

Citrus Heights Water District Overview

Customer Advisory Committee Kickoff Meeting
December 14, 2023

Purpose and Role of the CAC



Learn about the District



Share ideas and perspective



Help the District plan



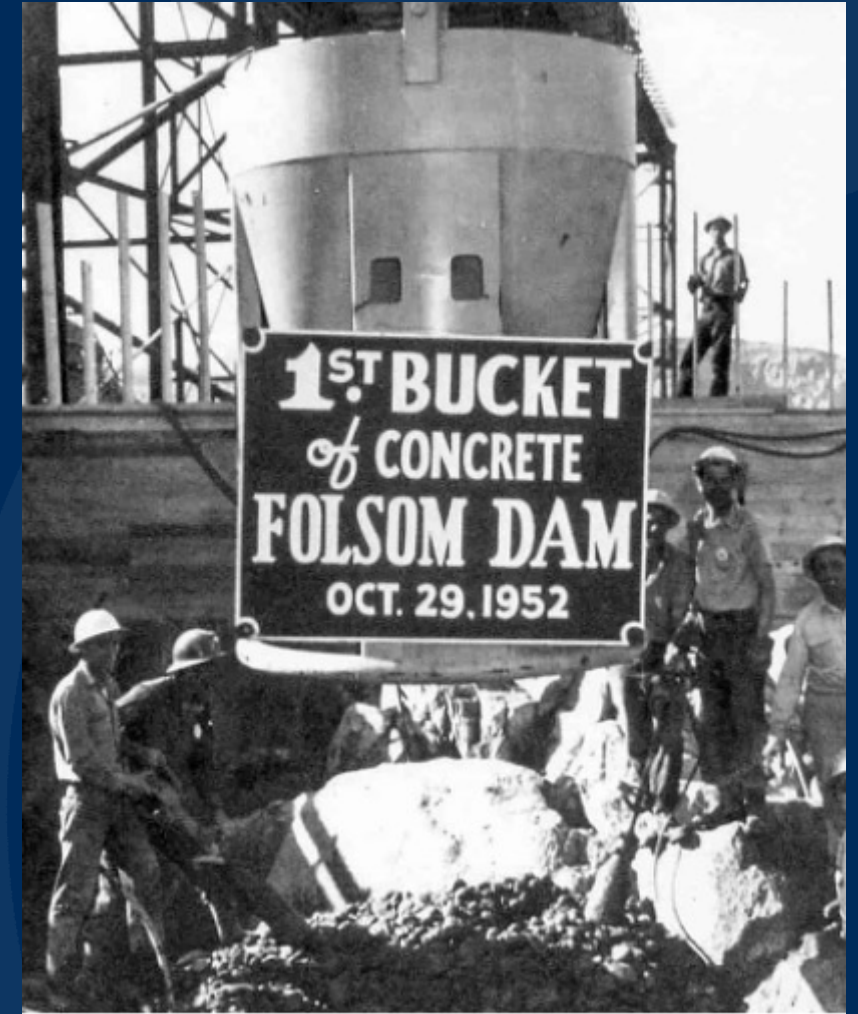
Update your neighbors

Introduction

- Name
- Role
- One word that describes you

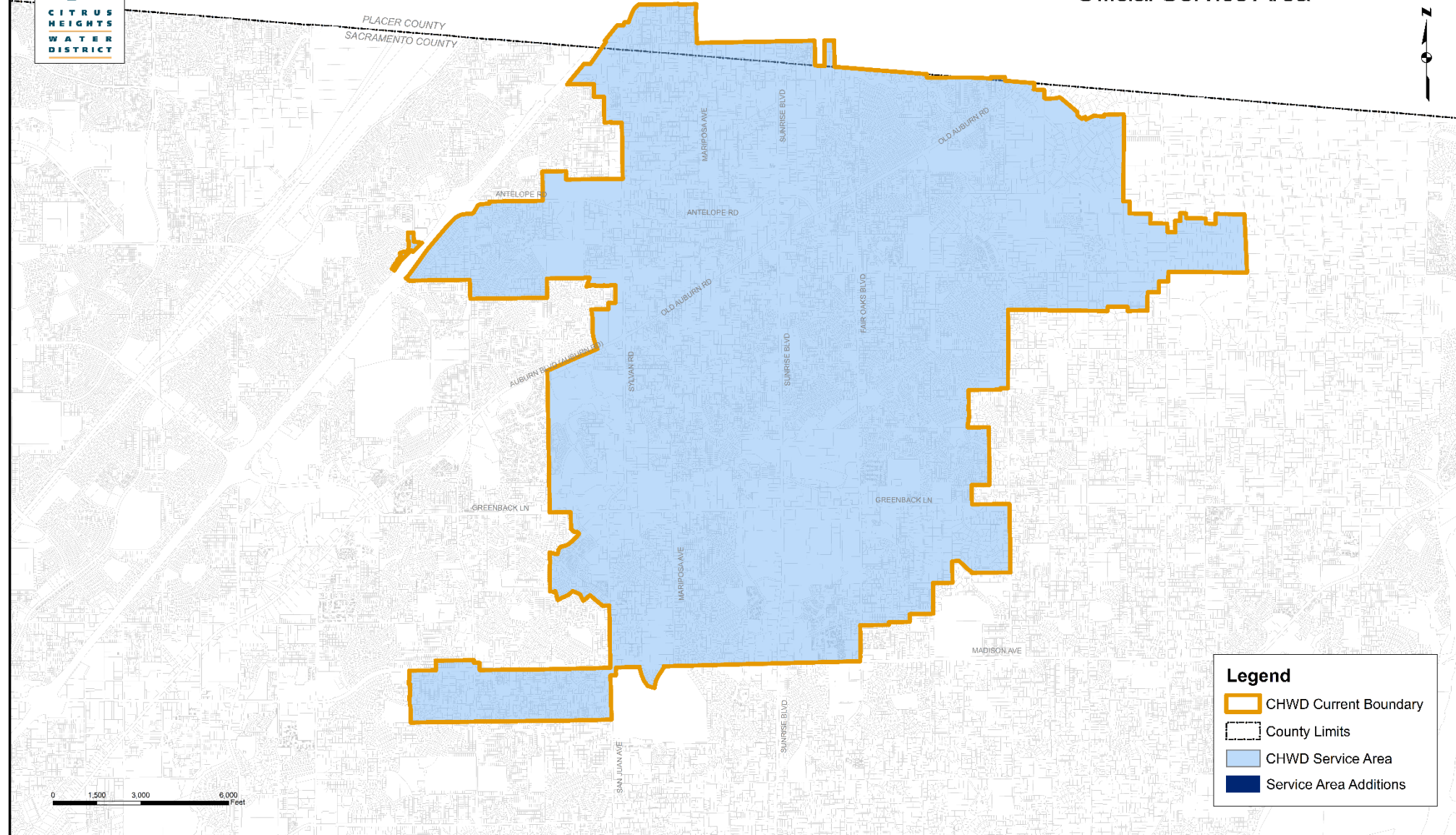
Our History

- Formed in the 1920s and served 225 farms
- 4.7 square miles
- Pipe Materials – Riveted steel, cast iron, possibly redwood
 - Vast majority have been replaced
- Remained rural through the 1950s



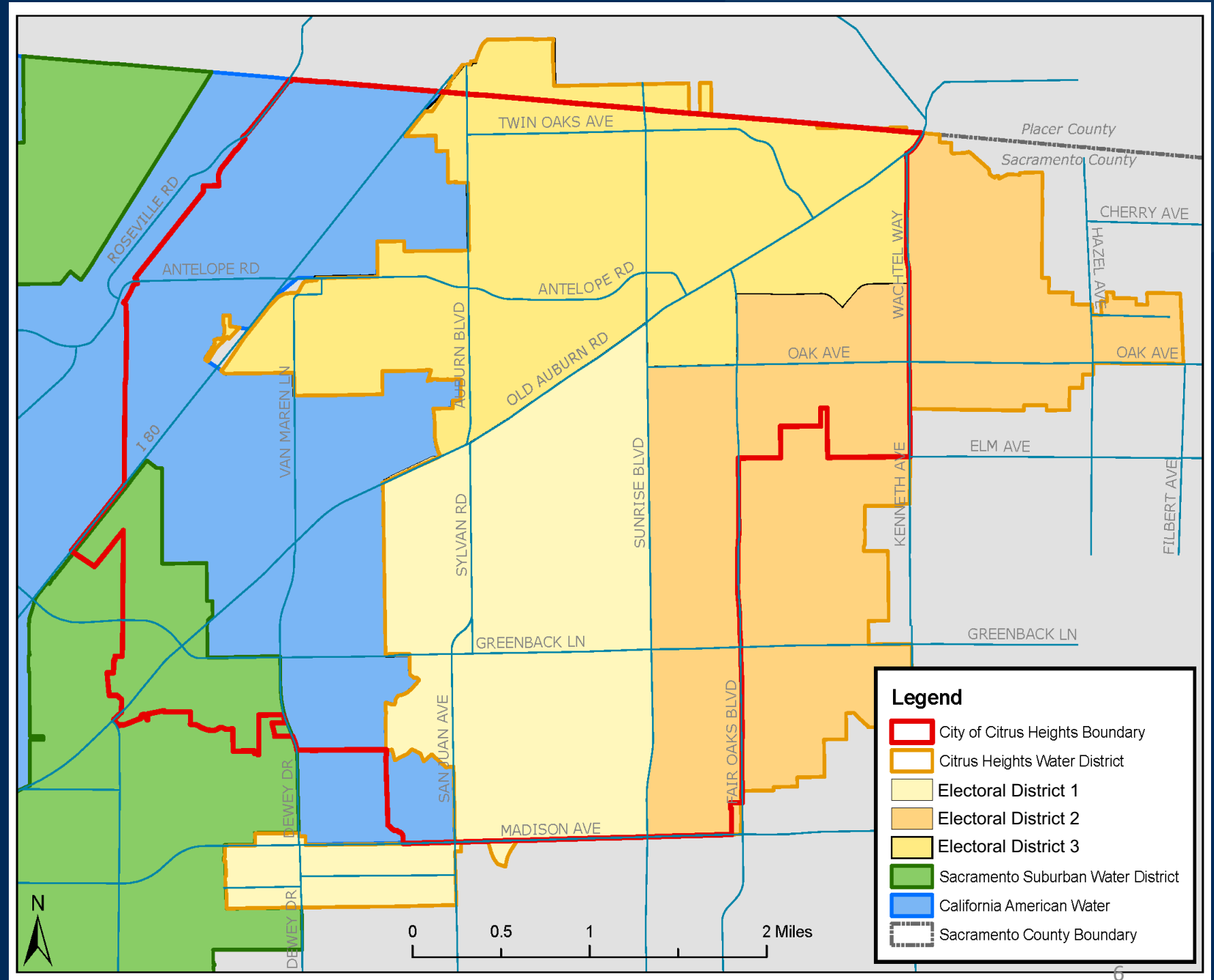


Citrus Heights Water District Official Service Area



Service Area

- Portions of Citrus Heights, Fair Oaks, Orangevale, Carmichael, and Roseville
- Suburban growth starting in the 1960s through the mid 1980s
- 20,300 connections
- 67,000 customers
- 13 square miles and 250+ miles of pipeline
- Three electoral districts
 - District 1 - Wheaton
 - District 2 - Riehle
 - District 3 - Sheehan



Board of Directors



Caryl F. Sheehan

Director

District 1

Term ends Dec 2024



Raymond A. Riehle

President

District 2

Term ends Dec 2026



David C. Wheaton

Vice President

District 3

Term ends Dec 2026

Measuring Water

Water Measurement – 1 Unit

1 cup is 8 oz
16 cups is 1 gallon
748 gallons is 1 Unit

Water Measurement – Your Bill

1 bottle of water at a sporting event is \$4.49

1 gallon of water from a grocery store is \$1.29

1 unit of water from the Citrus Heights Water District \$1.43

Average Family uses 20 units per month

Your bill includes a fixed charge, plus a unit charge, plus a project 2030 dedicated surcharge

Average about \$160 per 2-month billing cycle

Water Measurement – A Lake

Water in a lake is measured in Acre Feet

An Acre Foot of water is 325,851 gallons

Or

435 Units of water

Folsom Lake can store about 1,000,000 Acre feet

Every year, between 2 and 5 times the storage flows through the lake.

Each year, CHWD customers use between 11,000 and 12,000 acre feet

Water Measurement - Water Flow

Water flow is measured in Cubic Feet Per second.

A cubic foot of water is 7.48 gallons
(100 cubic feet of water is 1 Unit of water)

volume	Cubic Feet	gallons		
1 Cubic Foot		7.48		
1 Unit		748.00	(Generally, water is billed to customers with a fixed connection feet plus a price per Units of Water used.)	Box 4.6 feet on a side
1 Acre Foot	43,560.00	325,851.00	435.6 Units	Box 35 feet on a side

FLOWS					INDOOR USE	
	gallons/second	gallons/minute	gallons/hour	gallons/day	50 Gallons/Person/Day	Acre Feet Per Day
1 Cubic Foot per Second	7.48	448.80	26,928.00	646,272.00	12,925 People	1.98
10 Cubic Feet Per Second	74.80	4,488.00	269,280.00	6,462,720.00	129,254 People	19.83
100 Cubic Feet Per Second	748.00	44,880.00	2,692,800.00	64,627,200.00	1,292,544 People	198.33
1000 Cubic Feet Per Second	7,480.00	448,880.00	26,932,800.00	646,387,200.00	12,927,744 People	1,983.69
2000 Cubic Feet Per Second	14,960.00	897,760.00	53,865,600.00	1,292,774,400.00	25,844,488 People	3,967.38
3000 Cubic Feet Per Second	22,440.00	1,346,400.00	80,784,000.00	1,938,816,000.00	38,776,320 People	5,950.01
4000 Cubic Feet Per Second	29,920.00	1,795,520.00	107,731,200.00	2,585,548,800.00	51,710,976 People	7,934.76
5000 Cubic Feet Per Second	37,400.00	2,244,000.00	134,640,000.00	3,231,360,000.00	64,627,200 People	9,916.68
6000 Cubic Feet Per Second	44,880.00	2,692,800.00	161,568,000.00	3,877,632,000.00	77,552,640 People	11,900.02
7000 Cubic Feet Per Second	52,360.00	3,141,600.00	188,496,000.00	4,523,904,000.00	90,478,080 People	13,883.35
8000 Cubic Feet Per Second	59,840.00	3,591,040.00	215,462,400.00	5,171,097,600.00	103,421,952 People	15,869.52
9000 Cubic Feet Per Second	67,320.00	4,039,200.00	242,352,000.00	5,816,448,000.00	116,328,960 People	17,850.15
10,000 Cubic Feet Per Second	74,800.00	4,488,000.00	269,280,000.00	6,462,720,000.00	129,254,400 People	19,833.36

Home Water Use Calculator [Water Use Calculator \(chelanpud.org\)](http://Water Use Calculator (chelanpud.org))

Estimated CA Population = 40,000,000 At 50 Gallons Per Person Per Day we need a static supply of 2,240,288 Acre Feet of treated water per year for indoor use.

1 Cubic Foot per Second

7.48 Gallons / Second
448.80 Gallons / Minute
26,928 Gallons / Hour
646,272 Gallons / Day

864 Units / Day

100 Cubic Foot per Second

748 Gallons / Second
448,800 Gallons / Minute
2,692,800 Gallons / Hour
64,627,200 Gallons / Day

86,400 Units / Day

1000 Cubic Feet per Second

7,480 Gallons / Second
448,880 Gallons / Minute
26,932,800 Gallons / Hour
646,387,200 Gallons / Day

864,154 Units / Day

Flow Down American River Yesterday

WATER STORAGE

as of midnight Wednesday

Location	Inflow cubic feet/sec.	Outflow	Capacity	Normal
Folsom	1087	1957	47.2%	118%
Oroville	3150	3201	62.2%	130%
Shasta	3363	4590	66.8%	120%
Nimbus	1964	2075	85.2%	97%

THE WATER AGENCY, INC.
Water Supply Update

Wasted Water 10/01/22 to 10/29/2023

Total Inflows to Delta = 34,857,500 AF



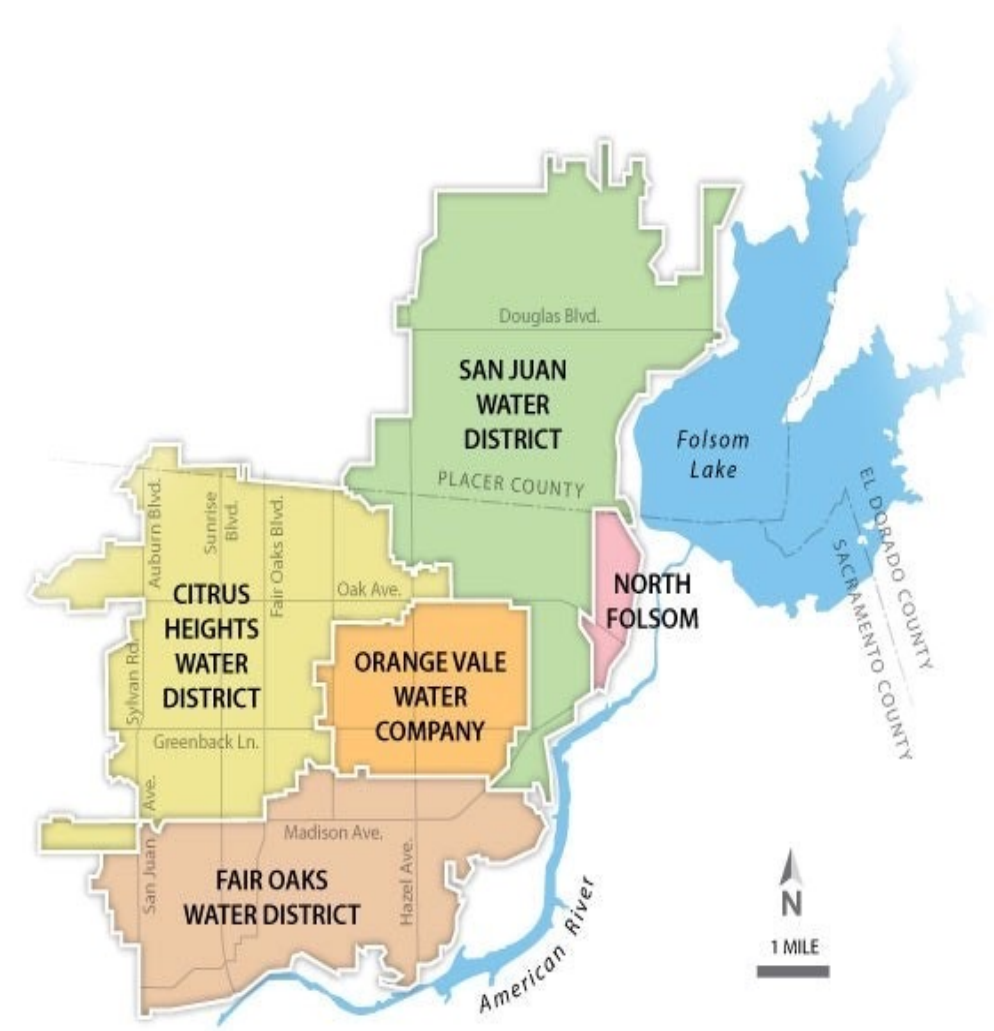
Water Measurement – Take Away

- People use a very small percentage of the total water flowing through our rivers.
- We need to understand how much water is available for people, farms, and fish.
- We should have sensible policies for how we manage water supplies in the state and in the CHWD.

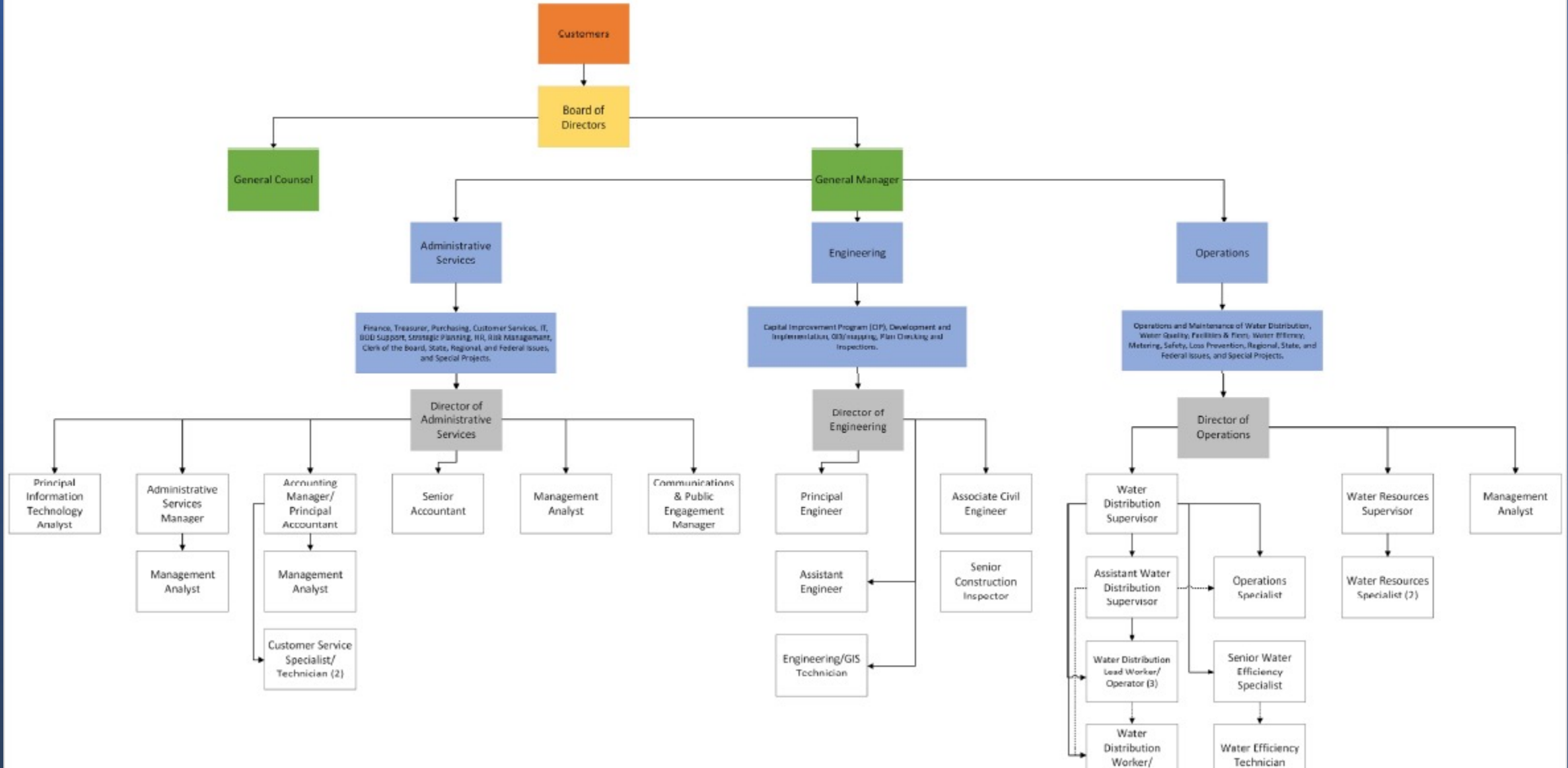
San Juan Water Wholesale

SJWD Wholesaler to Five Water Retailers

1. Citrus Heights Water District
2. San Juan Water District – Retail
3. Orange Vale Water Company
4. Fair Oaks Water District
5. City of Folsom (West of American River)



Organizational Structure



District Leadership Staff



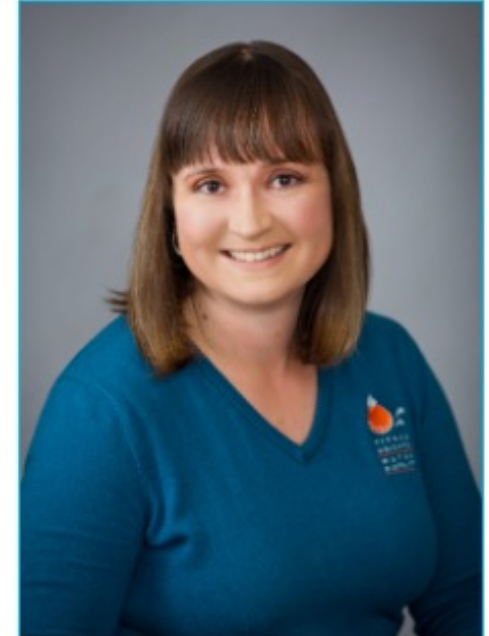
Hilary Straus
General Manager



Annie Liu
Director of Administrative
Services



Missy Pieri
Director of Engineering



Rebecca Scott
Director of Operations

District's General Counsel

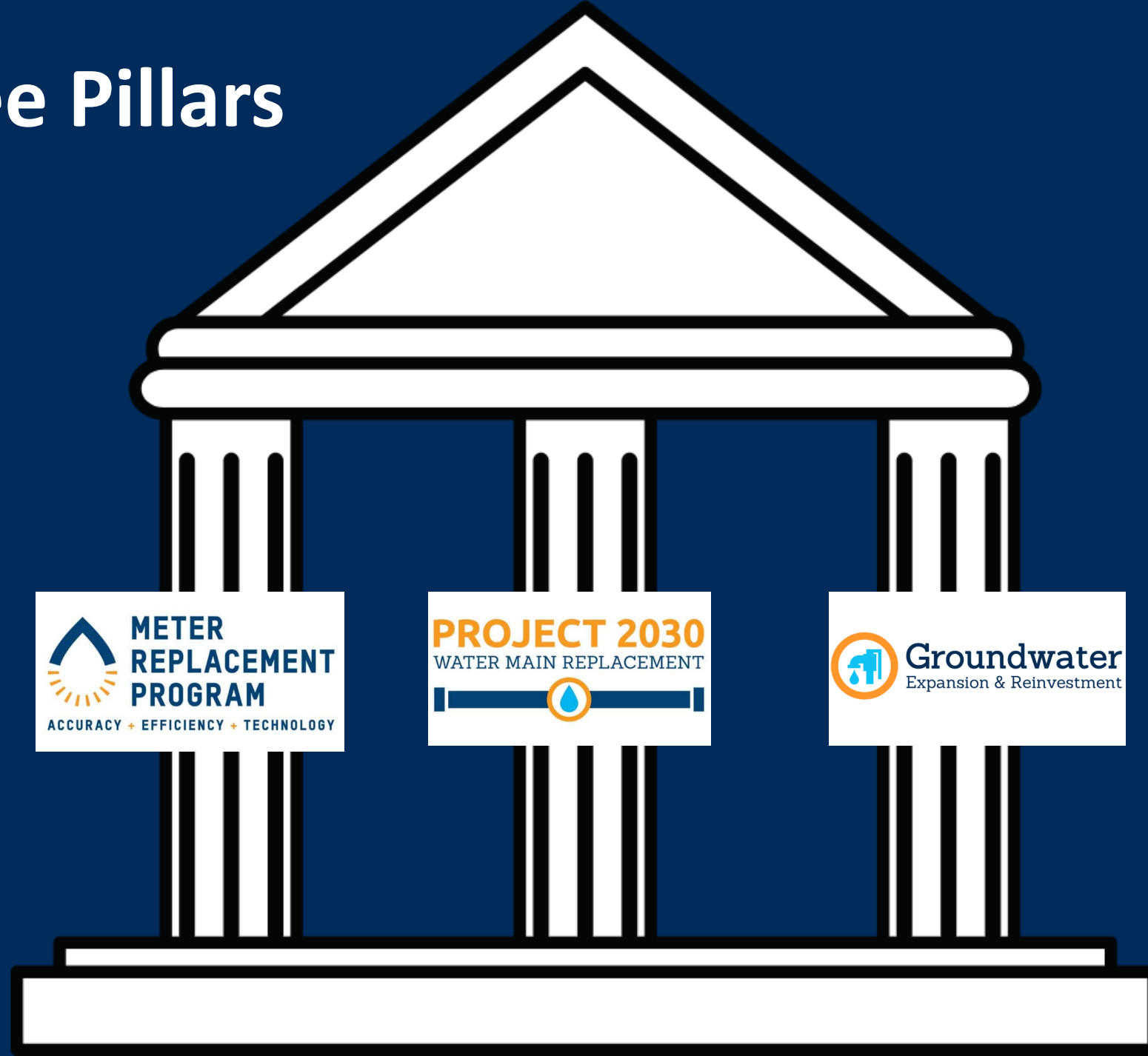


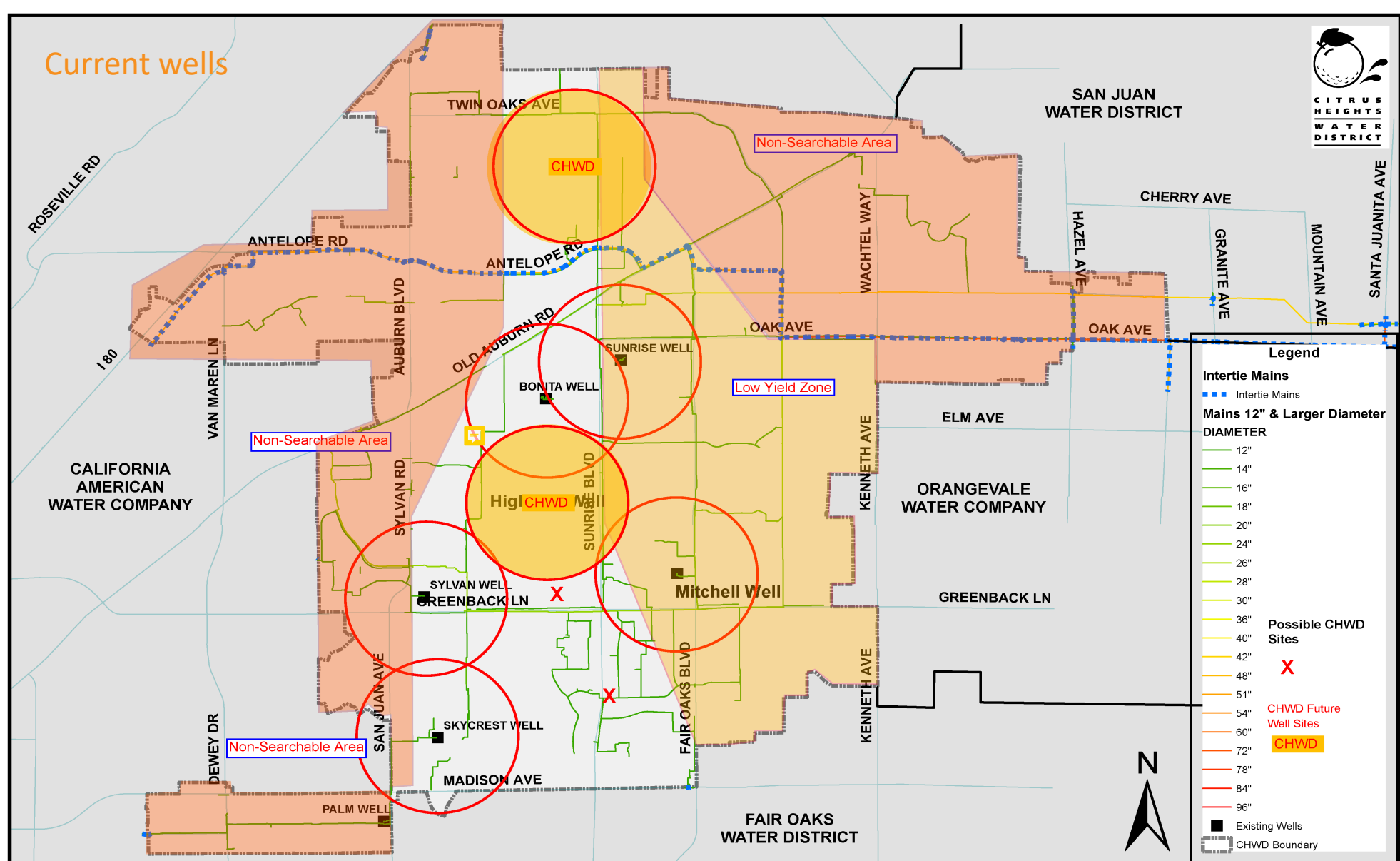
Steve Anderson
General Counsel



Joshua Nelson
Assistant General Counsel

The Three Pillars





- Strengthen our water supply & reduce reliance on surface water from Folsom Lake
- Construction for Well #7 with ASR in progress; and design for Well #8 slated for 2024
- Received \$3.2 million in Federal Congressional and other Grant funding for Wells #7 & #8.





METER REPLACEMENT PROGRAM

ACCURACY + EFFICIENCY + TECHNOLOGY

- The District became fully metered in December 2006 and began metered billing in January 2008 as a result of Federal and State mandates
- These meters will soon approach the end of their lifespans
- CHWD formed a water meter asset management consortium with 11 other local water agencies
- Regional Water Authority subscription program



PROJECT 2030

WATER MAIN REPLACEMENT



- CHWD's service area urbanized mostly between 1960 and 1985, and the life span of a water main is about 70 years
- CAC was instrumental in providing input on the Project 2030 Water Main Replacement Study and voted on the selected replacement alternative
- Project 2030 will replace most of the aging water mains
 - Water main replacement will be about \$8 million annually starting in 2030 (District currently spends about \$2 million annually)
 - Project 2030 Dedicated Charge (Prefunding component)



PROJECT 2030

WATER MAIN REPLACEMENT



Project status



2023

- 42-Inch Water Main Condition Assessment (continued)
 - Segment 1 (18,000 Linear Feet)
 - Phase 2: Indirect Pipeline Testing and Analysis
 - Phase 3: Test Station Installation and Additional Testing

**2024
-
2029**

- Water Main Condition Assessment in Various Locations (continued)
- Reevaluate the Water Main Risk Analysis Using Updated Data
- Update the Prioritized List of Water Main Replacements Throughout the Project's Implementation Phase
- Perform a 5-Year Inspection of the Above-Ground Water Mains

Purpose and Role of the CAC



Learn about the District



Share ideas and perspective



Help the District plan



Update your neighbors

Next steps for CAC

CAC Program Overview

2024 (Tentative Future Meeting Dates)

Jan 16 - dinner meeting: group exercise, District overview

Feb 29 – DEADLINE for required training (Brown Act, AB 1825, AB 1234)

Mar 12 - dinner meeting: SWOT, strategic planning

May 7 - tour: CHWD headquarters/BBQ

June 17 - tour: Folsom Reservoir treatment plant, dam

Sept 10 - dinner meeting: budget process

Oct 8 - dinner meeting: regional collaboration/statewide issues

Dec 10 - dinner meeting: year-in-review

CAC Required Training Components

- AB 1825 -Harassment Prevention Training
- AB 1234- Ethics Compliance Training
- Keeping up with the Brown Act: An Overview of the Public Meeting Law
- <https://www.csda.net>

**DEADLINE for required trainings (Brown Act, AB 1825, AB 1234) –February
2024**

Next CAC Meeting

Dinner Meeting

Tuesday, January 16 at 5:45 p.m.
Citrus Heights Community Center

Topics

- CAC Team Development Activity
- Election of a Chair and Vice Chair
- More about CHWD
- Mandatory Training Sessions
- Group and Individual Photos

CAC Chair & Vice Chair

ROLE OF THE CAC CHAIR

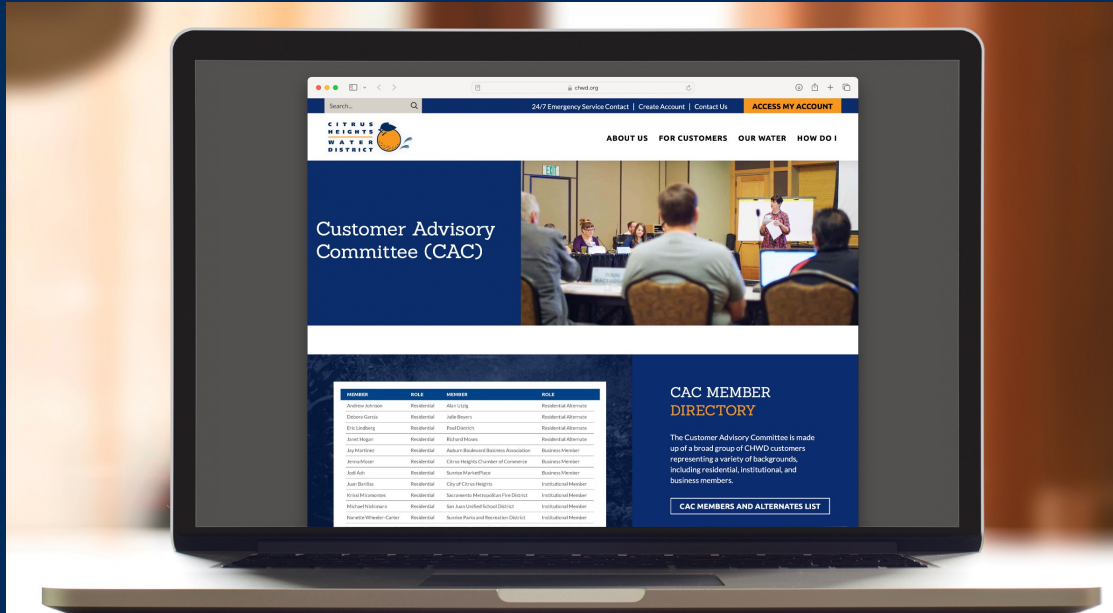
1. Call the CAC meetings to order
2. Lead the Pledge of Allegiance
3. Turn the meetings over to the facilitator for the agenda review and meeting facilitation
4. Manage any voting processes during CAC meetings, as appropriate
5. Manage the public comment portion of the CAC meetings
6. Close the meetings
7. Act as the official spokesperson for the CAC when presenting CAC updates at the CHWD Board meetings

ROLE OF THE CAC VICE CHAIR

Act for the CAC Chair should that person be unable to serve

CAC Webpage

<https://chwd.org/cac>



Questions?

cac1@chwd.org

**CHWD Thanks You For Your
Commitment To The CAC!**