

AGENDA

NOTICE OF SPECIAL MEETING WORKSHOP

TIME: 6 p.m.

DATE: Tuesday, May 10, 2022

PLACE: Regular Meeting Place
7051 Dublin Boulevard, Dublin, CA

To allow the public the option to participate remotely during the COVID-19 pandemic, the public may listen and comment by telephone via Teams during open session as described in the Teleconference Access Information on Page 2 of the Agenda Packet.

The Boardroom is open to the public during open session. Due to the COVID-19 pandemic, meeting attendees are required to conduct a self-screening before entering District facilities. Face coverings are optional.

Our mission is to protect public health and the environment by providing reliable and sustainable water, recycled water, and wastewater services in a safe, efficient, and fiscally responsible manner.

1. CALL TO ORDER
2. PLEDGE TO THE FLAG
3. ROLL CALL – Members: Goel, Halket, Johnson, Rubio, Vonheeder-Leopold
4. PUBLIC COMMENT (MEETING OPEN TO THE PUBLIC)
At this time, members of the public in the audience and on the teleconference call are encouraged to address the Board on any item of interest that is within the subject matter jurisdiction of the Board and not already included on tonight’s agenda. Comments should not exceed five minutes. Speaker cards are available for audience members from the District Secretary and should be completed and returned to the District Secretary prior to addressing the Board. The President of the Board will recognize each speaker, at which time the speaker should introduce him/herself, and then proceed with his/her comment. Written comments of five minutes or less and received by 5 p.m. on the day of the meeting will be read into the meeting record.
5. BOARD BUSINESS
 - 5.A. Annual Long-term Water Resiliency Workshop
Recommended Action: Receive Presentation and Provide Direction
6. REPORTS
 - 6.A. Boardmember Items
 - 6.A.1. Joint Powers Authority and Committee Reports
Tri-Valley Water Liaison – April 26, 2022
 - 6.A.2. Submittal of Written Reports for Day of Service Events Attended by Directors
7. ADJOURNMENT

Teams Teleconference Access Information

Dublin San Ramon Services District Special Board Meeting Workshop Tuesday, May 10, 2022

If the public wishes to provide comments during Agenda Item 4 – Public Comment, or on any of the agenda items, please join the meeting using the teleconference instructions below, or email written comments to the Board of Directors at board@dsrsd.com by 5 p.m., Tuesday, May 10, 2022. Written comments, of five minutes or less, will be read into the meeting record during the public comment portion of the agenda or during discussion of the subject of the comment.

To Join by Phone:

1. Dial **(831) 256-7773** USA Toll from any telephone.
2. Enter Conference ID **289 193 040#** when prompted. **DO NOT PRESS ***.
3. Wait for the meeting host to admit you. If you are unsuccessful in joining, hang up and dial in again.
4. You must unmute yourself when you wish to speak by pressing *6, which is also used to mute yourself when you finish speaking.

Participation Instructions and Information:

- Stay muted unless speaking.
- Listen for prompts to know when public comments are solicited.
- You must unmute yourself when you wish to speak during Public Comment or during discussion of a particular agenda item. The meeting host can mute but cannot unmute participants.
- Announce yourself and speak slowly and clearly when commenting.

Boardmembers and staff will be attending the meeting in person.

TITLE: Annual Long-term Water Resiliency Workshop

RECOMMENDATION:

Staff recommends the Board of Directors receive a presentation on long-term water resiliency efforts and provide direction.

DISCUSSION:

In April 2021, the Board approved the Water Resiliency policy (Attachment 1) to guide DSRSD efforts to build a resilient and sustainable water future for DSRSD customers. The Water Resiliency policy emphasizes the need for collaborative partnerships, advocates for an “all of the above” approach to exploring projects that build water resiliency for the Tri-Valley, and prioritizes local and sustainable water projects that contribute to regional self-reliance. To meet the objectives of the District’s Water Resiliency policy, the District’s Strategic Plan identifies the following specific goals:

- Pursue new supplies to meet long-term recycled water demands
- Work collaboratively with our Tri-Valley partners in the development of a more diversified and resilient water supply
- Build public awareness of long-term water supply challenges and opportunities

In June 2021, the District finalized the [2021 Alternative Water Supply Study: A Framework for a Resilient and Sustainable Water Future](#) (2021 AWSS). The 2021 AWSS includes a high-level assessment of regional and local supply alternatives that DSRSD could explore collaboratively with other neighboring water and wastewater agencies. The results of the 2021 AWSS were used to develop a recommended framework that outlines near-term and long-term strategies and informs and guides DSRSD advocacy and collaborative efforts (Attachment 2).

On May 10, 2022, the Board will receive a presentation (Attachment 3) on long-term water resiliency efforts and progress made towards implementing the 2021 AWSS framework and Strategic Plan goals. The presentation will include updates on the following efforts:

- Zone 7 Long-term Water Projects – Zone 7 Water Agency is currently exploring new water supply, storage, and conveyance projects to increase the long-term resiliency of the Tri-Valley’s water supplies. The 2021 AWSS framework recommends supporting Zone 7’s efforts and advocating for continued participation in the Los Vaqueros Reservoir Expansion and Transfer Bethany Pipeline Project and evaluating Sites Reservoir in combination with Delta Conveyance.
- Regional Purified Water Pilot Project – As identified in the 2021 AWSS, the District and Alameda County Water District are studying the potential to implement a purified water pilot project. A summary of the project concept is provided as Attachment 4.
- Supplemental Recycled Water Supplies – The District is continuing to pursue opportunities to increase non-potable supplies needed to expand the recycled water program.
- Tri-Valley Water Supply Reliability Information Program – Zone 7, in collaboration with the retailers, is developing and implementing a program to educate the Tri-Valley residents and businesses on the region’s water supply challenges and potential solutions.

Originating Department: Office of the General Manager	Contact: J. Lee	Legal Review: Not Required
Financial Review: Not Required	Cost and Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Water Resiliency Policy Attachment 2 – 2021 AWSS Recommended Framework Attachment 3 – Annual Long-term Water Resiliency Presentation Slides Attachment 4 – Regional Purified Water Pilot Project Summary	3 of 69



Policy

Policy No.: P300-21-1	Type of Policy: Operations
Policy Title: Water Resiliency	
Policy Description: Provides guidance for building a resilient and sustainable water supply future for District customers	
Approval Date: 4/20/2021	Last Review Date: 2021
Approval Resolution No.: 22-21	Next Review Date: 2023
Rescinded Resolution No.: 89-15	Rescinded Resolution Date: 10/20/2015

It is the policy of the Board of Directors of Dublin San Ramon Services District to:

1. Reliably meet existing and projected water demands within the District's water service area by supplying water to meet 100% of customer water demands 90% of the time and at least 85% of customer water demands 99% of the time.
2. Collaborate with local and regional partners to build a resilient and sustainable water supply through implementation of a diverse portfolio of water supply, conveyance, and storage projects that provides flexibility to manage our water system against future uncertainties.
3. Advocate for the continued exploration and development of a broad array of projects that have the potential to improve water resiliency for the Tri-Valley, such as Bay Area Regional Desalination, Delta Conveyance, Interties, Los Vaqueros Reservoir and Transfer Bethany Pipeline, Potable Reuse, Sites Reservoir, Water Transfers, and Expanded Recycled Water Programs.
4. Prioritize the use of locally available and sustainable water supply sources and projects that contribute to regional self-reliance.
5. Advance the development of near-term water resiliency projects through local partnerships and seek grant funding to facilitate project implementation and reduce costs to District customers.
6. Support efforts by other agencies to pursue grant funding for statewide and regional projects that improve water resiliency for District customers.

Policy No.: P300-21-1

Policy Title: Water Resiliency

7. Ensure that during droughts and other water supply shortage conditions, Zone 7 Water Agency allocates water between the treated water retailers in an equitable manner that recognizes water use efficiency and investments in new water supplies that reduce potable water demands.
8. Meet the State’s long-term water use and water loss efficiency standards by promoting reasonable and efficient use of water supplies through conservation programs and water optimization tools and technologies.
9. Maximize treated wastewater effluent as a valuable water resource and minimize environmental pollution to the San Francisco Bay by recycling 100% of the flows that enter the Regional Wastewater Treatment Plant, apart from treatment residual (brine).
10. Advocate for programs to protect and enhance the quality of drinking water delivered to District customers.

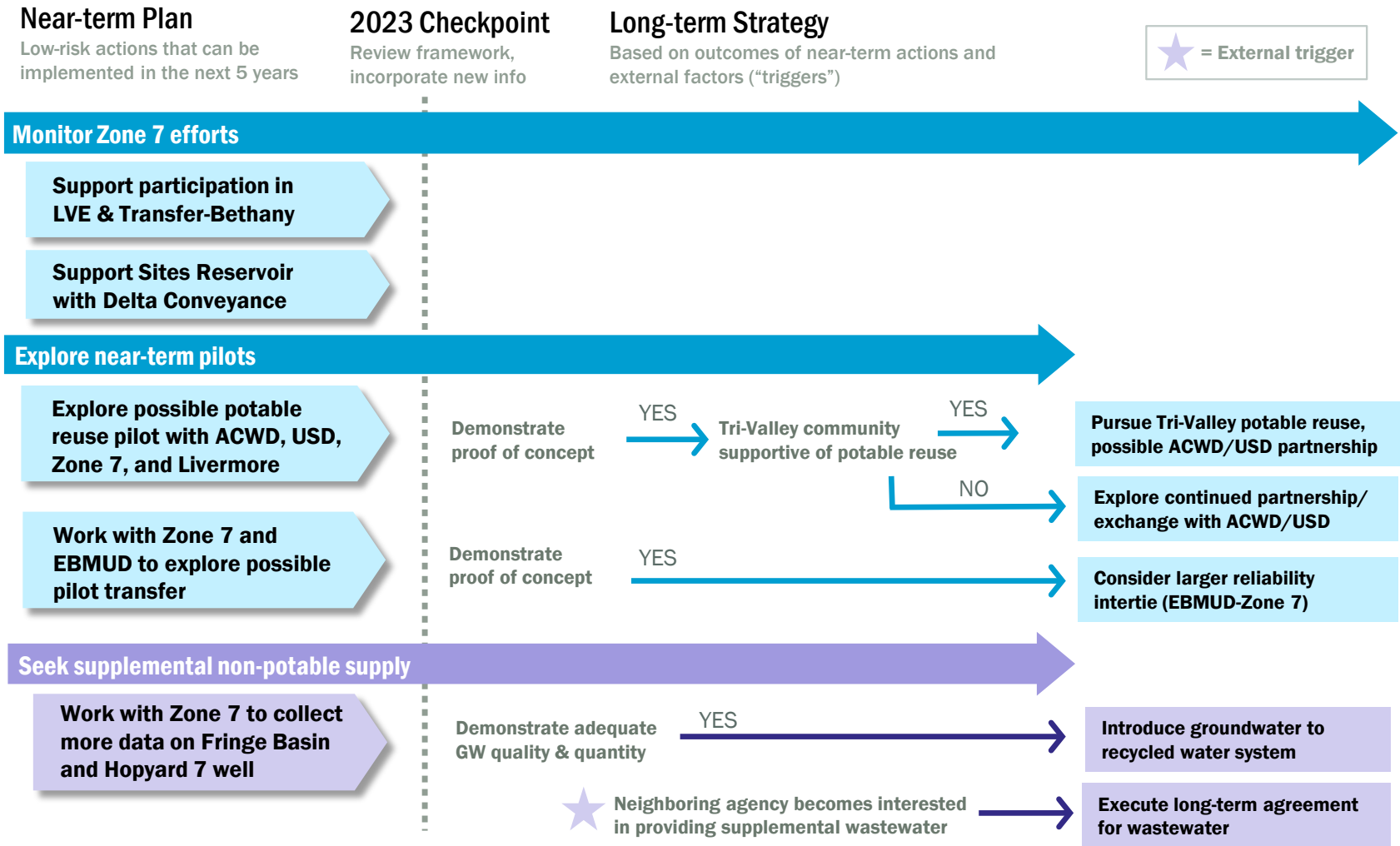


Figure ES-5. Recommended framework



Annual Long-term Water Resiliency Workshop

Board Meeting
May 10, 2022



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Agenda

- » Introduction
- » Zone 7 Water Supply Project Updates
- » Regional Purified Water Pilot Project
- » Recycled Water Supply Efforts
- » Tri-Valley Water Public Outreach Program



Dan McIntyre, DSRSD



Jan Lee, DSRSD



Amparo Flores, Zone 7



Katie Ruby, B&C

Speakers

Introduction

» Water Resiliency Policy (April 2021)

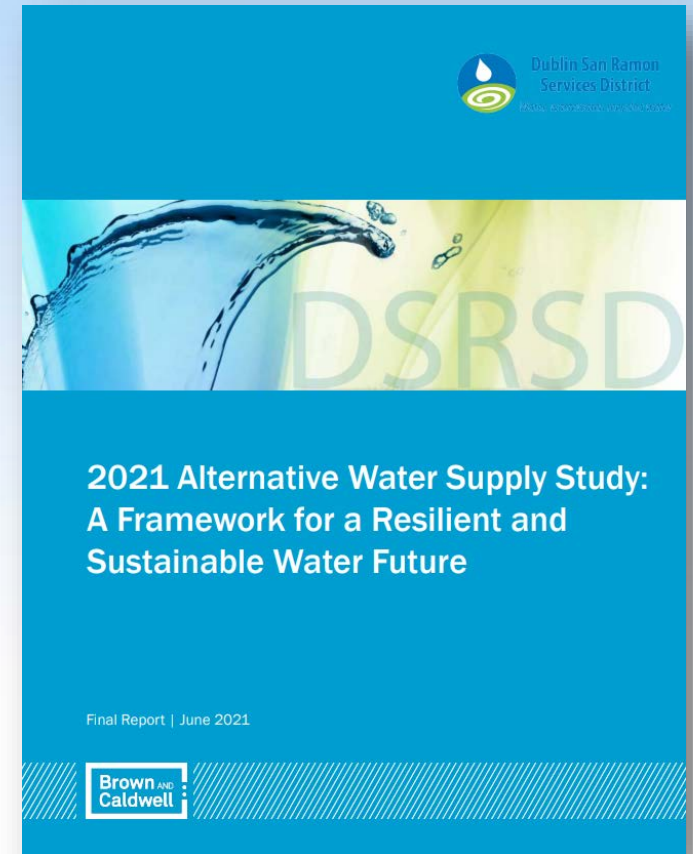
- Emphasis on collaborative partnerships
- All of the above approach

» Strategic Plan Goals

- Pursue new supplies to meet long-term recycled water demands
- Work collaboratively with Tri-Valley partners to develop a more diversified and resilient water supply
- Build public awareness of long-term water supply challenges and opportunities

2021 Alternative Water Supply Study

- » Incorporates new and refined information since 2015, including progress on regional projects
- » Evaluates alternatives to diversify water supplies and lessen dependence on imported water
- » Provides a framework for guiding DSRSD's near-term water resiliency efforts



2021 AWSS Recommended Framework

Near-term Plan

Low-risk actions that can be implemented in the next 5 years

2023 Checkpoint

Review framework, incorporate new info

Long-term Strategy

Based on outcomes of near-term actions and external factors ("triggers")

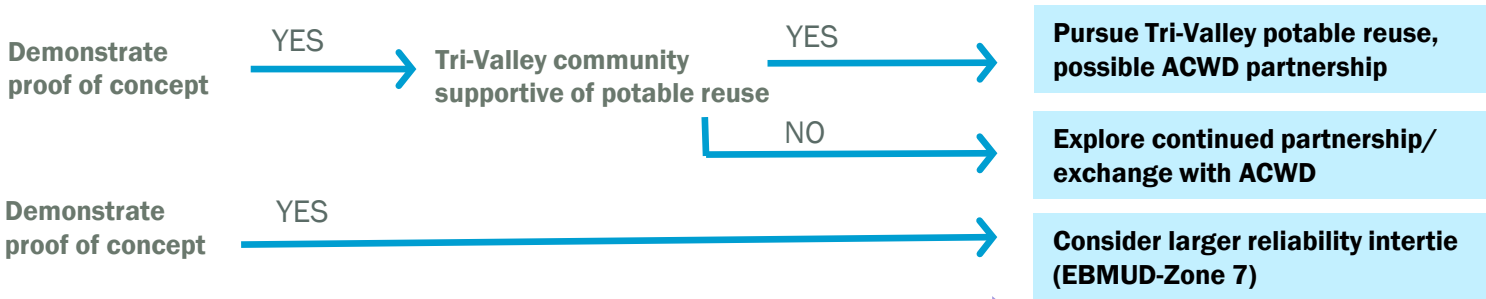
★ = External trigger

Monitor Zone 7 efforts

- Support participation in LVE & Transfer-Bethany
- Support Sites Reservoir with Delta Conveyance

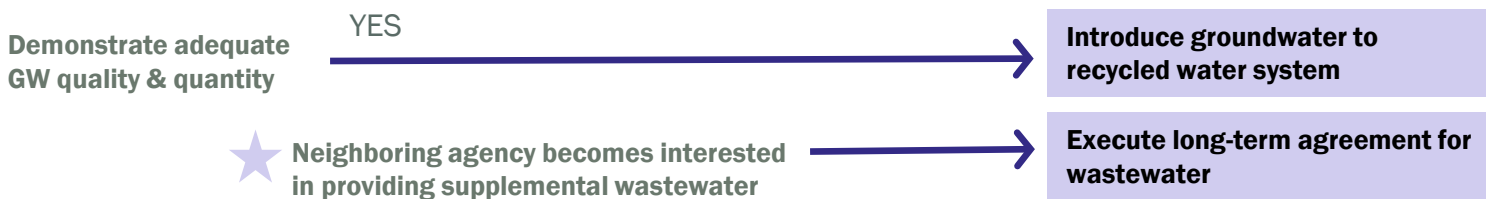
Explore near-term pilots

- Explore possible potable reuse pilot with ACWD, USD, Zone 7, and Livermore
- Work with Zone 7 and EBMUD to explore possible pilot transfer



Seek supplemental non-potable supply

- Work with Zone 7 to collect more data on Fringe Basin and Hopyard 7 well





Water Supply Project Updates



**WATER
AGENCY**

Amparo Flores

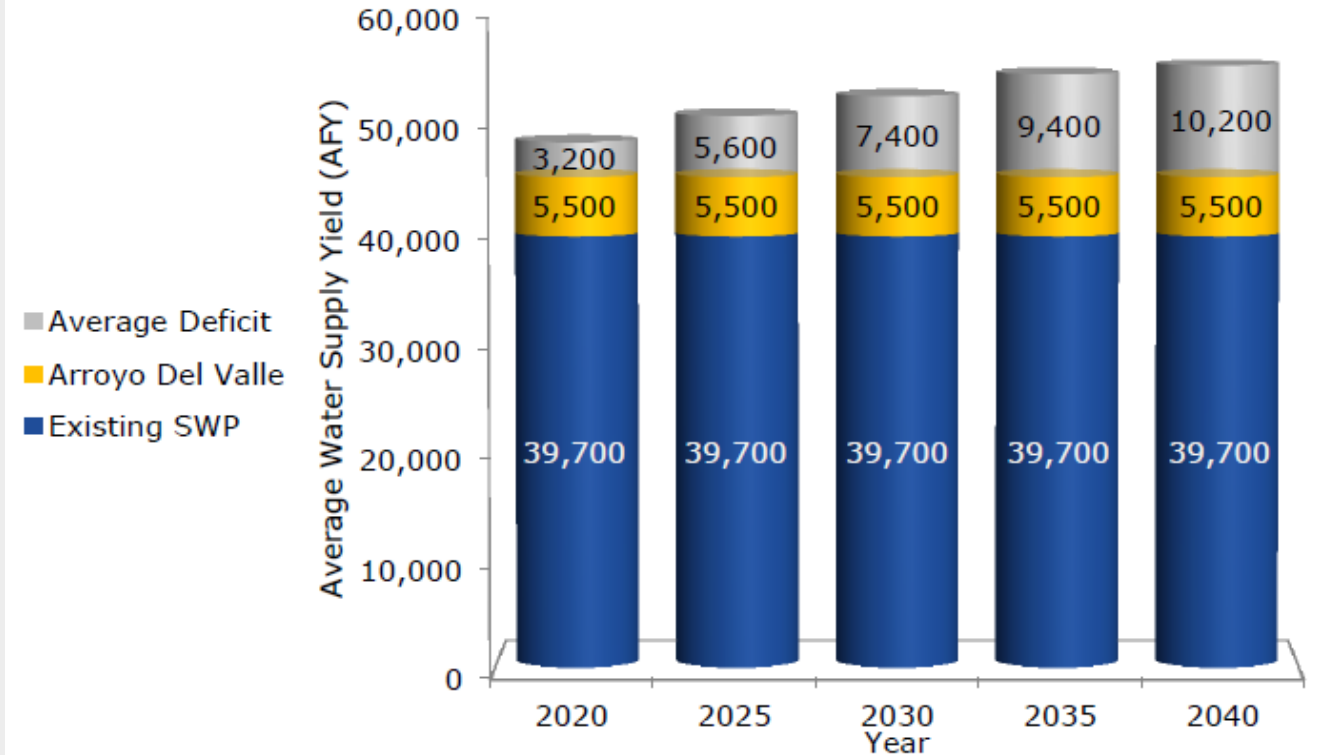
May 10, 2022

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DSRSD Board Meeting

Water Supply Evaluation Update

- Zone 7 periodically prepares an updated Water Supply Evaluation (WSE) to assess Zone 7's water supply needs.
- Reliability Policy:
 - Meet at least 85% of Municipal and Industrial water demands 99% of the time.
 - Meet 100% of Municipal and Industrial water demands 90% of the time.
- The last WSE Update (2019) identified a clear and urgent need for new water supplies (up to about 15,000 AF) in order to meet Zone 7's Reliability Policy through buildout.
- Zone 7 is therefore pursuing water supply and storage alternatives.

No New Water Supplies:
Demand on Zone 7's System and Available Supplies



2019 Water Supply Evaluation Update – Alternatives Considered

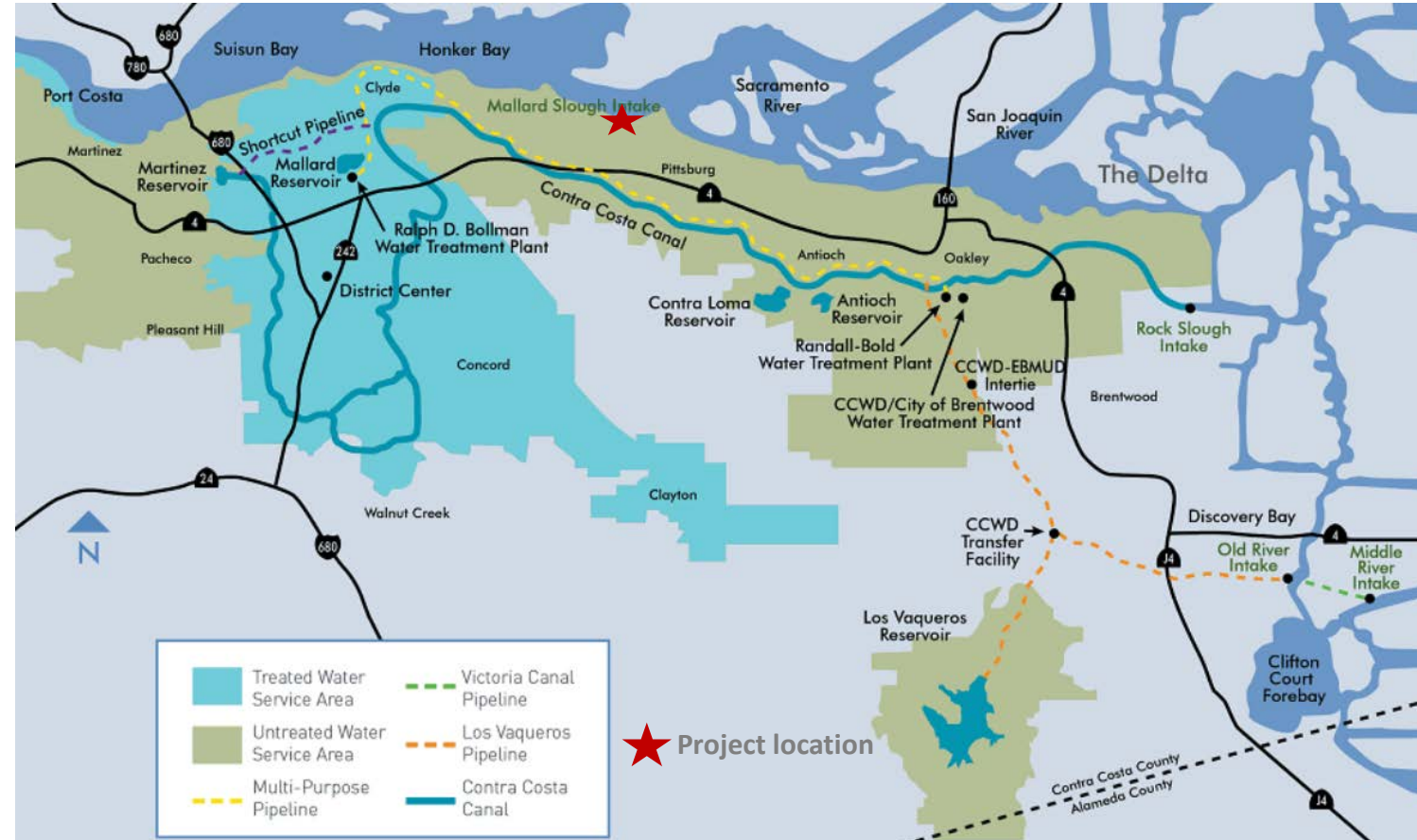
Zone 7 is pursuing water supply, storage, and conveyance alternatives to bolster the reliability of the Tri-Valley's water supply system.

- Bay Area Regional Desalination Project
- Delta Conveyance Project
- Los Vaqueros Reservoir Expansion
- Potable Reuse
- Sites Reservoir
- Short-Term and Long-Term Water Transfers

Next WSE Update:
In progress, to be completed
by the end of 2022

Bay Area Regional Desalination Project

- Partnership among Contra Costa Water District, EBMUD, San Francisco Public Utilities Commission, Valley Water, and Zone 7 Water Agency.
- Project involves treating brackish water from the Delta, potentially producing up to ~20,000 acre-feet/year for partners.
- Recent and upcoming work (2020-2022+):
 - *Detailed water rights analysis at Mallard Slough.*
 - *Exploration of how Los Vaqueros Reservoir could be leveraged.*
 - *Bay Area Regional Reliability pilot water transfers to test concepts.*
 - *Re-evaluation of potential supply yield and cost from the project.*



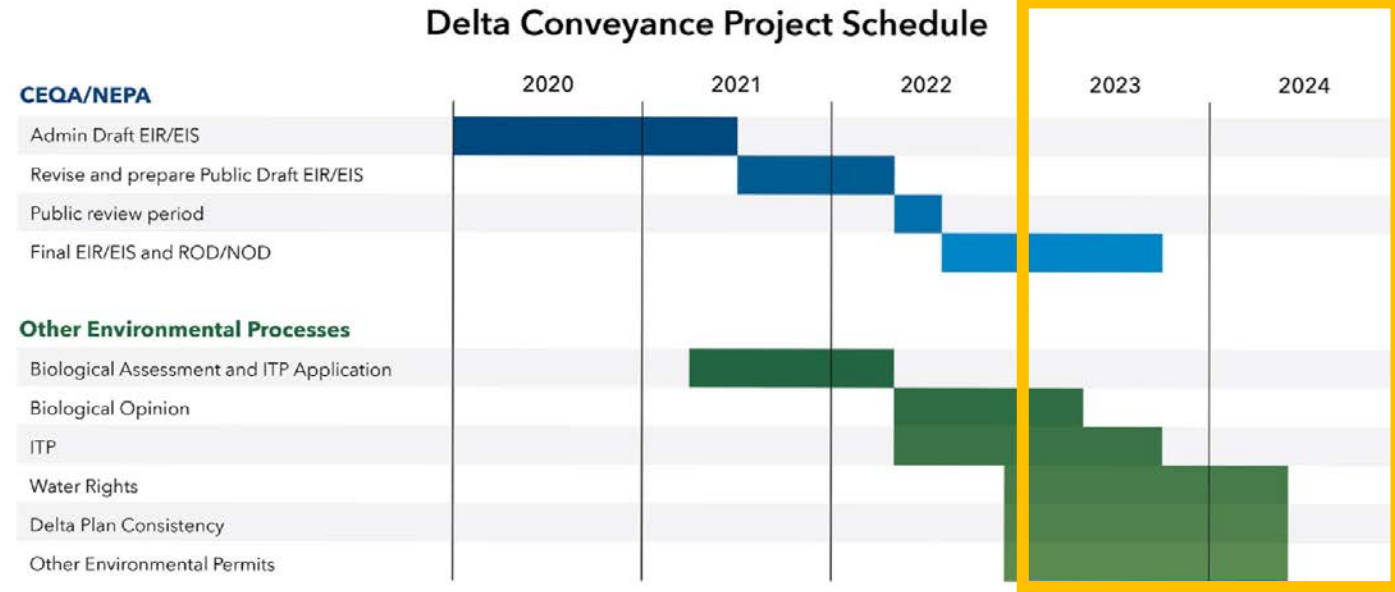
Delta Conveyance Project

- Proposed new intakes and tunnel through the Delta that serves as an upgrade to the conveyance infrastructure of the State Water Project (SWP).
- Helps maintain reliable access to imported water via the Delta.
- Current estimated cost: \$15.9 billion, with Zone 7 currently at 2.2% participation level (about \$350 million; costs to be refined).
- Full operation estimated around 2035/2040.



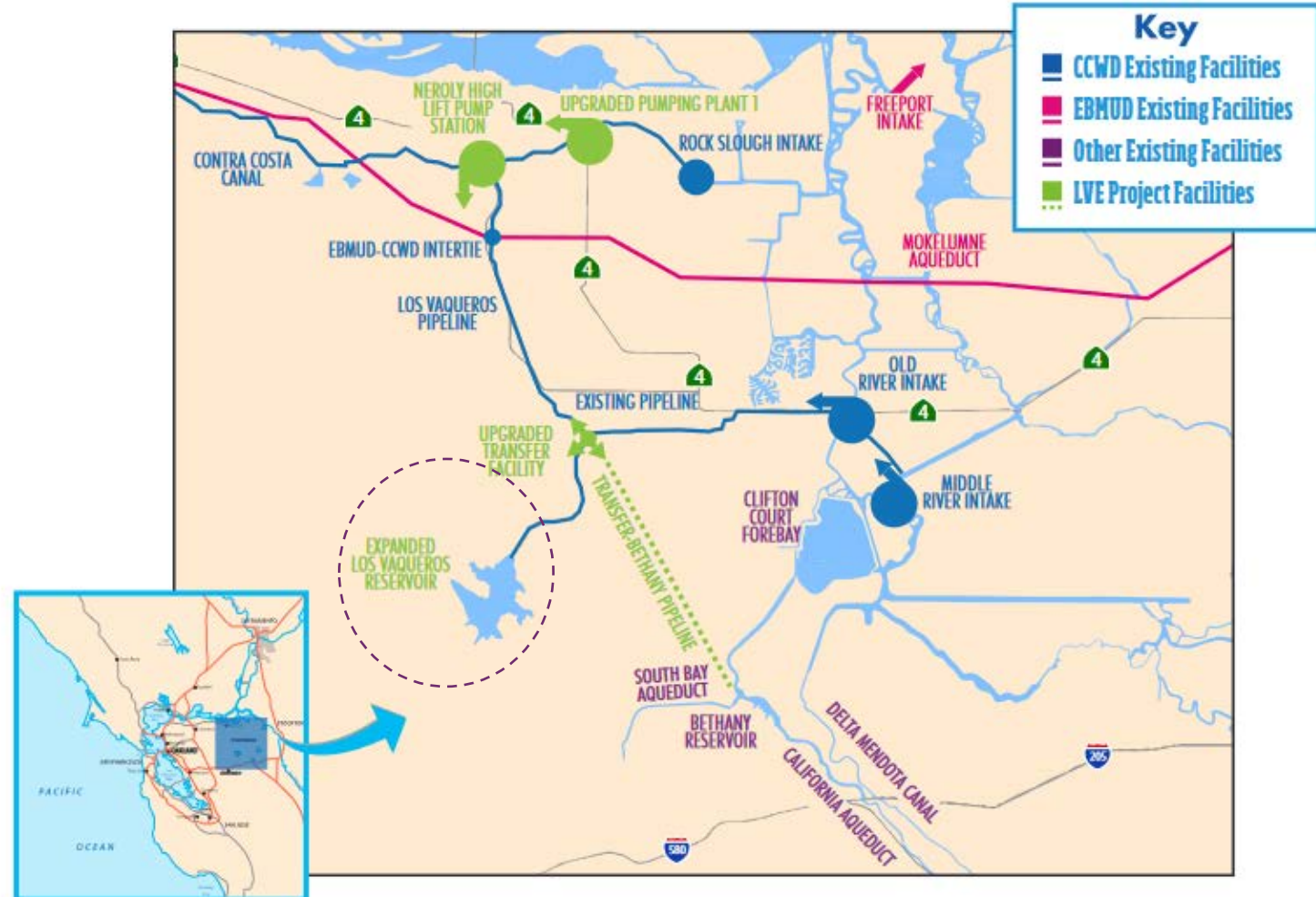
Project Status Updates

- In the middle of four-year environmental planning process (2021-2024).
- In April 2022, the Zone 7 Board approved continued participation in 2023/2024 with about \$4M of additional funding.
- DWR preparing the Draft EIR and the US Army Corps of Engineers preparing the Draft EIS, public release expected in mid-2022.
- DWR engaging in robust public outreach to inform and receive input
 - ✓ *Completed an environmental justice survey*
 - ✓ *Informational webinars on the EIR analyses*
 - ✓ *Initiated development of a Community Benefits Program*
 - ✓ *Tribal community outreach*



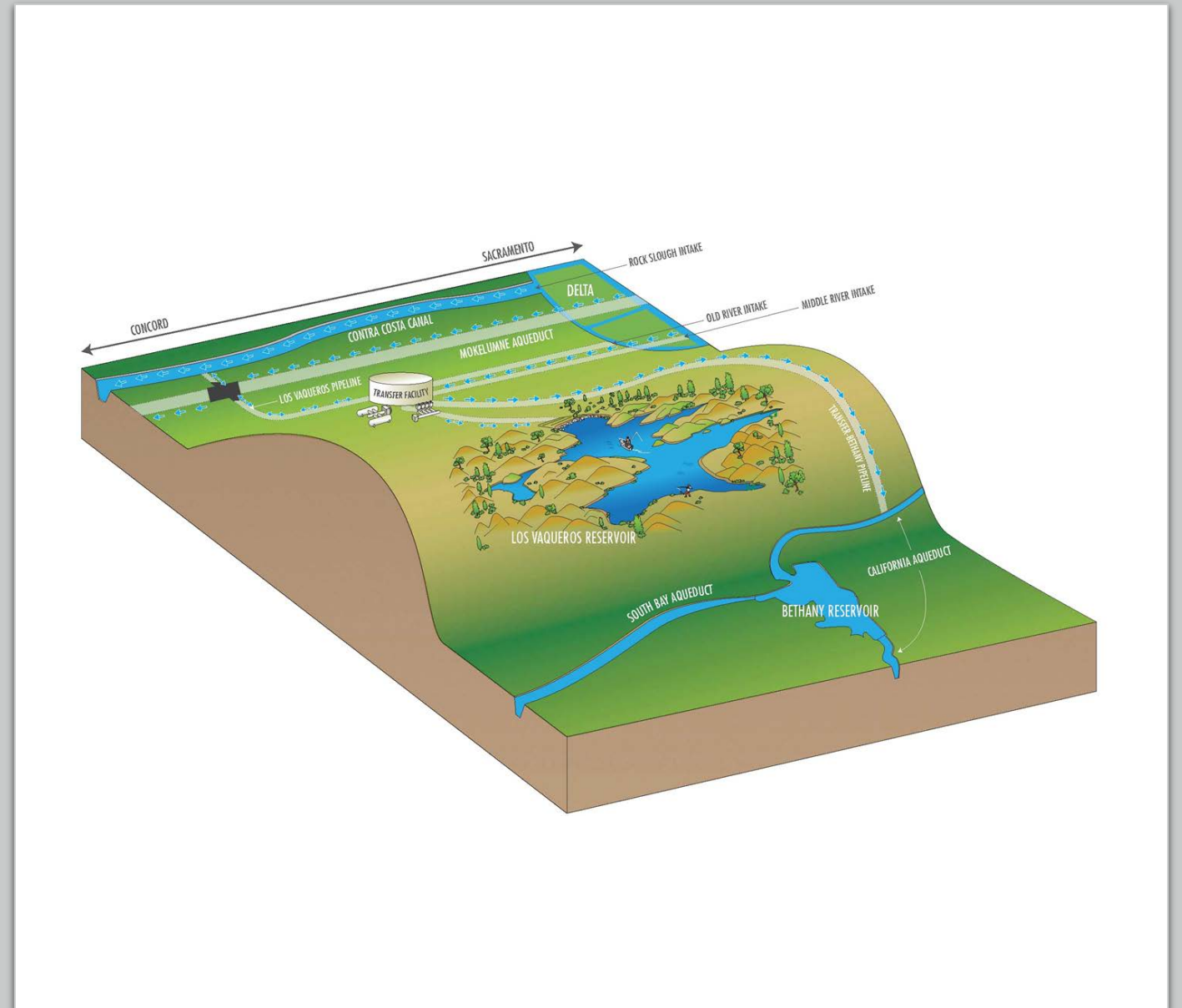
Los Vaqueros Reservoir Expansion

- Expansion of existing off-stream reservoir by adding 115,000 AF of storage, resulting in a total capacity of 275,000 AF.
- Primarily a storage project with alternative conveyance (Transfer-Bethany Pipeline)
 - *could potentially provide new water supply, but this is uncertain due to increasing Delta restrictions.*
- Zone 7's share of storage is estimated at 7,500 AF.
- Current estimated Zone 7's share of cost: \$42M.
- Transfer-Bethany Pipeline operational around 2026, full operations begins end of 2030.



Project Status Updates

- Los Vaqueros Reservoir Joint Powers Authority formed in October 2021:
 - *provides governance and administration for the Los Vaqueros Reservoir Expansion Project.*
- In October 2021, Zone 7 Board approved participation in the project through December 2022.
- Project eligibility for the State's Proposition 1 Water Storage Investment Program confirmed and increased to \$478M of app. \$900M total project cost.
- Major tasks in progress: engineering, permitting, cost allocation discussions, and operations planning.



Potable Reuse

- Purify treated wastewater effluent to a high quality that is suitable for potable use.
- Local supply that is drought-tolerant.
- *Joint Tri-Valley Potable Reuse Technical Feasibility Study* identified several feasible options for potable reuse and recommended technical studies.
- Zone 7 is completing a Desktop Groundwater Contaminant Mobilization Study:
 - *evaluate potential impacts of groundwater recharge with purified water to be completed in summer 2022.*
- Zone 7's groundwater model will be updated over the next two years and field studies will be conducted to further explore groundwater recharge with purified water.



LIVERMORE
CALIFORNIA



Tri-Valley Agencies
Joint Tri-Valley
Potable Reuse
Technical Feasibility Study

FINAL | MAY 2018

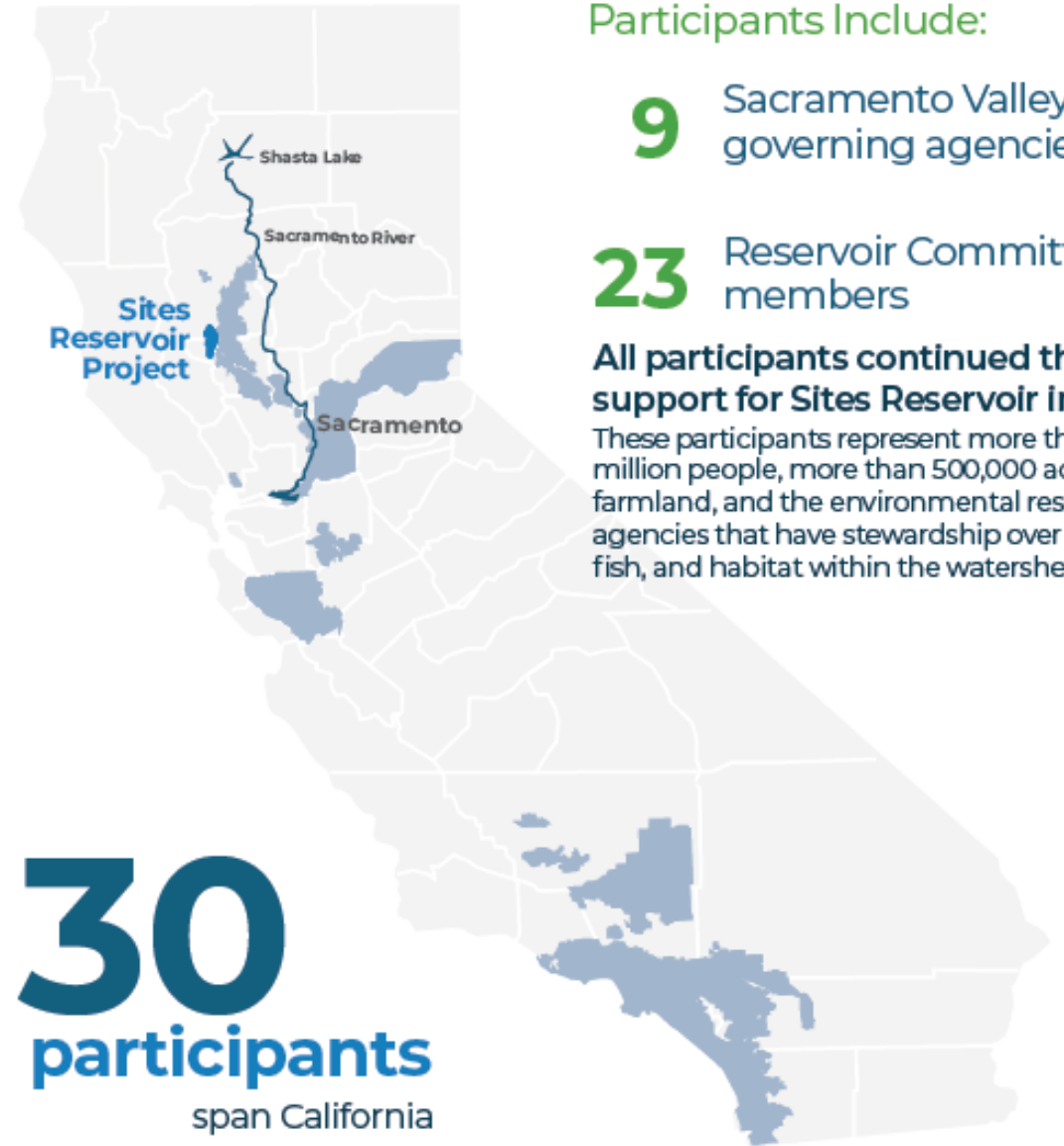
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Engineers...Working Wonders With Water®

Sites Reservoir

- Off-stream reservoir with 1.5 million acre-feet (AF) of storage:
 - *captures excess flows from the Sacramento River after all other water rights and regulatory requirements are met.*
- Zone 7 is signed up for 62,340 AF of storage, yielding about 10,000 AFY of new supply.
- Estimated Zone 7's share of capital cost: \$176M
- Full operation begins app. 2030.



30
participants
span California



Participants Include:

9 Sacramento Valley governing agencies

23 Reservoir Committee members

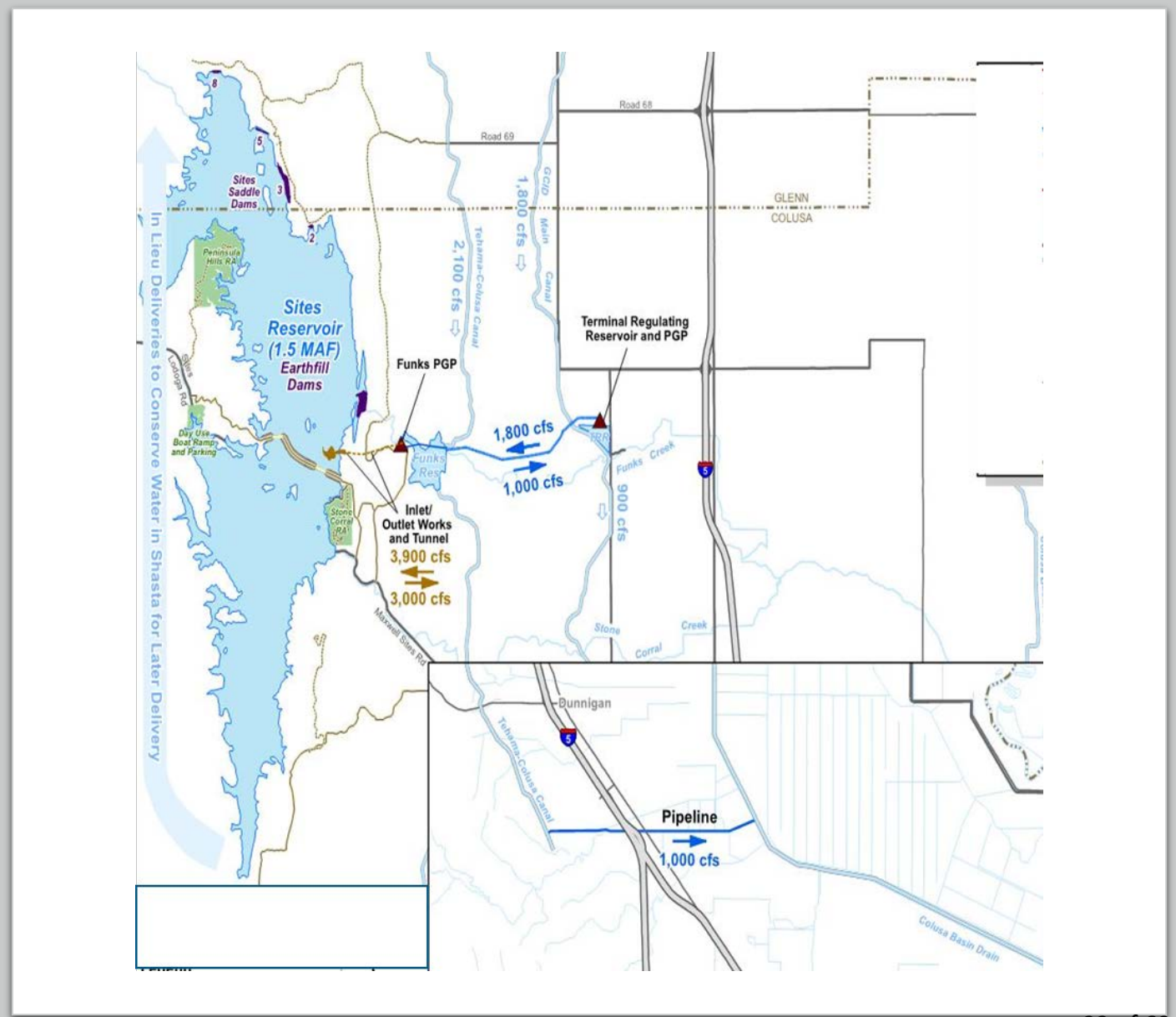
All participants continued their support for Sites Reservoir in 2021.

These participants represent more than 24.5 million people, more than 500,000 acres of farmland, and the environmental resource agencies that have stewardship over rivers, fish, and habitat within the watershed.

Blue shading represents participant service areas; does not account for State and Federal participation.

Project Status Updates

- In January 2022, Zone 7 Board approved continued participation through December 2024 at an additional cost of up to \$4M.
- Project eligibility for the State's Proposition 1 Water Storage Investment Program confirmed and increased to \$875M of app. \$3.9B total project cost.
- Major tasks in progress: engineering, permitting, refinement of operations, and securing federal funding and long-term financing.



Water Transfers

- Short-Term Transfers

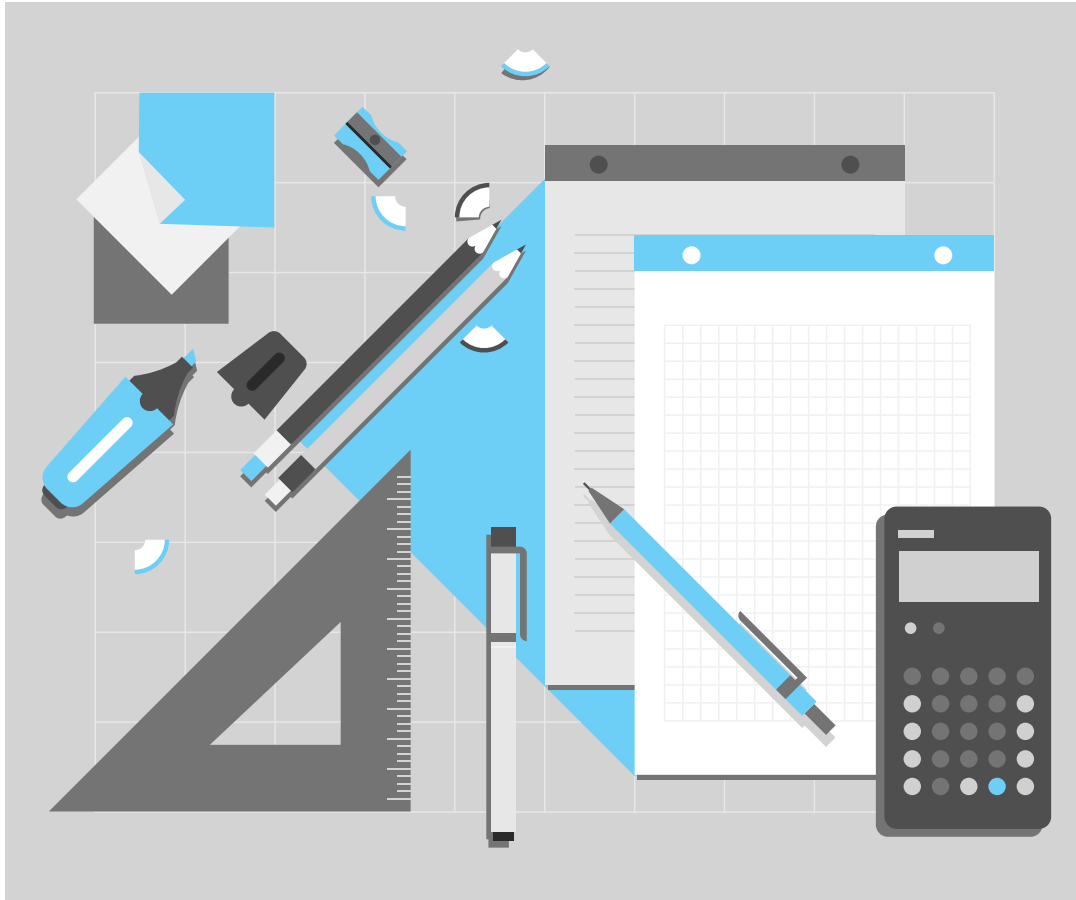
- *Zone 7 has been purchasing water to meet short-term needs.*
- *Yuba Accord, Dry Year Transfer Program, other SWP contractors, etc.*

- Long-Term Transfers

- *Zone 7 continuing to pursue long-term transfer options until major projects are online.*



2022 WSE Update



- Incorporate the latest information from various studies/reports since the 2019 WSE Update.
- Upgrade from excel-based risk model to a platform that can accommodate monthly time-step and improved applicability towards operations modeling and long-term planning.
- Evaluate a mix of water supply portfolios.
 - *Review water supply/storage options and assess their performance at maintaining/enhancing Zone 7's water system reliability.*
- Retailer and Board check-ins:
 - *August 2022*
 - *October 2022*
- Retailer Board and Council Presentations:
 - *November 2022*

Questions?





**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Regional Purified Water Pilot Project

DSRSD Board Workshop – May 10, 2022

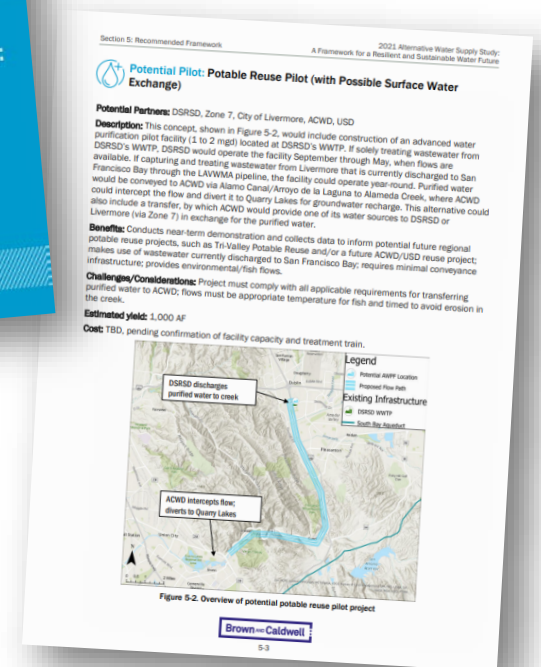
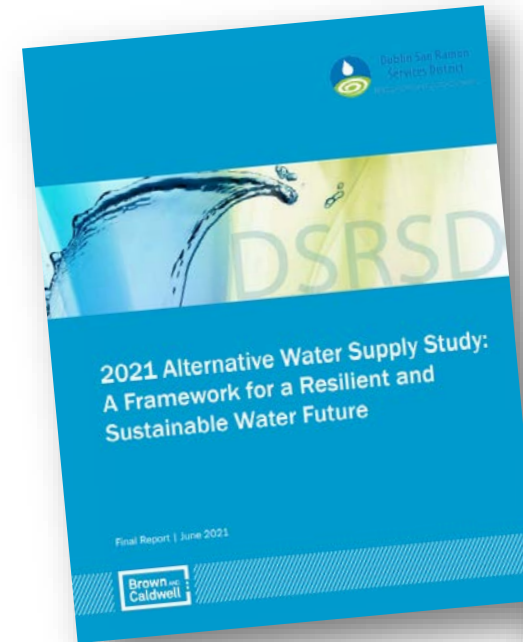
Brown AND Caldwell :

Agenda

1. Background
2. Proposed Pilot Concept
3. Cost and Funding Opportunities
4. Public Outreach
5. Next Steps

Background: 2021 Alternative Water Supply Study

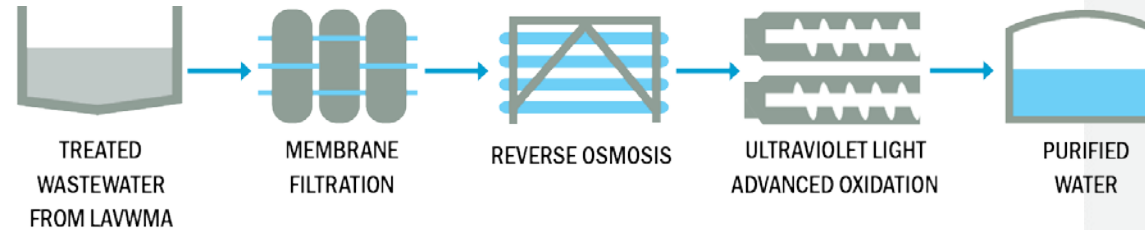
- 2021 AWSS recommended exploring a near-term pilot in collaboration with ACWD and other potential partners
- Purpose of initial feasibility study (nearing completion):
 - Explore feasibility of purified water pilot
 - Engage potential partner agencies
 - Outline technical, regulatory, institutional, and financial considerations
 - Identify potential funding opportunities
 - Recommended next steps



Proposed Pilot Concept

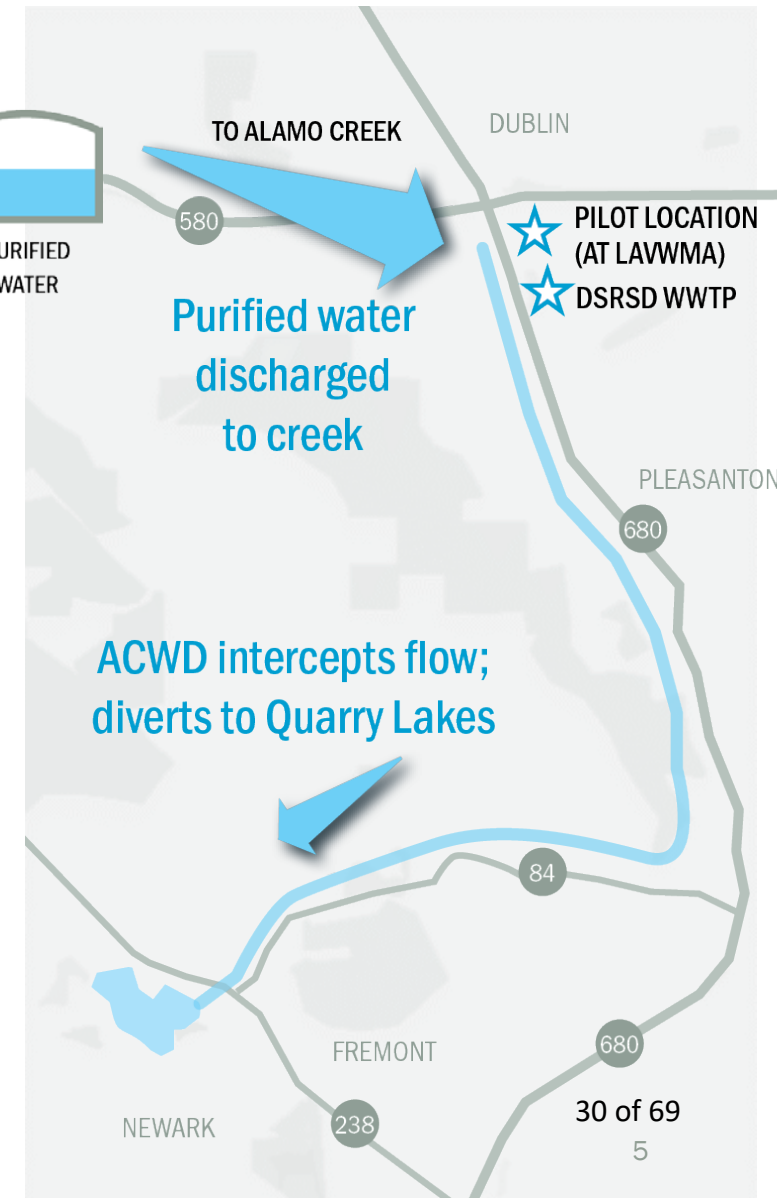
Regional Purified Water Pilot Concept

Small, temporary advanced treatment system at LAVWMA:



Pilot project would...

- Produce up to **0.2 mgd of purified water** from secondary effluent currently discharged to SF Bay
- Deliver purified water to **supplement flow in Alameda Creek**
- Allow ACWD to divert flow downstream for **groundwater recharge**



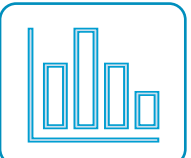
Benefits of Pilot Project and Similar Systems



Public outreach and education



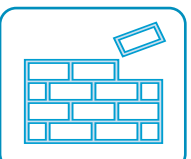
Demonstrates purified water technology



Data collection



Promotes regional collaboration



Leverages existing infrastructure

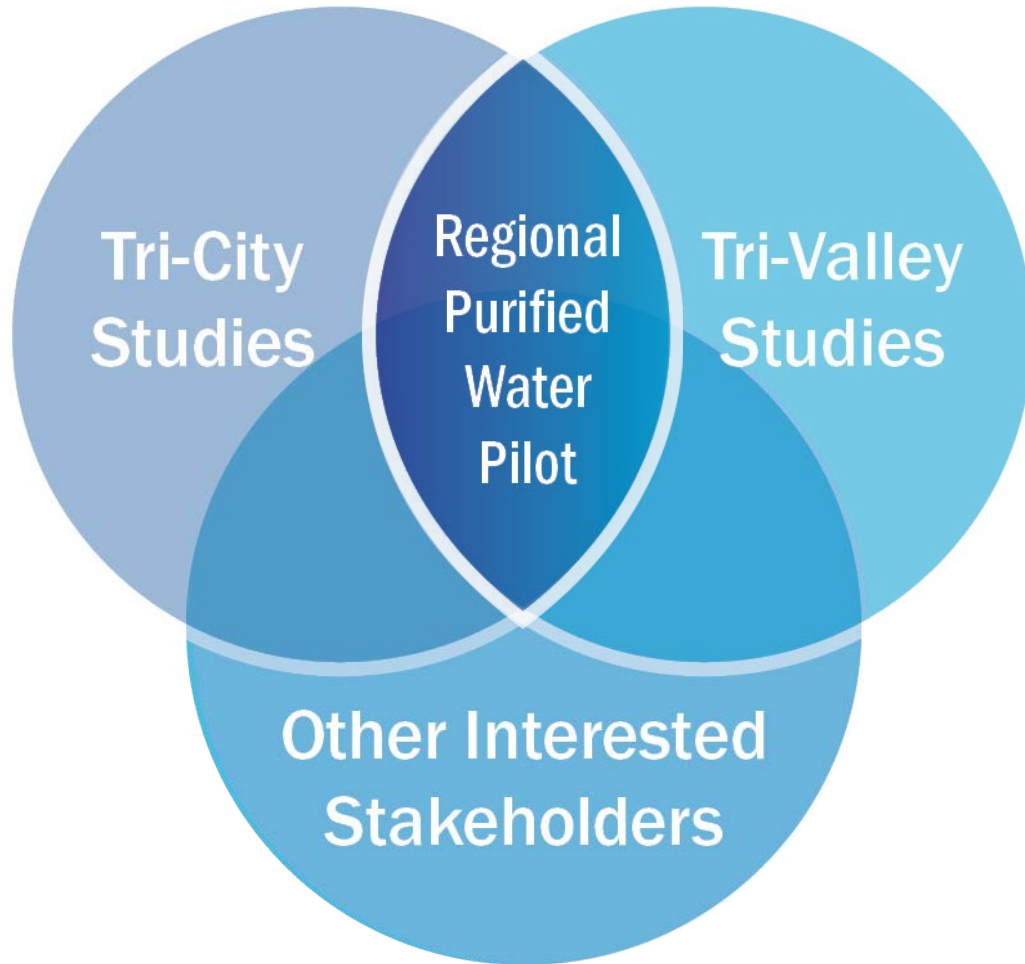


Ventura, CA



Xylem MiPro containerized O3/BAF₆ and UV AOP system

Pilot Complements Other Regional Efforts



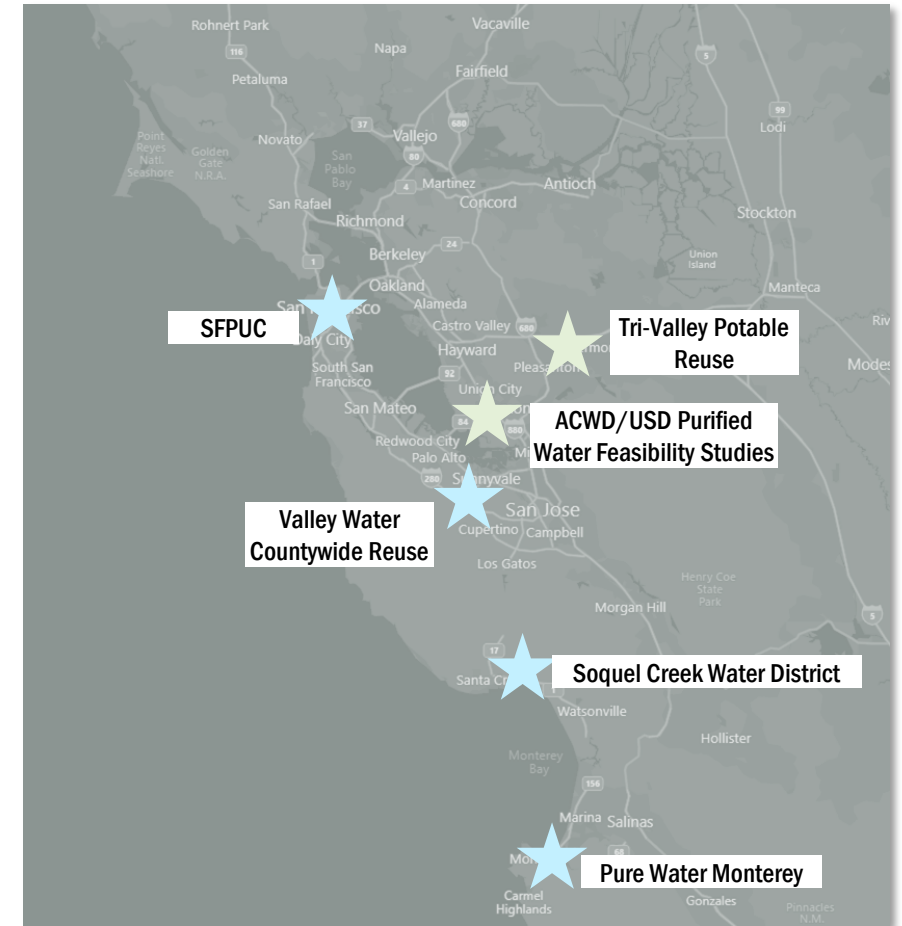
Potential pilot project partners:



Potential Future Full-Scale Opportunities

- Tri-Valley Potable Reuse
- ACWD, SFPUC, and USD Purified Water Project
- Scale up pilot – purified water to Alameda Creek with possible surface water exchange (via Zone 7)
- Possible hybrid option

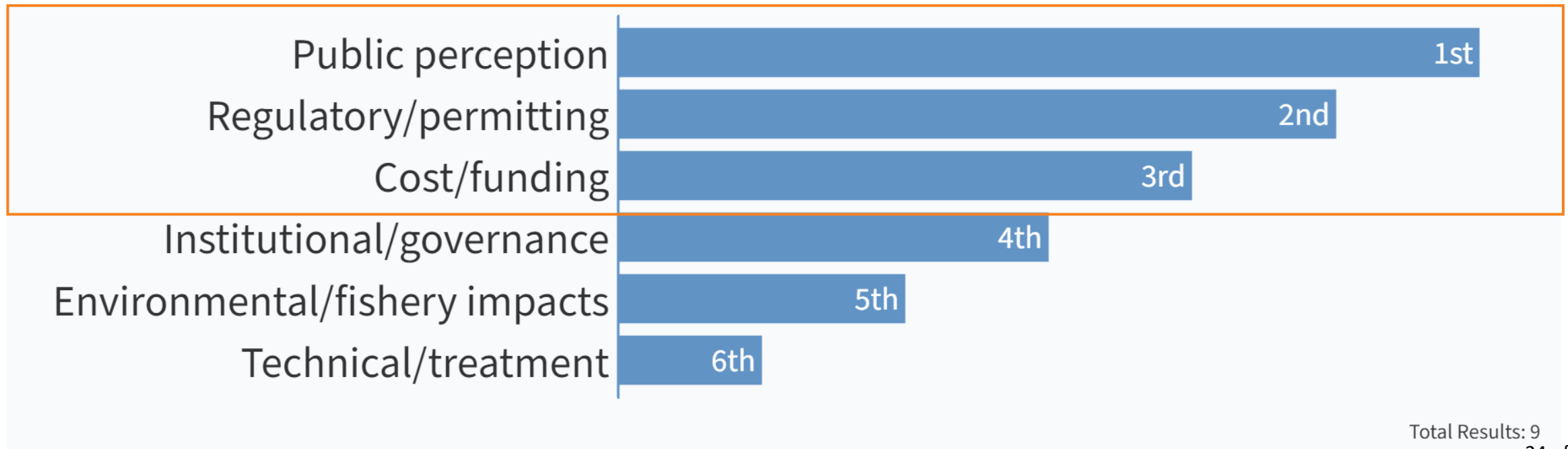
Examples of other ongoing potable reuse efforts in the Bay Area:



Partner Workshops & Input

- Four workshops with potential partner agencies held between September and March
- Partners provided feedback on draft pilot concept, noting that public perception and permitting are top success factors for potable reuse projects

Poll results from partner agency workshop - ranked success factors from 1 (most important) to 6 (least important)

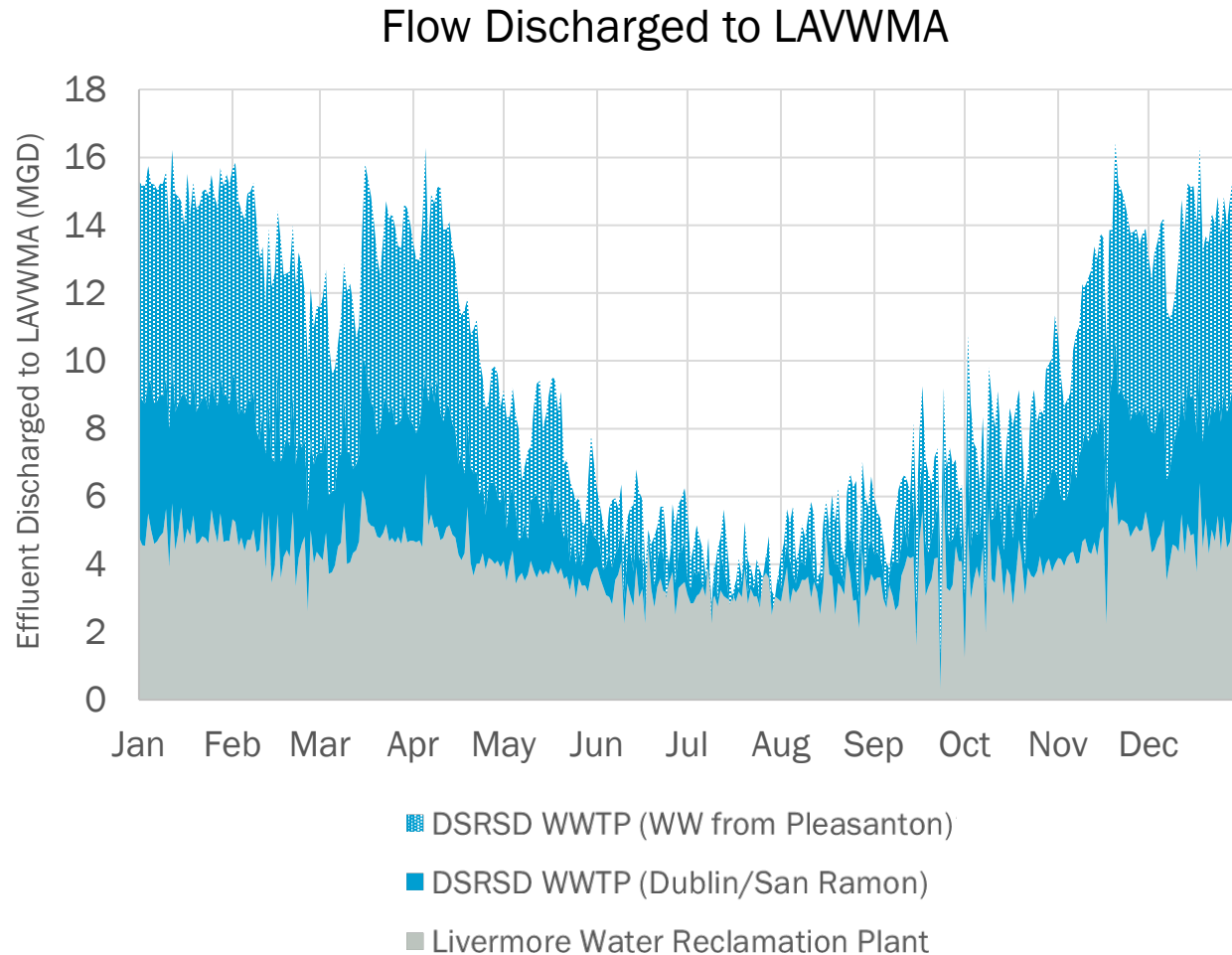


Proposed Pilot Location

- Adjacent to LAVWMA Junction Structure, where secondary treated wastewater from DSRSD and Livermore combine
- Proximity to existing utilities, channel, and visitor access/parking
- Expected pilot footprint: ~50 x 60 ft (room for public tours)
- Would operate over two years
- Waste streams delivered back to DSRSD's WWTP



Supply Source for Pilot

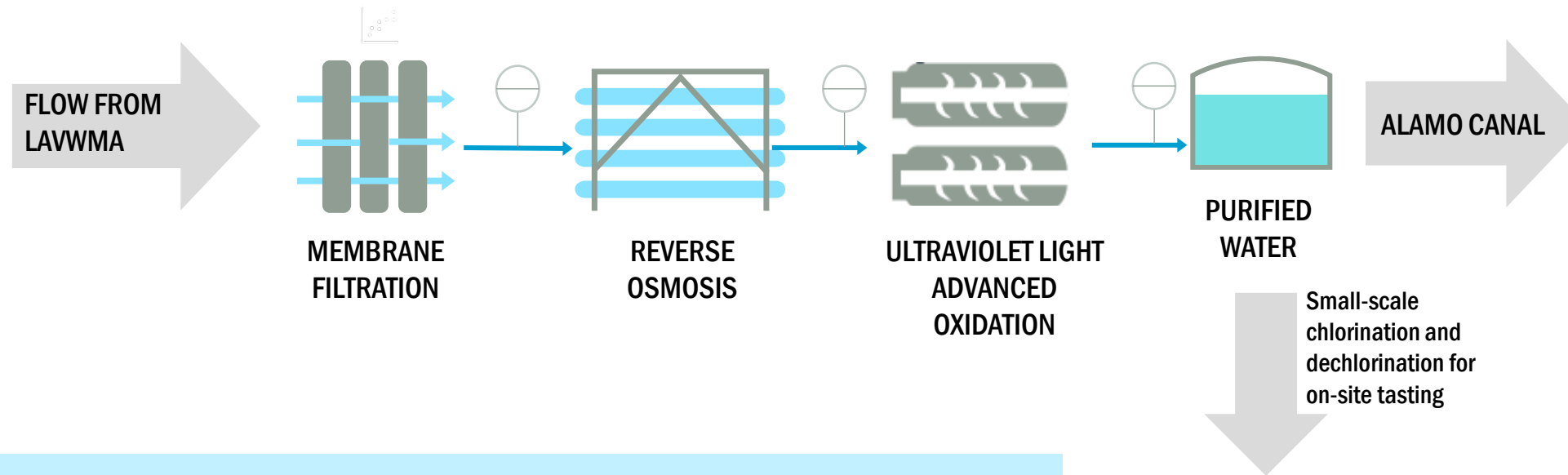


Pilot would operate year-round with flows from DSRSD & Livermore, or seasonally with flows from only DSRSD (due to existing irrigation recycled water demands in the summer months)

Recommended Treatment Train

ONLINE
MONITORING

Full advanced treatment (typical for groundwater augmentation)



Purified water would be monitored for typical drinking water parameters, plus flow and temperature (relative to receiving water body).

Diversion by ACWD

- Once delivered to the canal, purified water would blend with runoff and other flow in Alameda Creek
- ACWD would intercept the flow downstream and divert it to Quarry Lakes for groundwater recharge



ACWD captures and diverts flow to Quarry Lakes using inflatable rubber dams on Alameda Creek.

Regulatory Pathways for Pilot (NPDES Discharge Options)

- Regional Board discretionary approval
- Limited Threat Discharge Permit
- NPDES Permit Amendment (DSRSD or LAVWMA)
- DSRSD NPDES Permit Renewal (June 2022) - *recommended***

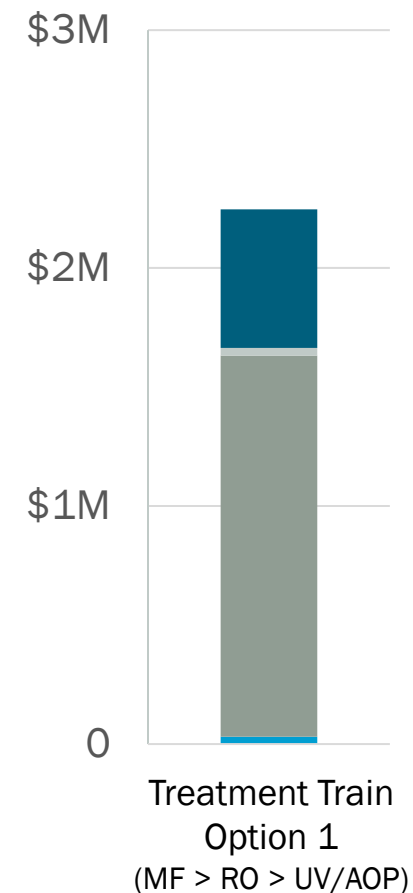
Cost and Funding Opportunities

Capital Cost Estimates for Pilot Equipment and Installation

Description	Estimated Cost (\$)
Civil Site & Piping	\$31,000
Pilot Equipment	\$1,601,000
Shipping and Sales Tax	\$32,000
Planning Level Contingency (35%)	\$582,000
Total Cost*	\$2,246,000

*Preliminary estimate for planning purposes. Typical accuracy range for Class 5 estimate: -50% to +100%.

- Planning Contingency
- Shipping and Sales Tax
- Pilot Equipment
- Civil Site & Piping



O&M Cost Estimates

Description	Annual Cost (\$ per year)
Chemicals	\$52,000
Service Costs	
Labor Service Visits	\$98,800
Cartridge Filters Maintenance	\$3,840
Membrane Cleaning Reserve	\$6,000
Lab Sampling Analyses	
Start-up Testing	\$9,200
Ongoing Testing Needs	\$37,200
Total O&M Cost* (\$)	Total Cost (\$)
1-Year Pilot (8 months online)	\$142,000
2-Year Pilot (20 months online)	\$339,000

**Assuming 24/7 operation of pilot after start-up.*

Grant Funding Opportunities

– Various federal, state, and local funding programs



Recommended for further consideration:

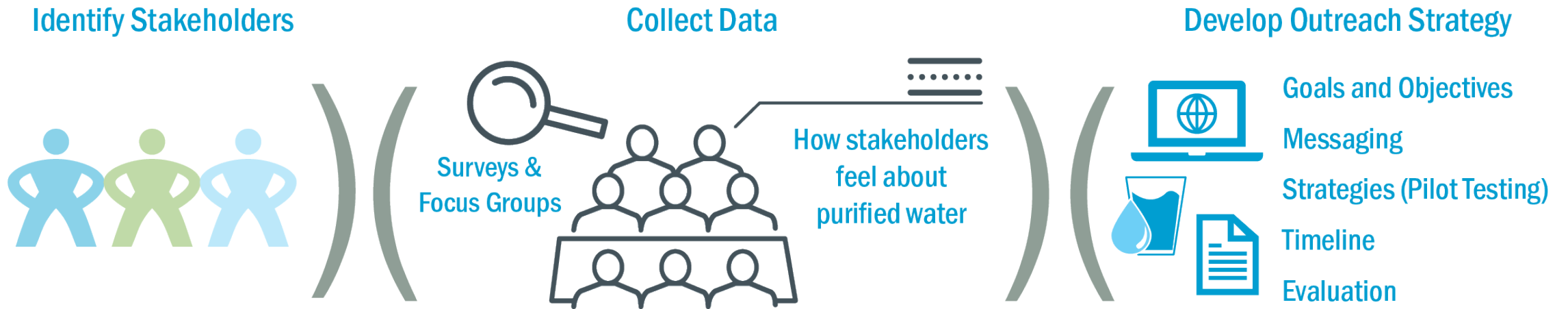
- SWRCB Water Recycling Funding Program, Facilities Planning Projects (up to \$150k for planning)
- USBR WaterSMART Drought Response Program, Drought Resiliency Projects (up to \$500k)
- DWR Integrated Regional Water Management Program, Implementation Projects (TBD, depending on Bay Area IRWMP)

Pending opportunities (awaiting guidelines):

- State Revolving Funds - will including Bipartisan Infrastructure Law funds, grant guidelines anticipated summer 2022
- SF Bay Water Quality Improvement Fund - request for applications expected late spring 2022

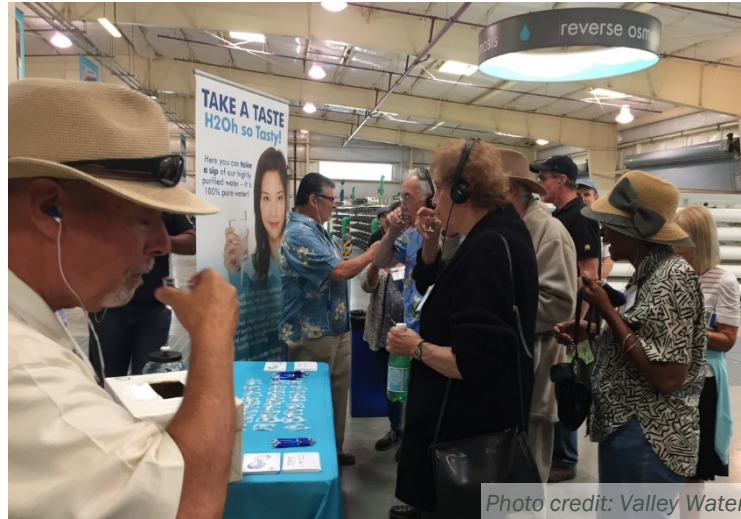
Public Outreach

Public Outreach and Education



The pilot would be designed to enable public tours and other interactive outreach components, such as displaying real-time water quality data and producing purified water on-site.

Example Outreach and Branding



siliconvalley



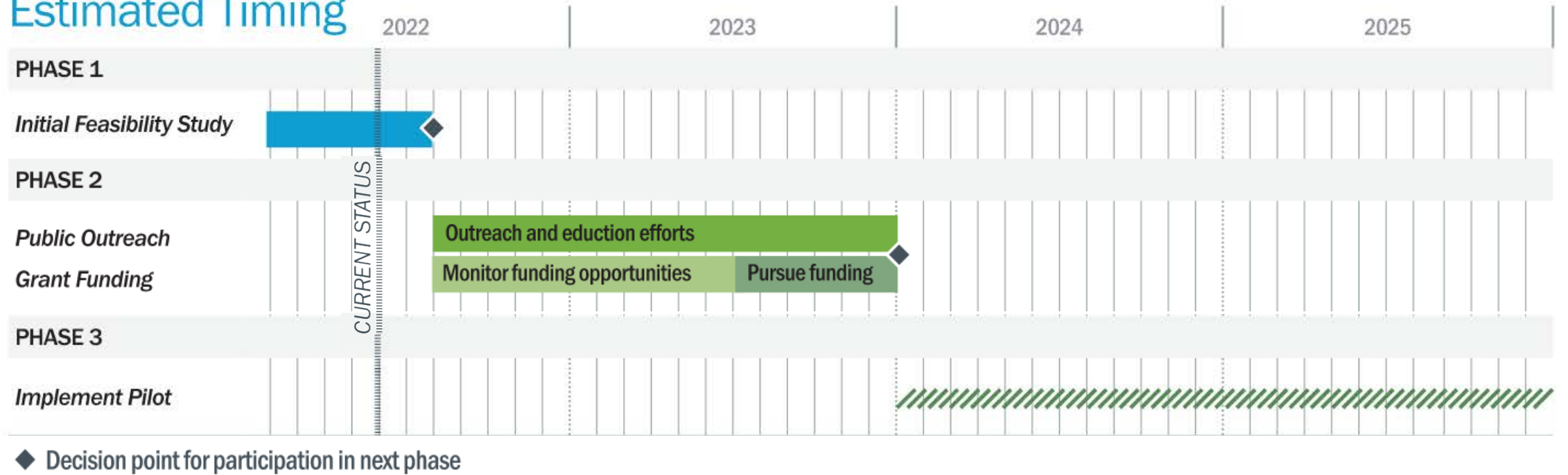
ADVANCED WATER PURIFICATION CENTER



Next Steps

Next Steps

Estimated Timing



Thank you.

Questions & Discussion

Recycled Water Supply Update

Jan Lee
Assistant General Manager

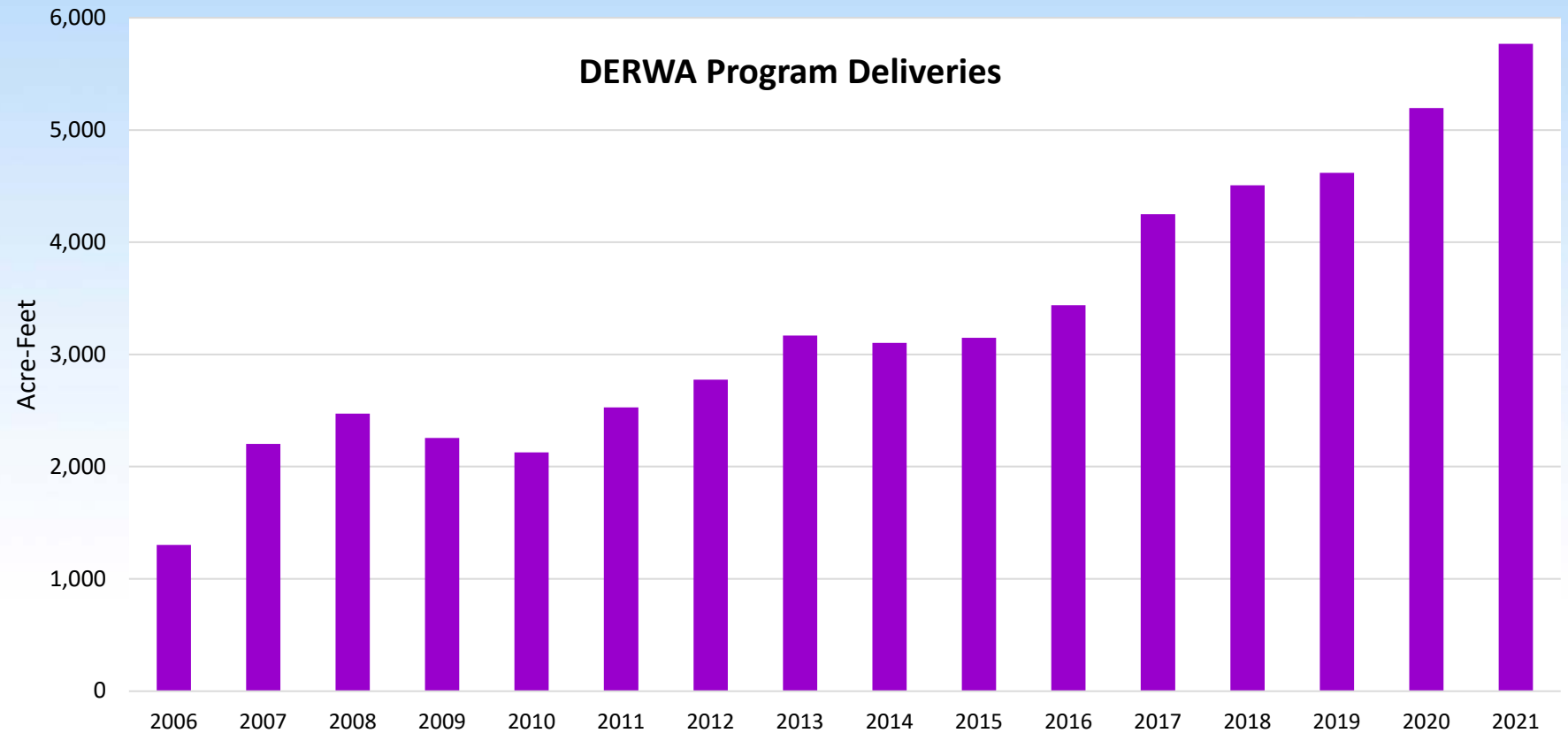
May 10, 2022



**Dublin San Ramon
Services District**

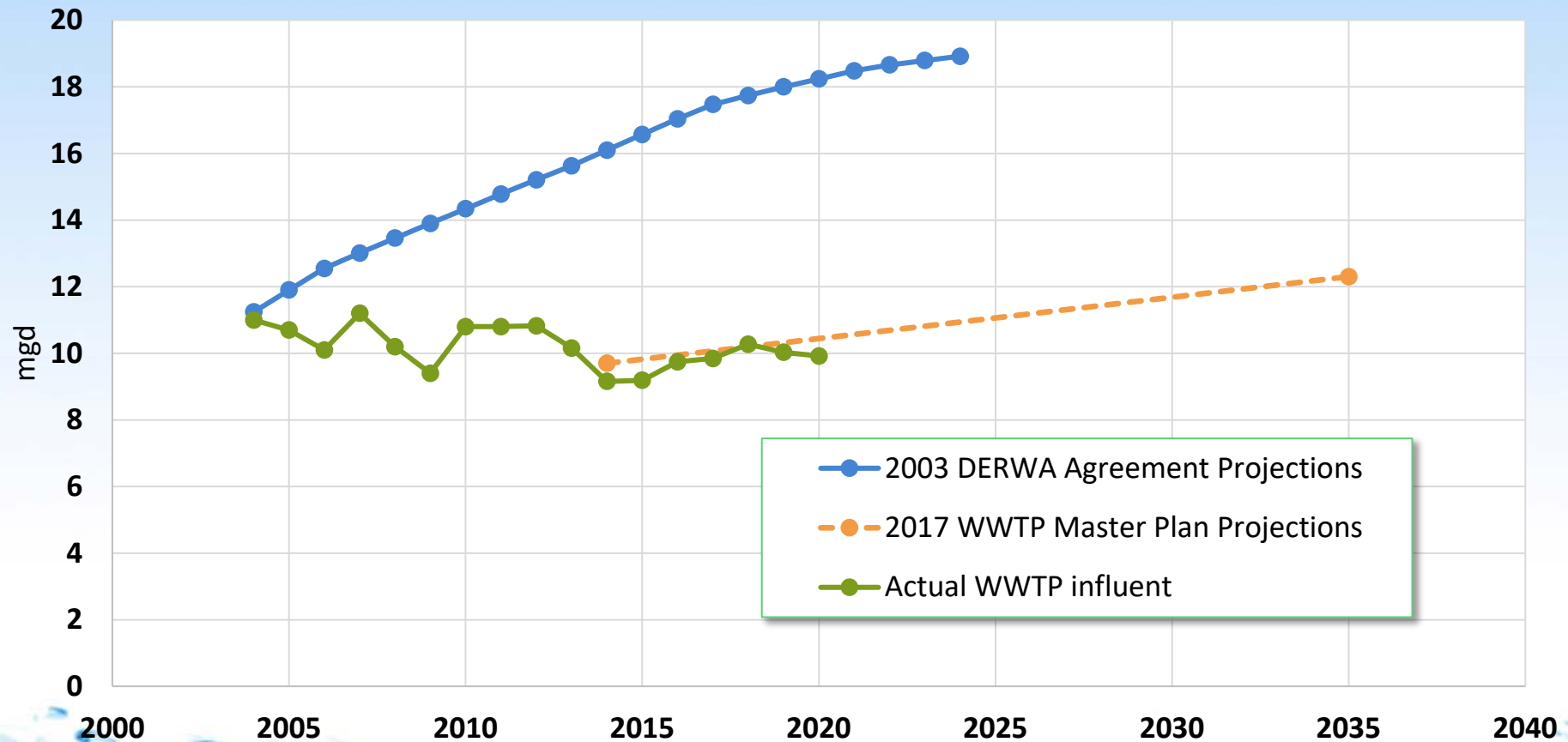
Water, wastewater, recycled water

Growth in Recycled Water Program

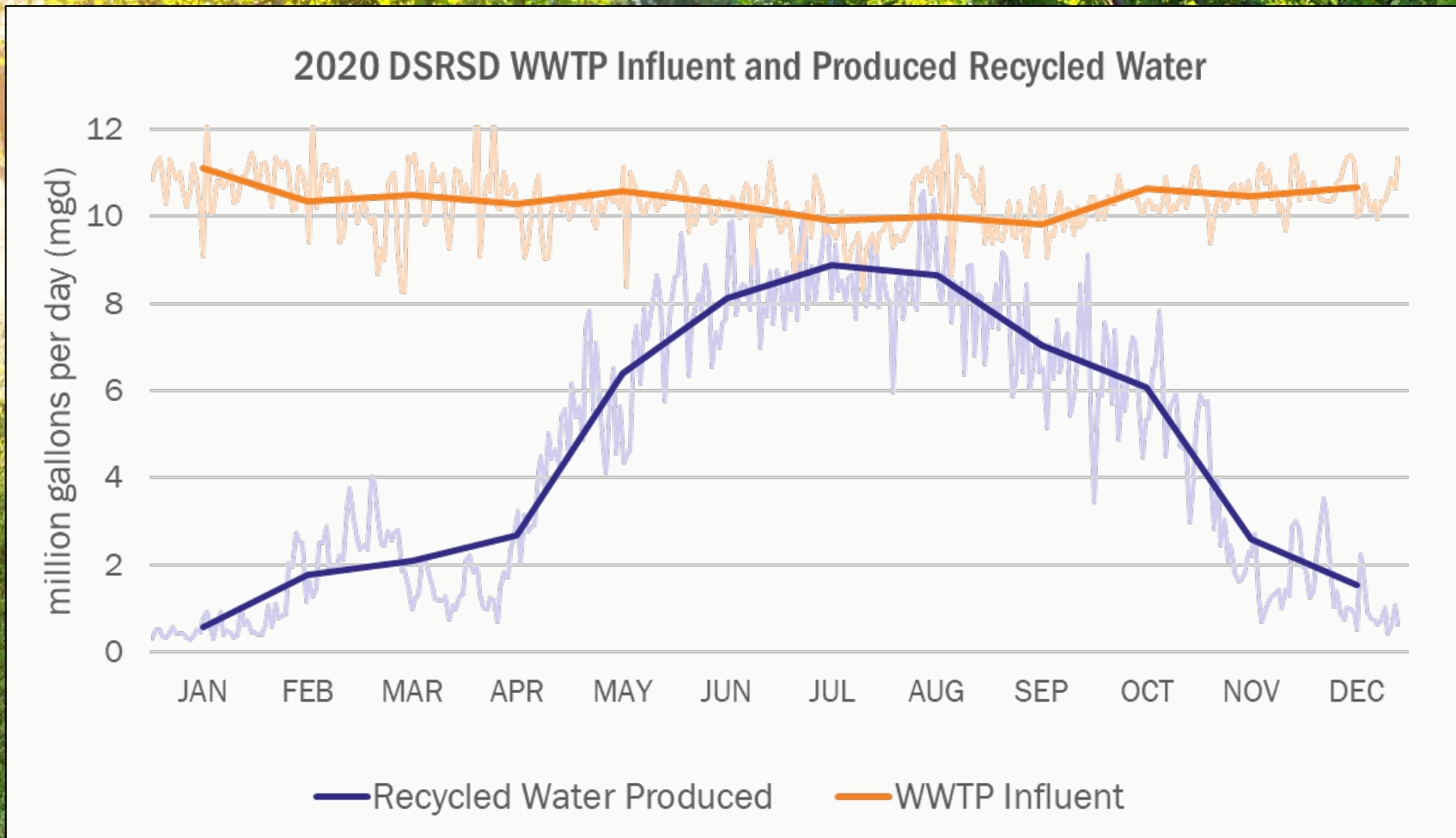


Conservation Effects on Wastewater Flows

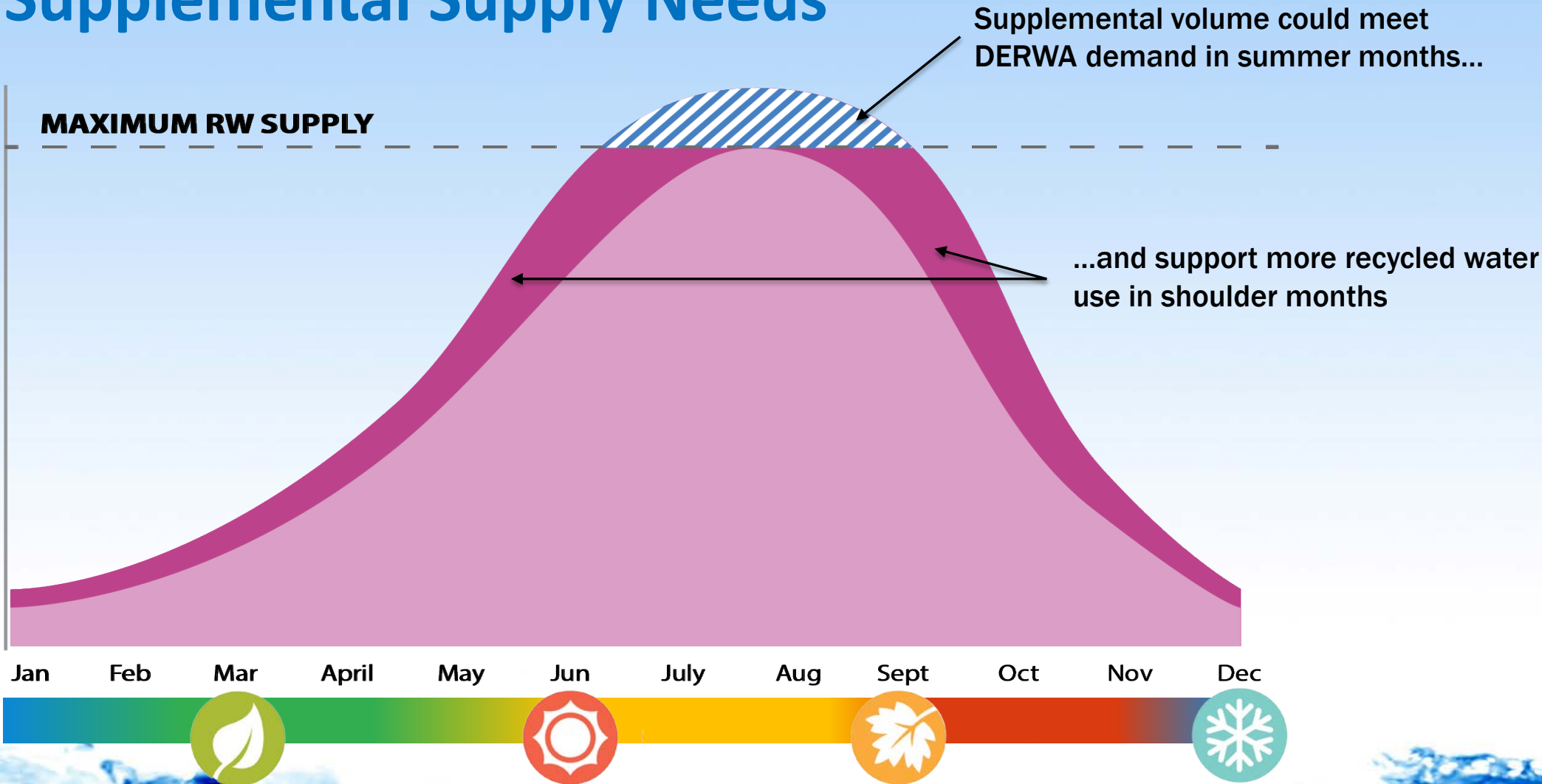
WWTP Influent – Average Dry Weather Flow



Recycled Water Supply Limitation



Supplemental Supply Needs





Central San-DERWA Diversion Project



Connection to DSRSD



San Ramon Pump Station Flow Diversion

Additional Efforts

An aerial photograph of a wastewater treatment plant. The facility features several large, rectangular concrete tanks filled with brownish water. A network of pipes and walkways runs across the tanks. In the background, there are several industrial buildings with blue roofs and a parking lot with a few vehicles. The plant is situated in a valley with rolling hills and trees in the distance under a clear blue sky.

- » Demand Management
- » Operational Storage
- » Groundwater



Questions?

Water Reliability Public Information Program

DSRSD Board Meeting
May 10, 2022

TRIVALLEY
WATER PARTNERS

Reference: Abridged Summary of Zone 7 Board Presentation, March 16, 2022



Public Information Program

Part I. Understanding the Big Picture



Public Information Program

PHASE ONE: FOUNDATIONAL EDUCATION

The first phase of the campaign will focus on where water comes from, build an understanding of different sources of water, explain what it means to import water from the State Water Project and educate residents on the roles Zone 7 and its retailers play in moving that water from source to tap.

It will also provide an introduction to the challenges to the existing system and provide a brief overview of potential solutions. Phase two will expand on the challenges and solutions.

Key Messages

Water reliability is an important concern for our region's future.

- The Tri-Valley is heavily reliant on imported water through the State Water Project.
- Explain the existing system and its challenges.
- To ensure long-term reliability, investment in additional future water supply sources, storage, and conveyance are needed.

Water conservation as a way of life will only get us so far.

- Water efficiency plays an important role in our community and is an important part of this conversation.

Our agencies are collaborating to address these issues.

- Local water agencies are focused on planning strategic solutions for diversifying our water supply.

We don't have the answers yet and want to hear our community's values.

- Public education and engagement is important to successfully investing in the right water reliability projects to keep our community vibrant.

Partners



**Dublin San Ramon
Services District**
Water, wastewater, recycled water

Outreach Techniques

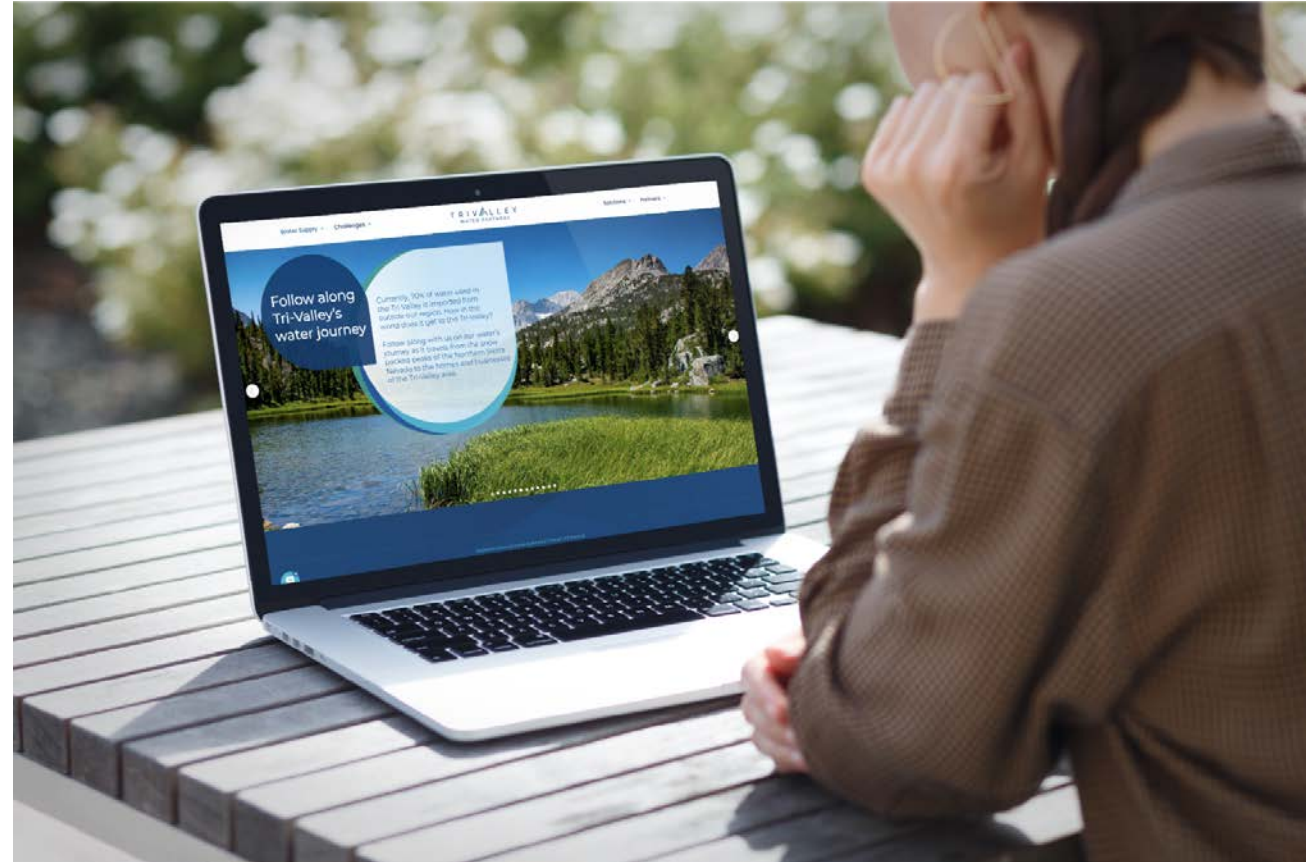
Media & Outreach Plan

Outreach tactics:

- New program mark
- Newsletters
- Social media
- Drive traffic to revamped website
- Proactively pitch presentations

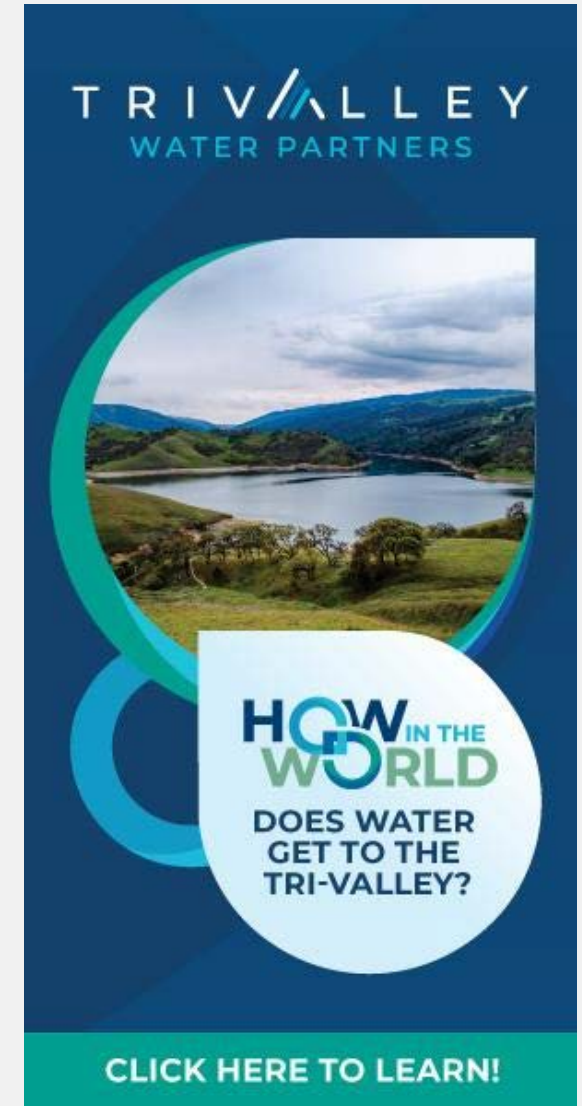
Media tactics include:

- Broadcast and Streaming Video
- Digital and Online Ads
- Print Advertising
- Direct Marketing



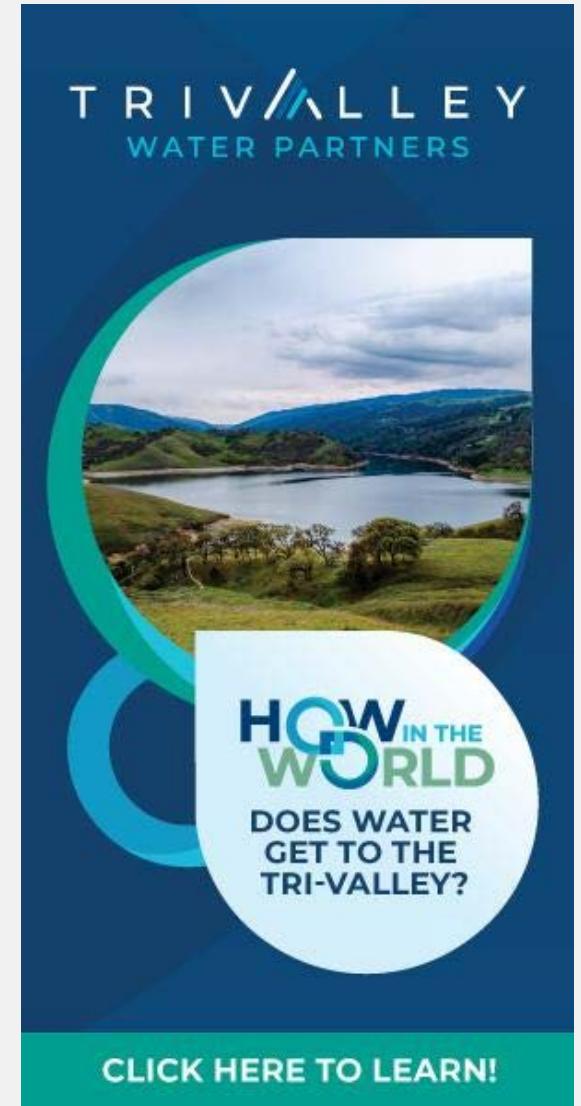
Media examples

- Partner Toolkit
- Google Ads
- Newsletter Graphics
- Facebook, Nextdoor Graphics
- Letterhead
- One-Sheets
- Survey



Media examples

- Website
- Coalition Building
- Community Engagement
- Social Media Content
- Media Relations
- Base level presentations
 - General public
- High level presentations
 - Key stakeholder groups



TRIVALLEY
WATER PARTNERS

Questions?

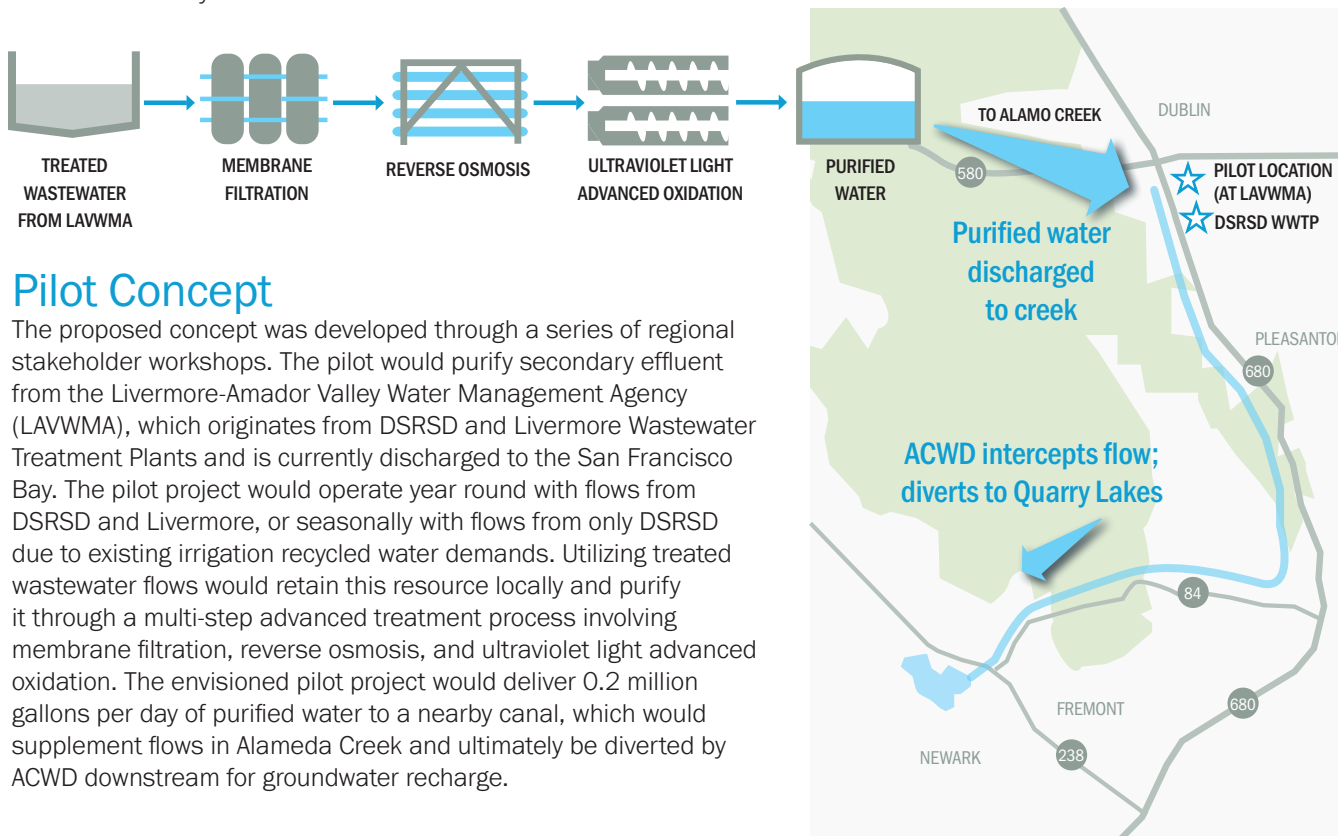




Regional Purified Water Pilot Project

Dublin San Ramon Services District (DSRSD) and Alameda County Water District (ACWD) are studying the potential to develop a purified water pilot project in collaboration with other Bay Area water and wastewater agencies. The pilot would leverage existing resources and infrastructure to demonstrate and build public awareness around the benefits of purified water and regional collaboration.

Purified Water is one of multiple water supply options being explored by Bay Area agencies to improve long-term water resiliency for the region. Purified water is produced using advanced treatment technologies to purify treated wastewater effluent to a high quality that is suitable for augmenting drinking water sources. Purified water is a new, locally available and sustainable supply that makes use of a resource that would otherwise be discharged to San Francisco Bay.



Pilot Concept

The proposed concept was developed through a series of regional stakeholder workshops. The pilot would purify secondary effluent from the Livermore-Amador Valley Water Management Agency (LAVWMA), which originates from DSRSD and Livermore Wastewater Treatment Plants and is currently discharged to the San Francisco Bay. The pilot project would operate year round with flows from DSRSD and Livermore, or seasonally with flows from only DSRSD due to existing irrigation recycled water demands. Utilizing treated wastewater flows would retain this resource locally and purify it through a multi-step advanced treatment process involving membrane filtration, reverse osmosis, and ultraviolet light advanced oxidation. The envisioned pilot project would deliver 0.2 million gallons per day of purified water to a nearby canal, which would supplement flows in Alameda Creek and ultimately be diverted by ACWD downstream for groundwater recharge.


Key Benefits of Purified Water Pilot


- Provides an **interactive public outreach opportunity**.
- Demonstrates the **safety and effectiveness of purified water technology**.
- **Collects data to inform future** full-scale regional purified water project options.
- Promotes **regional collaboration**.
- **Leverages existing infrastructure and makes use of wastewater** currently discharged to San Francisco Bay.

Small-scale treatment system (~50 ft x 60 ft)

\$2.3M Capital Cost
(planning level estimate)

\$340,000 O&M
for a two-year pilot






0.2MGD

2-year pilot project

Grant funding potentially available



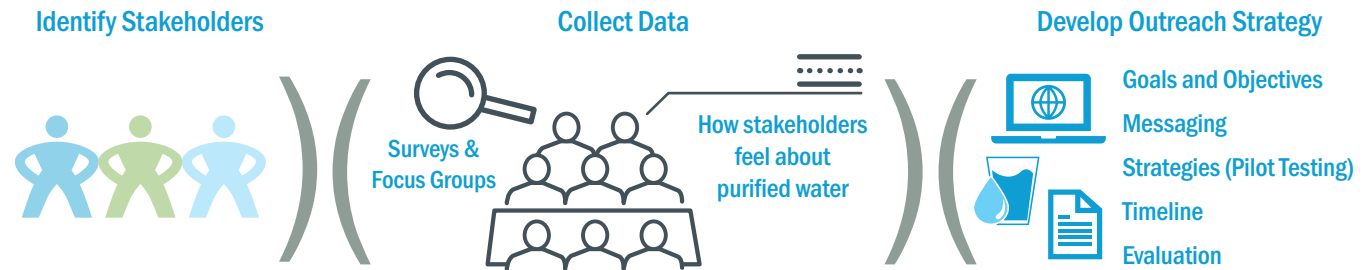
Potential Partner Agencies

These agencies have provided input to develop the pilot concept and are evaluating potential participation in Phase 2 of the project.

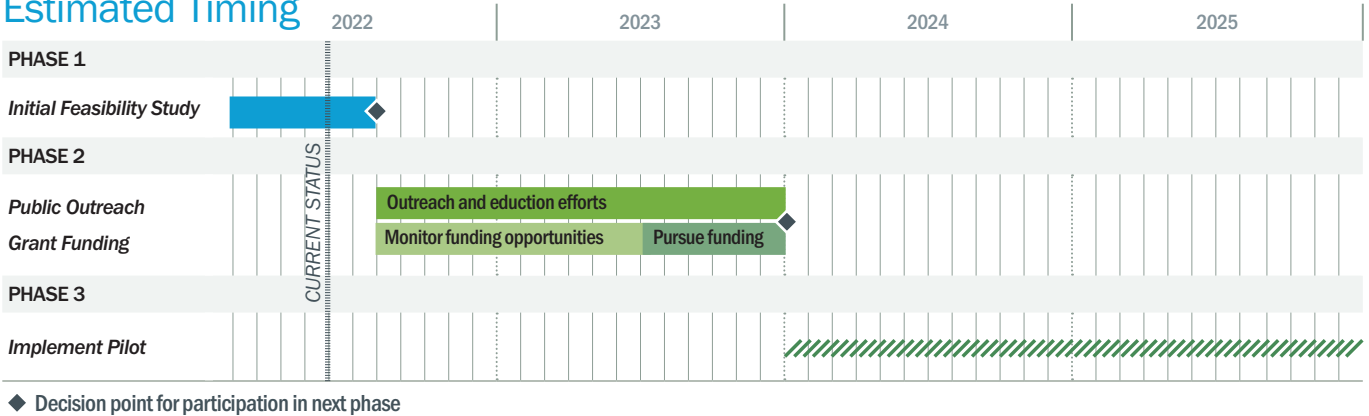
- Alameda County Water District
- City of Livermore
- Dublin San Ramon Services District
- Livermore-Amador Valley Water Management Agency
- Union Sanitary District
- Zone 7 Water Agency

Public Outreach and Education

The pilot would be designed to enable public tours and other interactive outreach components—such as displaying real-time water quality data and producing purified water on-site.



Estimated Timing



Regional Collaboration

The purified water pilot would bring together partners currently involved in other ongoing regional efforts and build upon both the Tri-City and the Tri-Valley studies. The purified water pilot would benefit these ongoing efforts and the broader region by performing public outreach and education and collecting data to inform future full-scale reuse efforts and/or water transfer or exchange partnerships in the Bay Area.

