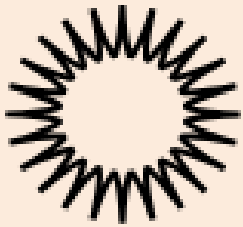


OUR CONNECTION



SPUR



Valley Water



AGENDA

Introductions:

Keisha Bryant, Brandon Adriano, & Saira Singh Public Information Representatives, Office of Civic Engagement Valley Water

Laura Feinstein, Sustainability and Resilience Policy Director for SPUR

Jackson Nutt-Beers, Senior Associate of Public Engagement

Kirsten Struve, Assistant Officer Water Supply Division Valley Water

Background:

Valley Water and the Silicon Valley Advanced Water Purification Center and SPUR's efforts on water

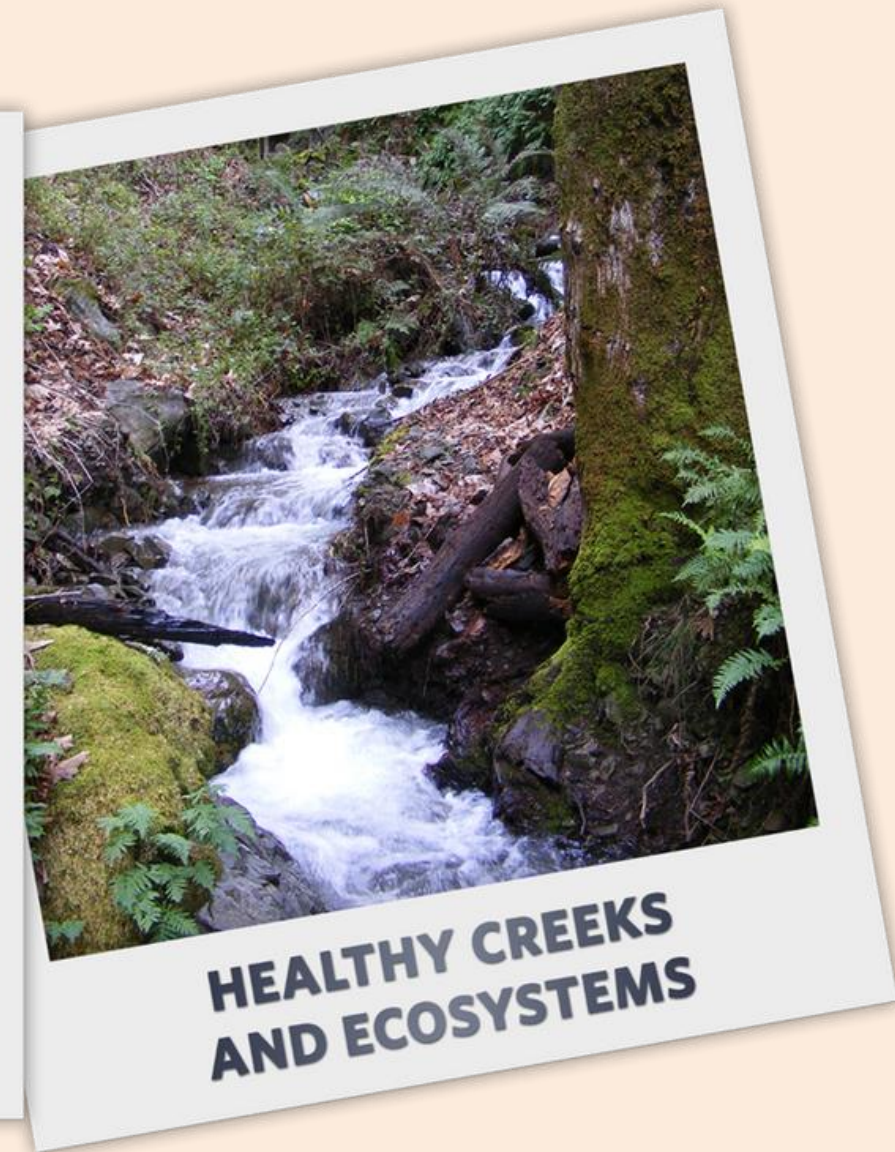
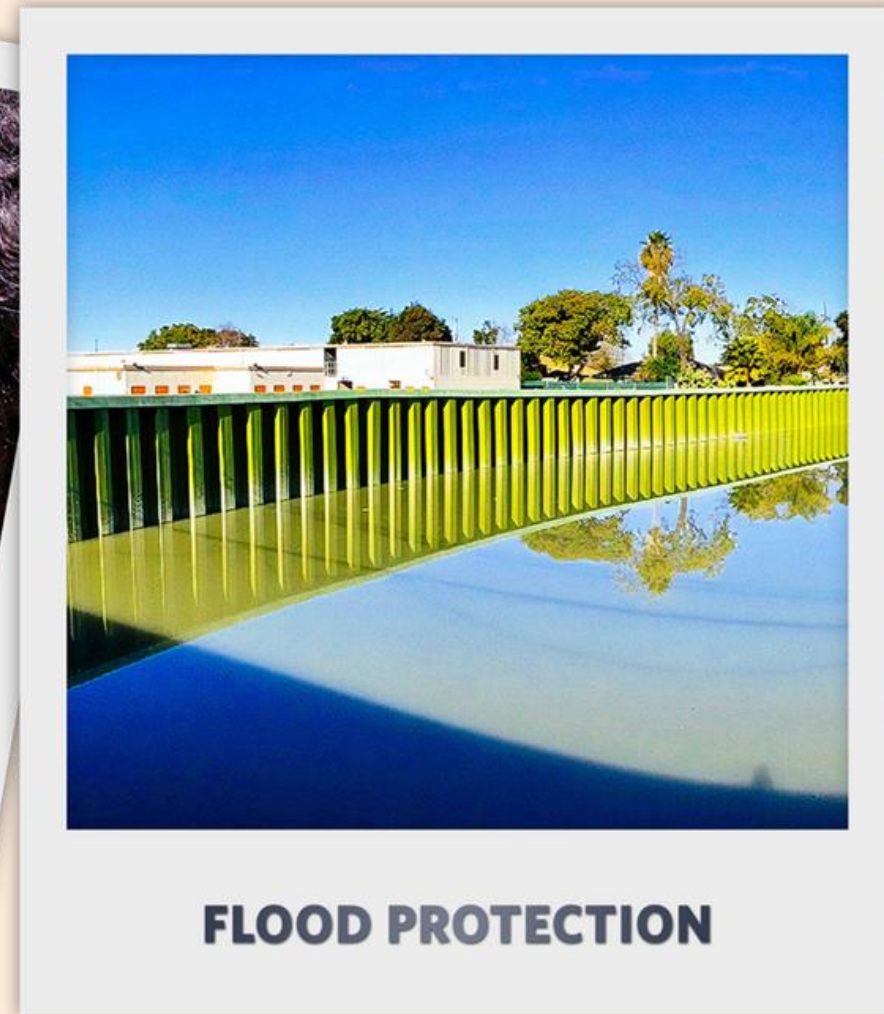
Discussion:

Recycled and Purified Water as one solution to Santa Clara County's Water Supply

Silicon Valley Advanced Water Purification Center Tour



OUR MISSION



COMPREHENSIVE WATER SUPPLY

- 10 reservoirs
- 3 pumpstations
- 142 miles of pipelines
- 3 water treatment plants
- 1 water purification center
- 285 acres of recharge ponds



Anderson Reservoir



Silicon Valley Advanced Water Purification Center



Rincónada Treatment Plant



SANTA CLARA COUNTY'S WATER SUPPLY

Water Supply Breakdown



Santa Clara County WATER SUPPLIES

Imported Water 50%
Water from the Sierra
Snowpack that melts and
fills state reservoirs

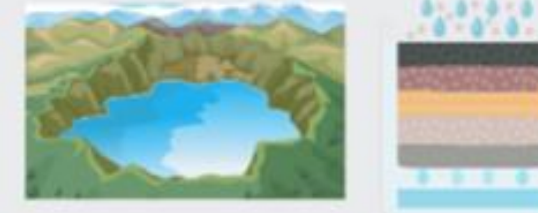
40% Delta supplies
10% Hetch Hetchy



Water Reuse 5%
Treated wastewater
used as recycled water



Local Water 30%
Rainwater captured in
Valley Water reservoirs and
natural groundwater



Conservation 15%
Consistent short and long-
term reductions in water
use



A NEW SOURCE OF WATER



ADVANCED WATER PURIFICATION PROCESS

HIGHLY TREATED WASTEWATER

This water originally comes from the drains of homes and businesses and is treated three times at a wastewater facility.



#1 MICROFILTRATION

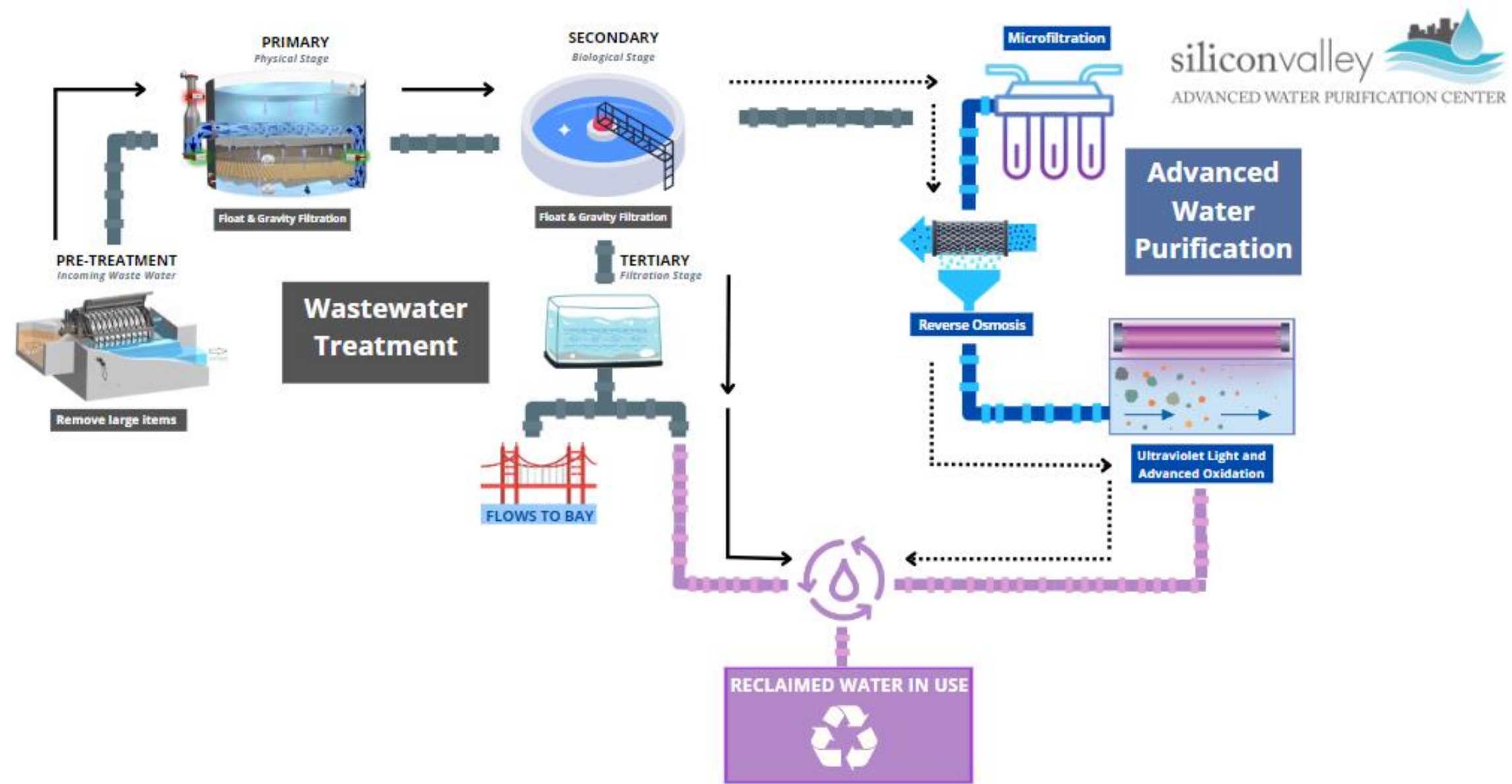


#2 REVERSE OSMOSIS



#3 UV LIGHT DISINFECTION AND ADVANCED OXIDATION

THE PURIFICATION PROCESS



COMMUNITY OUTREACH



- Gain public acceptance of the Purified Water Project
- Provide opportunities for learning while addressing concerns



Build key stakeholder support

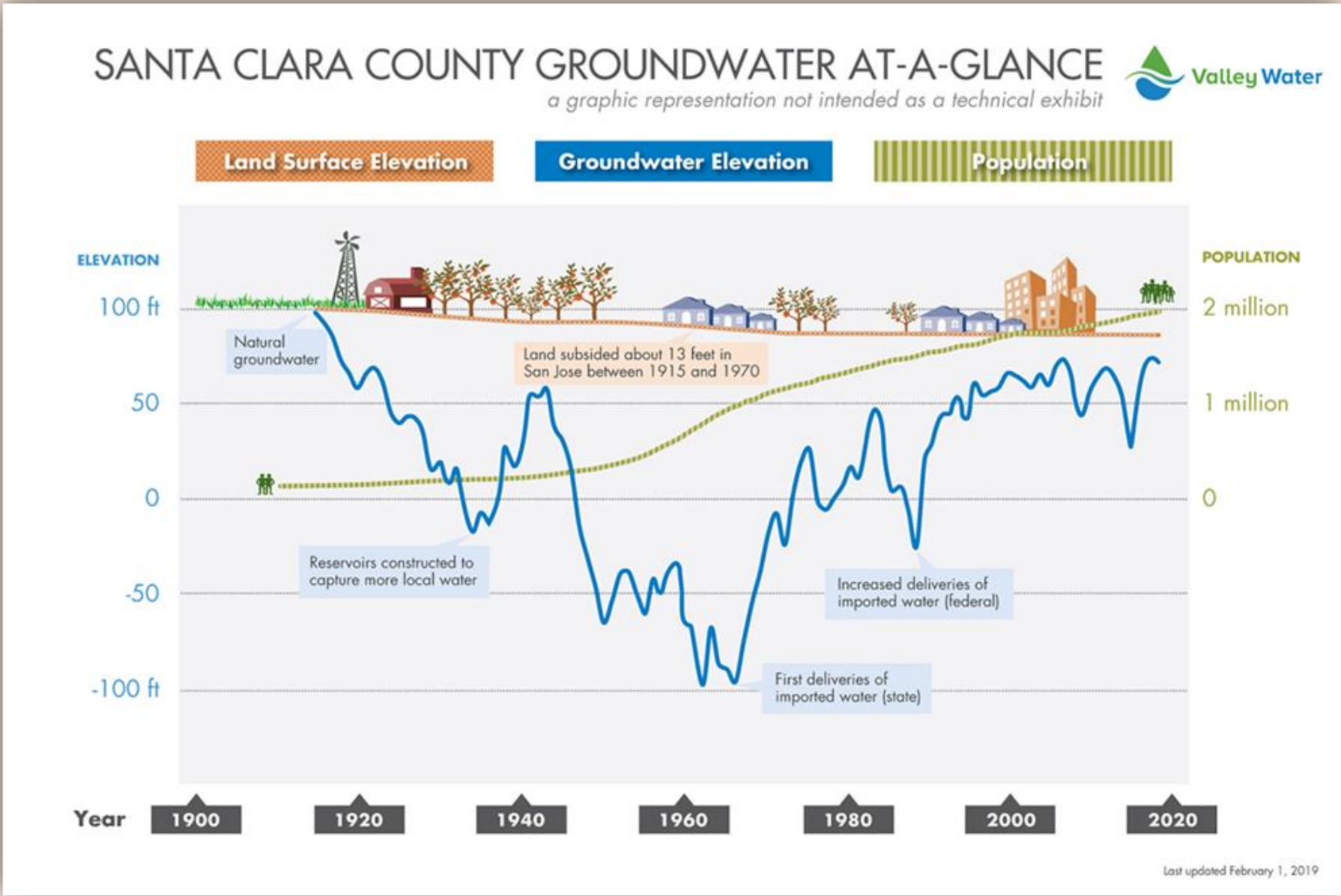


Obtain visible and vocal demonstrations of support from community leaders



Mitigate concerns of potable reuse

WHY WATER REUSE




Protects us from the impacts of climate change



30 Drought resilient, sustainable, and locally controlled



Protects groundwater supplies



Reduces dependency on imported water

WATER SUPPLY MASTER PLAN



1. Secure existing supplies and infrastructure

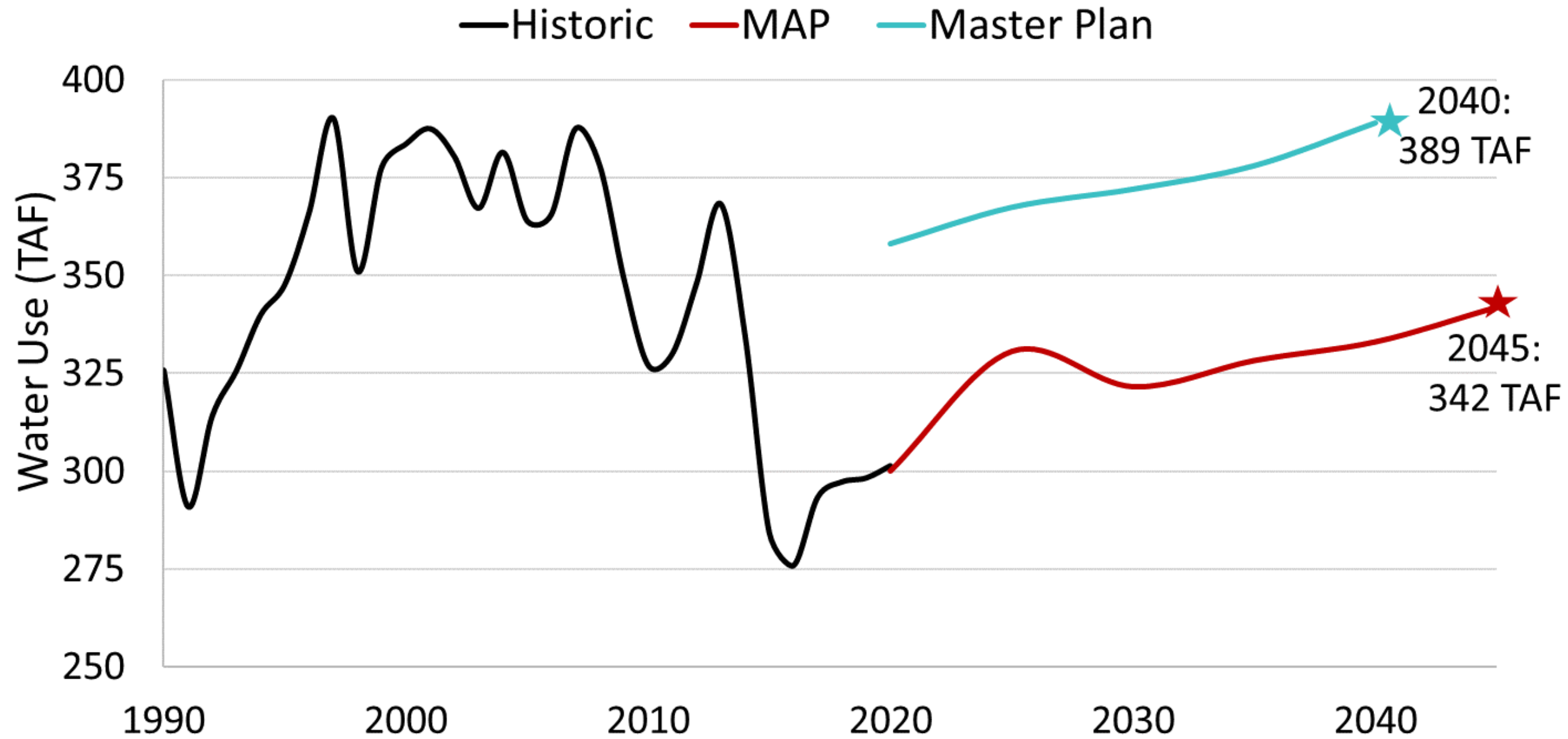


2. Expand conservation and reuse



3. Optimize the system

DEMAND PROJECTIONS



Water use dropped 25% in the last 5 years.

2017 - 148 Gallons per person/day
2022 - 111 Gallons per person/day

County population increased by 25% over the past 30 years. Water demand has decreased by 8% in that time (1990-2020)

COUNTY WIDE WATER REUSE MASTER PLAN (CORE PLAN)

PROGRAM OBJECTIVES

- Identify **water available** for potable and non-potable reuse
- Evaluate opportunities for **system integration**
- Guide expansion via **interagency agreements** and governance structures
- Generate support by **engaging stakeholders**
- **Goal: 24,000 AF of Potable Reuse**



COUNTYWIDE WATER REUSE MASTER PLANNING

Reuse

Potable

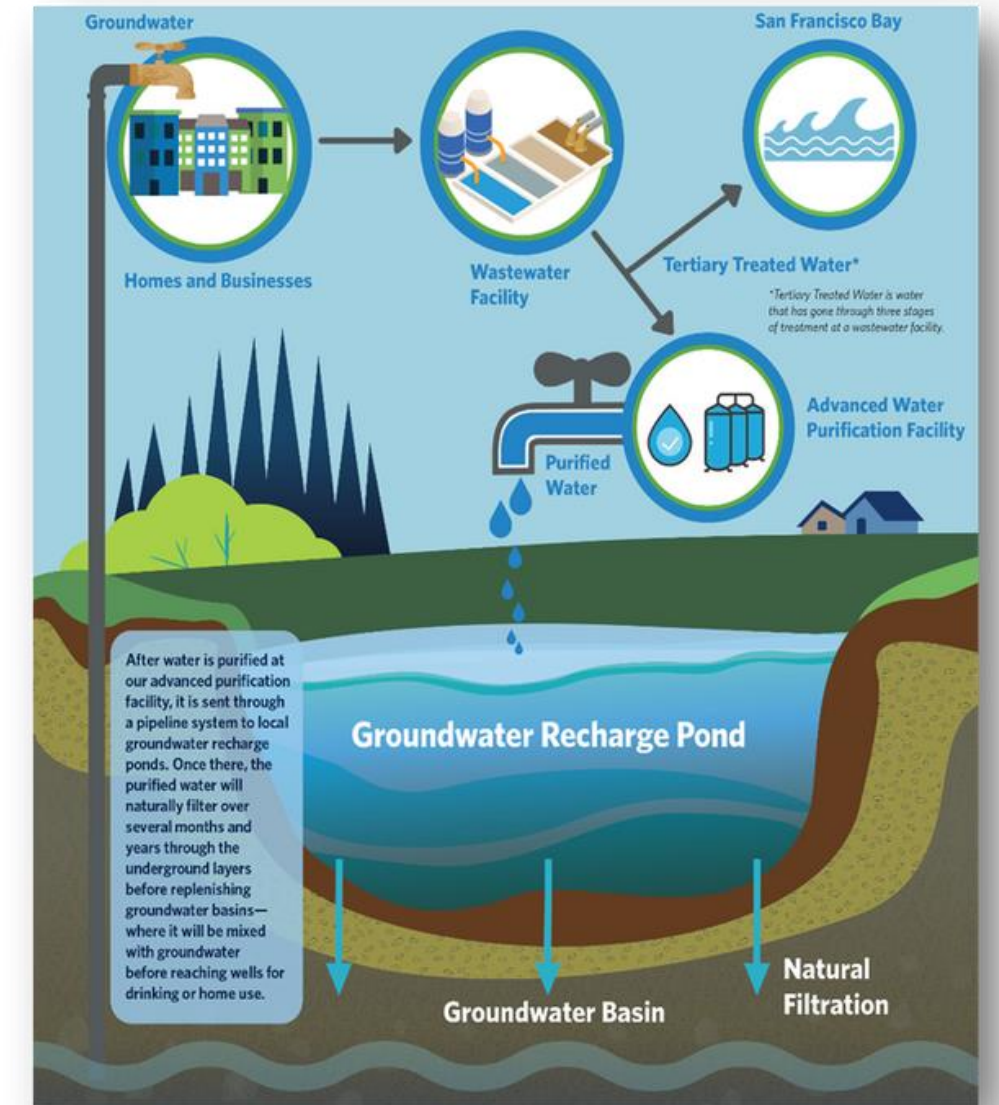
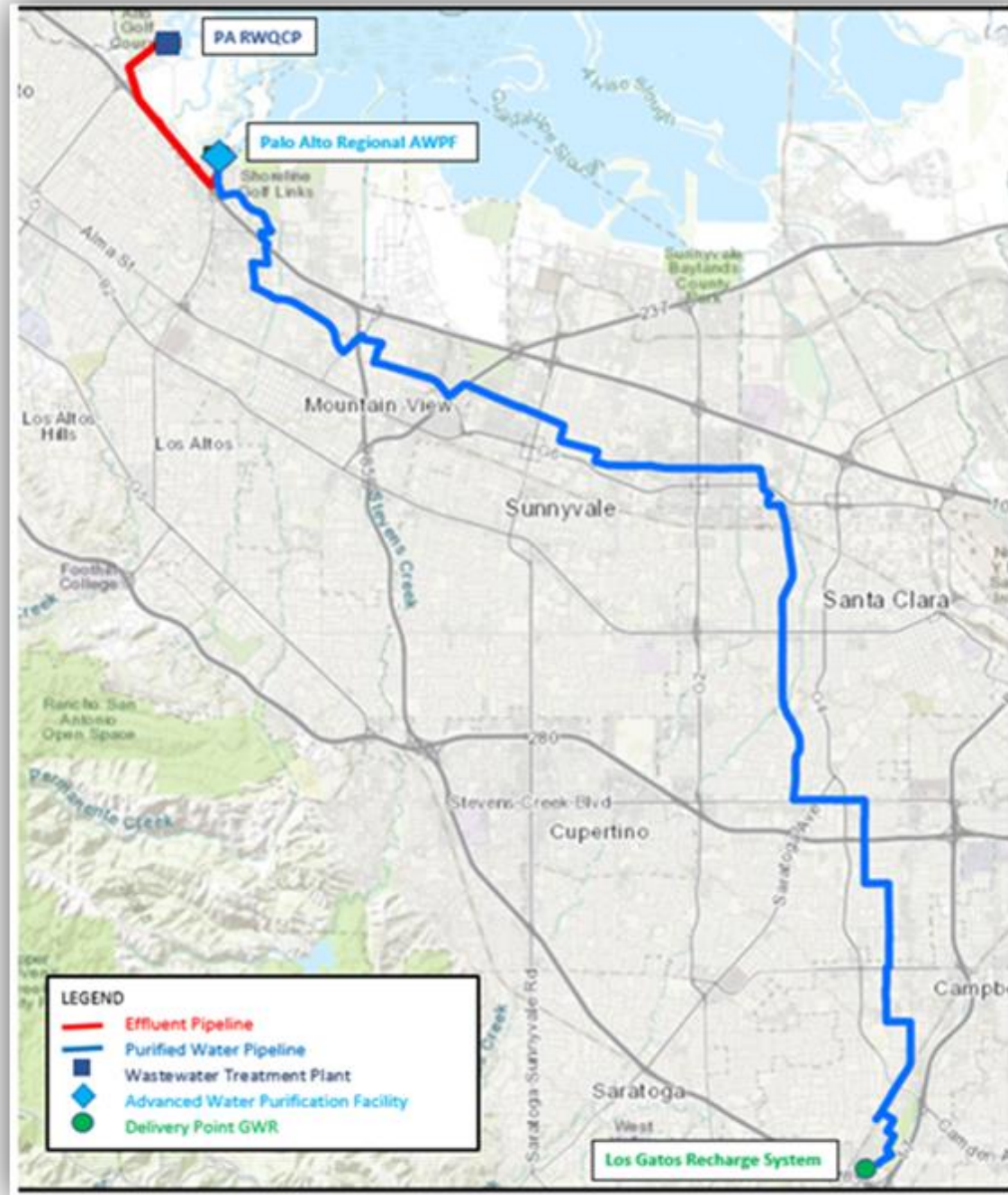
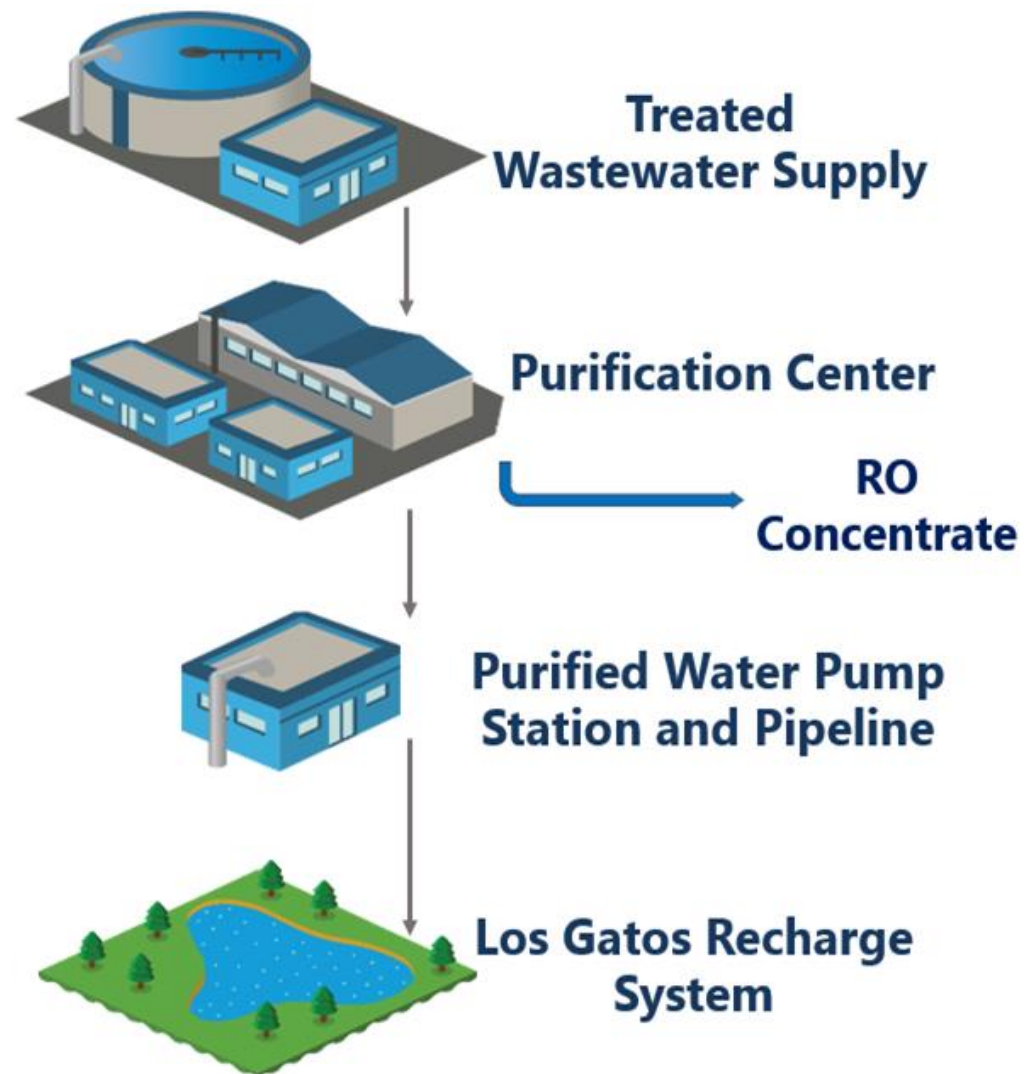
Non-
Potable

IPR

DPR

Enhanced

PURIFIED WATER PROJECT



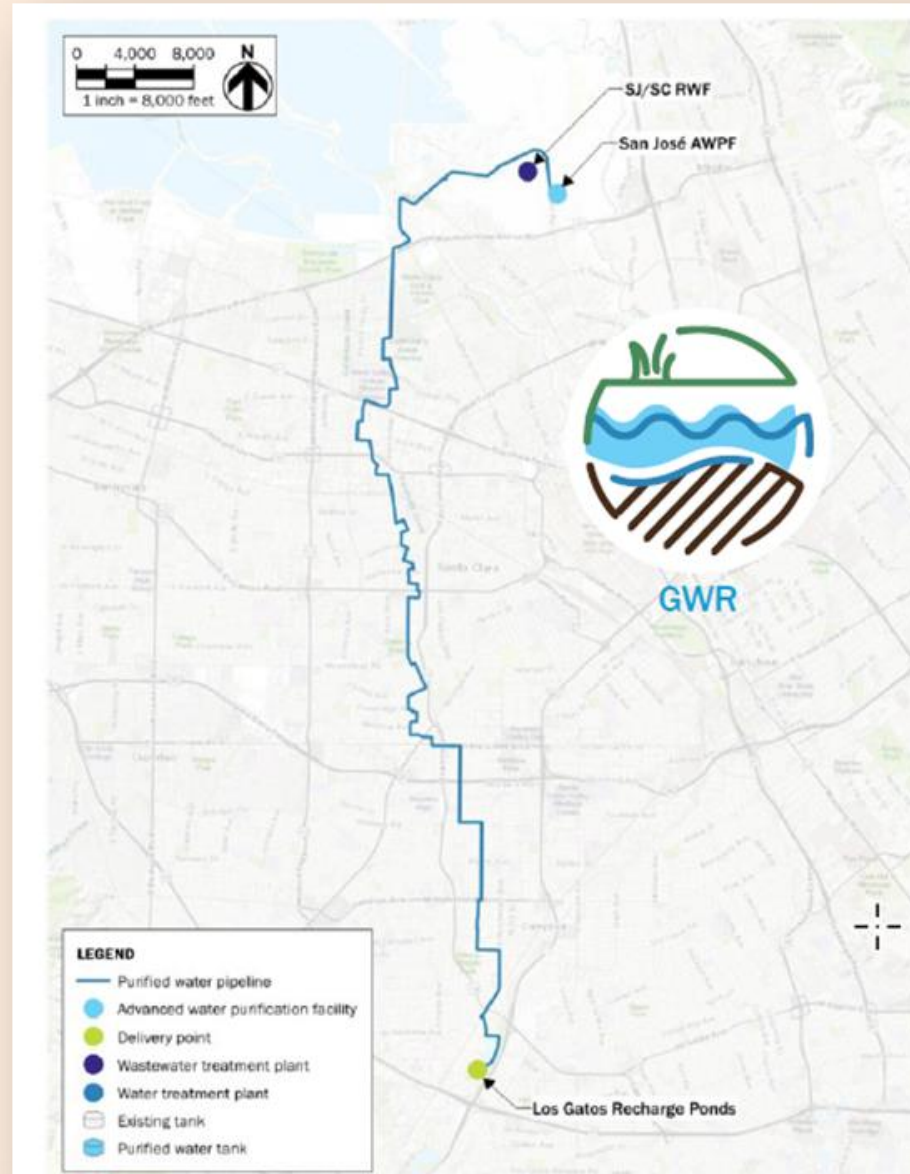
ALTERNATE PROJECT DELIVERY METHOD

- Using Design-Build-Finance-Operate-Maintain Delivery Method. A private entity delivers the project, Valley Water retains ownership and partners with the private entity as part of a P3.
- Cost: about \$1.2 billion

**(P3) Public Private
Partnership**



CORE PLAN WATER REUSE PORTFOLIOS SAN JOSE



**Indirect
Potable Reuse**



**Raw Water
Augmentation**



**Treated Water
Augmentation**



QUESTIONS?

THANK YOU FOR LISTENING

