Home Board Presentation

March 2020
Sites Reservoir Project Overview

- Will utilize surplus flows from the Sacramento River
- Water stored in an Off Stream Sacramento River Storage (1.3 – 1.5 million acre-feet)
- Primary objectives are to improve water supply and reliability for participants and environment
- Secondary objectives provide opportunities for recreation and flood damage reduction
Sites Reservoir Project Overview

- Reservoir site is largely undeveloped
- Agriculture grazing land is the primary use
- Project will maximize use of existing facilities
  - Tehama Colusa Canal
  - Glen Colusa Canal
  - Red Bluff and GCID intake screens on Sac River
  - Colusa Basin Drain
Surplus Outflows Capture Analysis

Surplus Outflows 2013-14
425,000 - 700,000 AF could be captured by new storage north of Delta

State Board Delta Outflow Standard

Delta Outflow

Analysis of the October 2013 through September 2014 drought period conducted by Metropolitan Water District.
Pivotal Benefits of Sites Reservoir

• Increases California water supply resiliency with climate change
• Portion of the storage is dedicated to environmental flow needs
• Enhances ability to capture flood flows for both Northern & Southern California
• Transfers surplus flows to times of low flow when fisheries and water quality need it most
• Provides opportunity for recreation and flood damage reduction
Key Authority Accomplishments to Date

- Named in Governor's Draft Water Resiliency Portfolio
- Reduced construction cost by over $2B through value planning process
- Leveraged your investment dollars against other State dollars. For every dollar you invested it is stretched to $1.50
- Increased certainty of permitting criteria
- Adopted Storage Policy to meet individual investor needs
- Furthered landowner and stakeholder engagement

Used additional USBR dollars to start geotech exploration
Reservoir Configuration Meets Current Participation Demands

<table>
<thead>
<tr>
<th>Member</th>
<th>Reservoir Participation (AFY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Water Agencies</td>
<td></td>
</tr>
<tr>
<td>North of Delta</td>
<td>52,142</td>
</tr>
<tr>
<td>South of Delta</td>
<td>140,750</td>
</tr>
<tr>
<td>Subtotal Public Water Agencies</td>
<td>192,892</td>
</tr>
<tr>
<td>State of CA</td>
<td>~ 40,000</td>
</tr>
<tr>
<td><strong>Total Requirement</strong></td>
<td><strong>~230,000</strong></td>
</tr>
</tbody>
</table>

Plus $6M from BOR WIIN Act and $439M USDA Loan
Key Features of the Recommended Project

- 1.5 MAF Reservoir
- 1,000 cfs release to Colusa Basin Drain (CBD)
- CBD drains to Sacramento River and Yolo Bypass
- Multi-span Bridge
- South Access Road

~$2B in Construction Cost Savings
<table>
<thead>
<tr>
<th></th>
<th>Scenario A</th>
<th>Scenario B</th>
<th>Scenario C</th>
</tr>
</thead>
<tbody>
<tr>
<td>from the Sacramento River (TAF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential Range of Average</td>
<td>175 – 194</td>
<td>225 – 253</td>
<td>264 – 292</td>
</tr>
<tr>
<td>Annual Deliveries from Sites</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(TAF)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Environmental Compliance Points

Map showing compliance points along a waterway with marked locations such as Sites Reservoir, Wilkins Slough, Freemont Weir, and Freeport Delta Outflow.
### Release Capacity from Sites Based on Year Type

<table>
<thead>
<tr>
<th>Year Type</th>
<th>1,000 cfs Release Capacity (TAF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet</td>
<td>116</td>
</tr>
<tr>
<td>Above Normal</td>
<td>286</td>
</tr>
<tr>
<td>Below Normal</td>
<td>273</td>
</tr>
<tr>
<td>Dry</td>
<td>382</td>
</tr>
<tr>
<td>Critically Dry</td>
<td>237</td>
</tr>
</tbody>
</table>

Shasta Exchange could increase the yield significantly.

**Long Term Average Annual Yield of 243,000 acre-ft**
## Affordability

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservoir Size (MAF)</td>
<td>1.5</td>
</tr>
<tr>
<td>Project Cost (2019$, billions)</td>
<td>$3.0</td>
</tr>
<tr>
<td>Annualized AF/year Release (TAF)</td>
<td>243</td>
</tr>
<tr>
<td>Range of Annual Costs During Repayment Without WIFIA Loan (2020$, $/AF)</td>
<td>$650 - $710</td>
</tr>
<tr>
<td>Range of Annual Costs During Repayment With WIFIA Loan (2020$, $/AF)</td>
<td>$600 - $660</td>
</tr>
</tbody>
</table>

Beneficiary Pays Policy would lower costs to Sac Valley Investors
Next Steps for 2020/2021

- Operations CVP/SWP Exchange Refinements
- Advancing Permitting Certainty
- Recirculation of Draft EIR/EIS
- Complete Feasibility Study
- Administer State and Federal Grants
- Continue to strengthen community and landowner relationships
- Develop Plan to advance the project past 2021

$100/acre-ft cash call takes us to the end of 2021
Planned Environmental Planning Accomplishments at End of 2021

- Finalization of the EIR/EIS Project Description Chapter, both construction and operations/maintenance of the project and alternatives
- Desk top research to update environmental baseline, where appropriate, to better support analysis and the administrative record
- Continued outreach to Landowners, Agencies, NGOs, Tribes, and other stakeholders to minimize risk of extensive comments later
- Prepare and circulate a revised Draft EIR/EIS
- Review, categorize and draft initial responses to comments received on the recirculated Draft EIR/EIS
- Prepare and submit an Environmental Summary Report to support CWC feasibility determination

We will be very close to having a final EIR/EIS
Planned Permitting Accomplishments at End of 2021

- Permits for Geotechnical exploration
- Section 401 permit application
- Section 106 Action Plan
- Water Rights application
- Updated BA and BO
- CESA Section 2081 application submitted
- Agreement on approach for 404.408 and streambed alteration agreement

We will have greater permitting certainty
Planned Engineering Accomplishments at End of 2021

- Final Feasibility Report
- DSOD buy-in on our approach
- Collecting more geotech data
- Geotech investigation plan for the entire project
- Updated cost estimate

We have already started collecting geotech data using BOR’s money

We will be ready to launch into full design at the start of 2022
Sites Reservoir Program

**Updated** 2020-2021 Schedule Drivers

### Amendment 2 High Level Schedule

<table>
<thead>
<tr>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Go/No-Go Decision Points

- **Participation Agreement Materials**: Home board package approved
- **Value Planning**: Preferred Project Facilities
- **Engineering**: Engineering to support Prop 1 Feasibility
- **Confirm Operations and Temperature Benefits**: Preferred Project Operations
- **Environmental Documentation**: EIR/EIS Response to Comments and Revisions
- **Ongoing Operations Modeling Support**: Submit to State
- **Prop 1 Feasibility Report (Env, Eng, Fin, Eco)**: State Review
- **Advance Key Permits Needed for Project Certainty**: State Validation of Eligibility
- **Water Rights**: Submit Application
- **Biological Assessment**: Submit to USFWS & NMFS
- **Incidental Take Permit (CDFW)**: Submit to CDFW
- **106 Programmatic Agreement**: Final Section 106 PA

**Note**: This graphic includes schedule drivers only and does not include all activities/deliverables. This work plan is based on current participation commitments.
Key Accomplishments at end of 2021

- Meet eligibility requirements under Prop 1 (WSIP) in order to access $XXX M
- Draft EIR/EIS with responses to comments
- Feasibility Report
- Greater environmental permit certainty and draft permit applications
- Updated and refined cost estimate and affordability analysis
- Adopted Storage Policy that can be used to meet individual investor needs
- Better definition of SWP/CVP (Shasta) exchange, including Operations Plan
- Stronger landowner and stakeholder engagement

$100/acre-ft cash call
- $60/acre-ft due Sept 1, 2020
- $40/acre-ft due Feb 1, 2021