

# Agenda Item 03-01 Optimized Initial Phase 3/4 Project Schedule

Reservoir Committee and Authority Board

July 21, 2023



# Project Schedule Objectives



MANAGE COST



MANAGE RISK



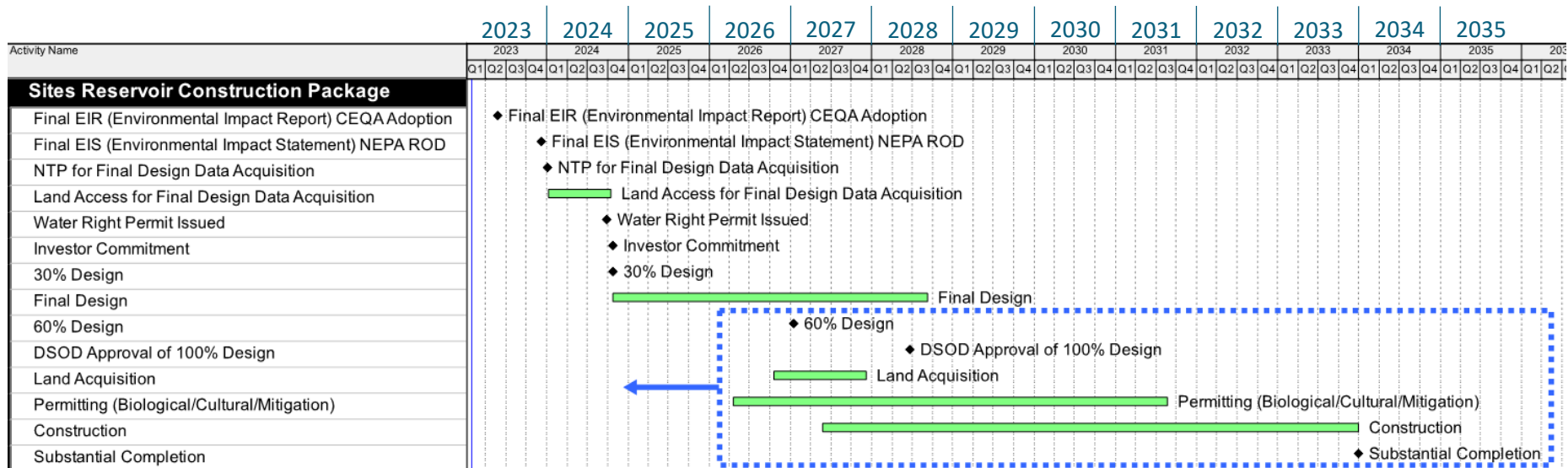
ACHIEVE  
EXPEDITIOUS  
PERMITTING  
DECISIONS



MAINTAIN  
CREDIBILITY

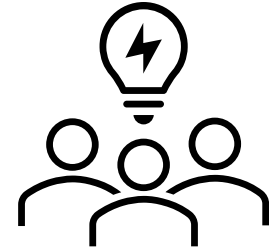
# February's un-optimized schedule showed a completion date in 2033

- Approx. 2,720 working days until "Substantial Completion"
- 601 Activities
- 1,058 Relationships
- 124 Milestones with 12 Milestones Completed
- 55 Key Deliverables with 4 Completed and 22 In-Progress



# Staff developed an optimized schedule

Developed a comprehensive list of schedule reducing opportunities



Spanning multiple disciplines and workgroups

Address time saving “trade-offs”



**The goal is to initiate operations by end of 2031, assuming a 2025 groundbreaking.**

# Schedule optimization actions

items in **green** covered in today's discussion

- Developing an Early Land Acquisition Program**
- Procure the CMAR in 2025**
- Secure with DSOD the resources needed for phased approvals
- Increase design resources**
- Securing terrestrial habitat permit mitigation strategies
- Advance design of dam precedent activities faster**
- Streamline design submittals and issue construction packages on less advanced designs and performance specifications**



# Optimized Schedule Assumptions

- Obtain Fee Title of critical project features
- Reprioritize Amendment 3 design Activities
- On-board Construction Manager at Risk (CMAR) at the start of 2025
- Benefits and Obligations Contracts executed by mid 2025

# Early Land Acquisition

- Implementation of Early Fee Title Acquisition
- Full access to critical path features
  - Golden Gate Dam
  - Sites Dam
  - Sites Lodoga Road Detour

## Benefits:

- ✓ Allows earlier access for full geotechnical investigation and commencement of foundation prep and stream rerouting (cost certainty and early start construction)
- ✓ Investigation of Value Engineering Option at Golden Gate Dam (cost savings)



# Reprioritize Amendment 3 Work

- Focus activity on higher priority work for advancing critical features
- Continue progress on activities that continue defining Level 3 cost estimate

## Benefits:

- ✓ Full geotechnical investigation on Sites and Golden Gate Dam (cost certainty)
- ✓ Development of Lodoga Bypass road to final design (early start construction)
- ✓ Advance 60 % Foundation design for Sites and Golden Gate Dams (cost certainty and early start construction)

# Reservoir Package

## Construction Manager At Risk (CMAR)

- Initiate a request for proposal for Legal service in developing CMAR Contract
- Bring CMAR on Board early 2025

### Benefits:

- ✓ Incorporate construction aspects into project design (cost savings)
- ✓ Validate cost estimating for Level 3 estimate (cost certainty)
- ✓ Position to commence critical construction activities upon Investor Commitment (early start construction)

# Benefits and Obligations Contract

- Homeboards execute contract by mid 2025
  - Based on ‘conditions precedent’

## Benefits:

- ✓ Allows financing to be available for end of 2025 (early construction start)

# Continuation of Optimization

- CMAR provides increased opportunities to continue to refine schedule through construction
- Critical path runs through Golden Gate Dam. Early work on foundation prep and stream rerouting shortens schedule
- Maxwell-Sites Pumping and Generating CMAR on boarded 6-12 months later for continue optimization on conveyance schedules.
- Investigation into other near critical float activities such as Project Power

# Next Steps

- Staff continues to analyze and optimize current assumptions in establishing the recommended Program Schedule with the Operations and Engineering Workgroup and the Land Management Committee
- **October 2023:** review and consider adoption of the recommended Project Baseline Schedule to coincide with early land acquisition plan, annual budget and updated Amendment 3 work plan



Questions?