

Attachment 1 – Project Evaluation Summary

Project	Benefits	Risks/Challenges	Expected online date
<p>San José Direct Potable Reuse – Constructs an advanced water purification facility in San José to produce purified water for potable reuse. Purified water may augment treated and/or raw water supplies.</p>	<p>Up to 24,000 acre-feet per year (AFY) of locally controlled, drought resilient supply that is critical in mitigating risks of multi-year droughts. Increase operational flexibility.</p>	<p>Requires agreements with City of San José. Public acceptance remains mixed. High capital and operational costs. Requires reverse osmosis concentrate (ROC) management solutions.</p>	<p>2033</p>
<p>Palo Alto Potable Reuse – Construct an Advanced Water Purification Facility in Palo Alto to produce purified water for potable reuse.</p>	<p>8,400 AFY of locally controlled, drought resilient supply to mitigate risks of multi-year droughts.</p>	<p>Requires agreements with Palo Alto, public acceptance remains mixed, high capital and operational costs. Requires long-term ROC management solutions</p>	<p>Currently on CIP unfunded list</p>
<p>Local Seawater Desalination – A seawater desalination project in Santa Clara County using seawater from the South San Francisco Bay. Desalinated water could augment existing treated and/or raw water supplies.</p>	<p>Up to 24,000 AFY of locally controlled, drought resilient supply that mitigate risks of multi-year droughts and improve water supply reliability. Increase operational flexibility.</p>	<p>Project currently at the pre-feasibility stage. Environmental challenges, including brine management, power needs, and permitting in the sensitive Bay environment. High capital and operational cost. Multiple regulatory permitting steps.</p>	<p>2035</p>
<p>Refinery Recycled Water Exchange – A regional recycled water project between Valley Water, Central Contra Costa Sanitary District (Central San), and Contra Costa Water District (CCWD). The project will allow Central San to provide recycled water to two oil refineries in Contra Costa County in lieu of CCWD’s Central Valley Project (CVP) water. CCWD will then</p>	<p>On average 8,500 - 10,000 AFY of imported water supply. Reduces regional reliance on the Delta. Increases regional drought resiliency.</p>	<p>Uncertainty in refinery demands and delivery of CVP supply. CCWD currently evaluating the project in their long-term plan. East Bay Municipal Utility District (EBMUD) also evaluating the project.</p>	<p>2030</p>

provide its freed-up CVP supply to Valley Water.			
Delta Conveyance Project – Modernize the State Water Project (SWP) infrastructure in the Delta by adding new facilities to divert water and upgrading the current conveyance system. The project is intended to restore and protect the reliability of SWP water deliveries and, potentially, CVP water supplies south of the Delta.	At current 3.23% participation level, the project could provide on average 14,000 AFY of water supply benefits to Valley Water. It will help secure existing Delta-conveyed supplies, and improve access to transfer supplies and quality of imported water supplies.	Implementation complexity, long-term operational uncertainty, active public opposition due to environmental concerns, and long-term financing uncertainty.	2045
Sites Reservoir – A proposed off-stream water supply reservoir north of the Delta to provide new water supply by capturing flood flows from the Sacramento River. The project would be operated in coordination with the SWP and CVP.	Valley Water is assuming 2.7% participation level in the portfolio analysis, which could potentially provide dry year yield of around 9,200 AFY and 37,000 AF of storage. It also offers access for transfers and lease/purchase of additional storage.	Public opposition, requires through-delta conveyance, future regulatory changes. Project is currently fully subscribed.	2032
Pacheco Reservoir Expansion – Enlarges Pacheco Reservoir from about 5,500 AF to 140,000 AF and connects the reservoir to the Pacheco Conduit. The reservoir plans to be filled with natural inflow and imported (CVP and/or SWP) supplies. The project is currently moving toward 60% design.	Locally controlled, provides emergency storage with no annual carryover storage limit, downstream benefits for threatened fish, manages water quality impacts from San Luis Reservoir, diversifies Valley Water’s storage program, captures and stores CVP Section 215 and SWP Article 21 water when available, and increases operational flexibility. Grant funding.	Public opposition, rising cost, environmental impact on cultural resources, difficulty in securing partners, and increased long-term environmental commitments.	2035
Los Vaqueros Expansion – Expand Los Vaqueros Reservoir storage from 160,000 to 275,000 AF and build the Transfer-Bethany Pipeline to connect the	Currently seeking to purchase at least 30,000 AF of dedicated storage to store imported supplies. The project can help diversify Valley Water’s storage program and	Proposed storage currently under negotiation with the project’s Joint Power Authority, CCWD maintains priority use, no guaranteed put/take	2033

reservoir to the California Aqueduct.	increase operational flexibility in conveying imported water.	timing and capacity for Valley Water, Operational and institutional complexity.	
B.F. Sisk Dam Raise – Expands the capacity of San Luis Reservoir by 130,000 AF. New capacity would be shared by Reclamation and project participants and may be operationally integrated with the CVP.	Valley Water is currently negotiating for 60,000 AF of storage for imported supplies. If secured, the storage may help diversify Valley Water’s existing storage program, capture and store CVP Section 215 and SWP Article 21 water when available, and increase operational flexibility.	Proposed storage is under negotiation. Requires moving a portion of Route 152.	2032
Out of County Groundwater Banking – Participate in one or more Groundwater Banking Programs located within the Central Valley. Semitropic Groundwater Bank contract expires in 2035 and will need to be renegotiated.	Historically among the most cost-effective options. New programs may help diversify Valley Water’s existing storage program, potentially increasing current put and take capacities.	No identified projects yet. Significant institutional, technical, and political hurdles to overcome, and potential competition with other agencies.	TBD
South County Recharge – Several projects in the South County are being evaluated, including San Pedro Ponds Improvement Project, Coyote Valley Recharge Pond, and Madrone Channel Expansion.	Increase recharge capacity and maximize use of existing infrastructure to help improve water supply reliability for South County. Increase operational flexibility in South County, help South County groundwater levels rebound from drought more efficiently.	May require landowner support. In preliminary planning phase.	2030

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