

Regional Purified Water Pilot Project

BACWA Recycled Water Committee Meeting

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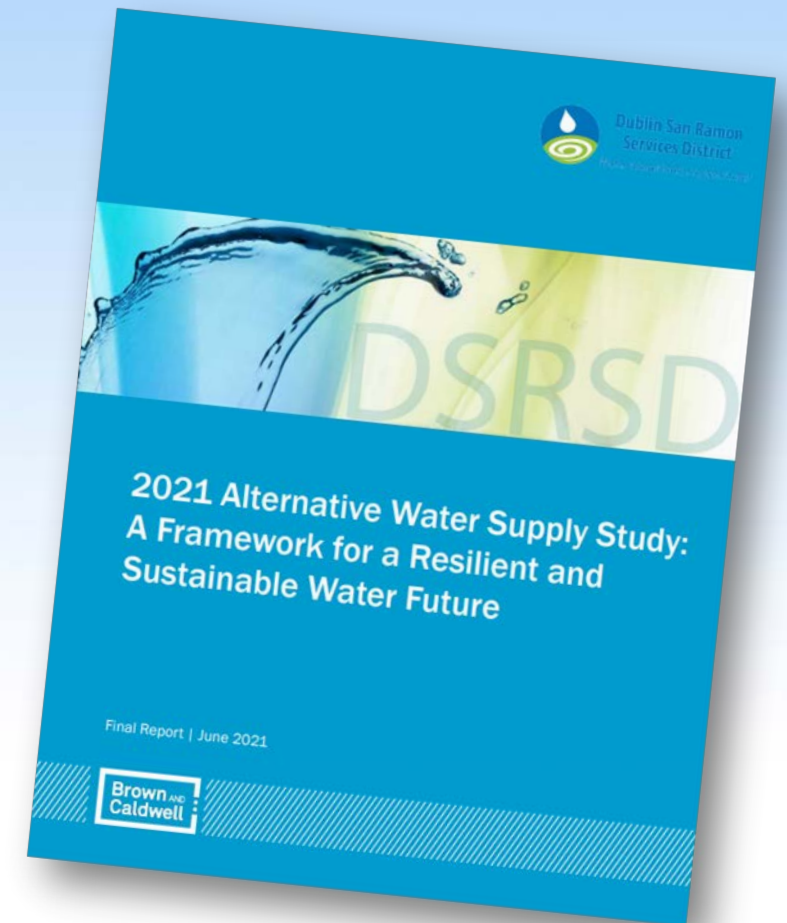


**Dublin San Ramon
Services District**

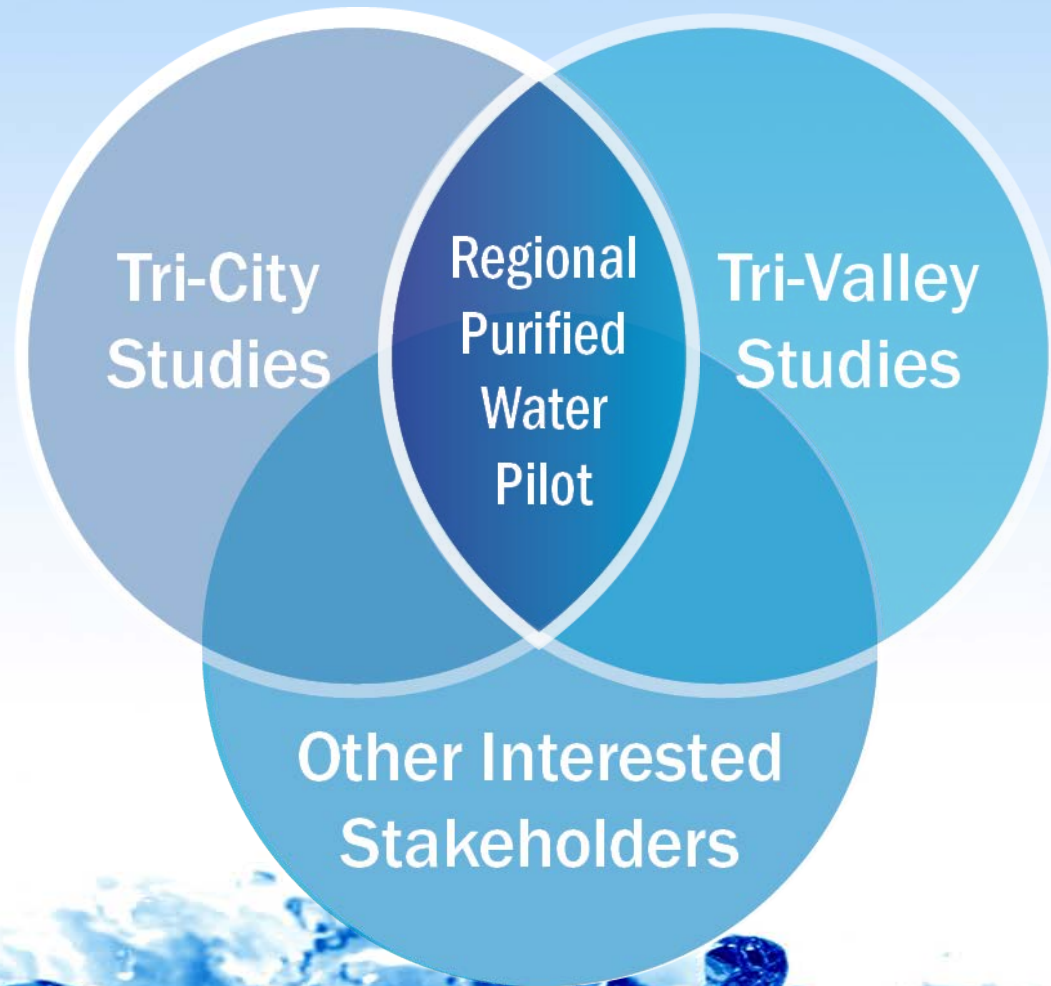
Water, wastewater, recycled water

Background

- » In 2021, DSRSD completed a study that recommended developing a purified water pilot project in partnership with Alameda County Water District and other key stakeholders
- » Purified water is one of multiple water supply options being explored to improve long-term water resiliency for the region
- » Feasibility study completed in mid-2022



Pilot Complements Other Regional Efforts

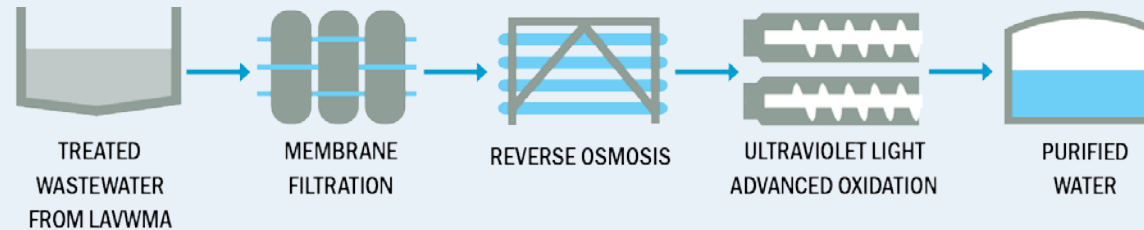


Potential pilot project partners:



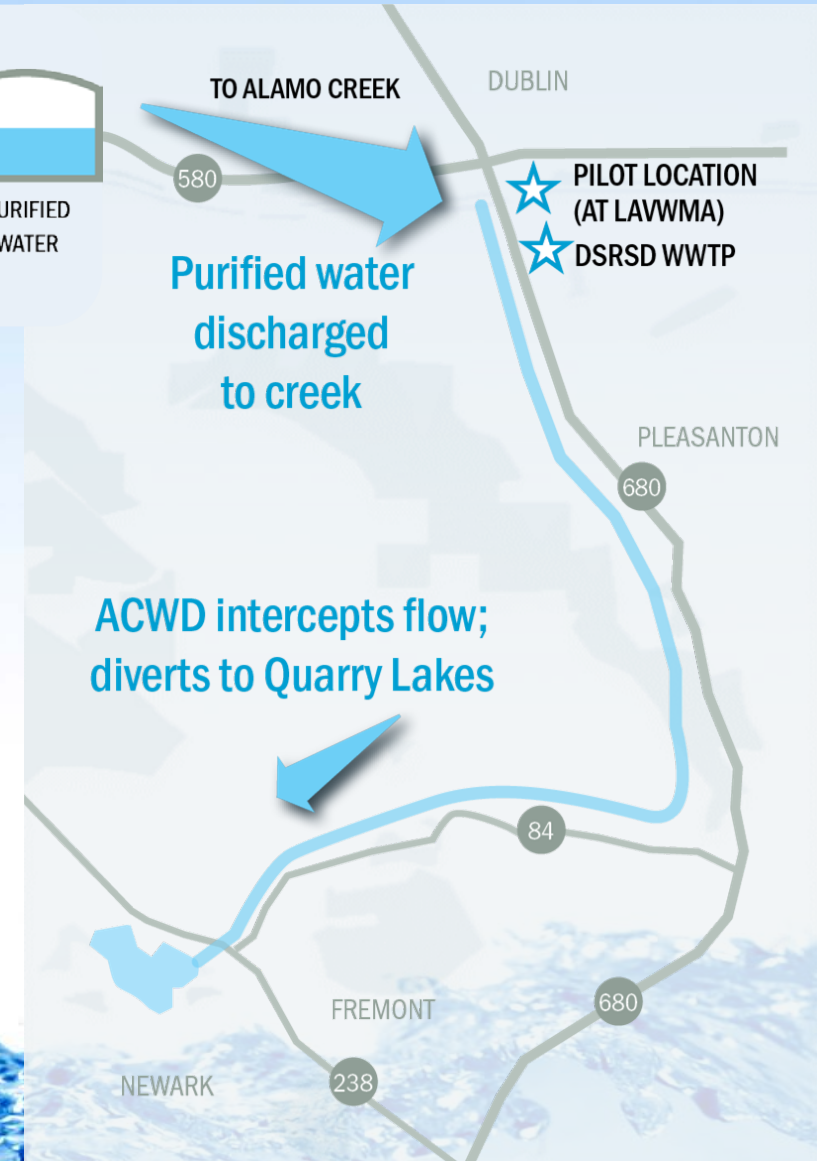
Regional Purified Water Pilot Concept

Small, temporary advanced treatment system at LAVWMA:

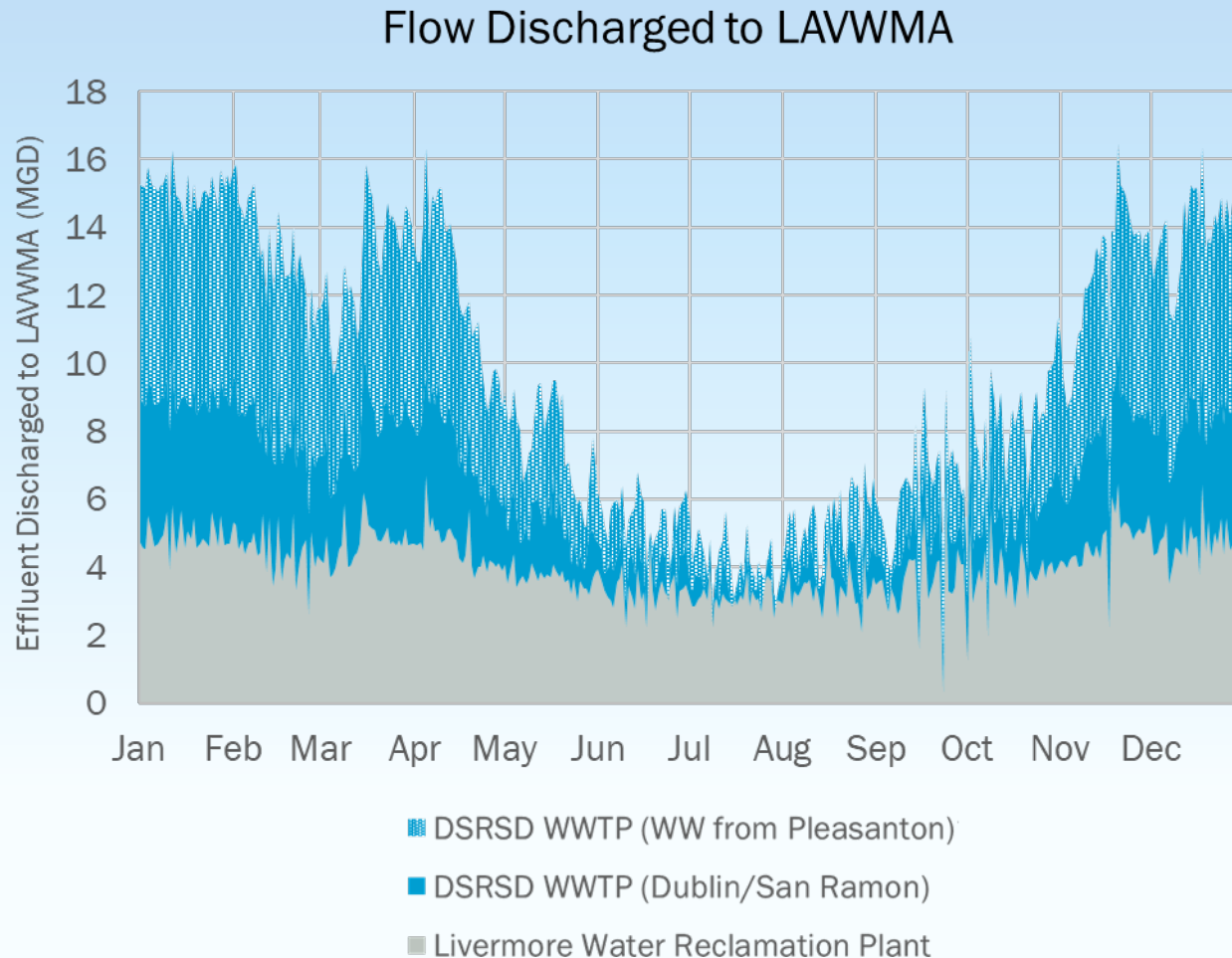


Pilot project would...

- » 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



Source Supply 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)

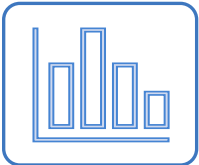
Benefits of Pilot Project and Similar Systems



Public outreach and education



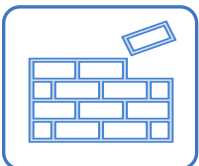
Demonstrates purified water technology



Data collection



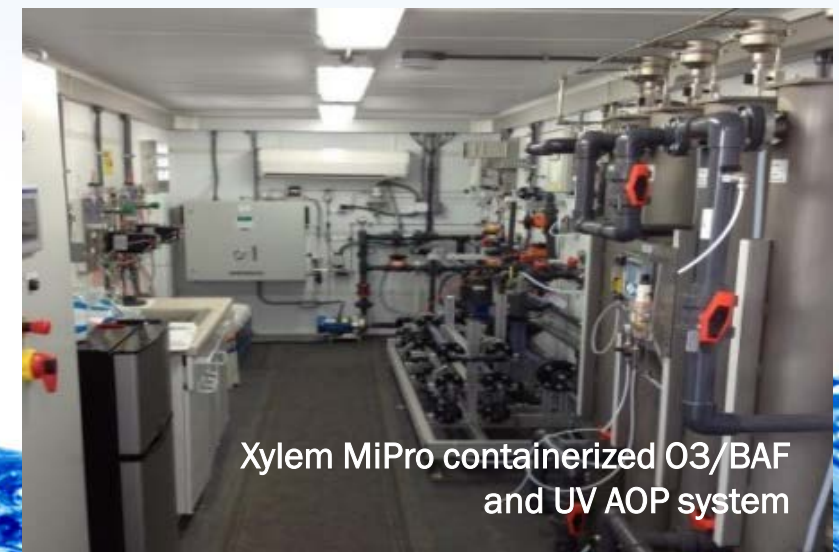
Promotes regional collaboration



Leverages existing infrastructure



Ventura, CA



Xylem MiPro containerized O3/BAF and UV AOP system

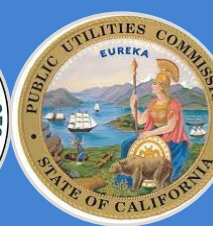
Capital and O&M Planning Level Cost Estimate

Capital Cost	\$2.3 Million
O&M Cost (2 years operation)	\$340,000
Total Estimate for 2-year pilot	\$2.7 Million

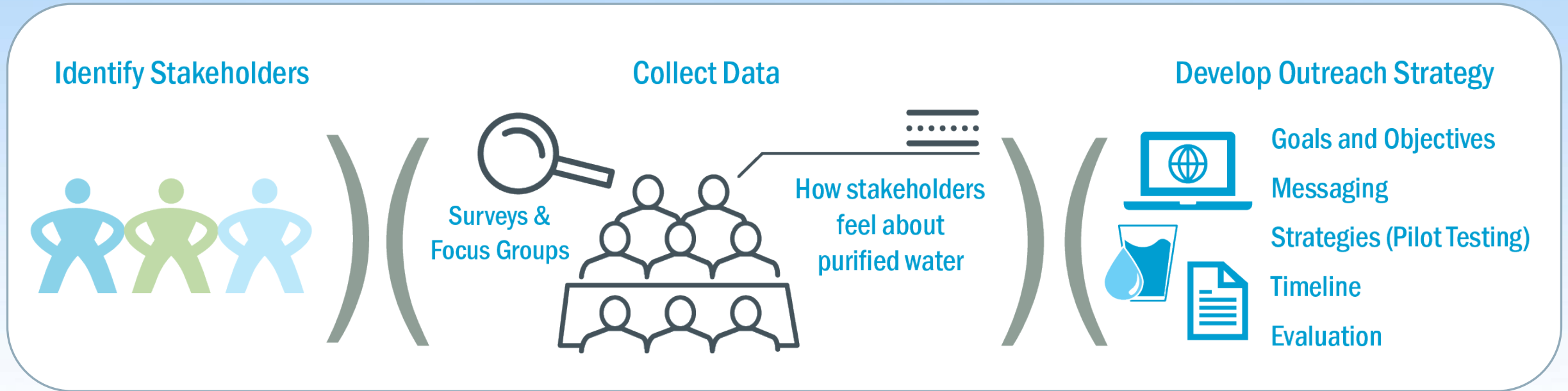
Estimate does not include public outreach, operator staff time for equipment checks and sampling, or pilot removal after decommissioning. Costs do not reflect price volatility from recent supply chain disruptions.

Source: Brown and Caldwell

**Grant funding potentially
available from various federal,
state, and local programs**



Public Outreach and Education

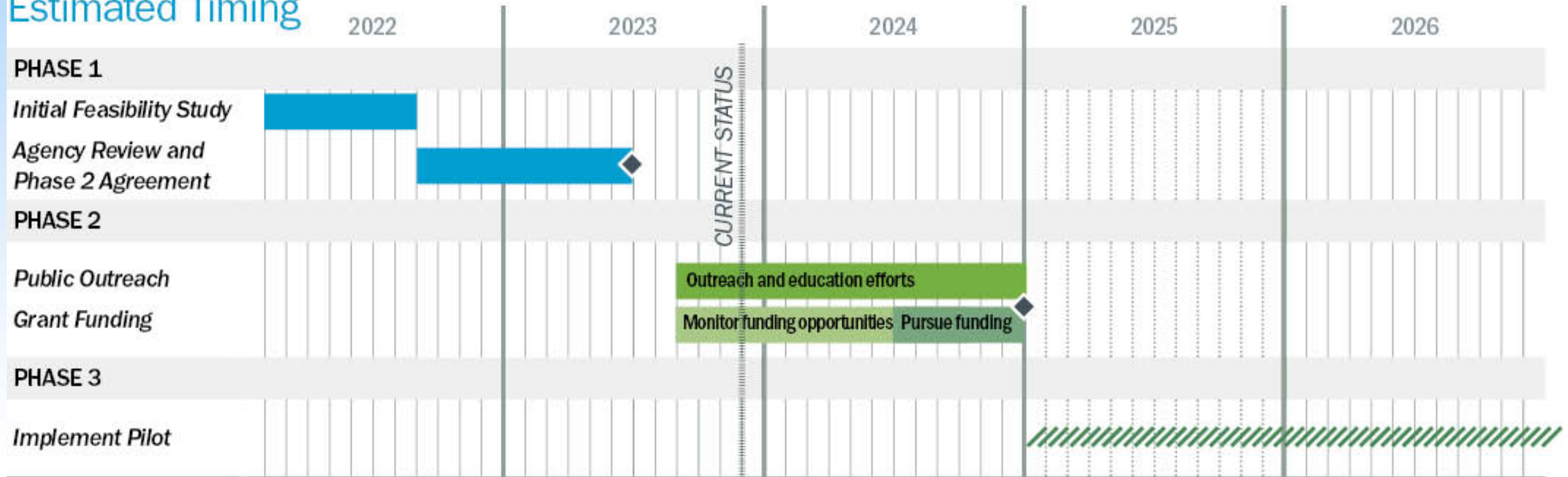


The pilot would be designed to enable public tours and other interactive outreach components, such as displaying real-time water quality data and producing purified water on-site.

Source: Brown and Caldwell

Phased Schedule Approach

Estimated Timing



◆ Decision point for participation in next phase

Next Steps

- » Issue Request for Proposal for outreach support
- » Prepare public outreach and education materials
- » Pursue funding





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Questions?

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