



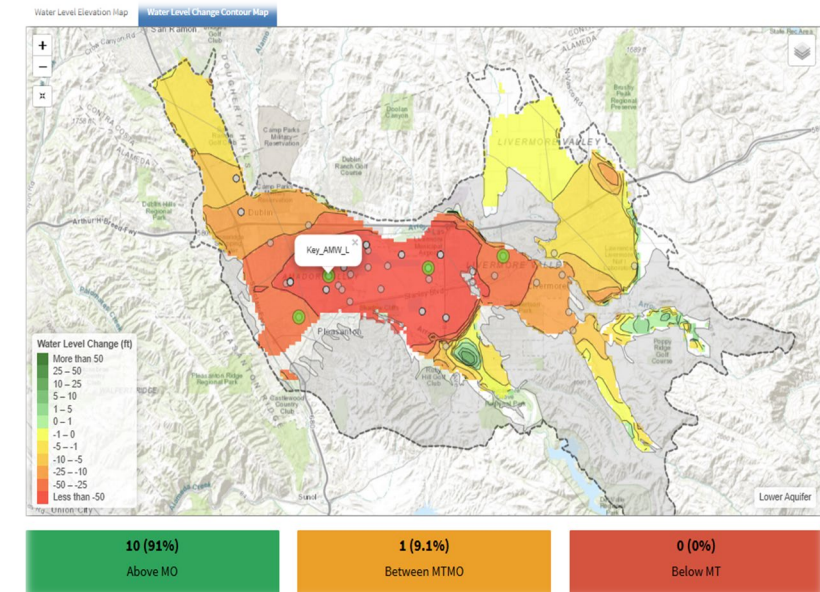
Monitoring Well Network Update

Water Resources Committee

July 28, 2026

Outline

1. Background
2. Groundwater Monitoring
3. Monitoring Advancements
4. Ongoing Well Maintenance
5. Look Ahead
6. Questions



Strategic Plan Alignment

GOAL D

Groundwater Management

Manage and protect the groundwater basin as the State designated Groundwater Sustainability Agency.

Initiative

11

Manage the Groundwater Sustainability Agency and implement the Groundwater Sustainability Plan

Monitoring Programs

Surface Water



Groundwater Wells



Mining Area



LEGEND

- Upper Aquifer
- Lower Aquifer
- Deep Aquifer
- SW Monitor
- Pond Monitoring Point
- Climate Stations
- HOP
- Mocho
- COL
- Stoneridge
- Basin Regions
- Fringe
- Main
- Upland
- Streams
- Mining Area Ponds

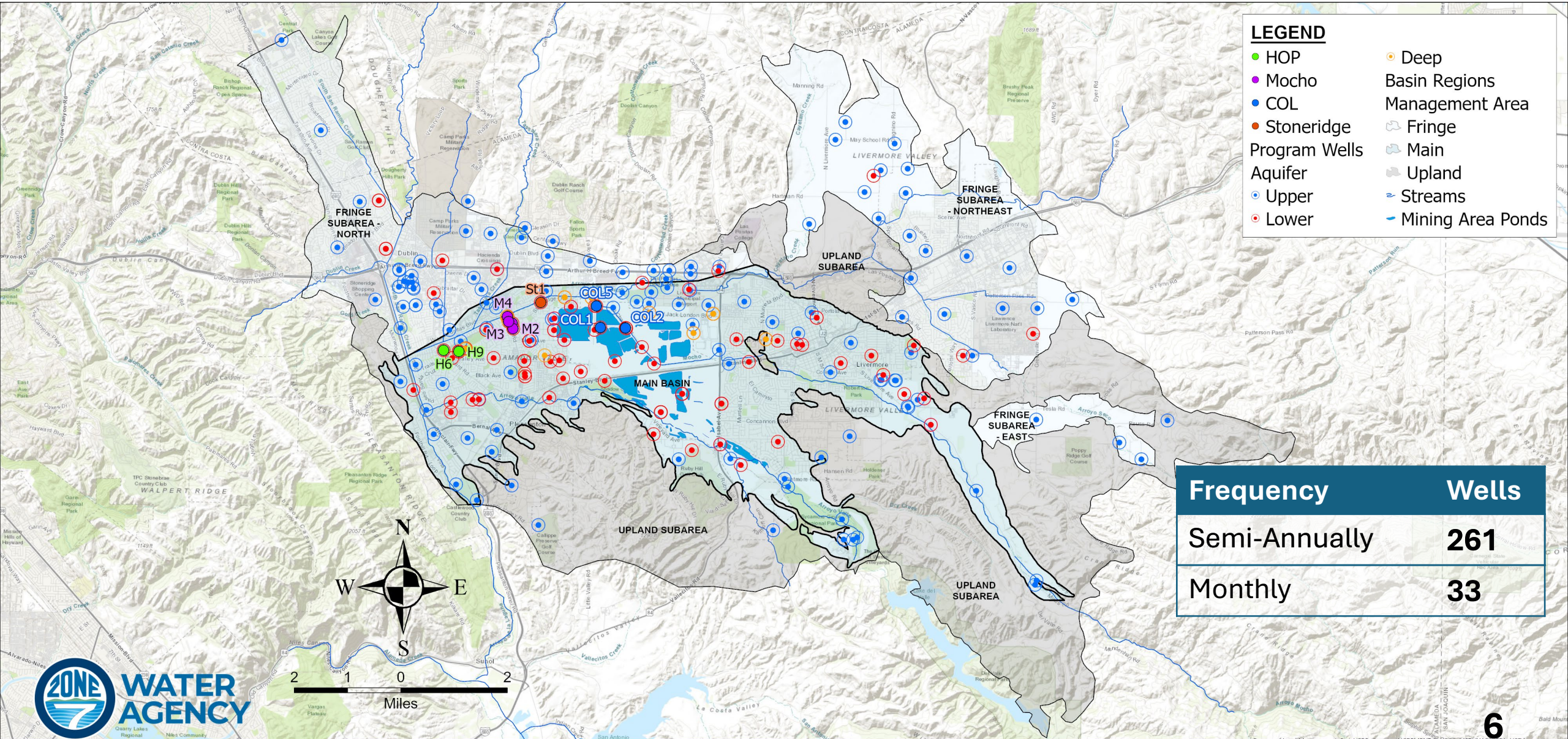
Climatological



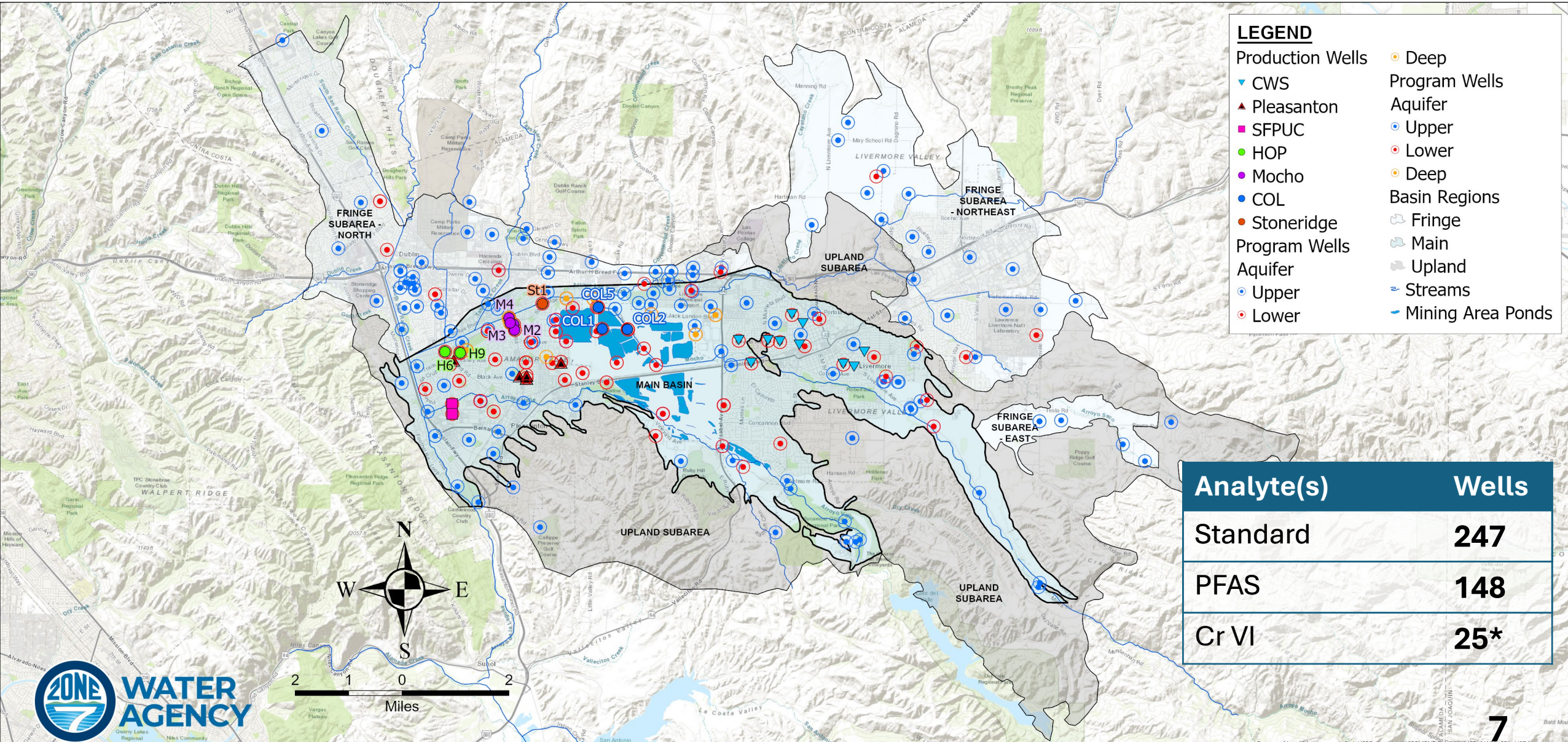
Groundwater Monitoring Networks



Groundwater Elevation Monitoring Wells



Groundwater Quality Monitoring Program



Telemetric Monitoring Network



Telemetric Monitoring Network

GW Data Logging equipped with Telemetry

Telemetry Benefits

- Reduce Site visits
- Real-time data
- Applied monitoring

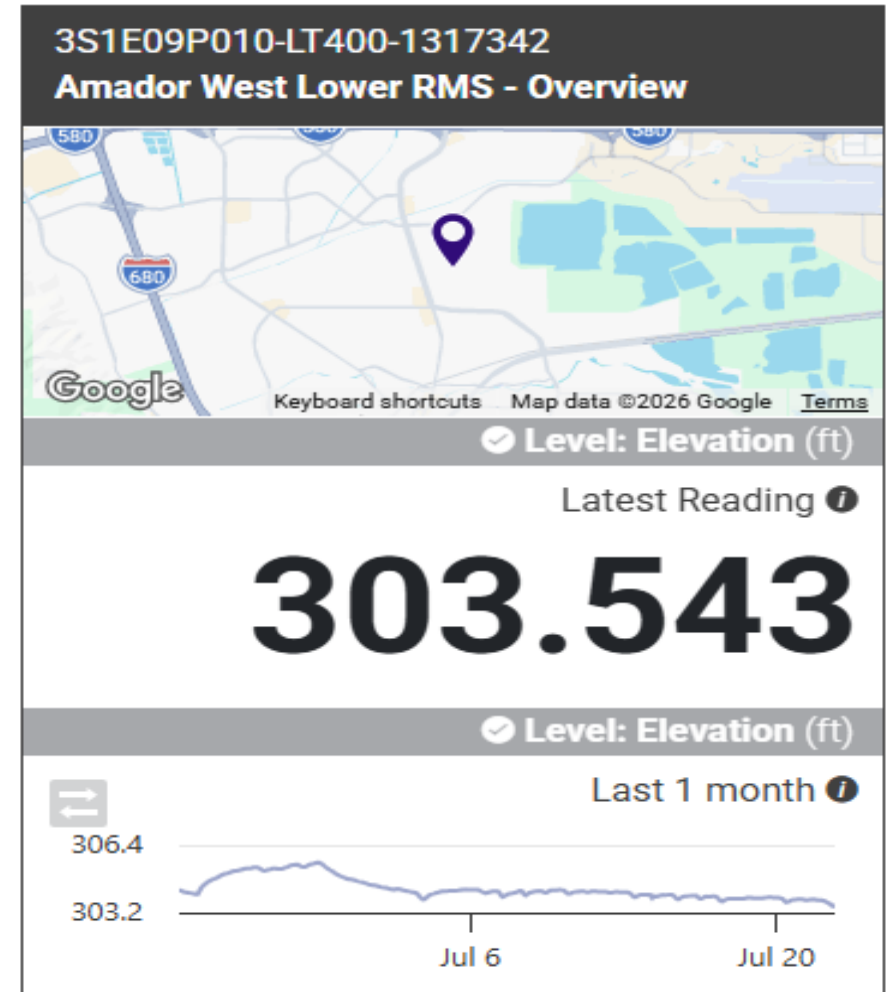
Compact In-Well design

Saves Time & Money

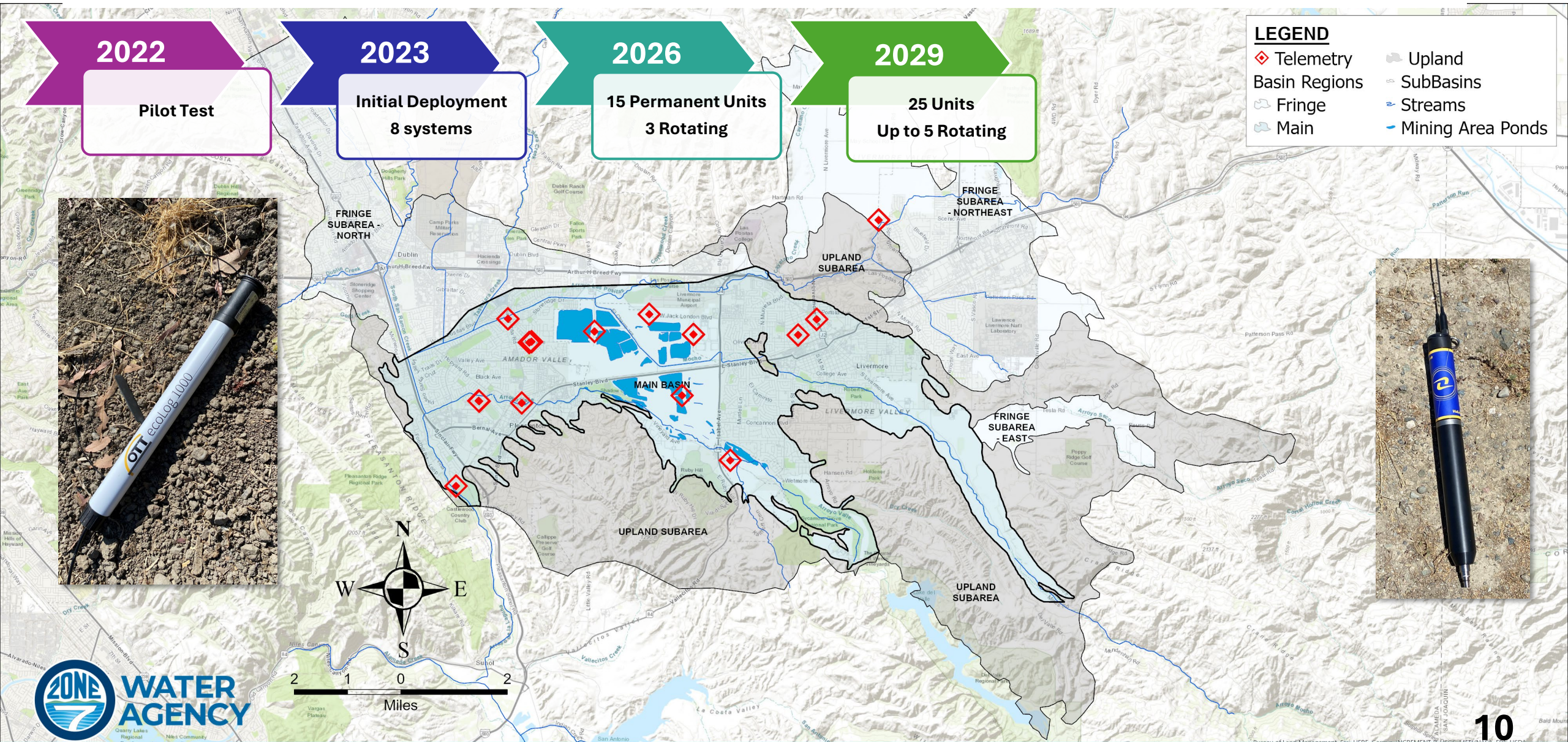


Operational Costs (18 wells) *		
Frequency	Telemetry	Field Visits
Annually	\$ 6,000	\$ 11,000
Annual Telemetry Operational Savings:		\$ 5,000

*Rounded



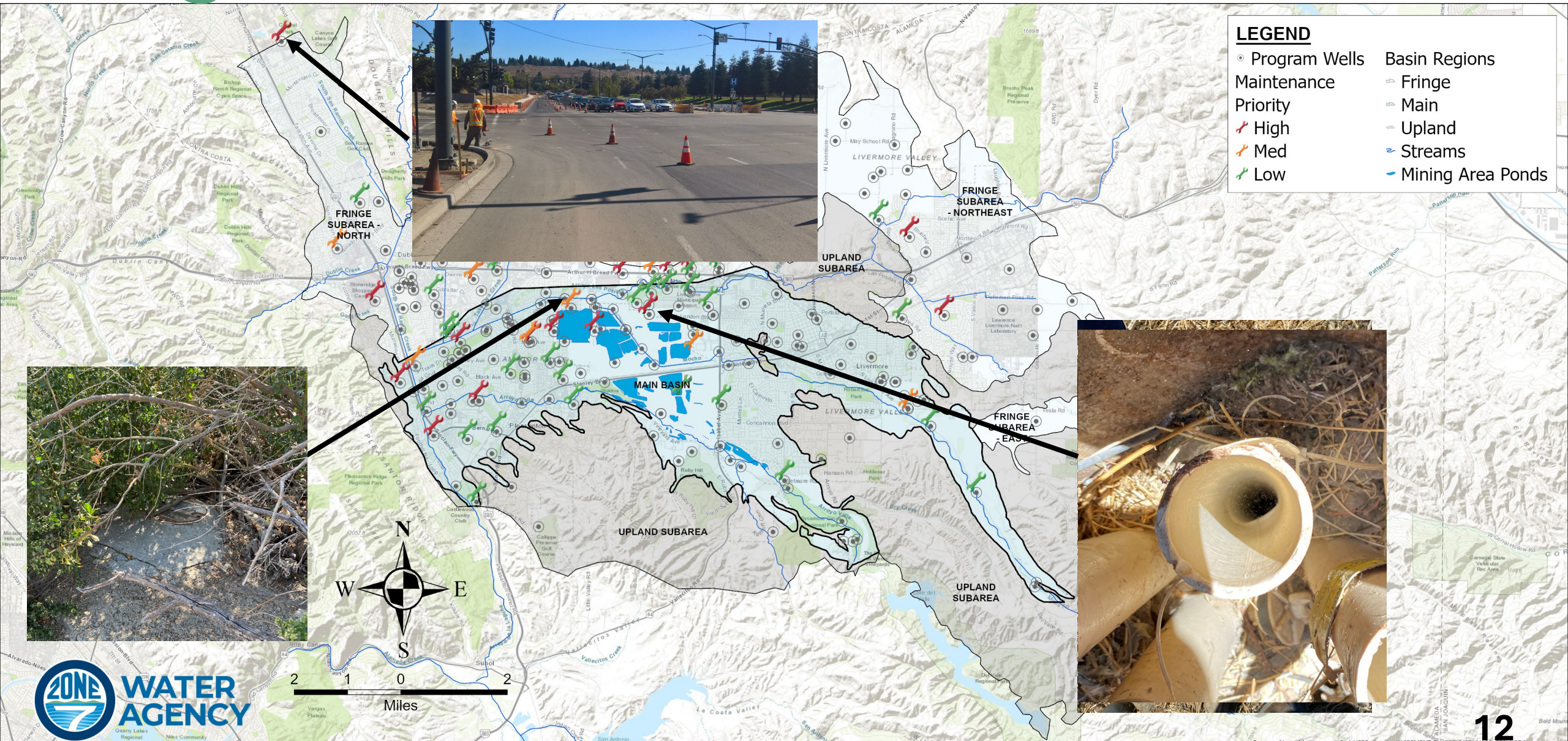
Telemetry Pilot Test (2022)



Monitoring Well Maintenance and Replacement Program



Program Well Maintenance Records



San Ramon Well Replacement

- Bollinger Canyon Road
- Replacement Well along IHT
- Coordination with Contra Costa County & San Ramon
- Open Area with Easy Access
- Anticipate Contract Award Early 2027

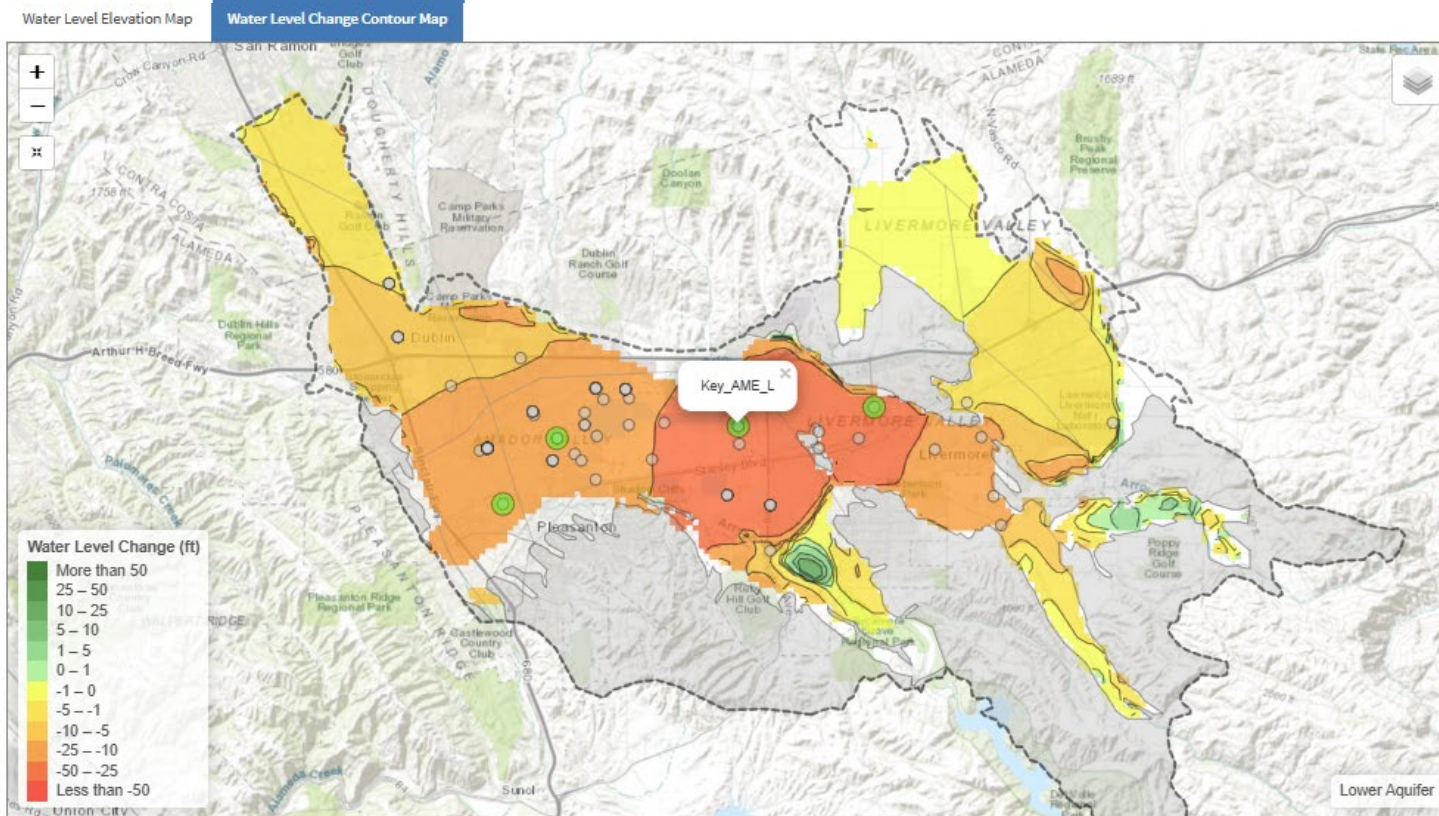


Future Zone 7 Monitoring Advancements

1. Decision Support Tool
2. SGMA Implementation Dashboard



Decision Support Tool (DST)



11 (100%)

Above MO

0 (0%)

Between MTMO

0 (0%)

Below MT



1. Hydrology

Select water year types to determine how much precipitation is added to the model for each simulation year.



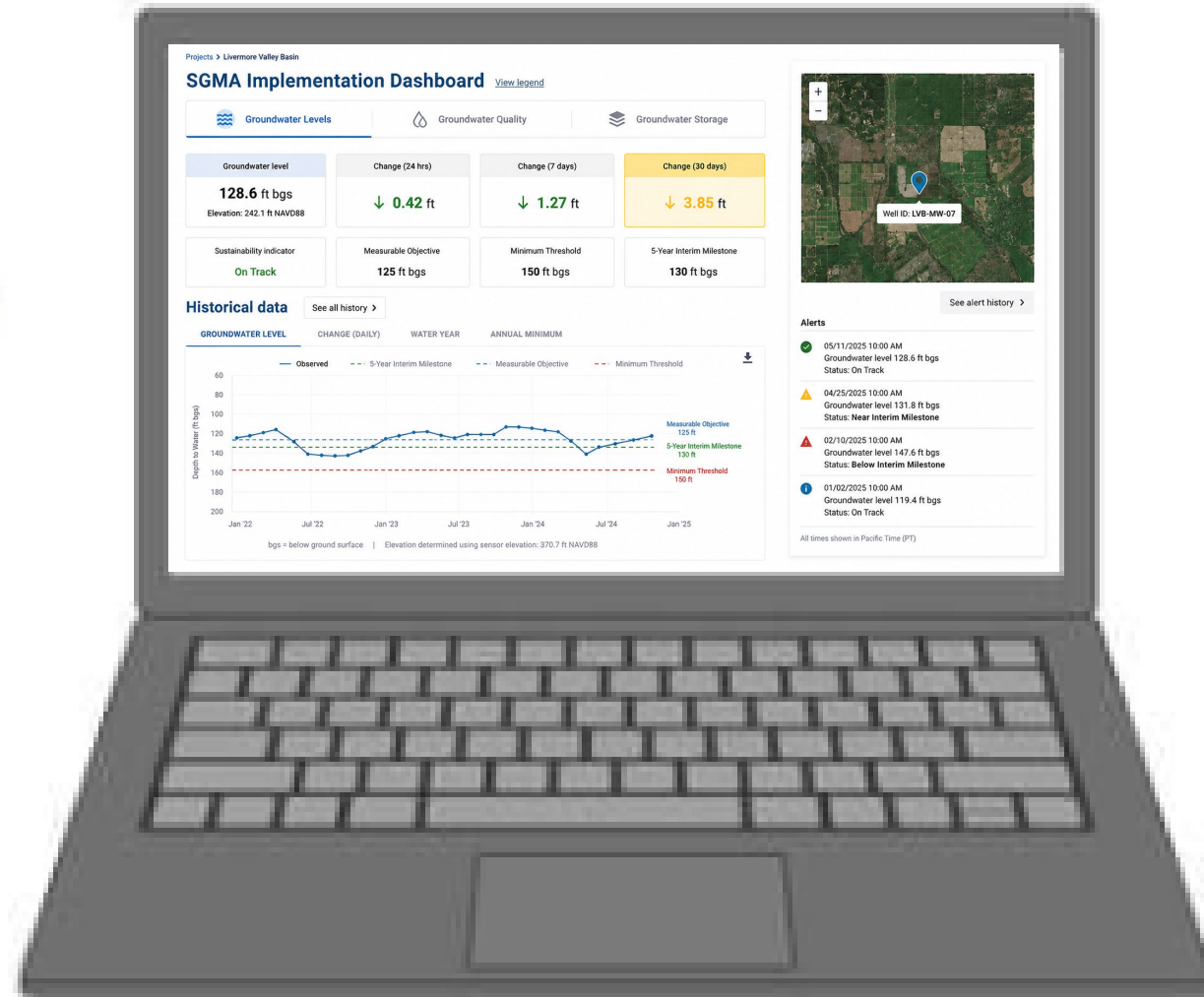
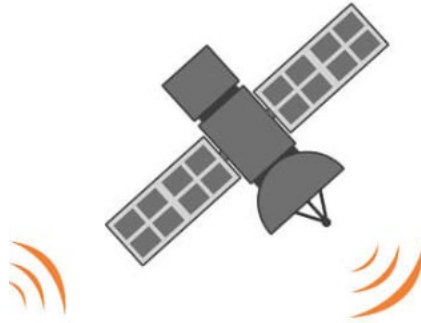
2. Operations

Select where to deliver recharge water and assign pumping rates to production wells. Options allow for production rates to be assigned by subunit or by individual well.

SGMA Implementation Dashboard

Goal: Assess Sustainability In Real-Time

One Central Location



Questions?

