Water Supply Overview

Customer Advisory Committee Meeting

July 16, 2024

Public Comments

Tonight's Agenda

- Welcome
- Public Comments
- Agenda Review
- Folsom Dam & SJWD Treatment Plant Overview
- CHWD Water Presentation
- Group Activity
- Next Steps
- Public Comments
- CAC Members' Take-aways
- Adjourn

Folsom Reservoir & SJWD Treatment Plant Overview

Sidney N. Peterson Water Treatment Plant

Citrus Heights Water District
Citizen Advisory Committee
July 16, 2024

THE BASICS OF WATER TREATMENT

FOLLOWING THE FLOW OF WATER

1st Source of Water

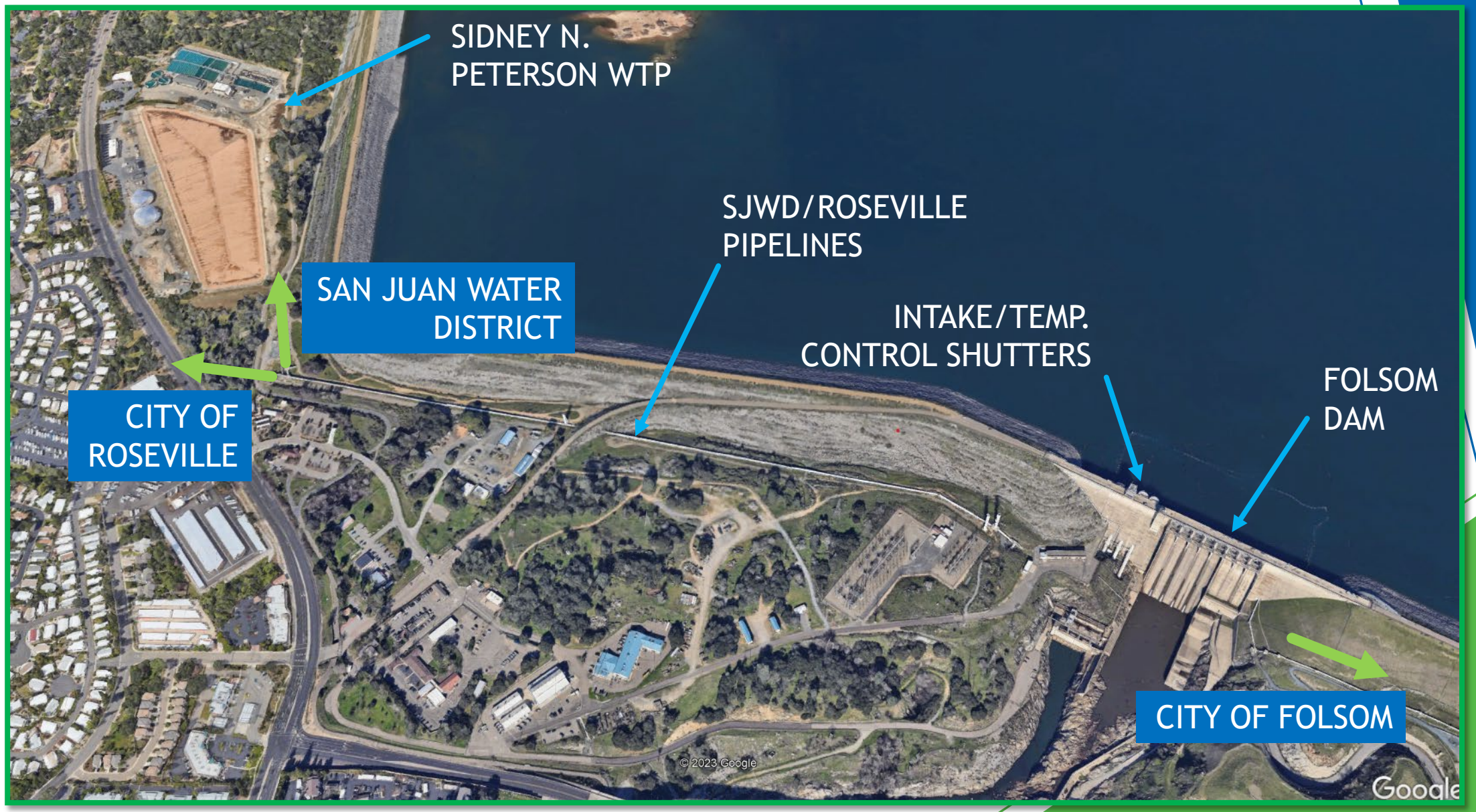
2nd Multi-Barrier Treatment

3rd Storage and Delivery

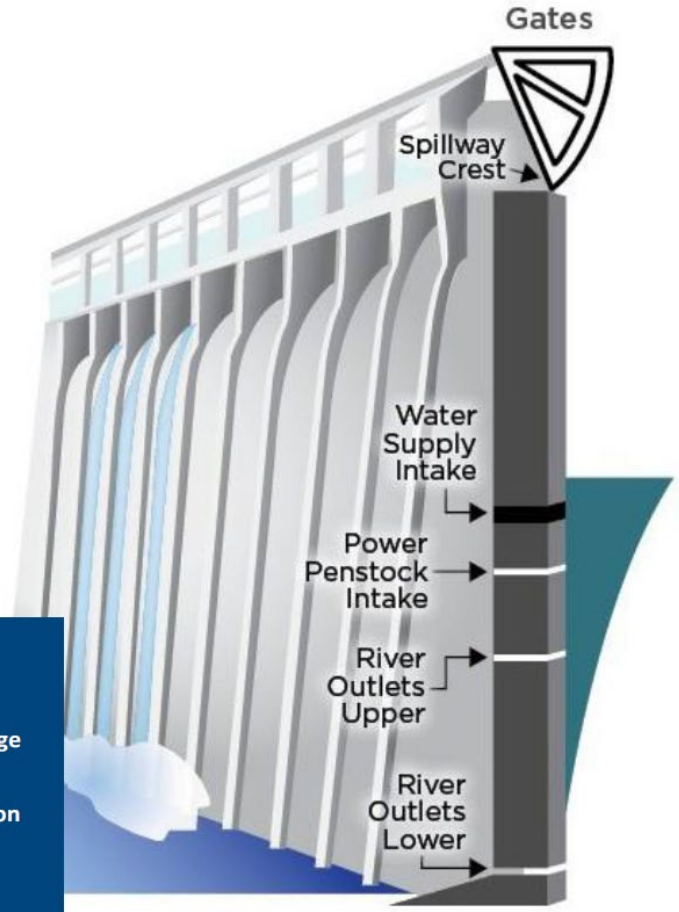
SOURCE OF WATER
FOLSOM RESERVOIR

- American River Watershed
- Pristine Source
  - Little upstream Agriculture and Industrialization
- Approximately 1 million AF (capacity)
- Operated by the United States Bureau of Reclamation

LAY OF THE LAND



Folsom Dam Intake



BY THE NUMBERS

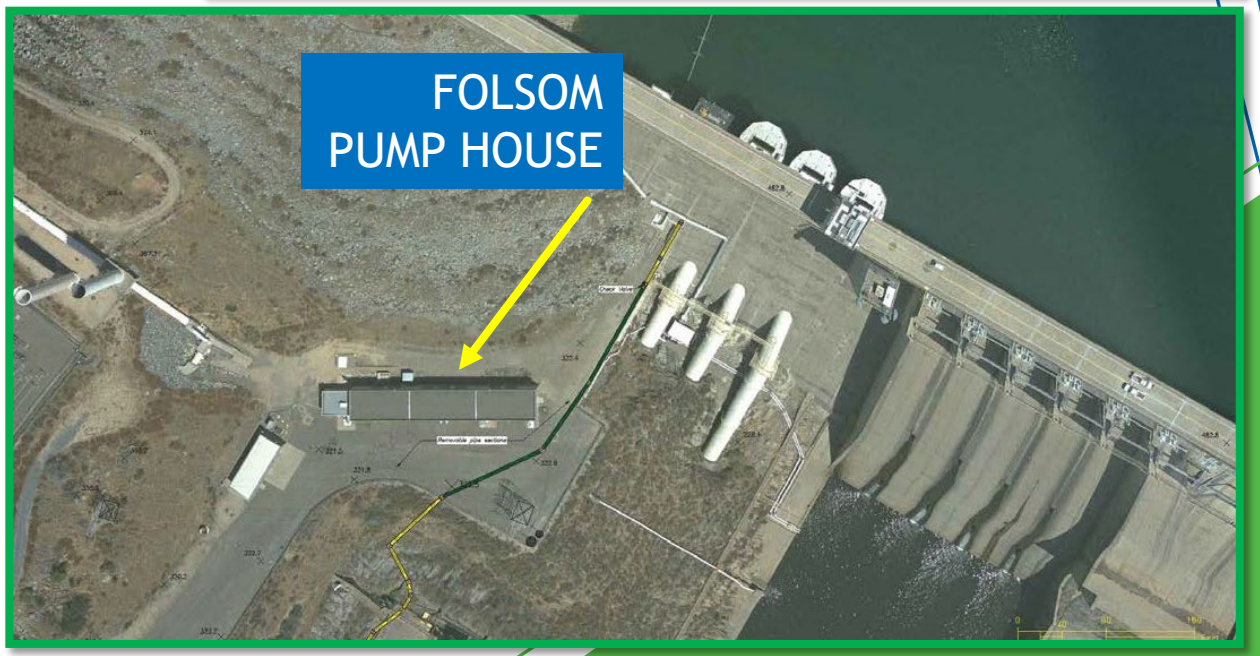
Total Water Storage
977,000 acre-feet

Maximum Elevation
480 feet

Drainage Area
1,875 sq miles

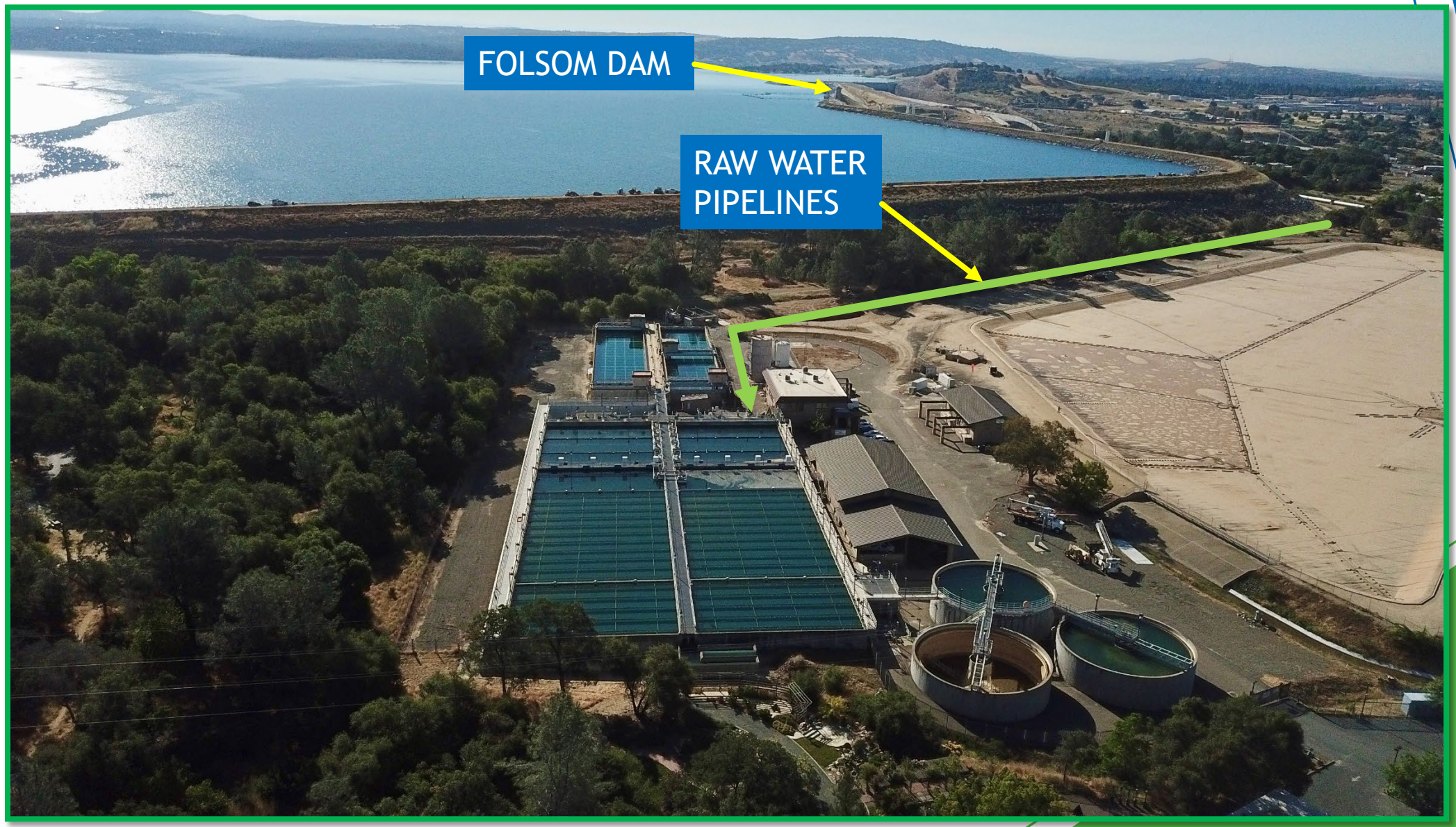
Water Course
American River

Original Construction
1948–1956



FOLSOM PUMP HOUSE

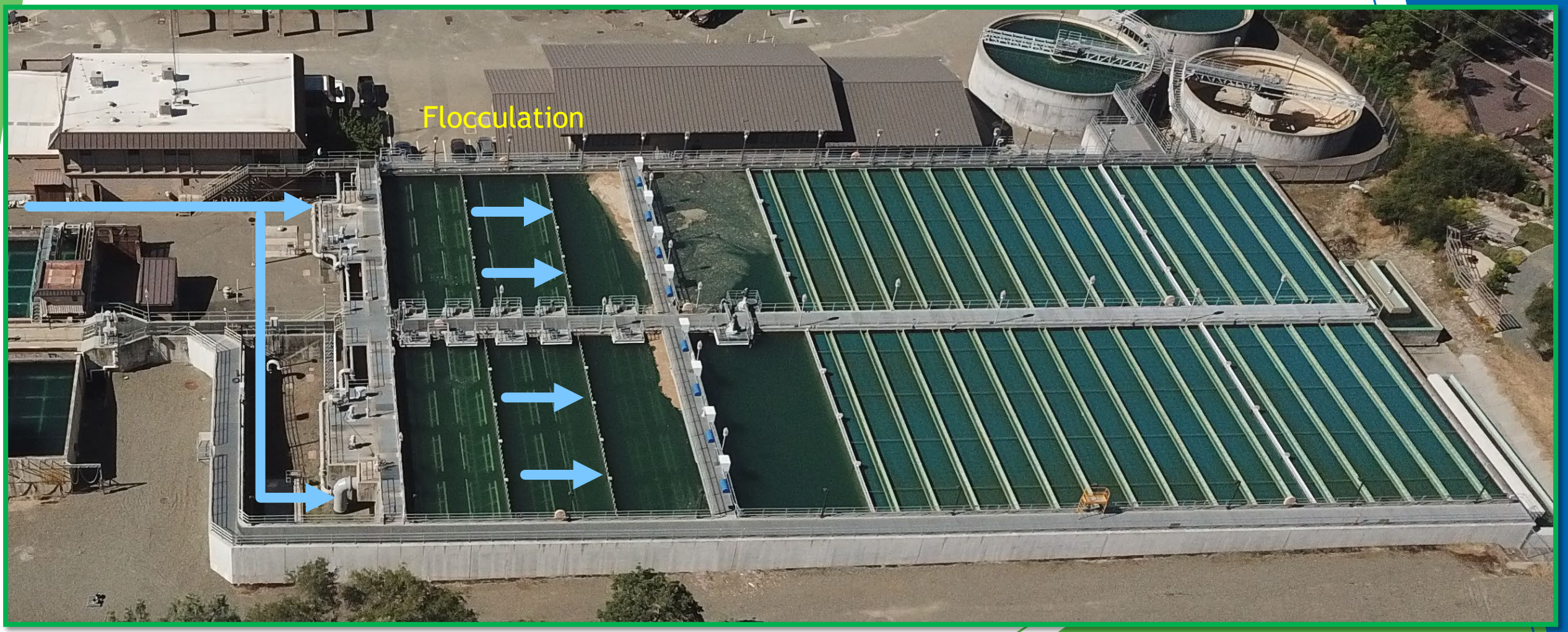
SIDNEY N. PETERSON WTP



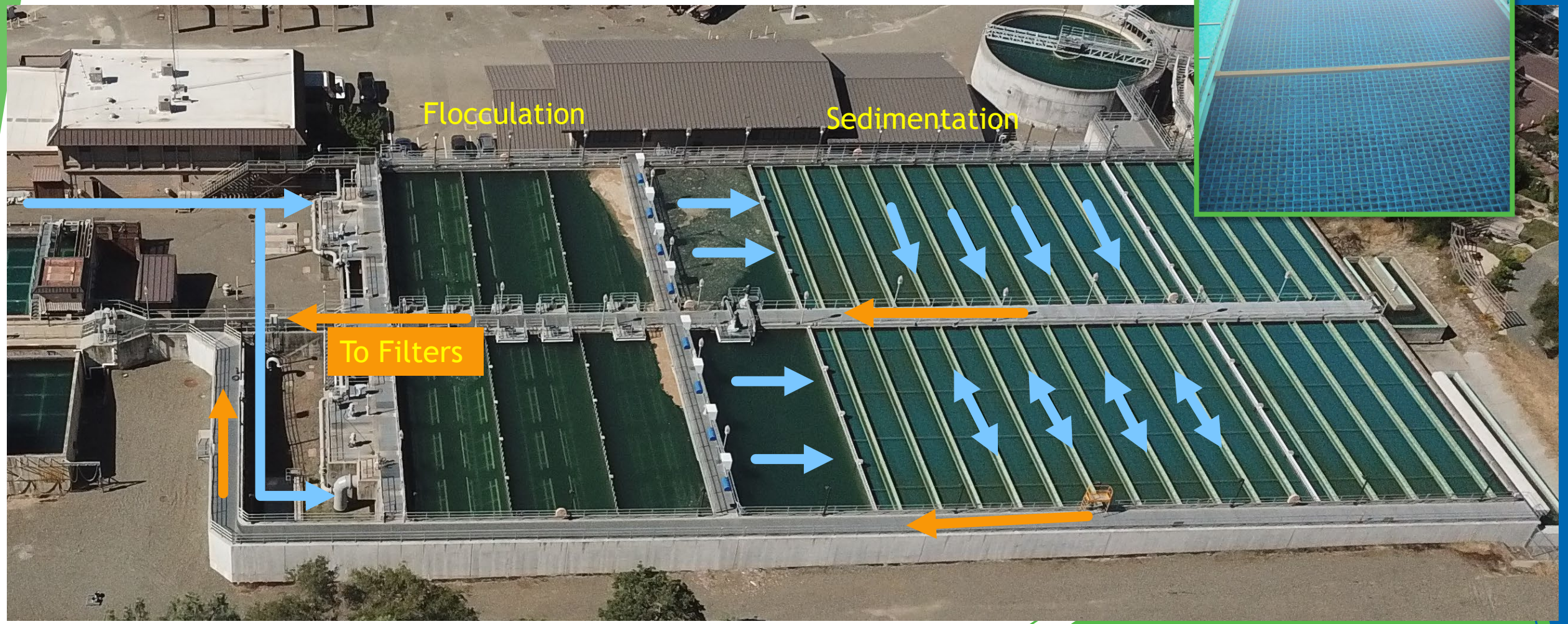
MULTI-BARRIER TREATMENT

- Also Known as Conventional Treatment
- 5 Stages
  - Coagulation – initial rapid mixing of chemicals
  - Flocculation
  - Sedimentation
  - Filtration
  - Disinfection

Flocculation - Mixing



SEDIMENTATION



FILTRATION

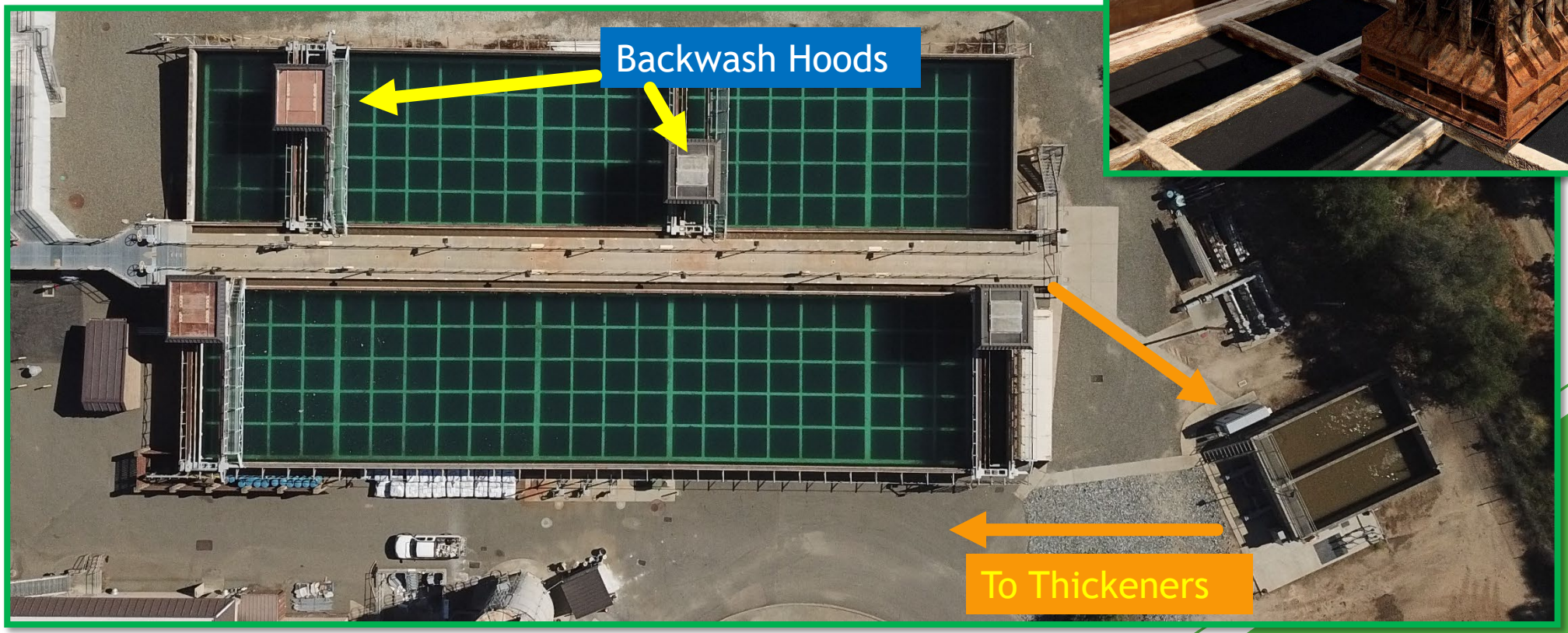
STORAGE – 62 MG HINKLE RESERVOIR

- Last Stage of the Treatment Process
- Reservoir is Needed for
  - To Assure Supply
  - Meet Demands
    - Both Daily and Fireflow
  - Provide Additional Time for Disinfection
- Ready the Delivery to Your Tap

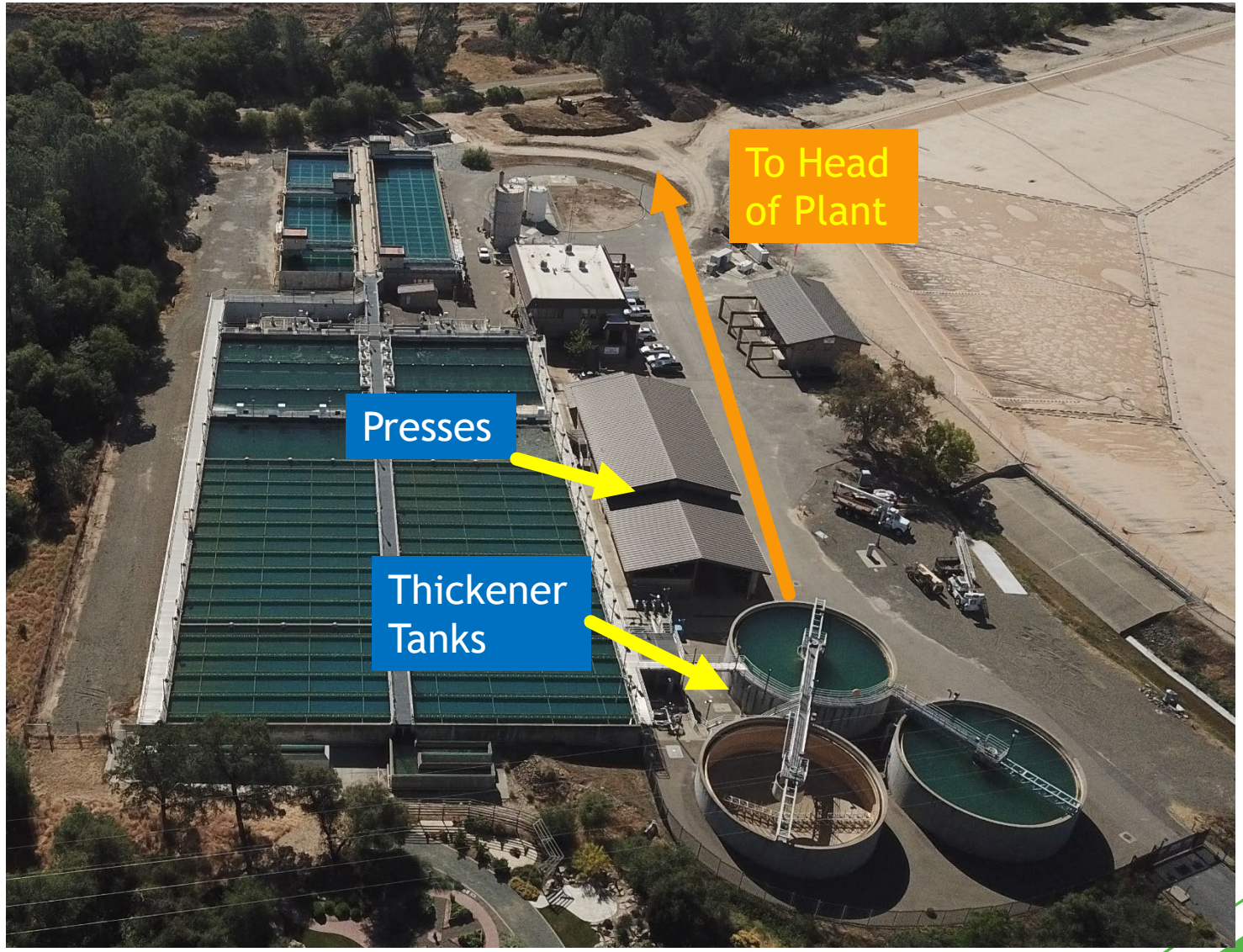
DISINFECTION

- The District Utilizes Chlorine for Disinfection
- Chlorine is Applied Throughout the Process
  - Headworks of the WTP
  - Pre-Filtration
  - Post-Filtration – to Maintain Residual to Your Tap
- Kills Bacteria and Viruses
  - Removal, Deactivation or Killing of Disease Causing Microorganisms
- Target 0.8 ppm Free Chlorine Residual Leaving the Reservoir

FILTER BACKWASH



SOLIDS HANDLING



SIDNEY N. PETERSON WTP

QUESTIONS??

SAN JUAN WATER

Wholesale

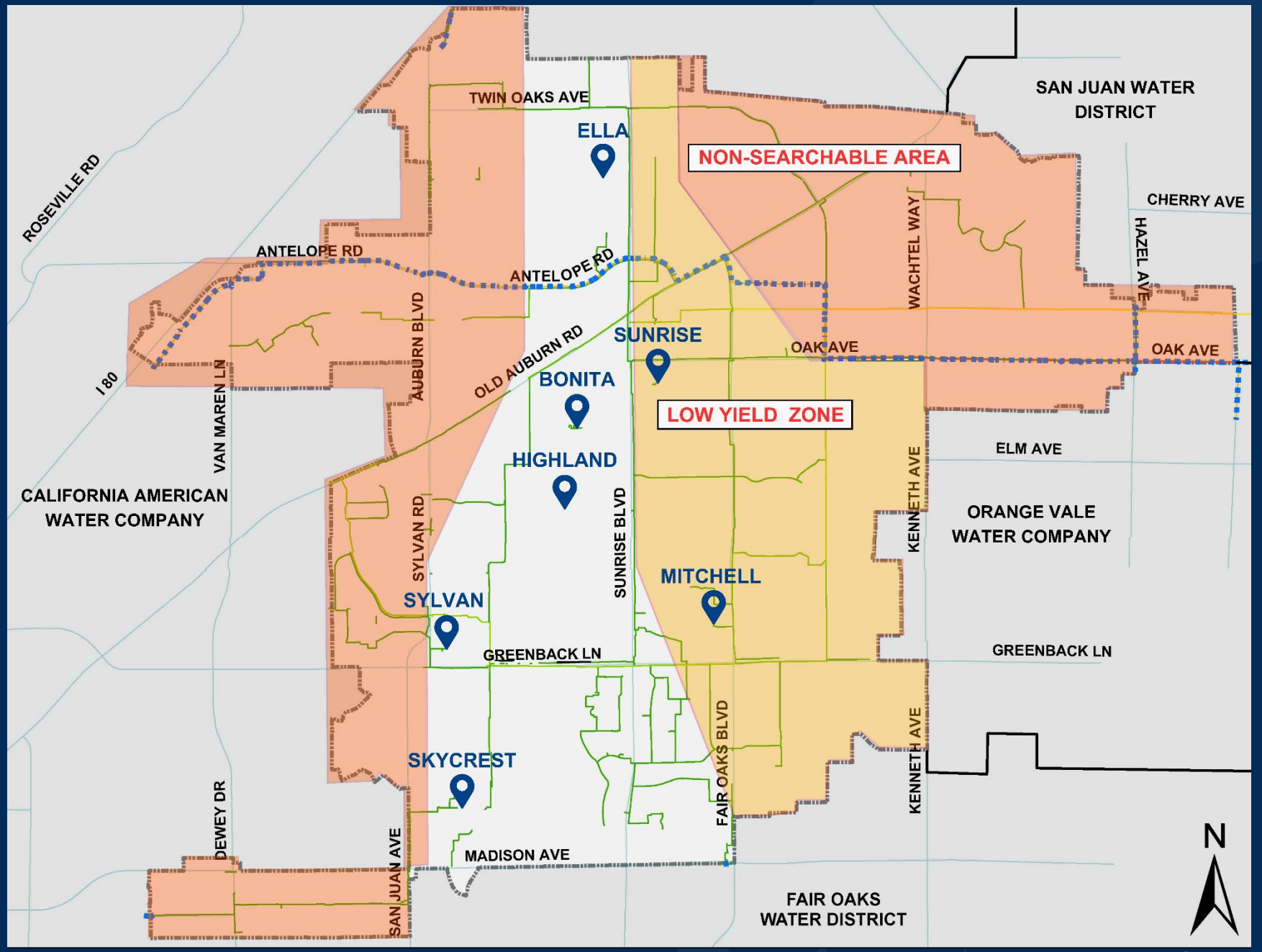
CHWD Groundwater

History of District Wells

1) Palm Well – 1943
2) Patton Well – 1946
3) Watson Well – 1948
4) Wells Well – 1949
5) Mariposa Well – 1954
6) Wildwood Well (Northridge) – 1956
7) Verne Well - 1959

District Wells

1) Palm Well #2 – 1991
2) Sylvan Well– 1991
3) Sunrise Well– 1992
4) Mitchell Well – 2008
5) Bonita Well – 2010
6) Skycrest Well – 2016



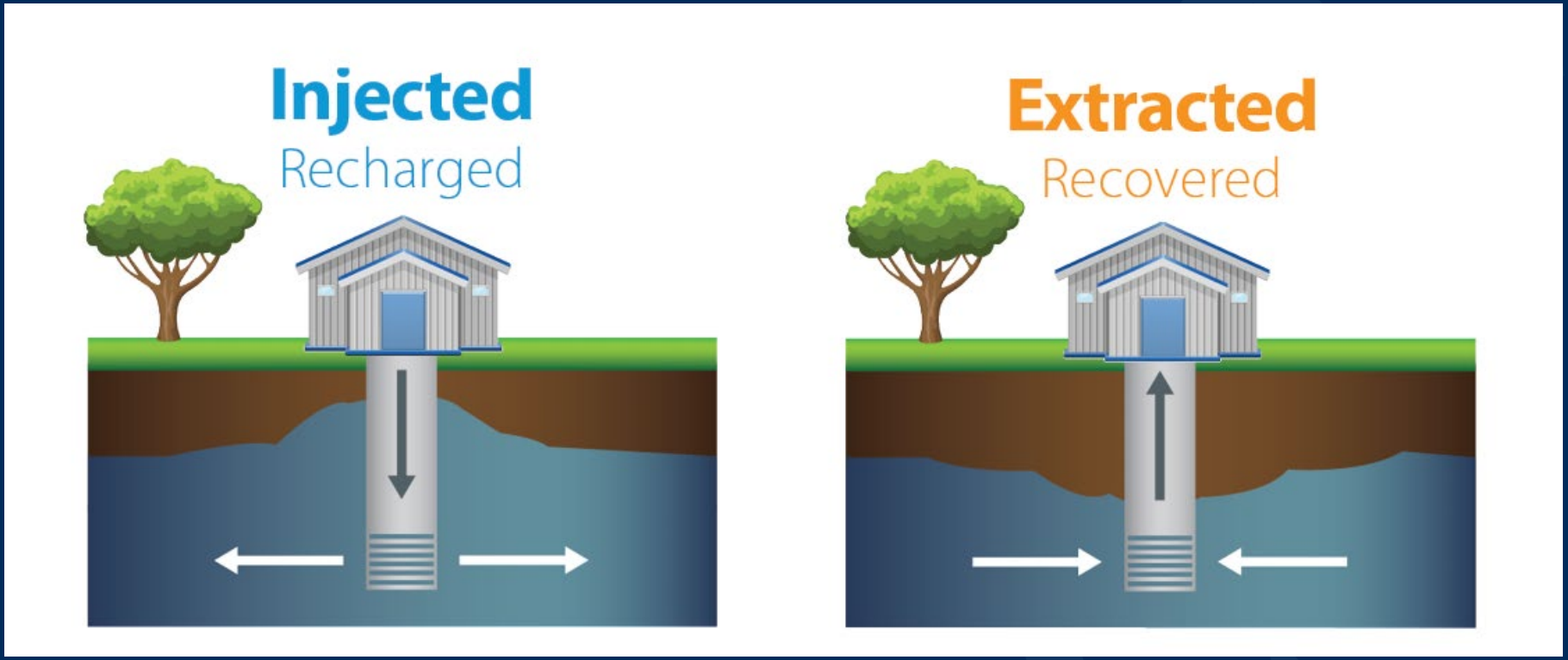
Groundwater
Expansion & Reinvestment

- Strengthen our water supply & reduce reliance on surface water from Folsom Lake

- In progress:
  - Construction for Well #7
  - Design for Well #8

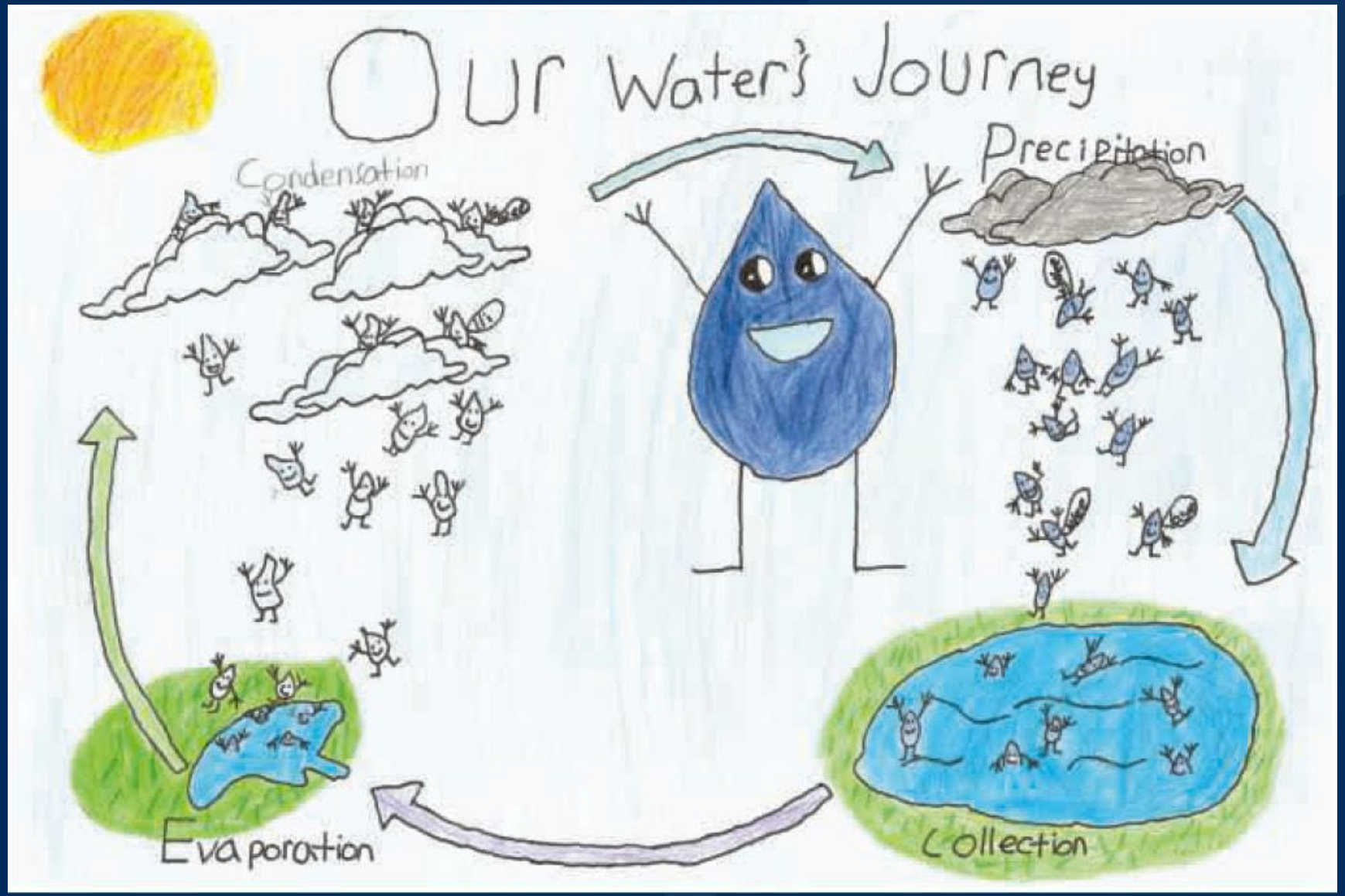
Groundwater
Expansion & Reinvestment

Aquifer Storage & Recovery (ASR) Technology



CAC Member Update

CAC Chair Andrew Johnson's son Angelo was a CHWD Poster Contest runner-up!



Group Activity

CAC Program Overview

2023

Dec 14 - Meeting: Introduction
(District history overview, Role of the CAC, “1 unit of water” demonstration)

2024

Jan 16 - Meeting: Operations Briefing

Mar 12 - Tour: CHWD Corporation Yard

Apr 30 - Meeting: Strategic Planning Process Overview

Jul 16 - Meeting: Receive Presentation From SJWD’s Director of Operations
(Presentation Topics: Folsom Lake, Dam and SJWD Water Treatment Plant)

Sep 10 - Meeting: Budget Process Overview

Oct 8 - Meeting: Regional Collaboration/Statewide Issues

Dec 9 - Meeting: Year-in-Review

Next steps for the CAC

CAC 2024 Tentative Future Meeting Dates

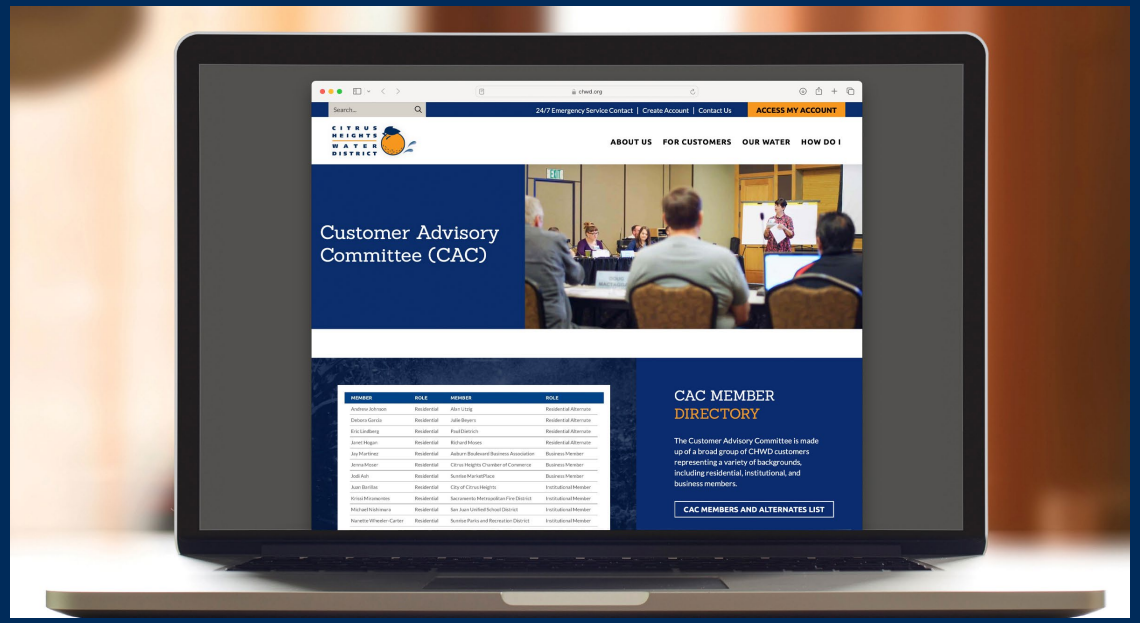
Sept 10	Dinner meeting: Budget Process Overview
Oct 8	Dinner meeting: Regional Collaboration/ Statewide Issues
Dec 9	Dinner meeting: Year-in-Review

Public Comments

CAC Members' Take-aways

CAC Webpage

https://chwd.org/cac



Questions?

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