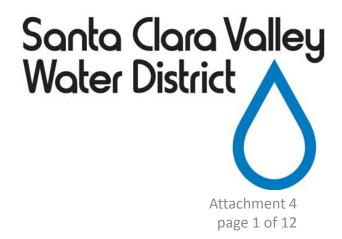
Purified Water Program Update

Board of Directors Meeting October 10, 2017



March 27, 2017 Board Work Study Session: Board's Additional Information Requests

- 1. Financial: Does the District have sufficient capacity to publicly fund all the major capital programs under consideration? Would the District's bond rating be at risk?
- 2. Cost: How do we meaningfully compare costs between the Design-Build (DB) and the Public-Private Partnership (P3) delivery methods?
- **3. Workload:** What District staffing levels would be required using a DB versus a P3 delivery method?

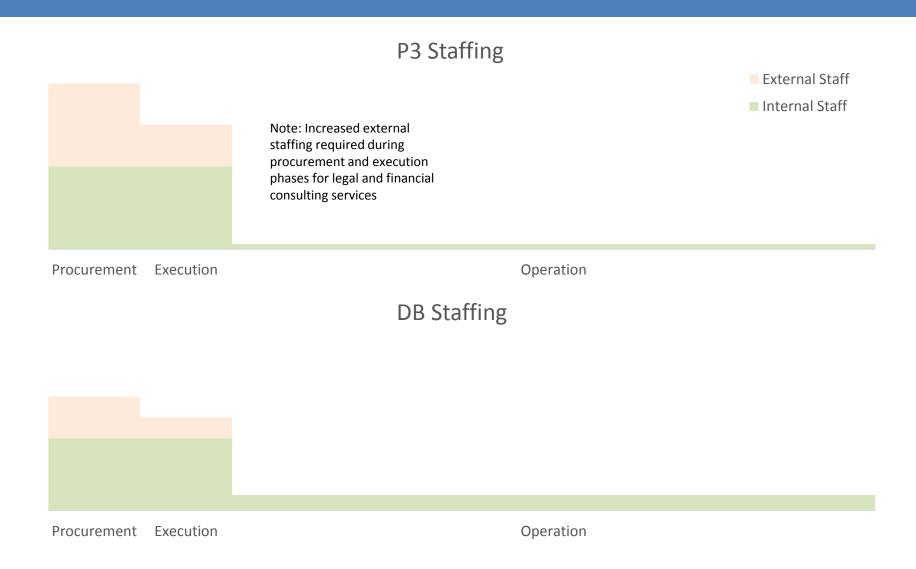
District's Financial Capacity/Credit Rating

- Capacity to fund capital program subject to Board actions to raise water rates.
- March 2017 bond ratings are excellent (Moody's: Aa1; Fitch: AA+)
- Credit rating depends on current and future financial management.
 - Debt service coverage levels
 - Reserve levels
 - Available water supply
 - Diversity of revenues
 - Liquidity
- Rating agencies silent on choice of project delivery method.
- Purified Water Program viewed as "credit positive" subject to customer acceptance of rate increases.

P3 vs. DB Cost Comparison

- Either P3 or DB may reduce costs over traditional design-bid-build.
- Cost savings highly dependent on unique project nuances and specifics of agreements:
 - DB: collaboration can save time and reduce construction change orders.
 - P3: can accelerate delivery and reduce costs w/ life-cycle management innovations. Will also incur cost for financing, procurement and oversight.
- Definitive cost comparison cannot be made at this time.

District Staffing Over Time:



Program Status – Results of Key Studies

- Water Supply Master Plan update shows at least 24,000 AFY of purified water would be beneficial by 2025, particularly to meet dry year demands.
- Any purified water project commitments should be made in the context of alternative supply sources in the Water Supply Master Plan.
- 3. Anticipated annual utilization rate of purified water for indirect potable reuse is approximately 75%.
- Purified water recharged to the groundwater basin has a very low potential of leaching naturally-occurring metals from the soil.

Program Status – Steps Towards Agreement with City of San Jose

Memorandum of Understanding (MOU) to Expand Water Purification Facility

	District Request or
Issue	Proposal
Land	~ 25 acres
Treated wastewater quantity	~ 30 MGD initial*
RO Concentrate	~ 6 MGD
Regulatory Compliance Risks	Risk-sharing?

^{* 30} MGD inflow yields approx. 24 MGD purified water

MOU Item - Treated Wastewater Quantity

- City of San Jose (City) Expansion of non-potable reuse (NPR) may be a higher priority for City's tributary wastewater agencies than potable reuse.
- City Downward trend in wastewater inflows to Regional Wastewater Facility (RWF). Will future be different?
- City After meeting NPR future demands:
 - Is there enough treated wastewater for potable reuse?
 - How much will remain for outfall discharge to Bay?
 - Outfall discharge must have adequate dilution cushion if RO concentrate sent to outfall.

MOU Item - RO Concentrate Management

- District Discharge via RWF outfall expected to be the most streamlined, cost-effective option for RO concentrate.
- District Toxicity study results: 6 MGD of RO concentrate would comply with NPDES permit limits.
- City Key concerns: regulatory risks, South Bay ecosystem impacts.
- City Awaits District evaluation of other alternatives (i.e., separate/deep outfall, evaporation ponds, engineered wetlands).

District Activities to Support MOU Resolution

- Executed Master Funding Agreement allows City staff to participate and help resolve key issues.
- RO Concentrate Management Study to be completed by end of 2018.
- Countywide Water Reuse Master Plan
 - Broader analysis of treated wastewater availability
 - Optimal allocation between potable and non-potable reuse
 - Plan completion by December 2018.
- Engaging concurrently with Sunnyvale and Palo Alto/Mt. View on potable reuse options.

MOU Delay - Implications

MOU completion timeframe is uncertain

- Program Schedule Implications of Delay
 - Allows full evaluation of options to resolve key MOU issues;
 - Provides additional time to refine Program development.
 - Provides Board opportunity to make decisions on other water supply alternatives.
 - Continued water supply vulnerability.
- Program Cost Implications of Delay
 - Costs will escalate:
 - Inflation
 - Potentially higher interest rates
 - Allows resolution of RO concentrate solution and its costs
 - CIP cost shift—may have smaller annual rate increases for delay period

Reaching Agreement with City - Next Steps

- October 19, 2017 Joint Recycled Water Policy Advisory Committee Meeting
 - Elected officials' discussion of MOU status
 - Is there political will to move forward with purified water expansion at Zanker Road?
- RO concentrate studies and Countywide Master plan to be completed Dec. 2018.