



# YSGA BOARD OF DIRECTORS MEETING

July 31, 2024

# Agenda

- 1. Call to Order and Determination of Quorum**
2. Adding Items to the Posted Agenda
3. Public Forum
4. CONSIDERATION - Consent Items
5. Update on NCWA's Regional Priorities
6. CA DWR Update
7. Report of the Chair and Executive Officer
8. Update - Well Permit Review Process
9. Update - SGMA Implementation Grant Projects
10. CONSIDERATION - Request to Enter into Contract for GSP Update
11. Members' Reports and Future Agenda Items
12. Next Meeting - September 16, 2024
13. Adjournment

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# Consideration: Consent Items

- a) **Approve May 20, 2024 Board of Directors Meeting Minutes**
- b) Approve Payment of Bills in Fiscal Year 2023-24 Budget
- c) Receive Fiscal Year 23/24 Financial Statements: 7/1/23 - 6/30/24
- d) Receive Fiscal Year 24/25 Financial Statements: 7/1/24 - 7/26/24
- e) Receive minutes of Executive Committee: 5/13

# Consideration: Consent Items

a) Approve May 20, 2024 Board of Directors Meeting Minutes

**b) Approve Payment of Bills in Fiscal Year 2023-24 Budget**

- a) Yolo County Flood Control & Water Conservation District in the amount of \$83,130.58 for services provided April 1 through June 30, 2024.
- b) Frame Surveying & Mapping in the amount of \$20,710.57 for work completed in April 2024 towards completion of the ground-based GPS subsidence survey.
- c) Frame Surveying & Mapping in the amount of \$33,961.01 for work completed in June 2024 towards completion of the ground-based GPS subsidence survey.

# Consideration: Consent Items

- a) Approve May 20, 2024 Board of Directors Meeting Minutes
- b) Approve Payment of Bills in Fiscal Year 2023-24 Budget
- c) Receive Fiscal Year 23/24 Financial Statements: 7/1/23 - 6/30/24**
- d) Receive Fiscal Year 24/25 Financial Statements: 7/1/24 - 7/26/24**
- e) Receive minutes of Executive Committee: 5/13**



# Agenda

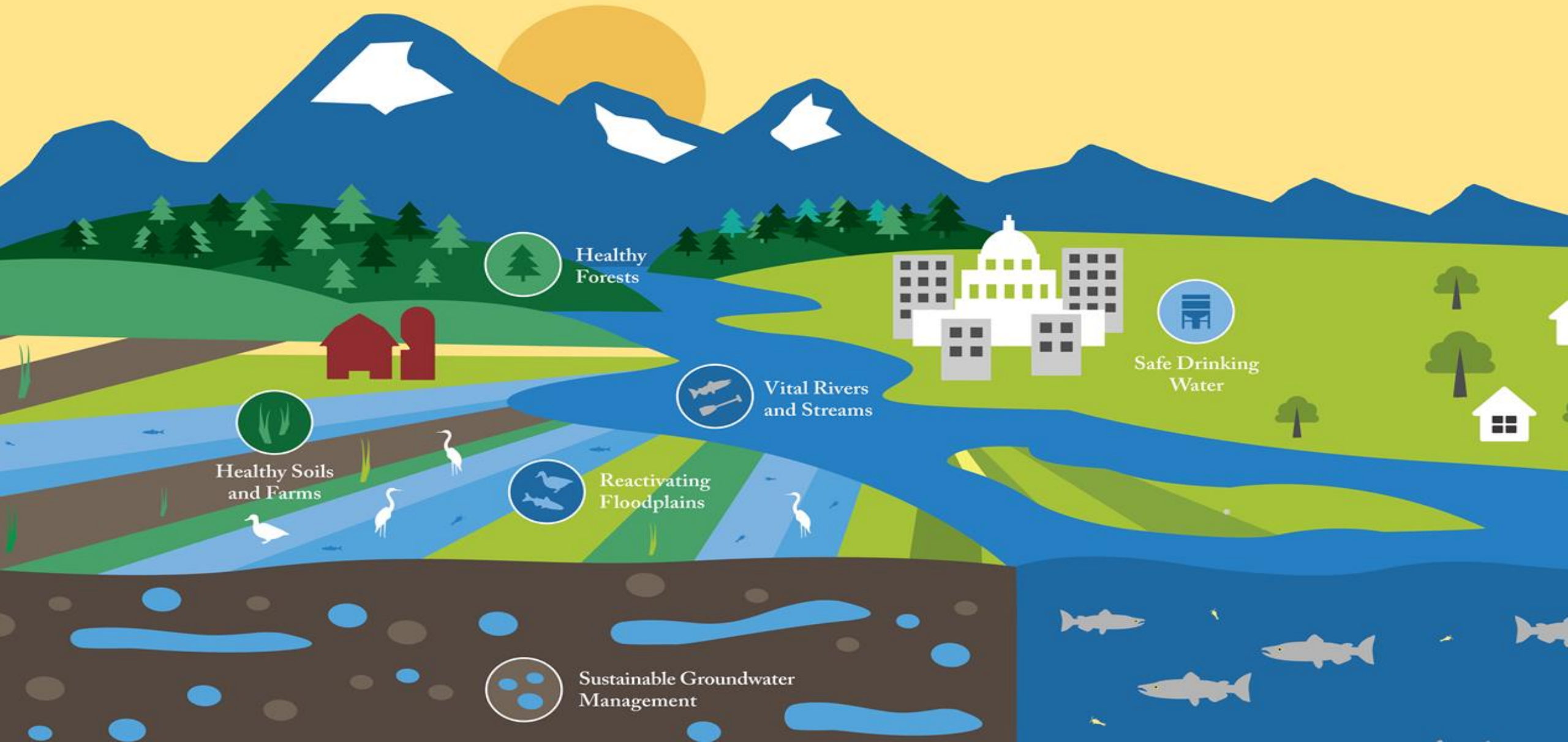
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# Groundwater Sustainability in the Sacramento Valley

July 31, 2024



# Vitalizing Healthy Rivers, Landscapes and Communities in the Sacramento Valley



Healthy Forests

Healthy Soils and Farms

Vital Rivers and Streams

Reactivating Floodplains

Safe Drinking Water

Sustainable Groundwater Management

**A PATHWAY FOR THE FUTURE:  
Sustainable Groundwater Management  
in the Sacramento Valley**



March 2022

**1.**

# **The Foundation: Groundwater Sustainability Plans (GSPs)**



# 2.

## Looking to the Future: Implementation

- 💧 Ensure safe drinking water for communities
- 💧 Advance groundwater recharge opportunities
- 💧 Better understand and manage surface water and groundwater interaction
- 💧 Coordinate well permitting across region
- 💧 Align state and federal priorities with local and regional needs



3.

# Regional Coordination

Groundwater Management Task Force  
GSA Managers/Consultants



# A Pathway for the Future

- ❖ Aquifers are both an unseen and yet critical part of the landscape that deserve additional attention as we envision groundwater sustainability in the region.
- ❖ The Pathway offers a path forward for groundwater sustainability in the Sacramento Valley and calls upon the leaders in the region to utilize our extensive and valuable natural infrastructure, including the groundwater aquifers and recharge areas, as part of a healthy landscape necessary for a functional Sacramento Valley and greater water supply resilience.
- ❖ In managing water from the ridgetop to the river mouth, we fully appreciate and embrace the Sacramento Valley's natural infrastructure, including our groundwater aquifer systems and their relation to both our rivers and creeks and the landscape that supports these vital rivers and creeks.

## A PATHWAY FOR THE FUTURE: Sustainable Groundwater Management in the Sacramento Valley



March 2022



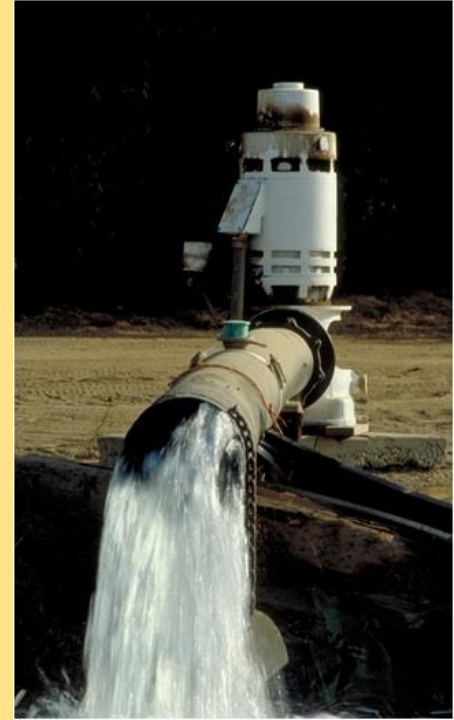
# DWR Groundwater Reports

The Department of Water Resources (DWR) continues to provide its semi-annual groundwater conditions report and its InSAR subsidence data to better understand our groundwater resources in the Sacramento Valley and to help inform and guide future water management decisions.



# Early Signs

Recent datasets are showing several pockets in the Sacramento Valley where there are early signs on “sustainable yield” and subsidence we should pay closer attention. This information raises important issues that will be addressed by local Groundwater Sustainability Agencies (GSAs), working with DWR and other local agencies.



# Subsidence Map, Sacramento Valley

## Subsidence Rate October 2018 to October 2023

**Vertical Displacement Rate  
October 2018 to October 2023**

Subsidence (ft/yr)

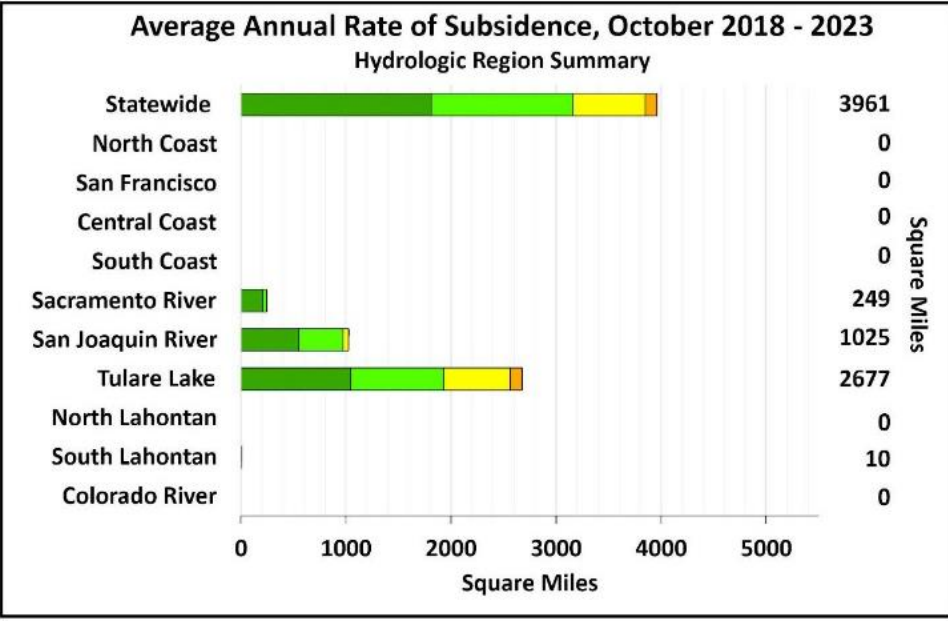
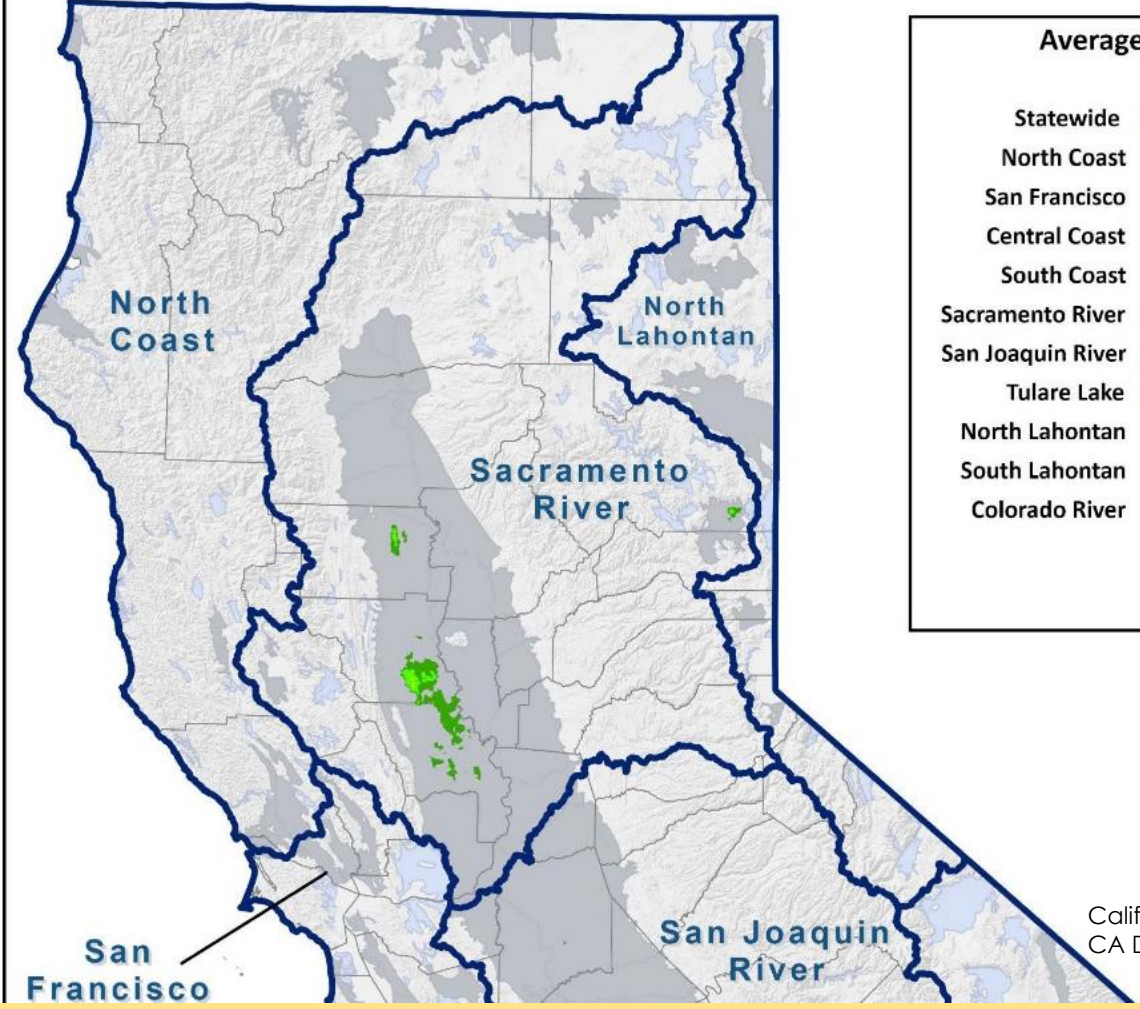
- >1
- 0.8 to 1
- 0.6 to 0.8
- 0.4 to 0.6
- 0.2 to 0.4
- 0.1 to 0.2

No Significant Change  
< +/- 0.1 ft/yr

Uplift (ft/yr)

- >0.1

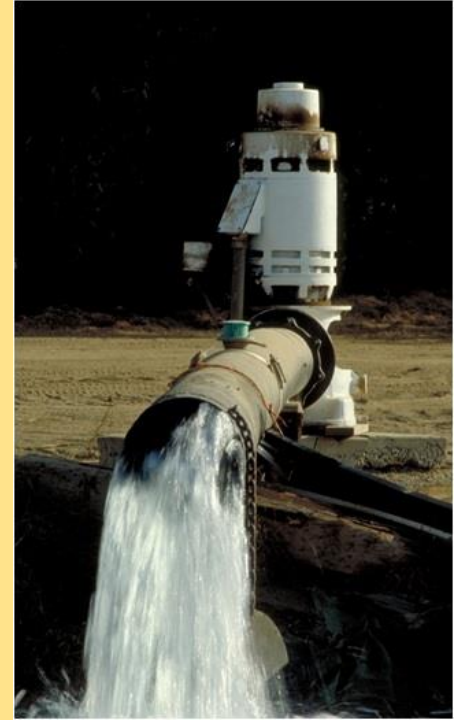
Hydrologic Regions  
County Boundary  
Groundwater Basin



California's Groundwater Conditions: Semi-Annual Update, CA DWR, May 2024

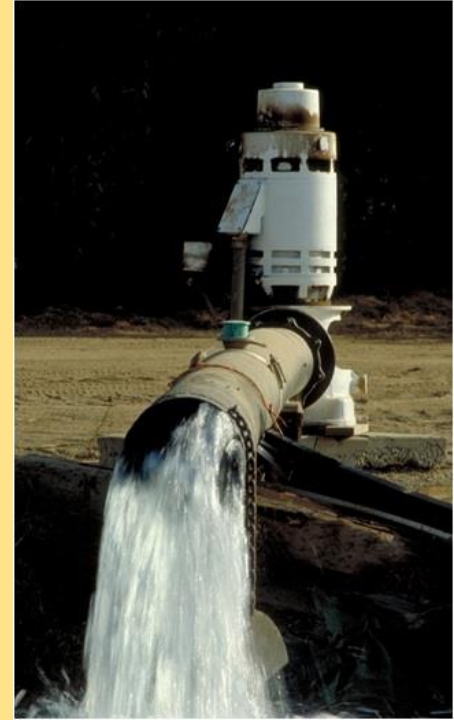
# Need to Protect Infrastructure

- 💧 Protect our Water and Community Infrastructure
- 💧 Aquifers as Natural Infrastructure: In 2023, a State budget-related bill, Senate Bill (SB) 122 defined aquifers as “natural infrastructure.” The enactment of this bill allows traditional infrastructure funding and other mechanisms to be utilized for aquifer operation and maintenance related to establishing or maintaining conjunctive management practices.



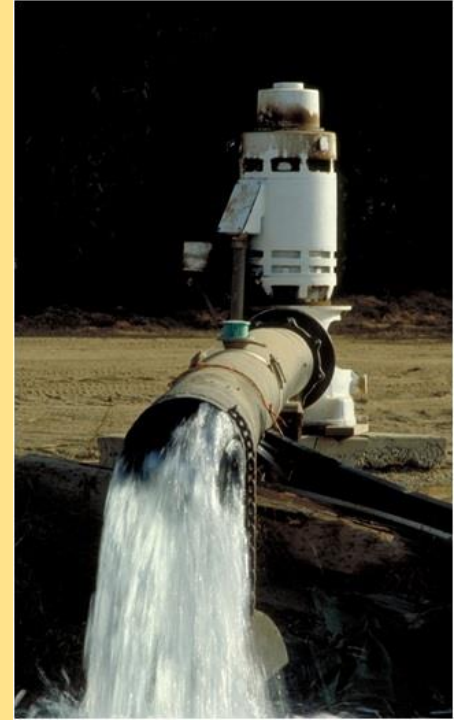
# Addressing this in the GSPs!

- 💧 The GSAs in these areas have submitted their initial Groundwater Sustainability Plans (GSPs) to DWR under the state's Sustainable Groundwater Management Act (SGMA). The GSAs are now focused on the implementation of SGMA and the GSPs, which includes avoiding undesirable results (i.e., sustainable yield and subsidence) and taking corrective actions (report to DWR in 2027) to bring these areas into balance with respect to their water supplies and sustainable groundwater management.



# The Role of Well Permitting

The GSAs continue to work with the Local Enforcement Agencies (LEAs) that are administering ordinances for the construction, maintenance, abandonment, or destruction of a water well. The agencies will work together to implement their local well permitting procedures developed under the recent Executive Orders to ensure continuity, coordination, and an ongoing local process to avoid subsidence and impacts to drinking water wells.



# Proposed Next Steps

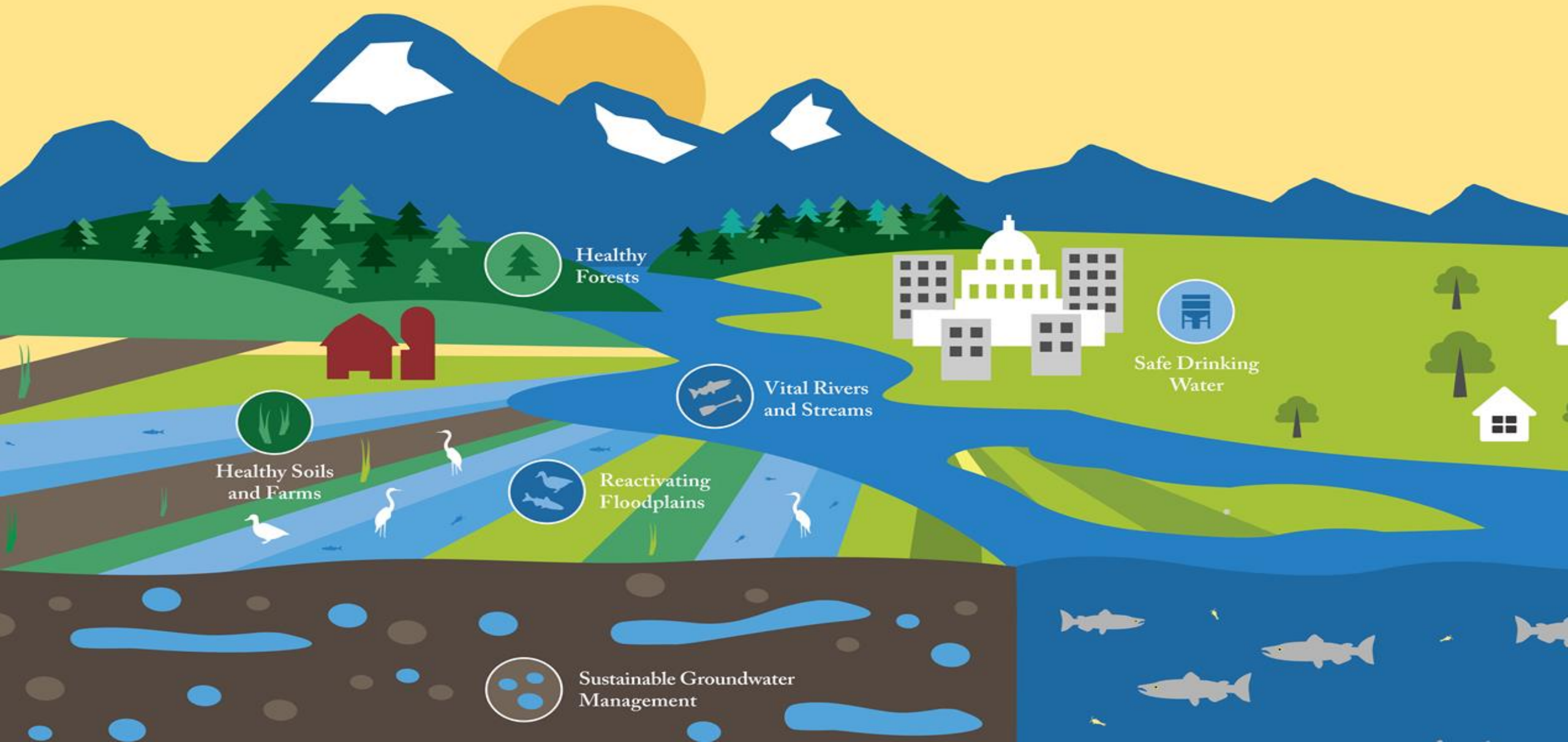
- 💧 Build on a *Pathway for the Future* for Sustainable Groundwater Management.
- 💧 Acknowledge subsidence is a problem and commit as a region to prevent subsidence in the Sacramento Valley.
- 💧 Convene a forum with DWR to better understand subsidence, help inform their best management practices, and develop shared expectations on how to amend GSPs to avoid future subsidence.
- 💧 Ramp up our advocacy and need for technical support to accelerate groundwater recharge.
- 💧 Work with GSAs and LEAs to explore demand management practices.

A PATHWAY FOR THE FUTURE:  
**Sustainable Groundwater Management  
in the Sacramento Valley**



March 2022

# Vitalizing Healthy Rivers, Landscapes and Communities in the Sacramento Valley



Healthy Forests



Healthy Soils and Farms



Vital Rivers and Streams



Reactivating Floodplains



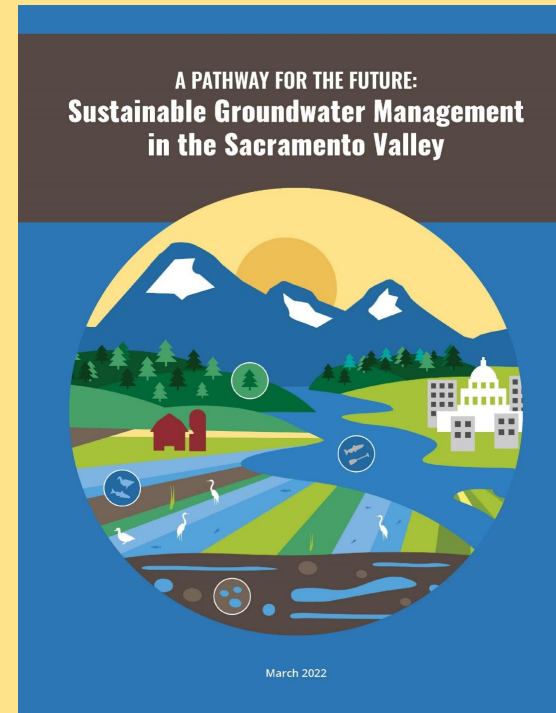
Safe Drinking Water



Sustainable Groundwater Management



# Discussion and Input...



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# CALIFORNIA DEPARTMENT OF WATER RESOURCES

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# Appreciating Director Vanderwaal

## Meet Bill Vanderwaal, *the New General Manager at Tehama-Colusa Canal Authority*

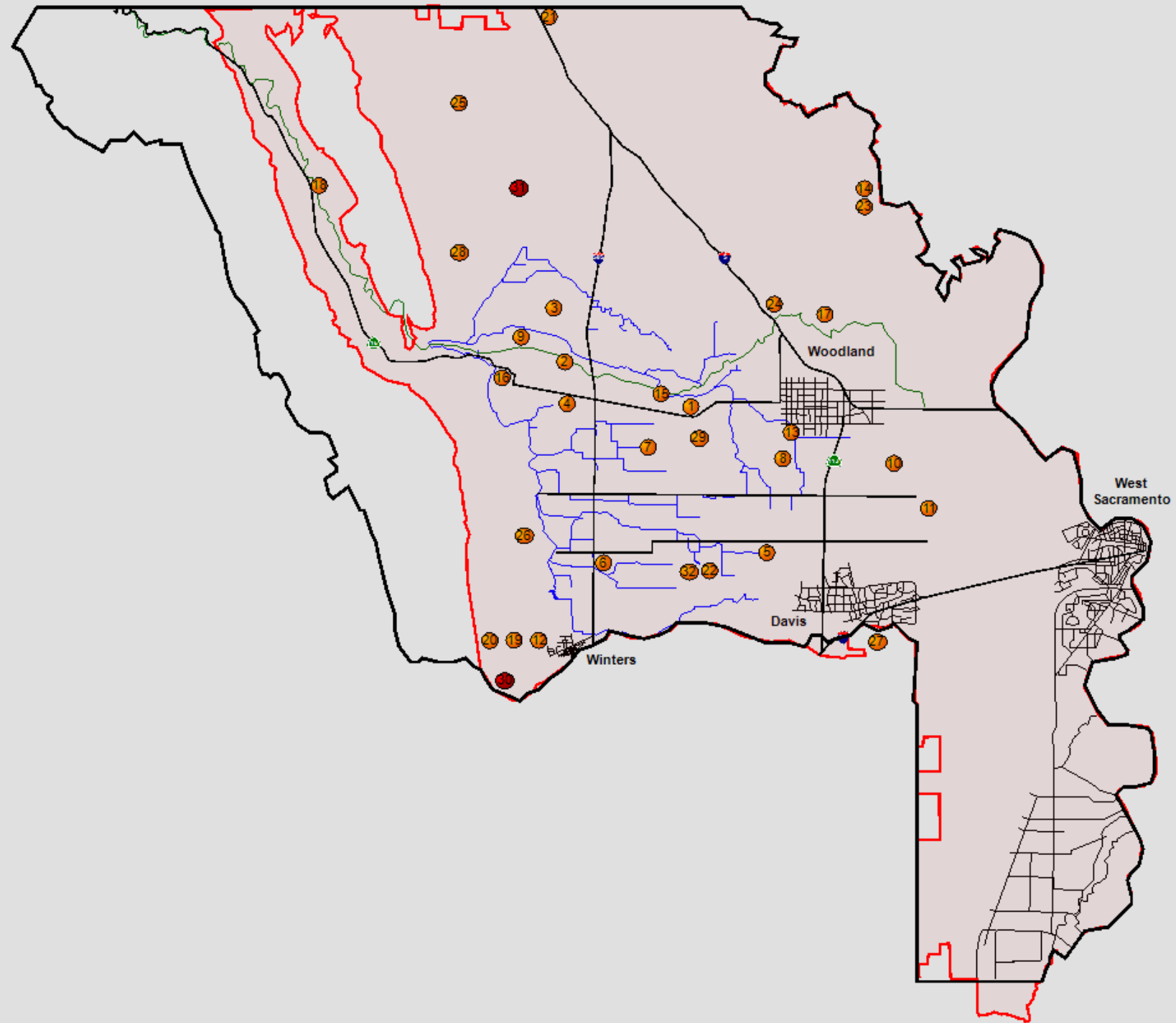


The Tehama-Colusa Canal Authority (TCCA) has named William (Bill) Vanderwaal as its new General Manager, effective June 10. Vanderwaal, a registered Professional Civil Engineer, brings knowledge and expertise in Sacramento River water contracts as well as experience with the U.S. Bureau of Reclamation to serve the TCCA's member agencies and the California water community.

Vanderwaal has worked for Reclamation District 108 since 2017 as Deputy General Manager, and since 2018 has simultaneously managed Dunnigan Water District, a TCCA member agency. In addition to management of day-to-day operations and capital improvement projects for these two entities, he has spearheaded groundbreaking water resources initiatives, including regionally cooperative salmon habitat restoration projects and a groundwater recharge program that has received recognition throughout the State. He previously worked at the U.S. Bureau of Reclamation, where he served as Project Manager for the Red Bluff Fish Passage Improvement Project, a state-of-the-art facility that remains a backbone of TCCA operations.





TCCA is a joint powers authority whose member agencies hold water service contracts with the U.S. Bureau of Reclamation and that delivers irrigation water to 150,000 acres of high-value crops in the Sacramento Valley. Vanderwaal will oversee the operation and maintenance of TCCA's extensive water delivery facilities and will manage relations with local, state and Federal entities with respect to water supplies and other critical policy matters.

**Well Monitoring**  
Continuous

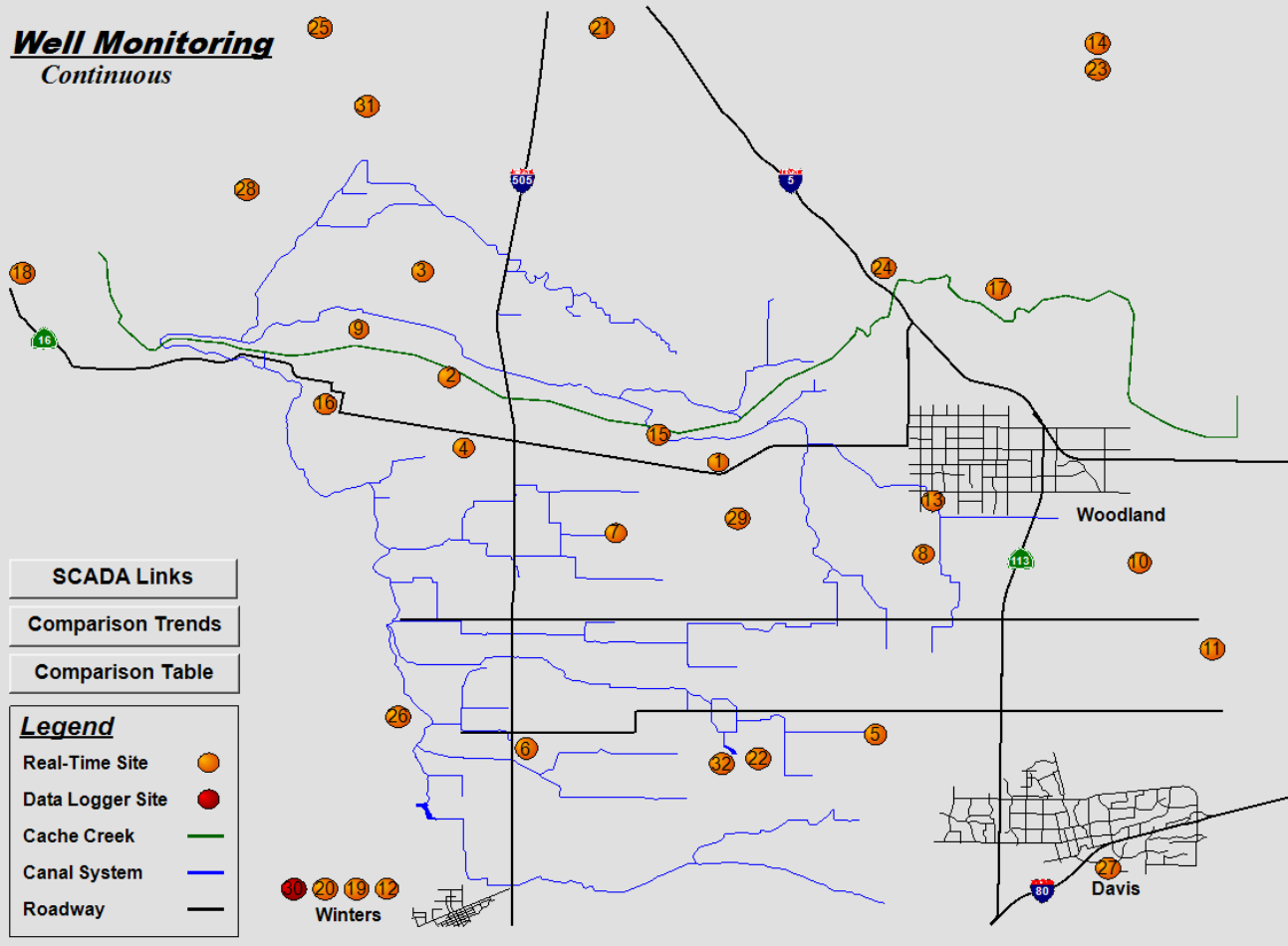


- SCADA Links
- Comparison Trends
- Comparison Table

**Legend**

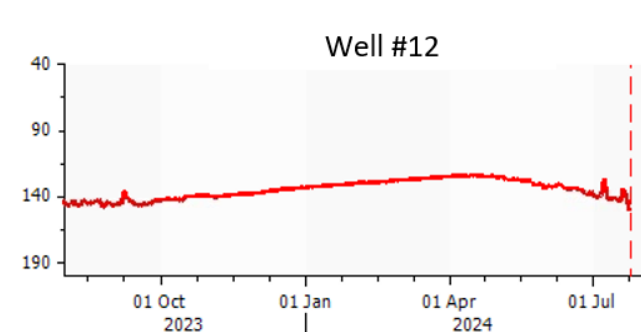
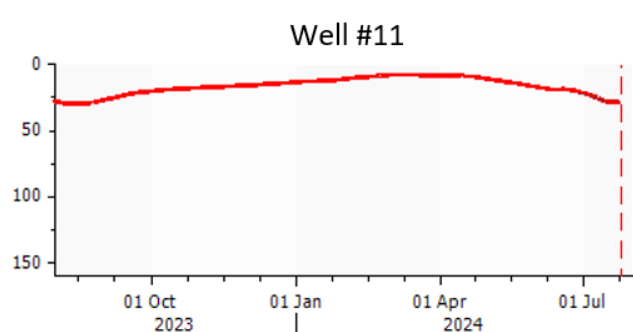
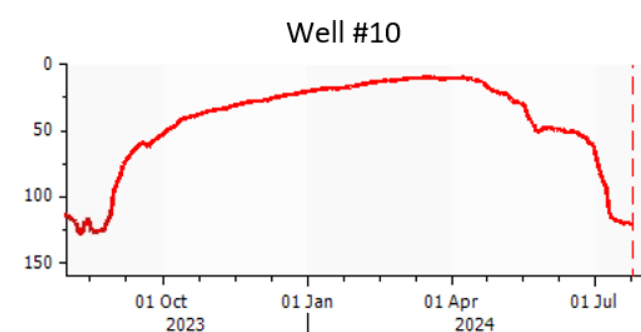
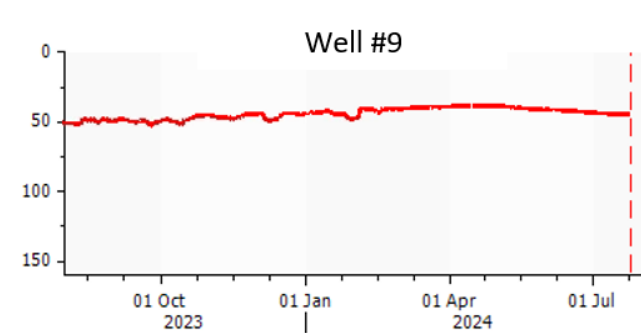
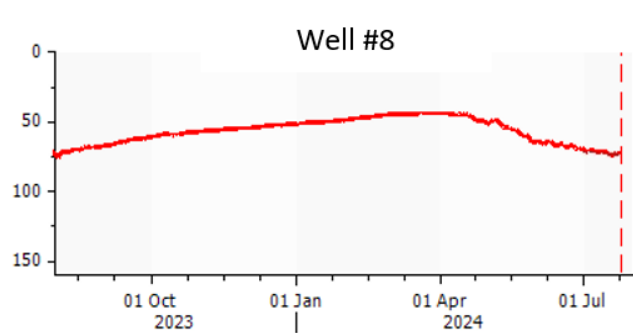
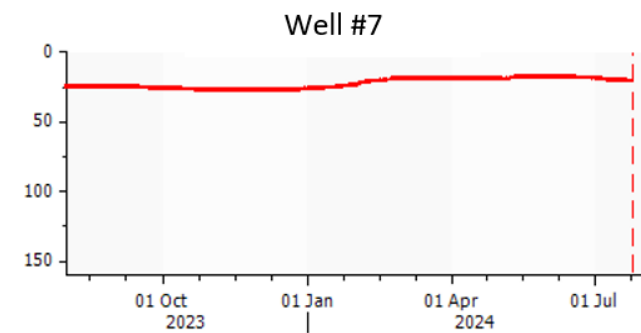
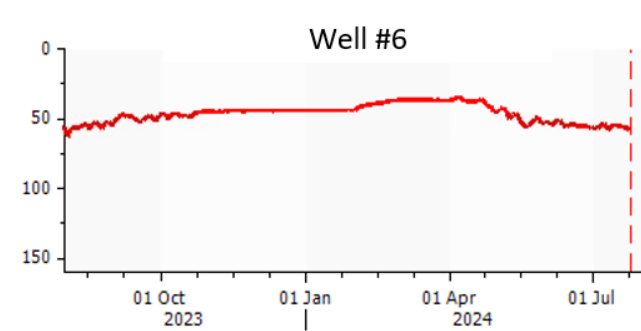
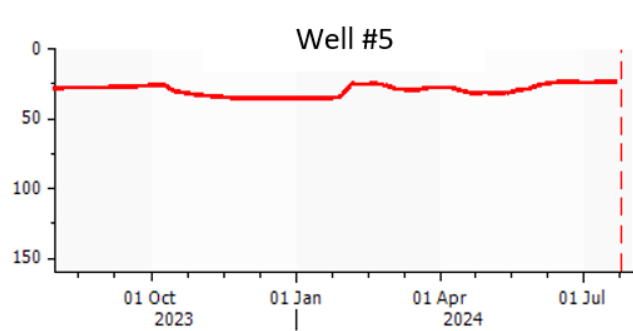
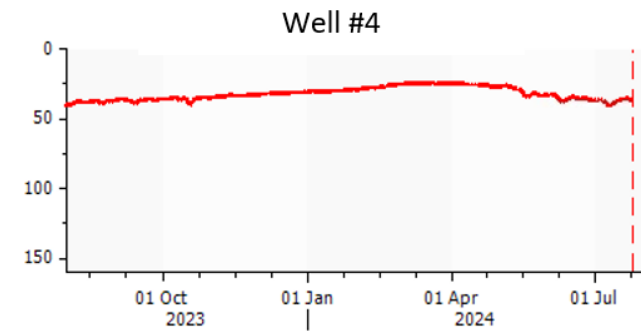
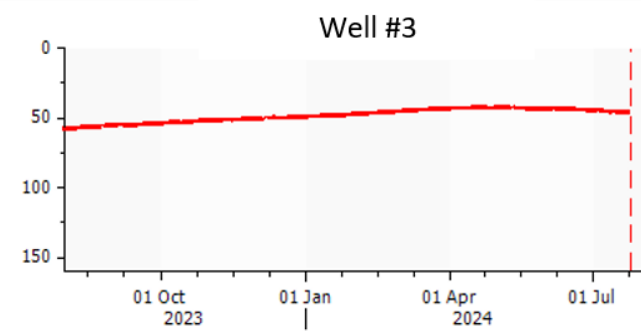
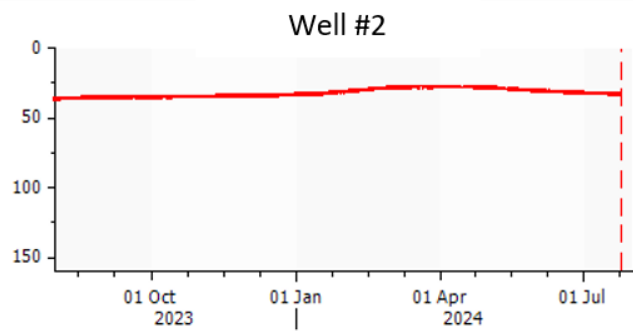
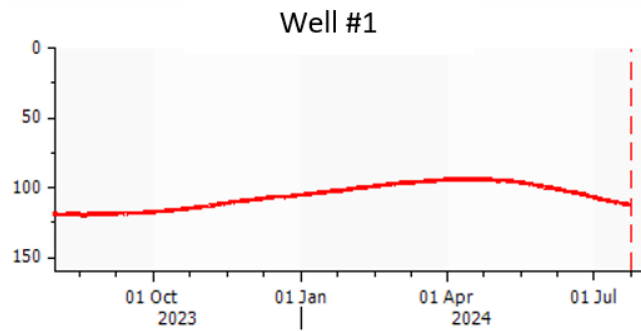
- Real-Time Site 
- Data Logger Site 
- YSGA 
- County 

**Well Monitoring**  
Continuous

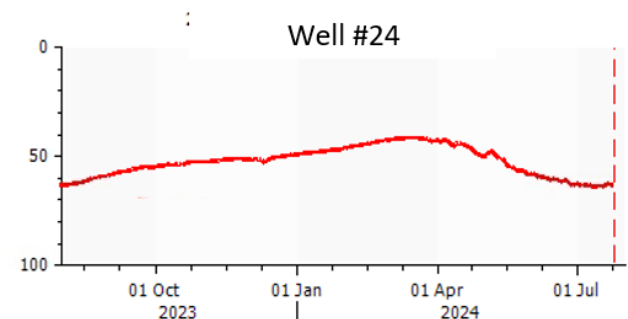
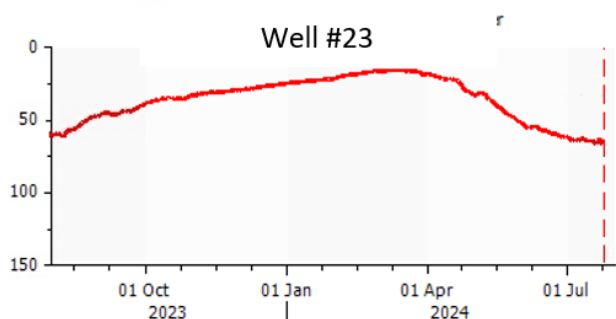
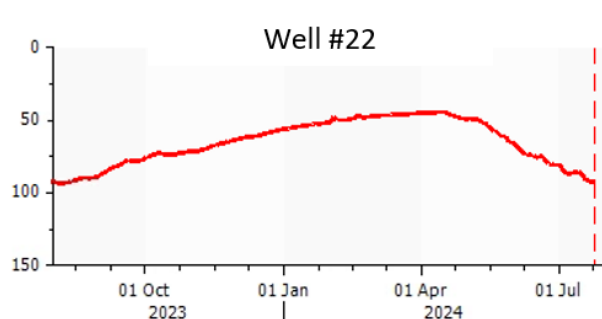
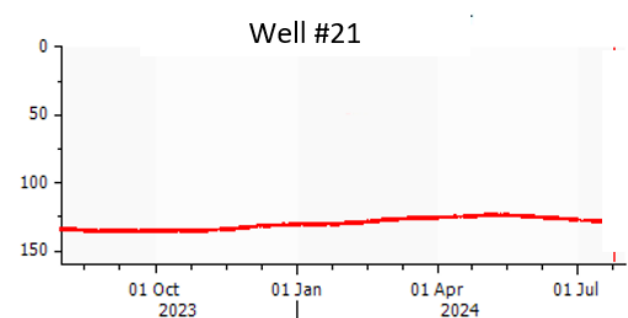
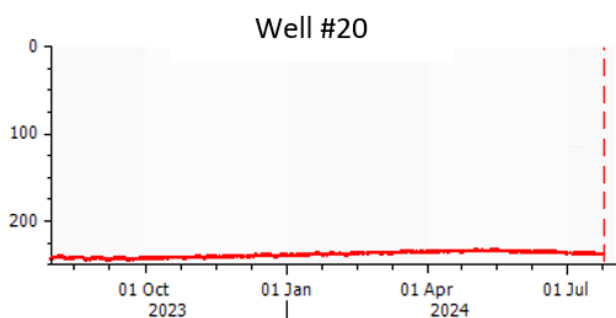
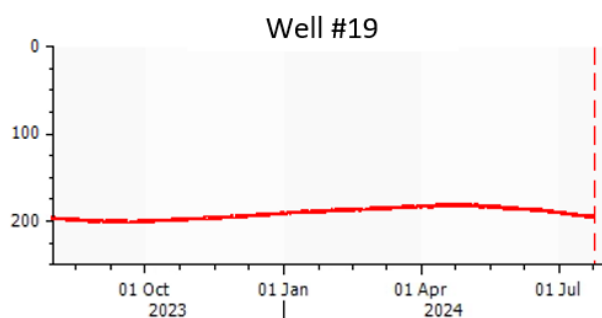
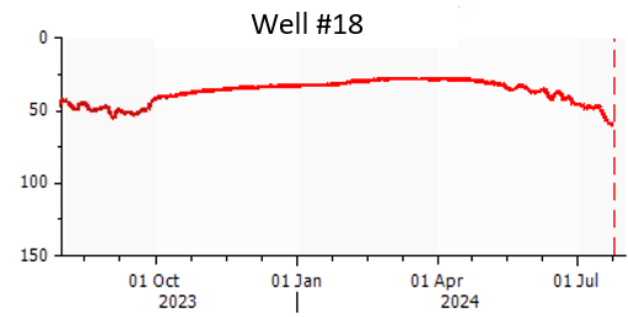
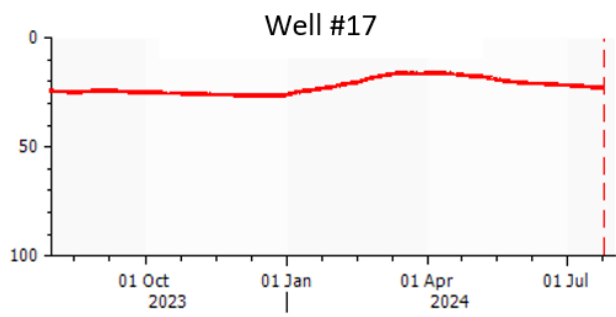
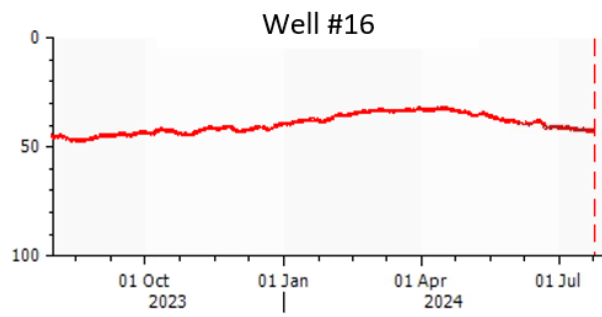
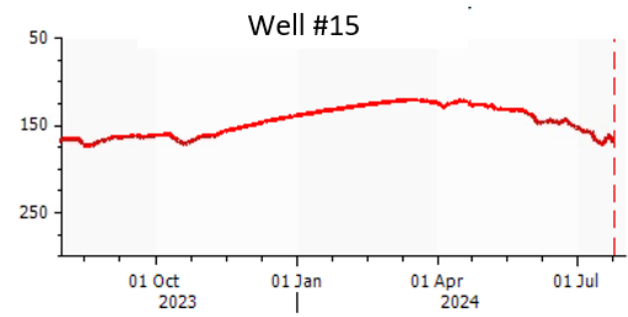
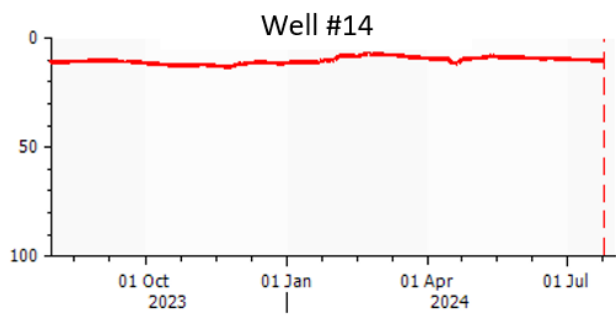
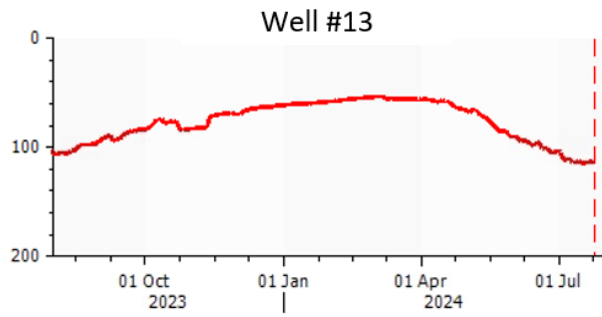


**Well Monitoring**  
Depth to Water Historical Comparison  
(Daily Average DTW in feet)

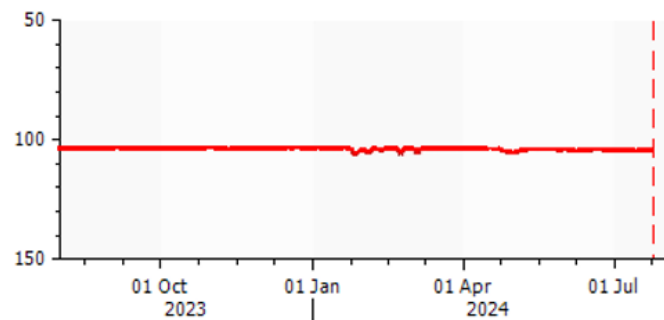
Well	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	$\Delta$ 2023	$\Delta$ 2022
															-2024	-2024
1.	91.3	96.3	106.8	126.2	126.1	119.8	106.7	109.1	102.9	111.6	141.9	150.2	118.5	113.4	5.0	36.8
2.	31.9	37.0	40.1	52.9	48.2	43.8	30.3	33.9	30.1	31.9	41.3	53.2	42.9	36.5	6.3	16.6
3.	39.5	45.7	52.5	82.7	72.5	61.5	38.9	44.0	37.8	43.5	69.9	87.3	57.6	45.8	11.8	41.4
4.	34.5	39.1	44.7	53.8	58.9	44.4	33.8	35.6	37.5	32.9	57.8	64.4	44.4	39.9	4.5	24.5
5.		15.3	18.3	33.6	35.1	36.2	22.3	26.7	16.4	21.0	34.7	41.9	28.6	23.9	4.6	17.9
6.		57.8	61.5	92.4	80.3	63.4	45.8	50.0	43.2	42.6	65.9	88.8	63.0	58.7	4.3	30.1
7.				46.5	46.5	26.1	17.4	21.2	17.4	24.4	45.8	46.8	24.0	20.3	3.7	26.6
8.				94.1	88.8	87.2	63.7	75.3	57.0	67.4	89.1	96.0	69.0	73.2	-4.1	22.8
9.				72.4	68.7	57.3	41.9	44.5	41.0	44.2	62.1	77.7	51.1	45.0	6.0	32.6
10.					121.0	128.3	66.1	131.3	82.6	128.0	135.4	136.6	108.2	127.6	-19.4	8.9
11.					33.8	33.3	18.9	30.7	19.9	32.0	36.2	37.3	26.0	29.0	-3.1	8.3
12.									124.4	132.5	148.2	155.9	145.5	150.4	-4.8	5.5
13.								125.7	95.6	114.9	141.3	161.5	104.1	114.8	-10.8	46.6
14.									9.3	10.3	13.6	13.4	10.4	10.0	.3	.3
15s.								40.9	35.2	38.3	49.0	48.1	36.2	35.5	.7	12.7
15d.								166.1	148.9	154.8	250.8	280.1	165.6	165.3	.2	114.8
16.								40.9	35.2	41.4	50.6	58.1	46.8	43.2	3.6	15.0
17.										23.5	32.7	36.1	23.8	22.8	1.0	1.0
18.										74.0	115.1	102.0	46.7	54.2	-7.5	-7.5
19.										180.3	195.6	206.6	195.3	195.6	-3	-3
20.														238.6		
21.											137.1	142.2	134.3	128.7	5.7	5.7
22.												127.2	91.2	91.0	.1	.1
23.												97.5	71.4	68.5	2.9	2.9
24.												85.9	63.9	62.8	1.1	1.1
25.												102.4	103.7	104.6	-.9	
26.												126.0	92.6	85.2	7.3	
27.													90.8	82.5	8.2	
28.																
29.													90.0	81.1	9.0	
30.												126.4				
31.													206.8	191.8	15.0	
32.														157.0		



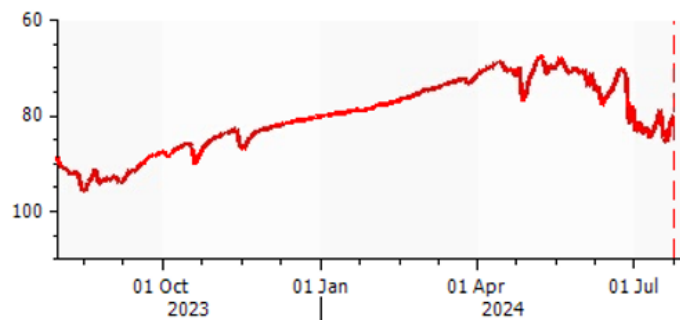




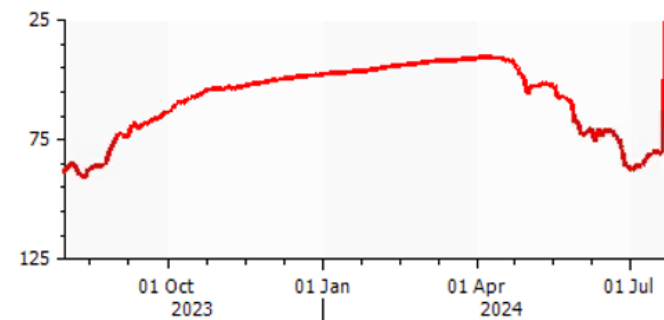
Well #25



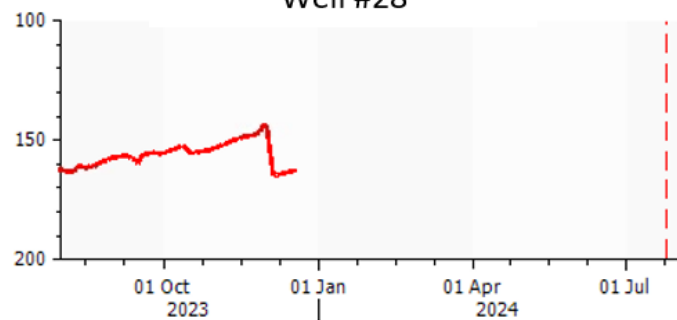
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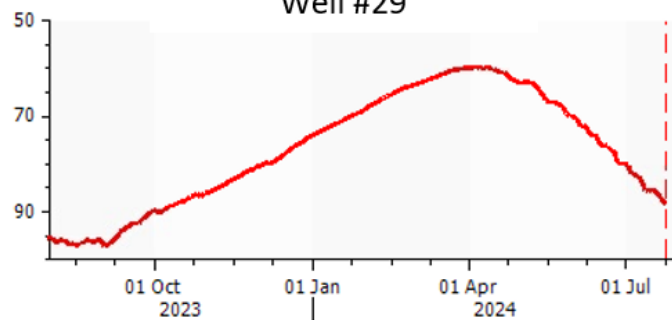
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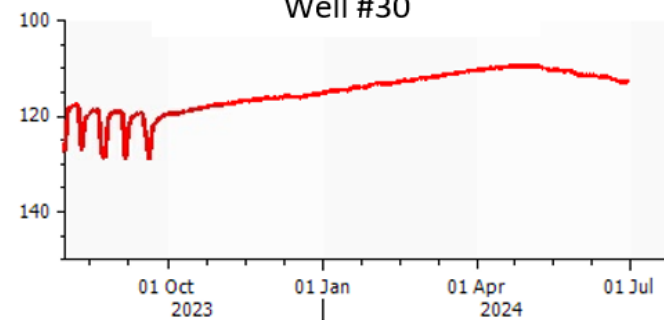
Well #28



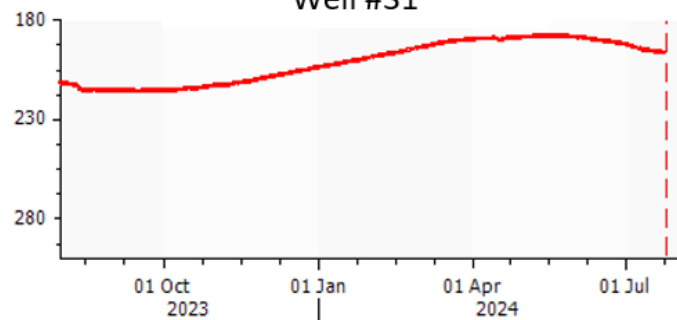
Well #29



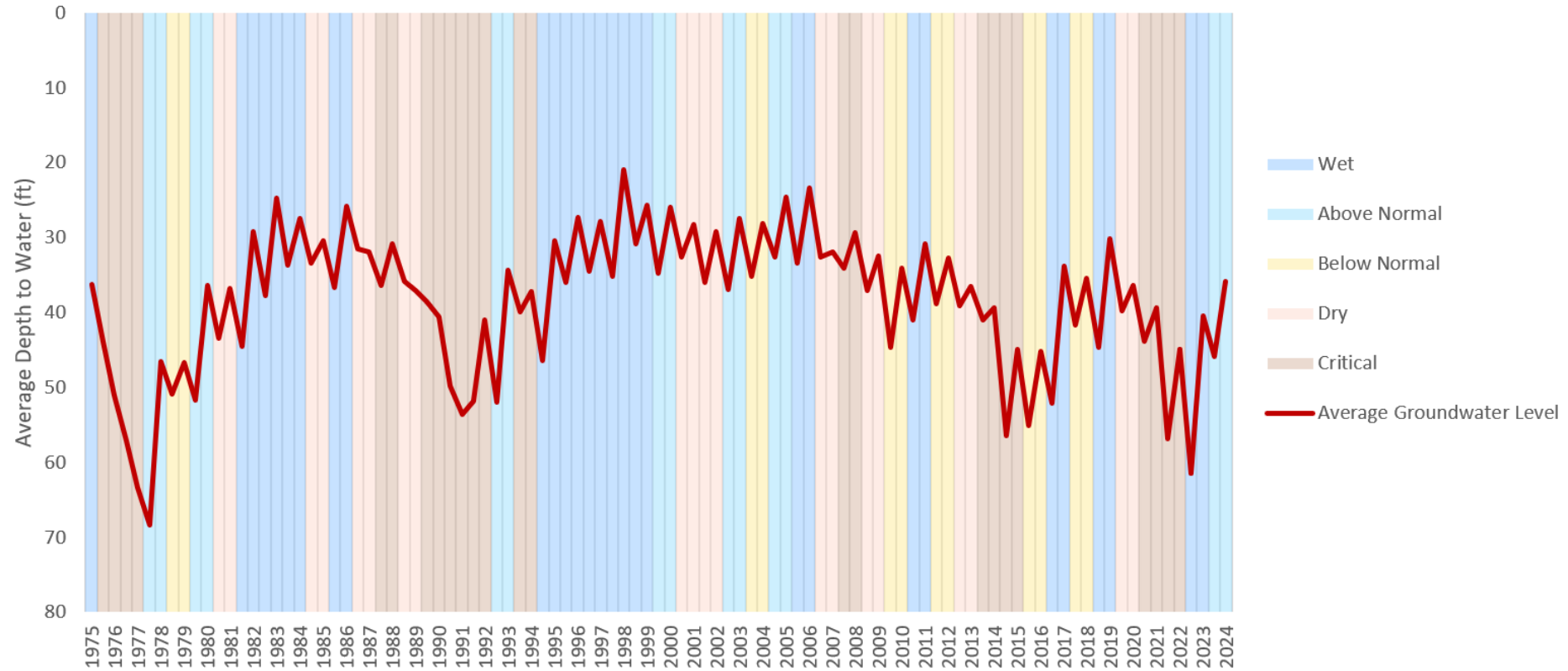
Well #30



Well #31



## Yolo Subbasin Average Groundwater Representative Wells - Depth by Season (62 Wells)



April 2023 Average Depth to Water ~ 40.4 feet

April 2024 Average Depth to Water ~ 35.8 feet

Of Note:

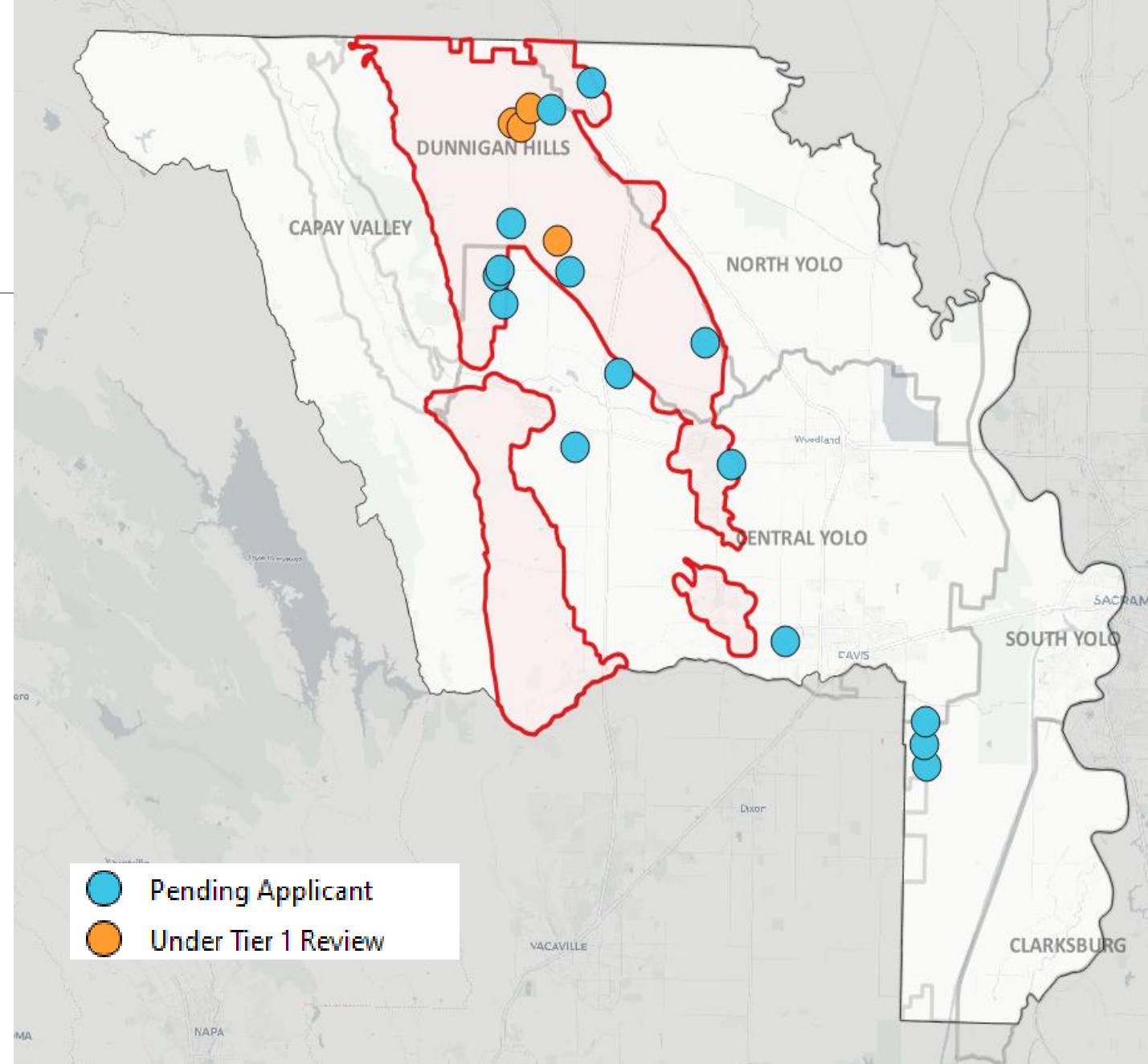
- Fall 1975 to Fall 1977 Drawdown ~ 25 feet
- 2014 Drawdown from Spring to Fall ~ 17 feet
- 2019 Drawdown from Spring to Fall ~ 9.5 ft
- 2022 Drawdown from Spring to Fall ~ 17 feet
- 2023 Drawdown from Spring to Fall ~ 6 feet

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# Pending Well Permits

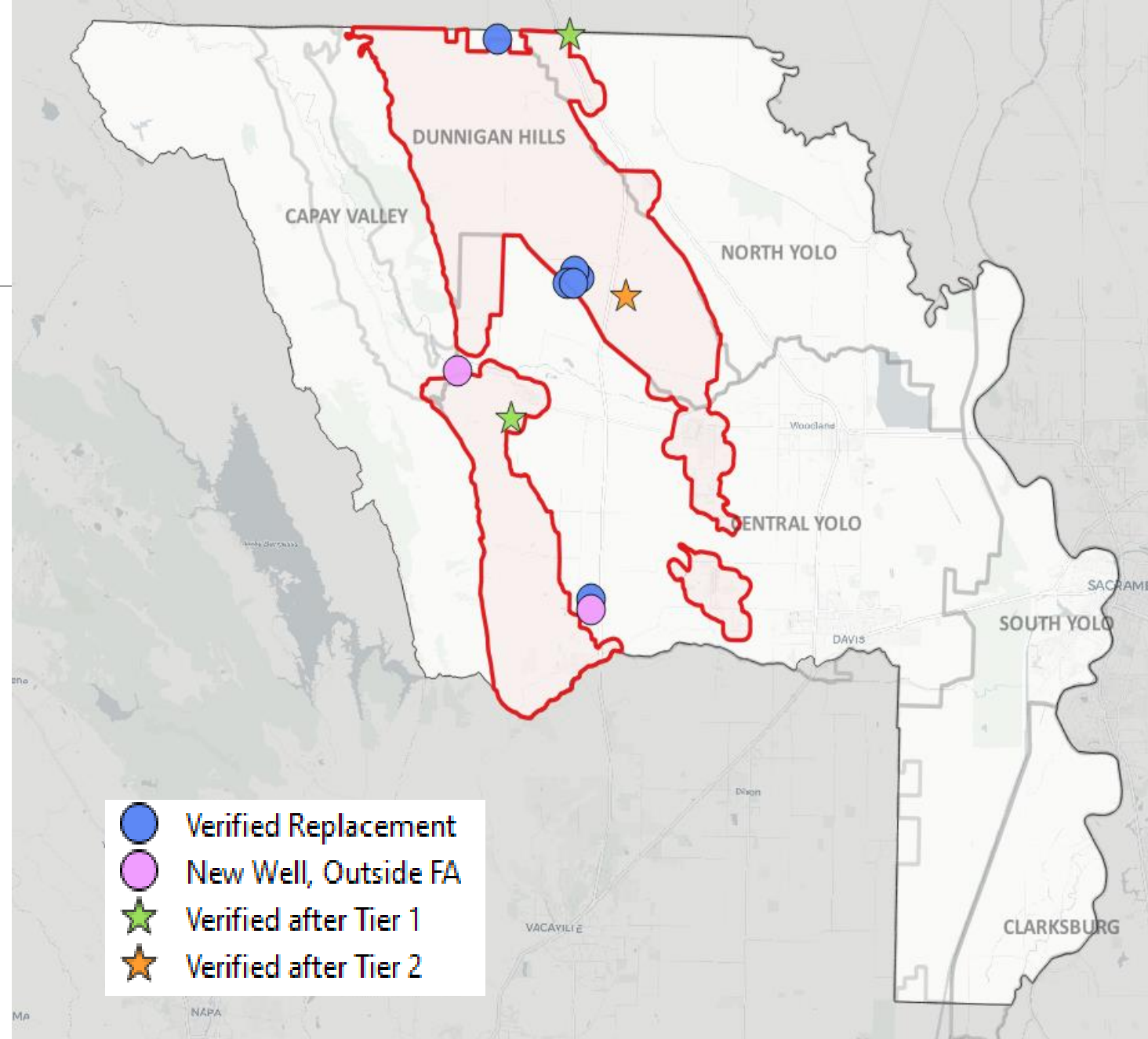
- 19 permits in the queue
  - ✓ 13 within the Focus Areas
    - 4 submitted Tier 1 Forms and are under review
    - 9 pending completed Tier 1 Form
  - ✓ 6 outside of Focus Areas
    - All pending information from applicant



# Approved Well Permits

Since March 18, 2024 Procedures, YSGA has verified:

- 3 permits outside of Focus Areas
  - ✓ 2 new wells
  - ✓ 1 replacement
- Within Focus Areas:
  - ✓ 5 permits verified as replacements
  - ✓ 2 permits verified after Tier 1
  - ✓ 1 permits verified after Tier 2



# Agenda

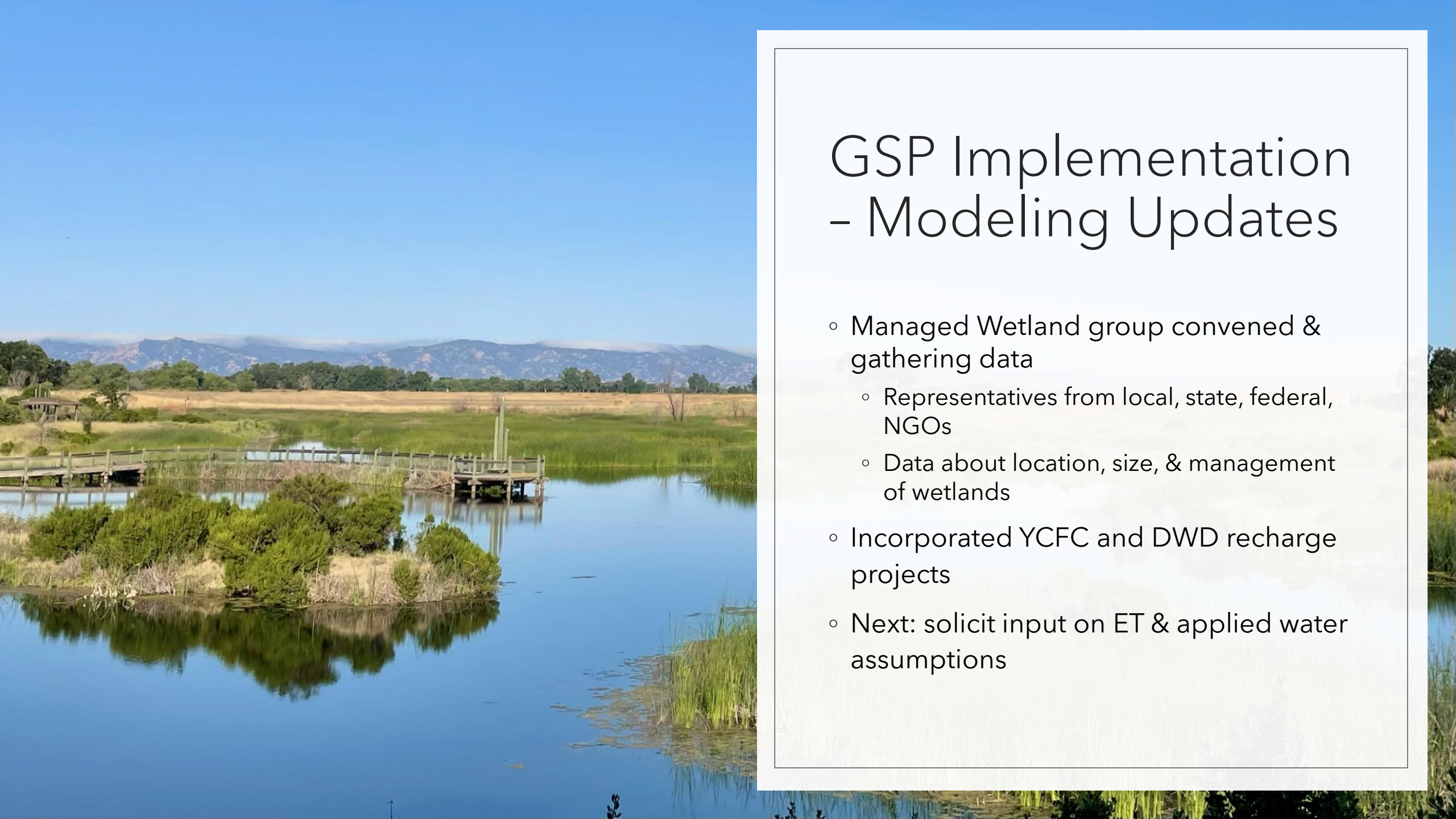
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Row #	Grant Component	Total
	<b>Total</b>	<b>\$ 7,917,000</b>
1	<b>1. GRANT ADMINISTRATION</b>	<b>\$ 613,900</b>
2	<b>2. YOLO SUBBASIN GSP IMPLEMENTATION</b>	<b>\$ 1,721,000</b>
2a	<i>YSGA</i>	<i>\$ 324,523</i>
2b	<i>Consultant</i>	<i>\$ 1,396,477</i>
3	<b>3. YCFCWCD WINTER RECHARGE PROGRAM</b>	<b>\$ 2,600,000</b>
3a	<i>YCFC&amp;WCD</i>	<i>\$ 1,175,000</i>
3b	<i>Consultant</i>	<i>\$ 1,425,000</i>
4	<b>4. CITY OF WINTERS FEASIBILITY STUDIES</b>	<b>\$ 580,000</b>
5	<b>5. YOLO-ZAMORA GROUNDWATER RECHARGE PILOT PROJECT</b>	<b>\$ 1,221,100</b>
5a	<i>YCFC&amp;WCD specific tasks + YCFC&amp;WCD Consultants</i>	<i>\$ 416,300</i>
5b	<i>YSGA (only project admin)</i>	<i>\$ 120,000</i>
5c	<i>Consultant</i>	<i>\$ 684,800</i>
6	<b>6. DUNNIGAN AREA RECHARGE PROGRAM</b>	<b>\$ 1,181,000</b>





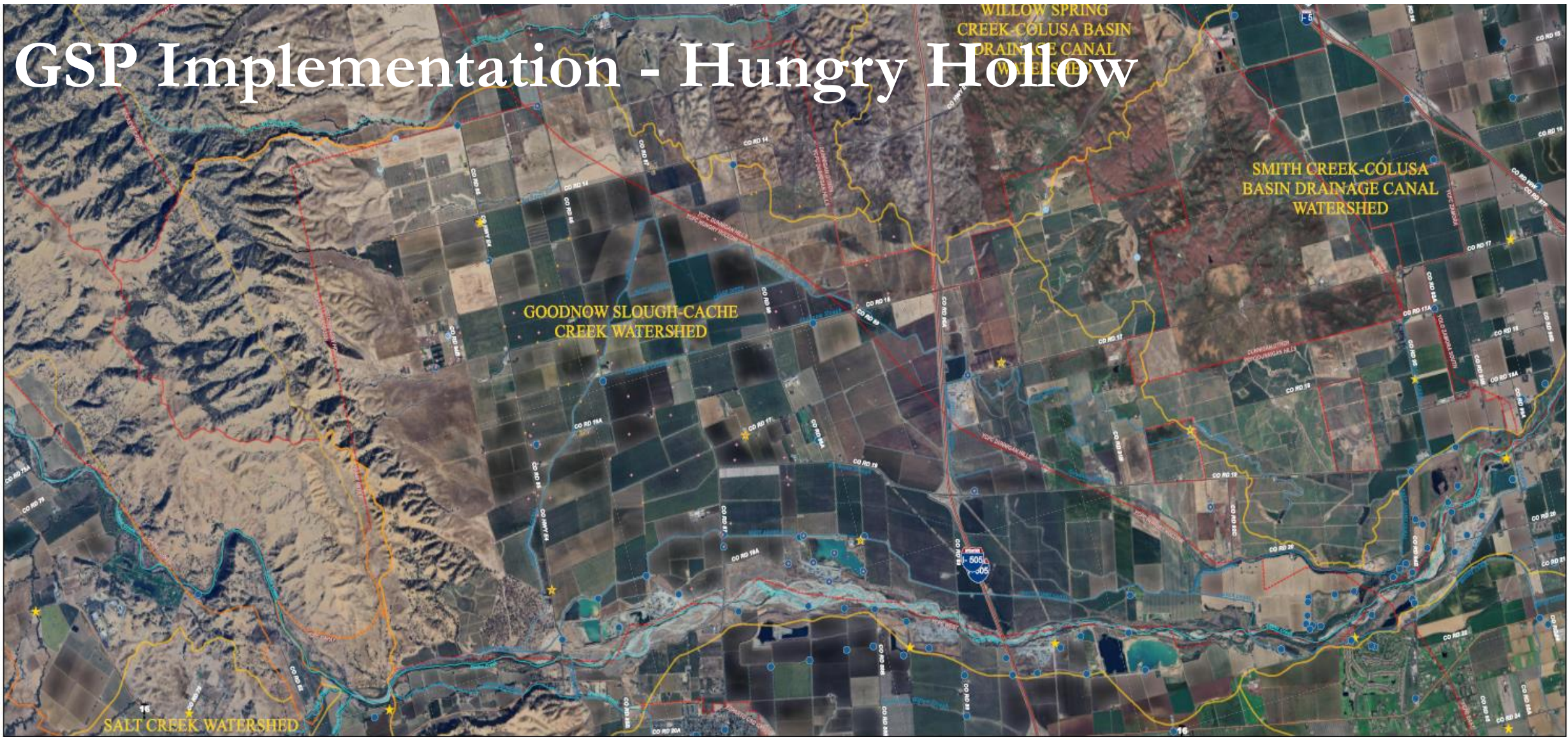
# GSP IMPLEMENTATION



# GSP Implementation - Modeling Updates

- Managed Wetland group convened & gathering data
  - Representatives from local, state, federal, NGOs
  - Data about location, size, & management of wetlands
- Incorporated YCFC and DWD recharge projects
- Next: solicit input on ET & applied water assumptions

# GSP Implementation - Hungry Hollow



## Hungry Hollow Area Map

For Community Meeting  
June 24, 2024

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>● Periodic Monitoring</li> <li>★ Representative Well</li> <li>● Newly Added Wells</li> </ul> | <ul style="list-style-type: none"> <li>● Drilled pre-2000</li> <li>● Drilled post-2000</li> </ul> | <ul style="list-style-type: none"> <li>■ HUC 12 Watersheds</li> <li>■ YSGA Model Catchments</li> <li>— Creeks</li> <li>— Canals</li> <li>--- sloughs</li> </ul> |
|---|---|---|



# Hungry Hollow Groundwater Working Group Update

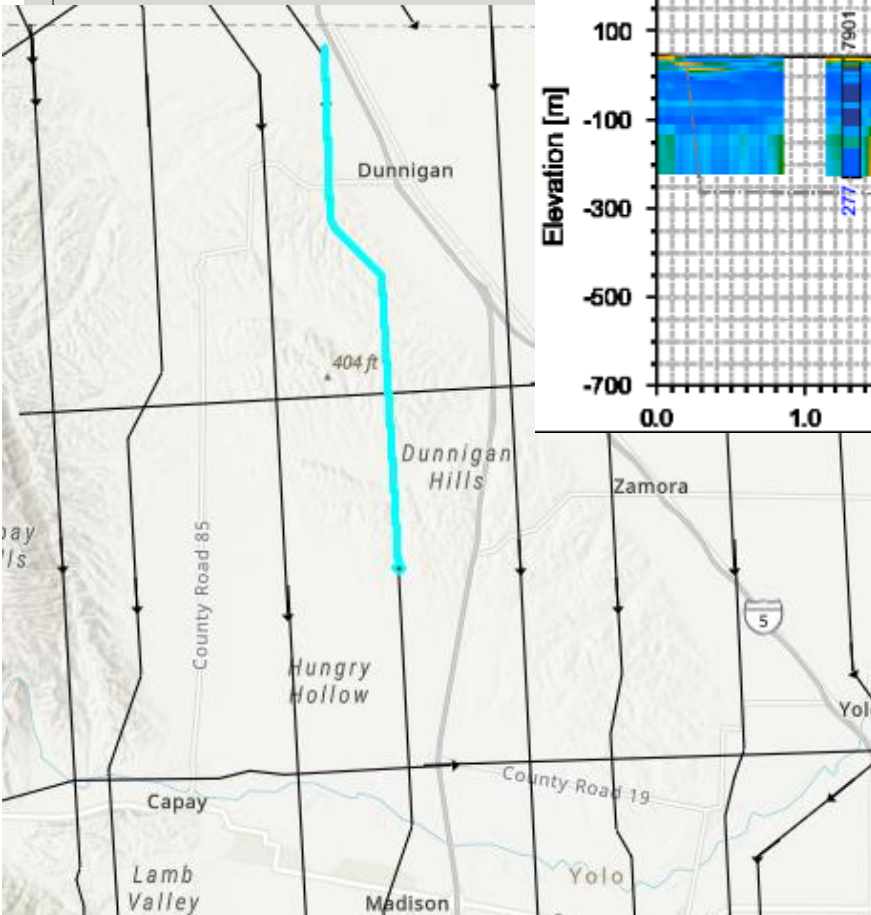
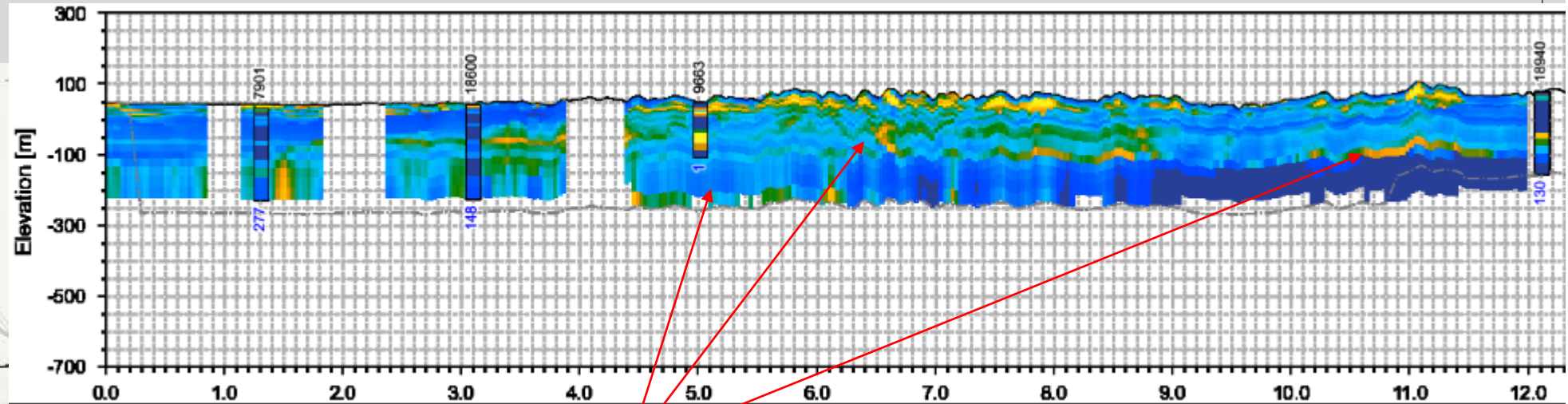
- YSGA staff updating well log database and will:
  - develop geologic/hydrogeologic cross sections
  - assist SEI with updating the aquifer parameters for the model
  - identify PMAs based on updated hydrogeologic conceptual understanding of Hungry Hollow
  - collaborate with Hungry Hollow Groundwater Working Group find a path to sustainability
- Exploring other opportunities to collect additional geophysical data (tTEM, SP) to fill in data gaps where AEM and/or well log coverage isn't available

# Airborne Electromagnetic (AEM) Survey Data in Yolo

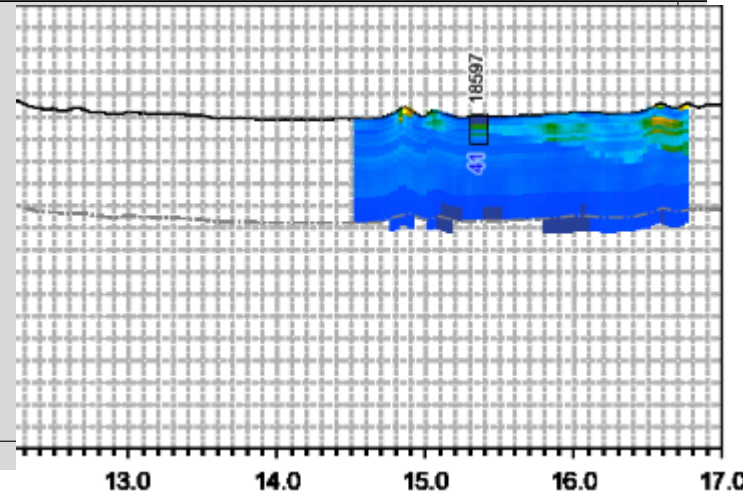
- “X-ray” of the subsurface along flight lines up to 1,000 feet deep
- Generally, data provides *relative* accuracy
  - where coarser v. finer grained material are relative to one another
  - where saline v. fresh water zones are relative to one another
  - subsurface structure (folding, layering) and faulting



# Airborne Electromagnetic (AEM) Survey Data in Yolo



Examples of relative change, geologic structure, etc.





# YCFC&WCD WINTER RECHARGE PROGRAM

# YCFC&WCD Winter Recharge Program

4 automated gates installed on the Hungry Hollow Canal





# YCFC&WCD Winter Recharge Program

4 automated gates installed on the Hungry Hollow Canal



**BEFORE**

# YCFC&WCD Winter Recharge Program

4 automated gates installed on the Hungry Hollow Canal



**AFTER**

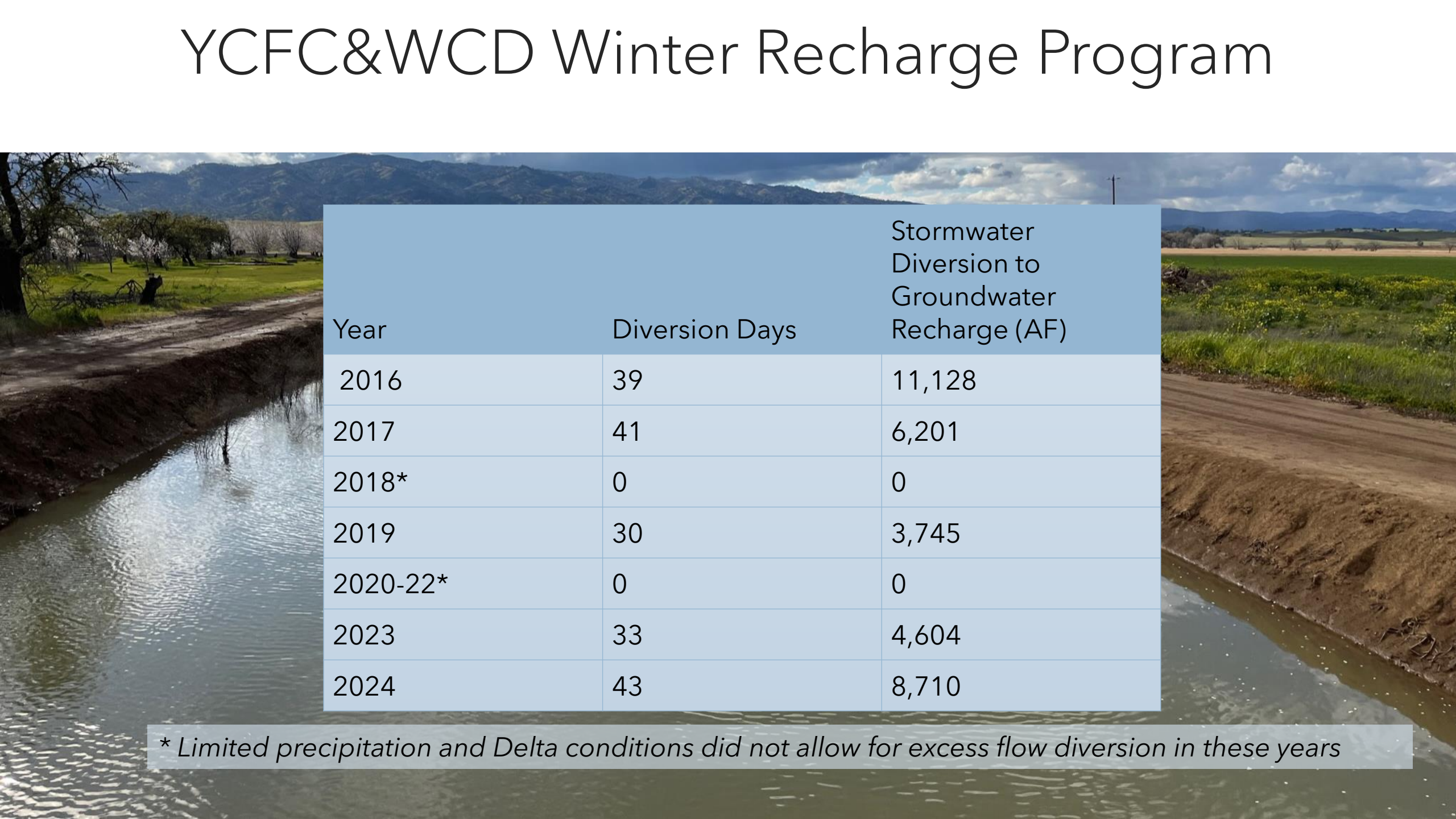
# YCFC&WCD Winter Recharge Program

4 automated gates installed on the Hungry Hollow Canal



**AFTER**

# YCFC&WCD Winter Recharge Program



Year	Diversion Days	Stormwater Diversion to Groundwater Recharge (AF)
2016	39	11,128
2017	41	6,201
2018*	0	0
2019	30	3,745
2020-22*	0	0
2023	33	4,604
2024	43	8,710

*\* Limited precipitation and Delta conditions did not allow for excess flow diversion in these years*

# YCFC&WCD Recharge - Other Updates

- 2025 Temporary Permit application drafted & expected to be submitted early Aug.
- MBK Engineers has initiated the water availability analysis for long-term application & expected to be submitted by end of 2024
- Working with Sustainable Conservation to identify farm fields that can be flooded during the winter months for recharge





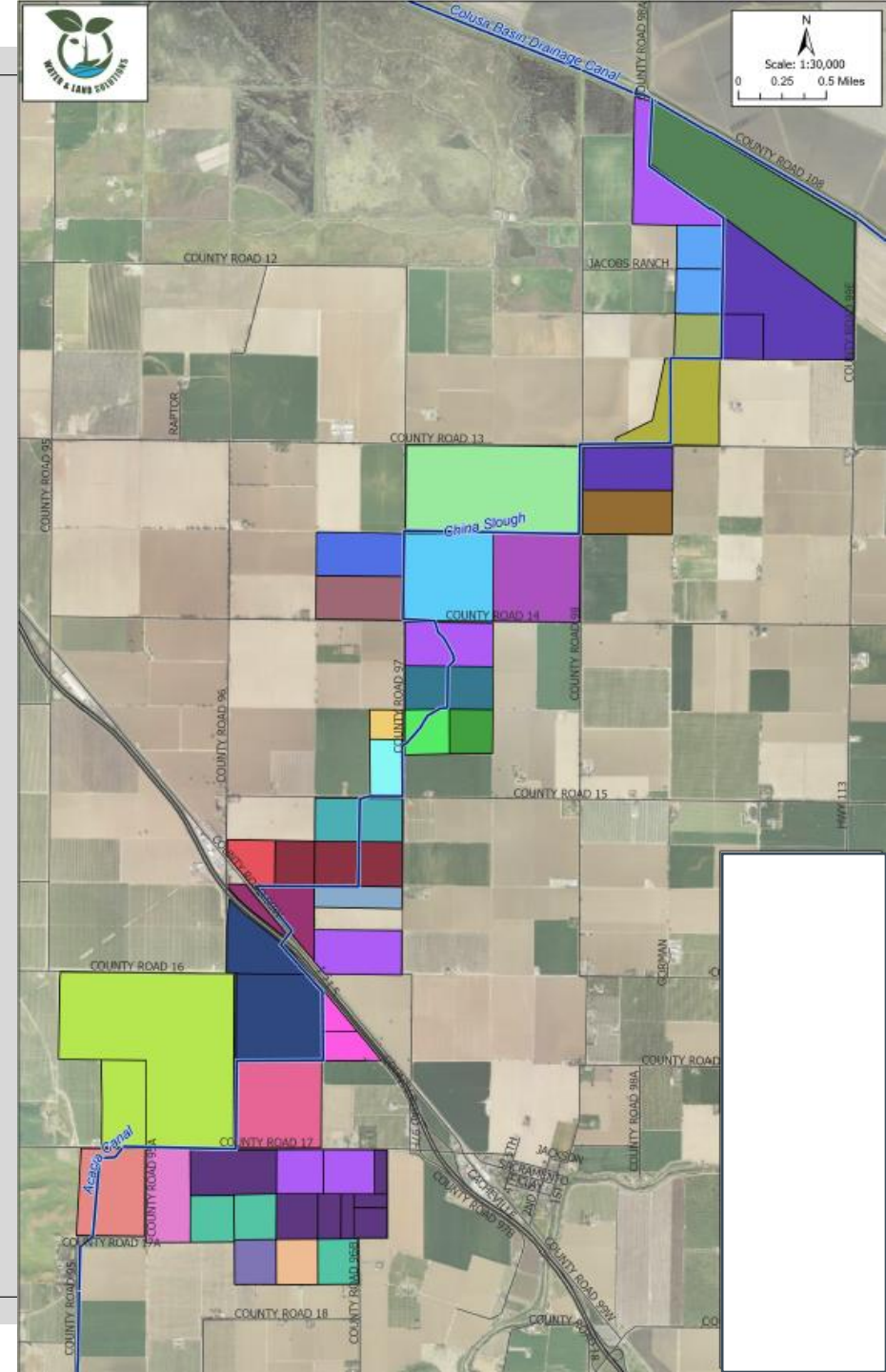
# CITY OF WINTERS FEASIBILITY STUDIES



# YOLO-ZAMORA RECHARGE PROJECT

# Yolo-Zamora Recharge Project

- **Project Objective**: Divert up to 2,000 AFY of excess Cache Creek storm flows to support on-farm and slough recharge in Yolo-Zamora area
- Consultant completing landowner interviews
- Numerous landowners interested
- Landowner workshop August 13 at YCFCWCD
- Water availability analysis expected to begin Sept./Oct.





# Yolo-Zamora Recharge Project

New culvert structure on the East Adams Canal



**BEFORE**

# Yolo-Zamora Recharge Project

New culvert structure on the East Adams Canal



**AFTER**



# DUNNIGAN AREA RECHARGE PROGRAM



June 14 Site Visit



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# Summary of DWR Comments

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Common themes include:

- ❖ Provide justification for requiring two or more management areas to exceed the minimum threshold for groundwater levels/land subsidence/interconnected surface water to define undesirable results for those sustainability criteria.
- ❖ Continue to fill data gaps and collect additional monitoring data, especially for interconnected surface water
- ❖ Utilize DWR guidance as it is released: “Considerations for Identifying and Addressing Drinking Water Well Impacts” Guidance and update GSP on progress of domestic well mitigation program



# INTERA'S Proposal to Address DWR's Recommended Corrective Actions

- Task 1: Chronic Lowering of Groundwater Levels ~\$37,000
- Task 2: Degradation of Water Quality ~ \$24,000
- Task 3: Land Subsidence ~\$35,000
- Task 4: Depletion of Interconnected Surface Water ~\$18,000
- Task 5: Monitoring Network Improvements ~\$17,000
- Task 6: Climate Change Scenarios ~\$14,000
- Task 7: Projects and Management Actions ~\$18,000
- Memoranda and Meetings ~\$112,000
  
- **Request to Enter into a Contract NTE \$275k**

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