

Sites Reservoir



Our Strength is in Our Broad Statewide Participation

Sacramento Valley

Carter Mutual Water Company
City of American Canyon
Colusa County
Colusa County Water Agency
Cortina Water District
Davis Water District
Dunnigan Water District
Glenn County
Glenn-Colusa Irrigation District
LaGrande Water District
Placer County Water Agency
Reclamation District 108
City of Roseville
Sacramento County Water Agency
City of Sacramento
Tehama-Colusa Canal Authority
Westside Water District
Western Canal Water District

Bay Area

Santa Clara Valley Water District
Zone 7 Water Agency

San Joaquin Valley

Wheeler Ridge-Maricopa Water Storage District
Rosedale-Rio Bravo Water Storage District

Southern California

Antelope Valley – East Kern Water Agency
Coachella Valley Water District
Desert Water Agency
Irvine Ranch Water District
Metropolitan Water District
San Bernardino Valley Municipal Water District
San Geronio Pass Water Agency
Santa Clarita Valley Water Agency

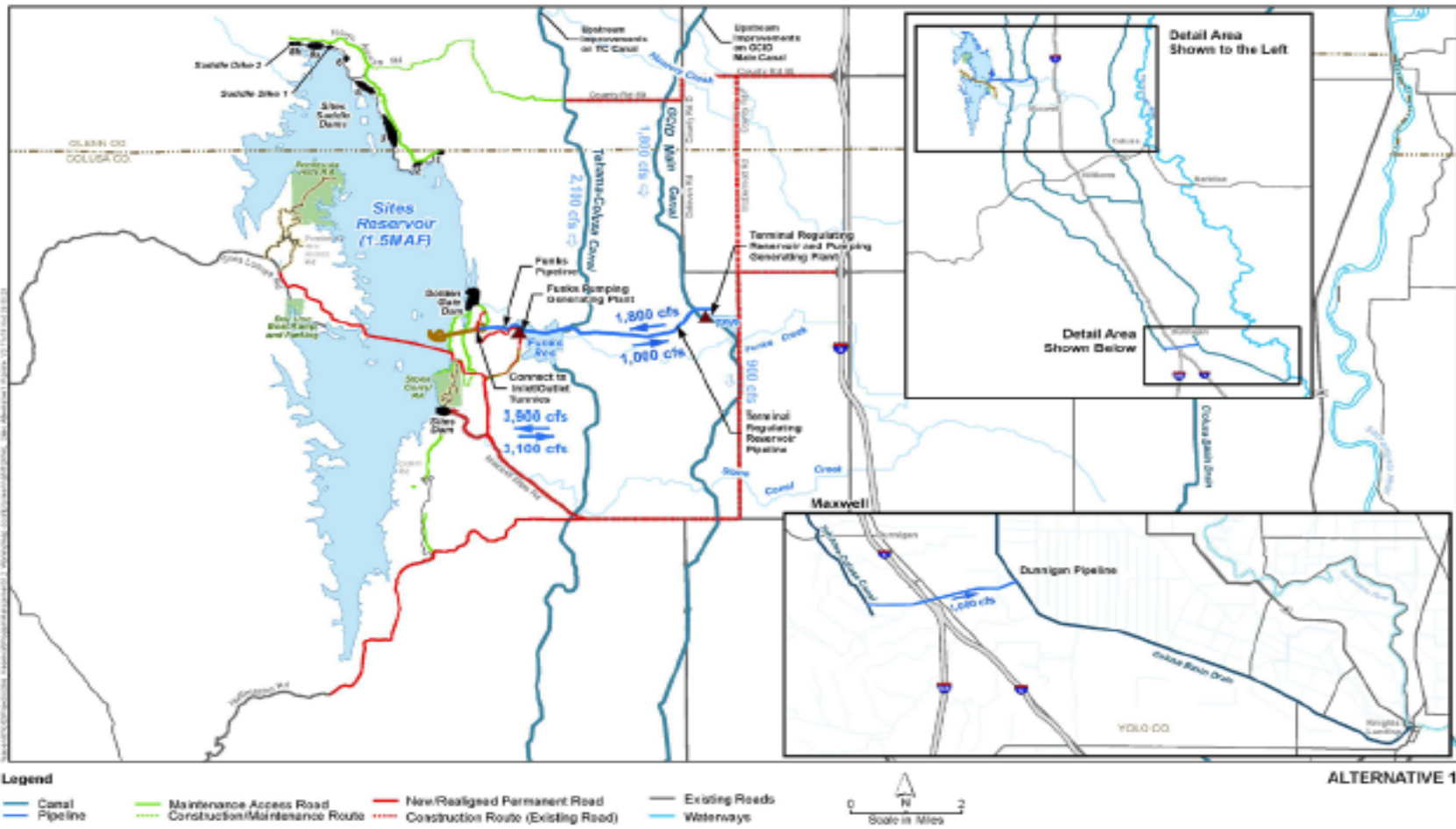


Affordable, Permittable, Buildable

Sites underwent a rigorous value planning effort that resulted in a “right-sized” project. The Sites Reservoir of today:

- ✓ Has a smaller footprint - less environmental effects
- ✓ Eliminates controversial conveyance infrastructure
- ✓ Meets the water supply needs of participants
- ✓ Is more affordable for local agencies
- ✓ Accommodates a range of federal investment from 7%-25%
- ✓ Continues to support the State’s basis of MCED
- ✓ Performs under most challenging climate change scenarios

The “rightsized” project optimize use of existing conveyance infrastructure



Provides Climate Change Resiliency

How does Sites Reservoir address these challenges?

- ✓ Captures excess flows in the Sacramento River – rain instead of snowmelt
- ✓ Off-stream storage and state of the art fish screens protect the river system environment
- ✓ Adds 1.5 million acre-feet of storage space providing water mgmt. flexibility
- ✓ Provides new, affordable water for people, farms and environment during the more frequent dry spells California will experience
- ✓ Allows other reservoirs, like Shasta Oroville and Folsom, to optimize cold water during dry periods for environmental purposes

Project performance is modeled to improve by approximately 5%-10% under anticipated climate change conditions

Provides a Resilient Supply of Water for all of California

SITES PROJECT NEW WATER SUPPLY

Year Type	Water Supply (thousand acre-feet)
Wet	80-90
Above Normal	92-292
Below Normal	190-296
Dry	398-429
Critically Dry	308-348
Long-Term Average	207-260

If we had Sites Reservoir in this 2021 drought year we estimate we would have nearly 1MAF of additional water for California's farms, cities and the environment.



State Public Benefits in Sites funded by Prop 1

Total 2018 MCED: \$816M (Rank 3)

Environmental (~67%)

Refuge Supplies - Provide a reliable supply of refuge water to improve Pacific Flyway habitat for migratory birds and other native species

Yolo Bypass - Provide water dedicated to help improve conditions for the Delta Smelt

Other Possibilities (not currently included) -
Preserve cold-water for use later in the summer months to support salmon development, spawning and rearing

Environmental Water Manager concept to flexibly manage the State's asset for optimal environmental results

Recreation (~23%)

Flood Control (~5%)



EIR Project Alternatives

Facilities / Operations	Alternative 1	Alternative 2	Alternative 3
Reservoir Size	1.5 MAF	1.3 MAF	1.5 MAF
Hydropower	Incidental upon release	Same as Alt 1	Same as Alt 1
Diversion Locations	Red Bluff Pumping Plant and Hamilton City	Same as Alt 1	Same as Alt 1
Conveyance Release / Dunnigan Release	1,000 cubic feet per second (cfs) into new Dunnigan Pipeline to Colusa Basin Drain	1,000 cfs into new Dunnigan Pipeline to Sacramento River. Partial release into the Colusa Basin Drain	Same as Alt 1
Reclamation Involvement	<ol style="list-style-type: none"> 1. Funding Partner 2. Operational Exchanges <ol style="list-style-type: none"> a. Within Year Exchanges b. Real-time Exchanges 	Operational Exchanges <ol style="list-style-type: none"> a. Within Year Exchanges b. Real-time Exchanges 	Same as Alt 1, but up to 25% investment
DWR Involvement	Operational Exchanges with Oroville and use of SWP facilities South-of-Delta	Same as Alt 1	Same as Alt 1
Route to West Side of Reservoir	Bridge across reservoir	Paved road around southern end of reservoir	Same as Alt 1

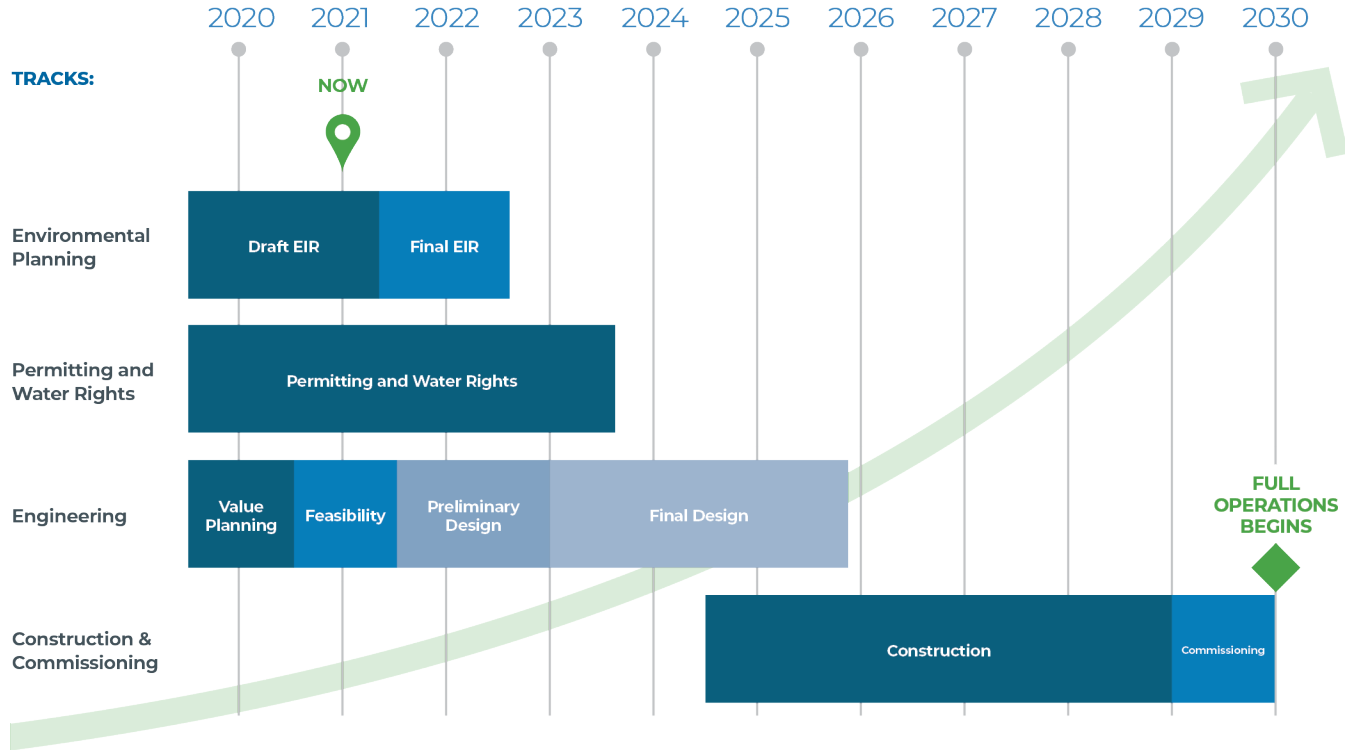
Sites has to be Affordable, Permittable and Buildable

Reservoir Size (MAF)	Alternative 1 (1.5MAF)
Total Project Cost (2021\$, billions)	~\$3.9B
Annualized AF/year release (AFY)	~230,000
Estimated Unit Costs During Repayment Without WIFIA Loans (2021\$, \$/AF)	~\$800
Estimated Unit Costs During Repayment With WIFIA Loans (2021\$, \$/AF)	~\$700

Looking Ahead

Sites Reservoir Project Schedule

Sites Reservoir Project Schedule





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