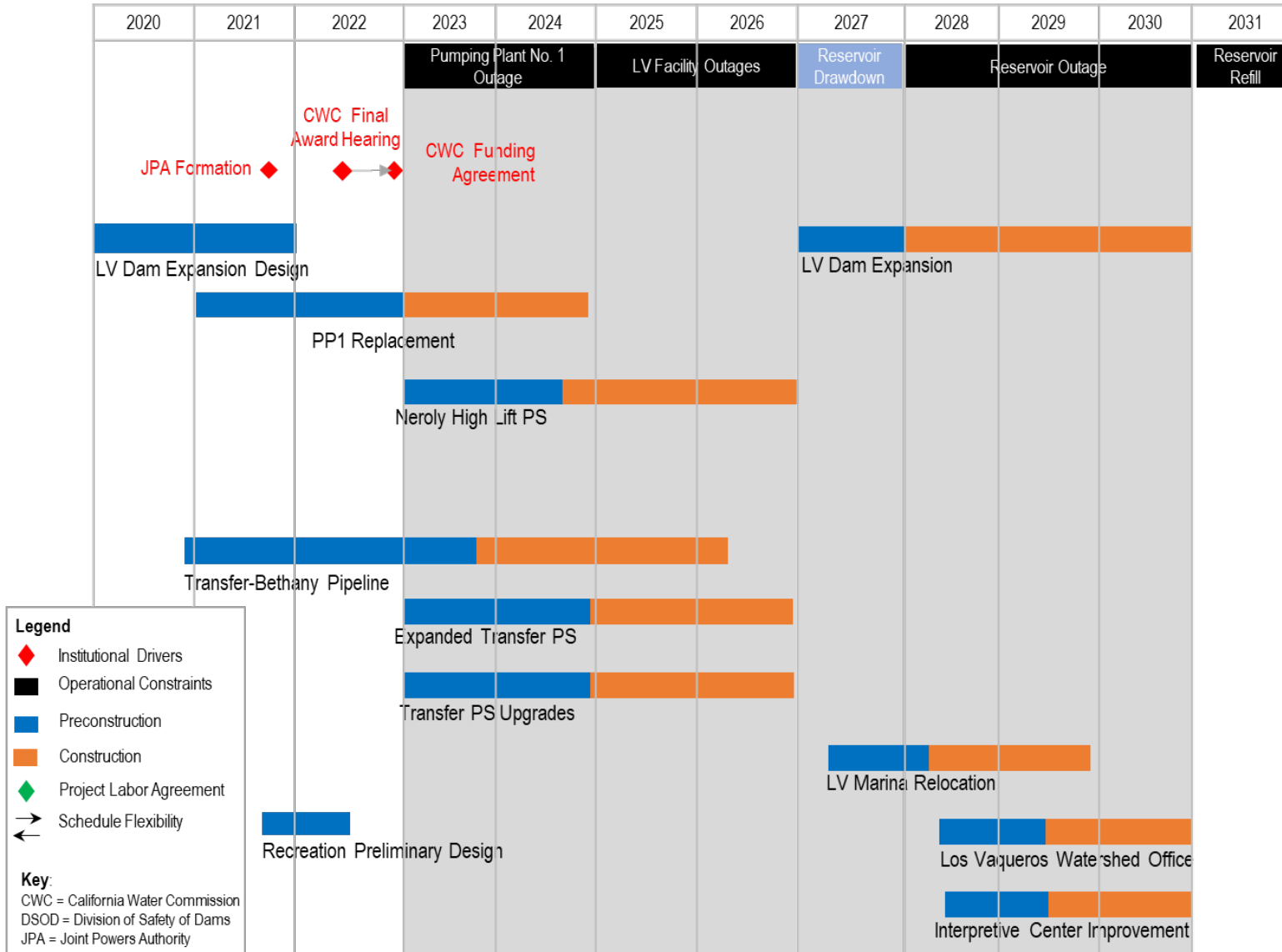


Preconstruction Schedule



Summer 2021	JPA Formation
September 2021	Meet all requirements for Prop 1 Jan 1, 2022 deadline
Spring 2022	Complete Permits
Spring 2022	Contracts for Administration Public Benefits
Summer 2022	CWC Final Award Hearing
Fall 2022	Execute CWC Final Funding Agreement

Construction Schedule



Thank You

Questions?

Project Information

www.ccwater.com/lvstudies

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