

YSGABOARD OF DIRECTORS MEETING

September 16, 2024

1. Call to Order and Determination of Quorum

- 2. Adding Items to the Posted Agenda
- 3. Public Forum
- 4. CONSIDERATION Consent Items
- 5. Overview of California Proposition 4: Climate Bond
- 6. Update on State Water Quality Programs
- 7. Report of the Chair and Executive Officer
- 8. Update Well Permit Review Process
- 9. Update SGMA Implementation Grant Project: Hungry Hollow Area
- 10. Members' Reports and Future Agenda Items
- 11. Next Meeting November 18, 2024
- 12. Adjournment

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Consideration: Consent Items

a) Approve July 31, 2024 Board of Directors Meeting Minutes

- b) Approve Payment of Bills in Fiscal Year 2023-24 and 2024-2025 Budget
- c) Receive Fiscal Year 23/24 Financial Statements: 7/1/23 6/30/24
- d) Receive Fiscal Year 24/25 Financial Statements: 7/27/24 9/10/24
- e) Receive minutes of Executive Committee: 6/26
- f) Request to amend YCFC&WCD 23-25 Contract
- g) Approve adding the Madison CSD and NDM CSA projects to the Yolo Subbasin GSP

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Approve Payment Of Bills In Fiscal Year 2023-24 And 2024-2025 Budget

PAYMENTS:

- Consero Solutions Invoice #2051: August Services: \$4,833.75
- Downey Brand Invoice #604103: July Legal Services: \$1,660.50
- Leafbird Consulting Invoice #8: August Professional Services: \$5,846.00 (Grant Reimbursable)
- Water and Land Solutions Invoice # 4159: August 2024 Professional Services: \$20,777.68 (Grant Reimbursable)
- West Yost Invoice #2057958: March 2024 Professional Services: \$3,013.00
- West Yost Invoice #2059525: April 2024 Professional Services: \$2,942.50

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Consideration: Consent Items

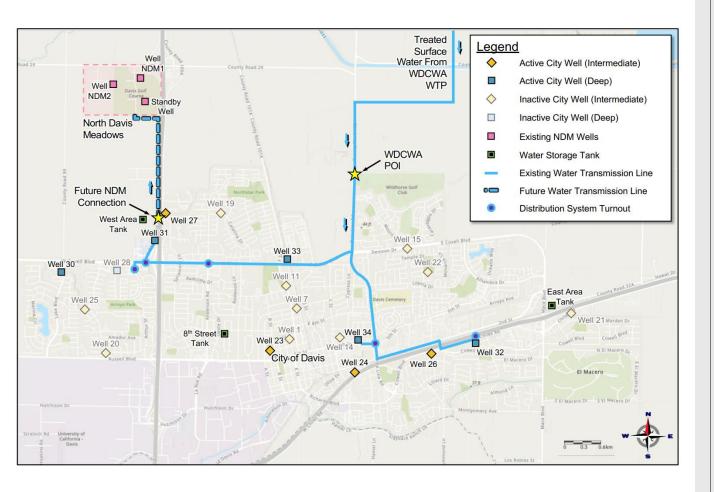
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Request to Amend YCFC&WCD 2023-25 Contract Services Agreement amendment is necessary to incorporate an increase in District staff time

- Estimates for 2024 and 2025: \$630k/year
- Grant-related projects and admin: ~\$500k/year
- 3 part-time interns

Consideration: Consent Items

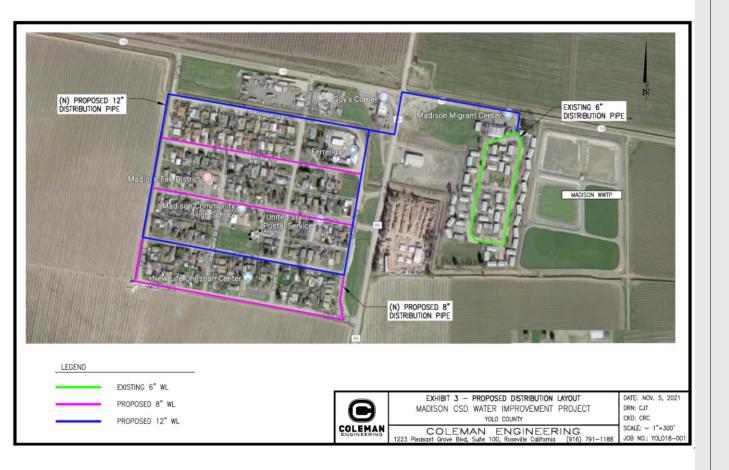
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North Davis Meadows CSA Consolidation

- NMD CSA relies on 2 wells
- Both exceed nitrate, aluminum, and iron MCLs
- Project will extend City of Davis water service to NDM CSA
- Funded by Drinking Water State Revolving Fund

https://www.yolocounty.gov/government/general -government-departments/countyadministrator/county-service-areas-csa/northdavis-meadows-csa/ndm-water-qualityinformation



Madison CSD Drinking Water System Replacement

- Replace leaking distribution pipelines, water tank and booster pump station
- Eliminate disruptions to the water supply due to pipeline breaks
- Reduce leaks and overall water waste by 20-25%
- Partially funded by DWR's Small Community
 Drought Relief Program but seeking additional funding due to increased construction costs

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Overview of CA Prop. 4: Climate Bond

Figure 1

Key Goals of Proposition 4 Bond Funds

(In Millions)

Catanami	Va. Caala	Amarınt
Category	Key Goals	Amount
Drought, Flood, and Water Supply	Increase the amount and quality of water available for people to use and reduce the risk of flooding.	\$3,800
Forest Health and Wildfire Prevention	Improve the health of forests and protect communities from wildfires.	1,500
Sea-Level Rise and Coastal Areas	Reduce the risks from sea-level rise, restore coastal areas, and protect fish.	1,200
Land Conservation and Habitat Restoration	Protect and restore natural areas.	1,200
Energy Infrastructure	Support the state's shift to more renewable sources of energy, such as offshore wind.	850
Parks	Expand, renovate, and repair local and state parks.	700
Extreme Heat	Reduce the effects of extreme heat on communities.	450
Farms and Agriculture	Help farms respond to the effects of climate change and become more sustainable.	300
Total		\$10,000

Proposition 4 - Funding for Safe Drinking Water, Drought, Flood, and Water Resilience (\$3.8B)

\$1.7025B potentially related to the Yolo Subbasin's projects

- **\$610,000,000** SWRCB projects for safe drinking water
- \$386,250,000 DWR funded projects related to groundwater storage, banking, conjunctive use, and recharge
 - \$193,125,000 Increasing groundwater storage
 - \$193,125,000 Groundwater banking, conjunctive use, recharge
 - \$25 M set aside for tribal water infrastructure
- \$386,250,000 SWRCB projects for water reuse and recycling
- **\$200,000,000** DOC Multi-benefit Land Repurposing Program for groundwater sustainability projects
- \$100,000,000 DWR funding for IRWM projects to improve climate resilience at the watershed scale
- \$20,000,000 Projects for Clearlake watershed (state entity unclear)

Groundwater Funding in Proposition 4

- Section 91012 \$386.25M
 - \$193.25M Projects that support SGMA implementation, and do one of the following:
 - Increase groundwater storage
 - Improve the management and operation of groundwater storage
 - Improve groundwater banking
 - \$193.25M Projects that support conjunctive use and groundwater recharge
- Section 91013 \$200M
 - DOC's Multibenefit Land Repurposing Program GW sustainability projects that:
 - Reduce groundwater use, repurpose irrigated agricultural land, provide wildlife habitat, improve
 drought resilience or floodwater management, or support SGMA implementation

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Update on State Water Quality Programs

- a. Central Valley Regional Water Quality Control Board's Nitrate Control Program (CV-SALTS)
 - Bruce Houdesheldt, Director of Water Quality, <u>Sacramento Valley Water</u>
 <u>Quality Coalition</u>
- b. State Water Board's Hexavalent Chromium (Chrom.-6) MCL Regulation



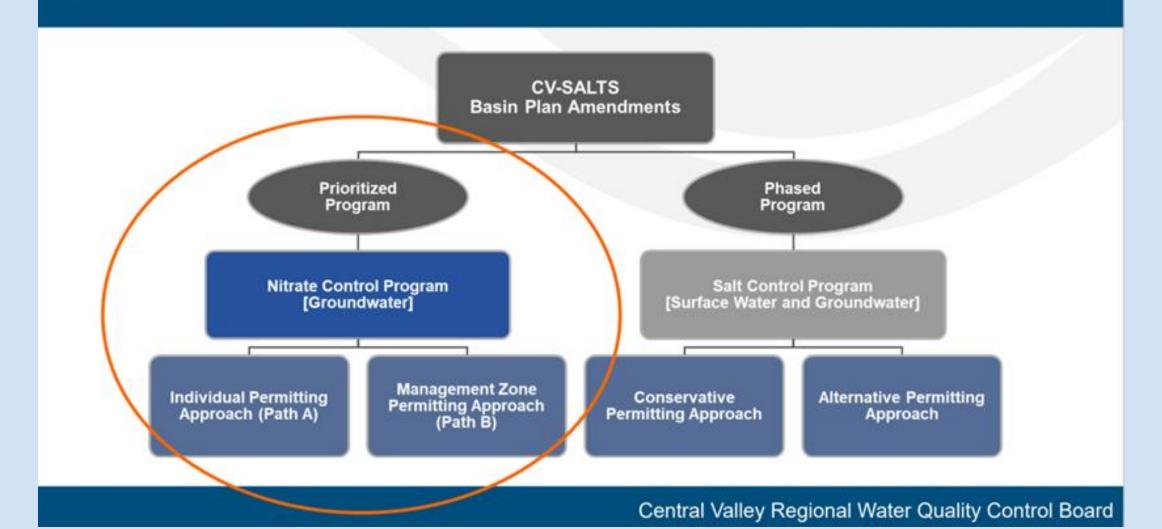
Yolo Basin Management Zone Overview Yolo GSA

September 16, 2024

Bruce Houdesheldt Director of Water Quality Northern California Water Association



Salt and Nitrate Control Program – Overview



CV-SALTS Goals



Provide safe drinking water supplies



Reduce salt and nitrate loading so that ongoing discharges neither threaten to degrade high quality waters nor cause or contribute to exceedances of water quality objectives



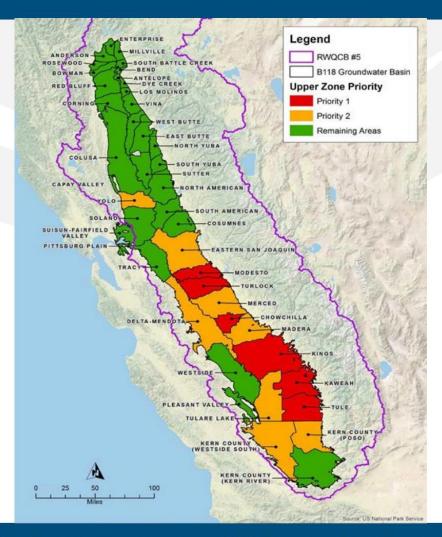
Implement long-term, managed restoration of impaired water bodies

Prioritized Nitrate Control Program

Priority 1 Area (Red)
Notice to Comply sent May 2020

Priority 2 Area (Orange)
Implementation anticipated to begin December 2023

Non-Prioritized Areas (Green)
Implementation to be phased in after priority areas



Permitting Pathways

- Pathway A Individual Permit
 - Option for permittees that have discharges that meet nitrate standards or who have resources to address localized nitrate issues on their own.
 - Compliance may be difficult and expensive if:
 - Drinking water wells near facility are high in nitrate
 - Discharge is high in nitrate
 - Local shallow groundwater exceeds 75% of nitrate drinking water standard
- Pathway B Management Zone
 - Collaborative approach for compliance. Cooperative effort among dischargers to marshal resources to address nitrate impacts
 - 35-year exception from nitrate water quality objective
 - Must ensure safe drinking water is provided

PRELIMINARY MANAGEMENT ZONE PROPOSAL

Preliminary Management
Zone Proposal (PMZP) with
Early Action Plan (EAP)

Due by March 2025

Key Elements

- ✓ Proposed Management Zone Boundary
- ✓ Identification of participating permitted dischargers
- ✓ Initial assessment of nitrate conditions in groundwater
- ✓ Potentially impacted public water supplies/domestic wells where nitrate exceeds water quality objectives
- ✓ Existing nitrate management practices of participating permitted dischargers
- ✓ Early Action Plan to assure safe drinking water in the short-term while long-term solutions developed and implemented

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EARLY ACTION PLAN: KEY ELEMENTS

- Local input on EAP development
- Input on identification of proposed solutions

Community Engagement

NonDischarger
Coordination

 Processes to ensure coordination with other local, regional and state agencies

- Well testing program
- Provide replacement water, e.g., filling stations, bottledwater, point-of-use systems

Temporary
Replacement
Drinking
Water

Schedule & Funding

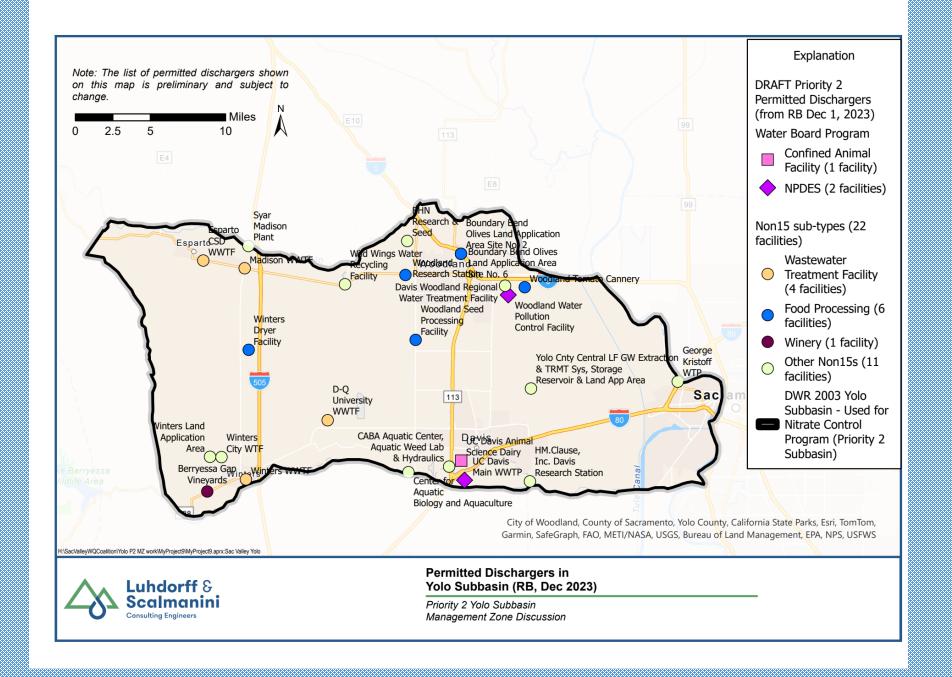
- Funding mechanisms identified
- Implementation milestones

12/9/2020

CHARACTERIZATION OF MANAGEMENT ZONE

- Lean heavily on existing documents (GSPs, etc.)
 - Geography
 - Jurisdictions
 - Groundwater Sustainability Agencies
 - Water Management Entities
 - Drinking Water Systems
 - Disadvantaged Communities
 - Land Use
- Initial Assessment of Groundwater Conditions

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INITIAL ASSESSMENT OF GROUNDWATER CONDITIONS

- Hydrogeology Source: Groundwater Sustainability Plan (GSP)
- Groundwater Elevations and Flow Directions Source: GSP, Department of Water Resources
- Upper Zone Delineation Source: Central Valley Salinity Alternatives for Longterm Sustainability (CV-SALTS)
- Nitrate Water Quality
 - Publicly available data (DWR, Division of Drinking Water (DDW), US Geological Survey (USGS), Geotracker, Groundwater Ambient Monitoring Assessment (GAMA), etc.)
 - County-specific data (well permit tests, small water systems)
 - Stakeholder input

9/17/2024

MZIP: SAFE DRINKING WATER REQUIREMENTS

Interim, Emergency Water

- Continue to implement replacement water program until permanent solutions implemented
 - Ongoing outreach to the community
 - Residential well-testing program
 - Provide replacement water where necessary

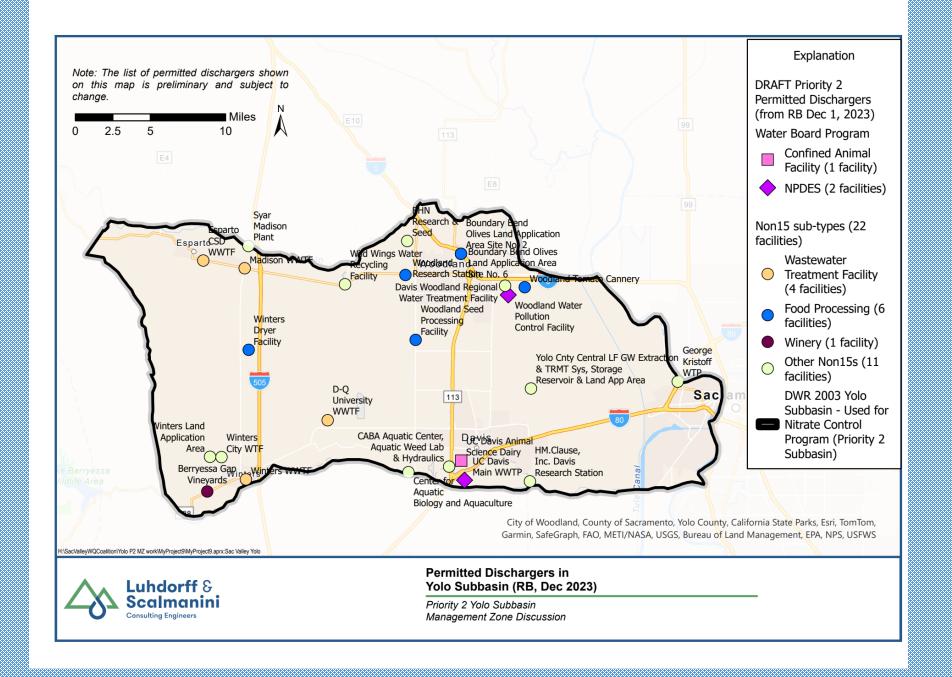
Long-term Drinking Water Solutions

- Work plan to provide permanent safe drinking water supply to those in areas adversely affected by nitrate discharge
 - Modesto and Turlock work plans may be prioritized to address most significant areas of impact first
 - Work plan will include implementation milestones

9/17/2024

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- Formation of a Management Zone for NCP-P2-Yolo Subbasin was finalized in mid-August – Budget \$205,000
- There are a total of 32 permits in the list for Yolo Subbasin:
 - i. Pathway B = 17 permits
 - ii. Pathway A = 4 permits in progress
 - iii. Exempt/RWB + Pathway A submittal is already approved = 3 permits
 - iv. No response received from outreach made as of 8/14/24 = 8 permits

- a. Sector definition/re-alignment of members as needed (tentative sectors: Irrigated Agriculture, Municipalities/Communities, Dairy/Bovine, Food Processor/Winery, Other)
- b. Formation of Advisory Committee from the NCP-P2-Yolo MZ. Two members from each sector.
- c. Nomination of Advisory Committee Chair and Co-Chair (from Advisory Committee members).
- d. Determine budget cost allocation for each industry sector
- e. Commitments for the \$50K balance remaining in the 2024 Budget
- f. Initial discussion of the 2025 Budget.
- g. Upcoming activities, Reports due and Timelines

FOR MORE INFORMATION...

- Nitrate Control Program
 - https://www.cvsalinity.org/nitrate-program/
- Valley Water Collaborative
 - www.valleywaterc.org
- Contact Parry Klassen
 - klassenparry@gmail.com
- Go to website <u>www.valleywaterc.org</u> for:
 - Sign-up to receive program updates and notifications
 - Past, present and future presentations about the Management Zones



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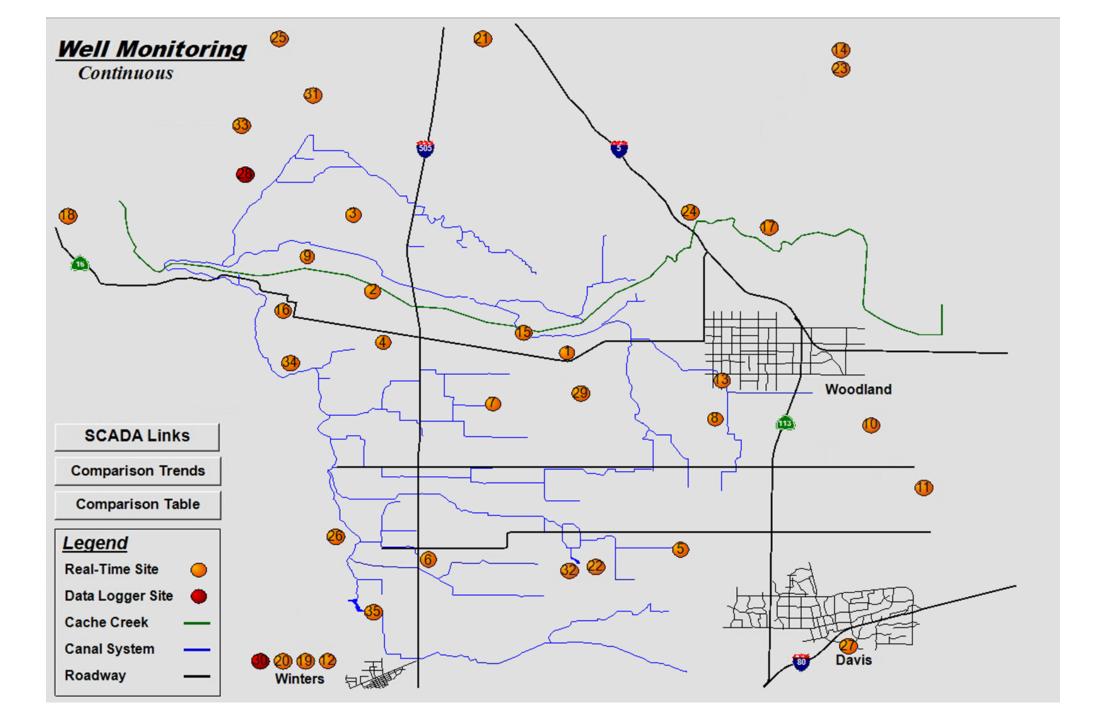
Hexavalent Chromium MCL Regulation

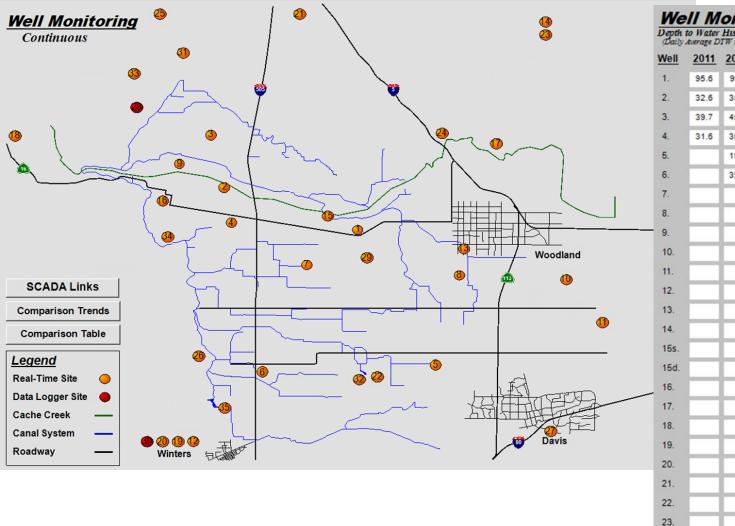
- State Water Board adopted new Chrom. 6 Regulation the rulemaking is effective as of October 1, 2024
 - \circ MCL revised from 0.050 mg/L (50 μ g/L) to 0.010 mg/L (10 μ g/L)

Hexavalent Chromium MCL Compliance Dates (from Table 64432-B in 22 CCR 64432)								
System Size (Service Connections Served on October 1, 2024)	Hexavalent Chromium MCL Compliance Date							
10,000 or greater	October 1, 2026							
1,000 to 9,999	October 1, 2027							
Fewer than 1,000	October 1, 2028							

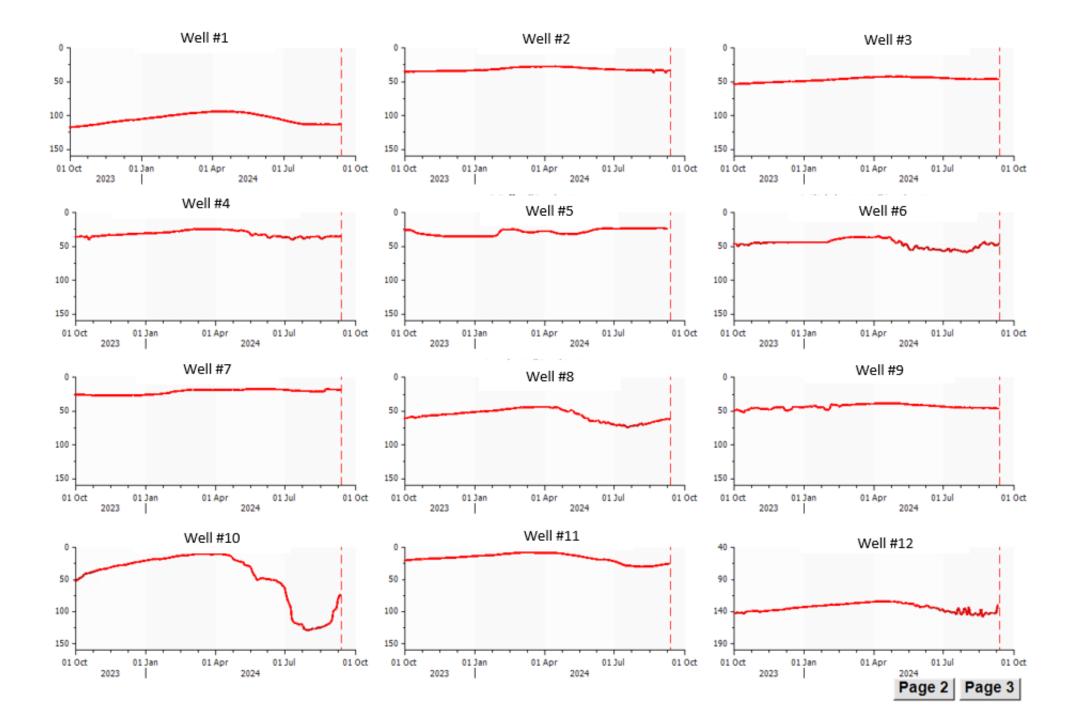
- For water purveyors exceeding Chrom. 6 MCL compliance plans are due 90 days after exceedance
- Community and Nontransient-noncommunity (NTNC) systems must complete initial sampling by 4/1/25

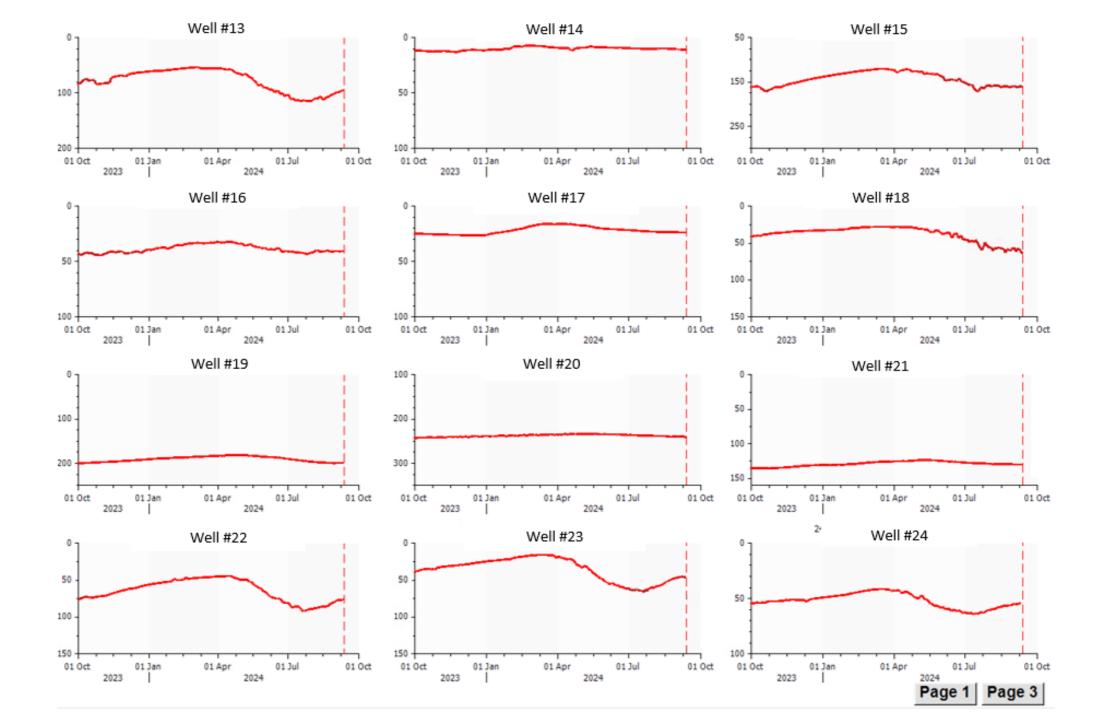
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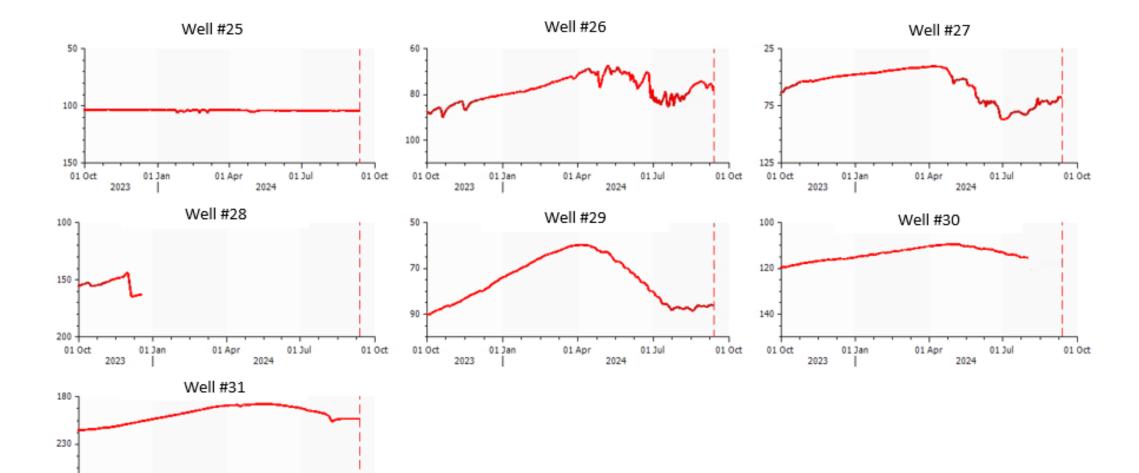




We	Well Monitoring					SCADA Links			Well	Мар	Select Date			09/12			
(Daily	to Water Average D	TW in feet)		2045	2040	2047	2040	2040	2020	2024	2022	2022	2024	Δ 2023	1	Δ 2022
Well	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	- 2024		- 2024
1.	95.6	99.1	108.0	131.1	134.7	122.7	110.5	113.3	107.3	114.3	148.7	153.5	118.6	113.2	5.4		40.3
2.	32.6	35.5	38.2	55.6	57.6	40.8	30.2	33.6	30.5	32.0	44.7	57.0	35.1	33.4	1.7		23.6
3.	39.7	45.7	52.5	83.1	77.4	61.3	40.3	44.8	38.7	43.6	73.0	88.6	54.8	46.5	8.3		42.2
4.	31.6	35.4	44.1	53.3	53.7	42.8	31.0	31.7	31.0	35.6	56.1	65.3	38.9	35.8	3.1		29.5
5.	_	19.7	21.7	34.9	35.7	35.7	23.6	25.5	18.5	23.3	35.8	43.2	27.0	25.7	1.4		17.5
6.	_	39.3	42.2	79.4	69.5	46.8	38.0	39.9	32.6	36.5	66.6	74.3	48.6	52.7	-4.1		21.6
7.	_		16.3	50.2	50.2	26.9	20.8	21.9	18.9	24.4	48.2	50.1	24.4	18.7	5.8		31.5
8.			63.6	82.6	81.6	78.4	58.5	63.1	50.7	58.2	83.8	89.2	64.4	62.1	2.3		27.1
9.	_	-	\vdash	77.3	73.1	59.1	41.4	45.3	41.5	43.5	68.0	81.0	51.4	46.4	4.9		34.6
10.	-			90.5	83.1	84.5	46.8	70.7	48.7	74.8	93.3	89.2	68.4	74.2	-5.8		14.9
11.	_			32.1	26.5	27.7	16.7	24.7	17.5	24.4	29.2	30.5	24.3	25.0	7		5.5
12.	_	$\overline{}$	-		\vdash	_	-		128.5	131.5	147.1	156.6	145.8	150.6	-4.8		6.0
13.								94.2	80.5	91.8	124.5	123.6	93.8	95.3	-1.5		28.3
14.								11.0	10.7	10.6	13.1	15.8	10.3	11.0	7		7
15s.								41.8	36.5	46.1	50.4	48.9	38.5	38.0	.5		11.0
15d.								165.6	148.3	162.7	249.2	272.1	162.9	161.7	1.2		110.5
16.								41.8	36.5	40.1	49.1	60.1	44.5	40.7	3.8		19.5
17.										24.6	33.9	37.2	24.3	23.8	.5		.5
18.										81.4	125.8	123.2	56.1	64.6	-8.6		-8.6
19.										186.3	202.0	212.0	200.5	199.1	1.4		1.4
20.													243.0	242.5	.5		
21.											138.7	142.1	135.1	129.9	5.2		5.2
22.												124.2	82.4	76.2	6.3		6.3
23.												72.6	49.2	51.8	-2.6		-2.6
24.												80.3	56.9	54.6	2.4		2.4
25.												102.5	103.5	104.1	7		
26.												128.8	92.5	79.2	13.3		
27.												86.1	71.4	68.0	3.4		
28.																	
29.													95.7	86.7	11.5		
30.													120.1				
31.													215.4	203.2	12.2		
32.														157.0			
		Test					la e	The same of							لللا		







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01 Oct

01 Jan

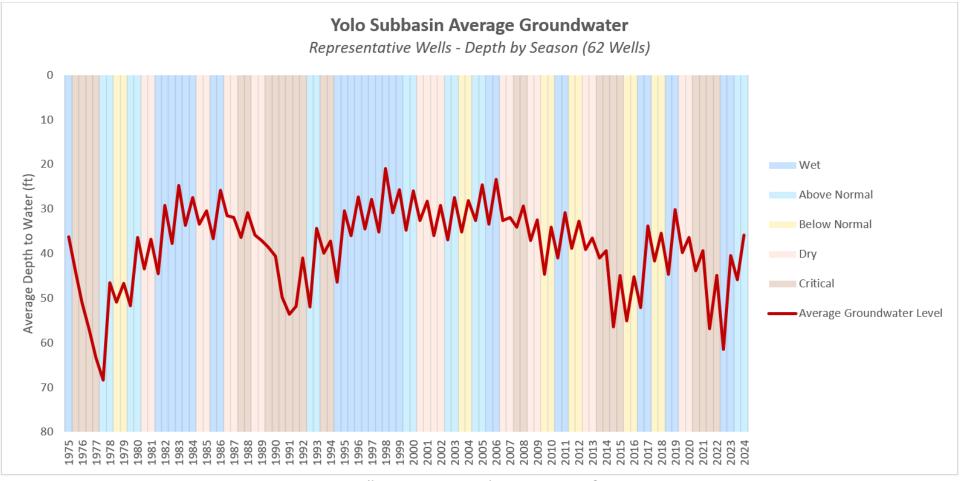
2023

01 Apr

01 Jul

01 Oct

Fall 2024 measurements are currently being collected



April 2023 Average Depth to Water \sim 40.4 feet April 2024 Average Depth to Water \sim 35.8 feet

Of Note:

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



Subsidence Best Management Practices (BMP)

- Subsidence BMP will describe activities, practices, and procedures to meet the intent of SGMA to avoid or minimize subsidence
- Public draft BMP release in Fall 2024
- 60 day public comment period
- Public meetings in early 2025

Background and Resources

https://www.usgs.gov/centers/land-subsidence-in-california

HOME

SCIENCE

DATA

MAPS

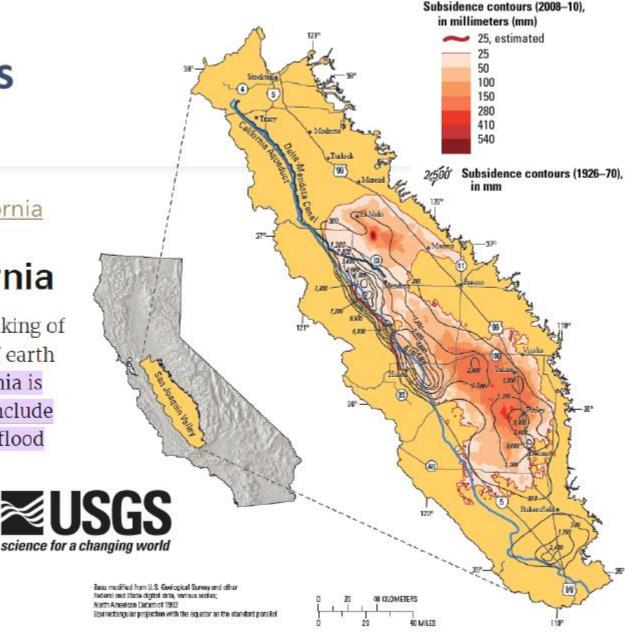
MULTIMEDIA

PUBLICATIONS

WEB TOOLS

Land Subsidence in California

Land subsidence is a gradual settling or sudden sinking of the Earth's surface due to subsurface movement of earth materials. The main cause of subsidence in California is groundwater pumping. The effects of subsidence include damage to buildings and infrastructure, increased flood risk in low-lying areas, and lasting damage to groundwater aquifers and aquatic ecosystems.



EXPLANATION

Figure 17. Land subsidence in the San Joaquin Valley, California, 1926–70 (modified from Poland and others, 1975) and 2008–10. https://pubs.usgs.gov/sir/2018/5144/sir20185144.pdf

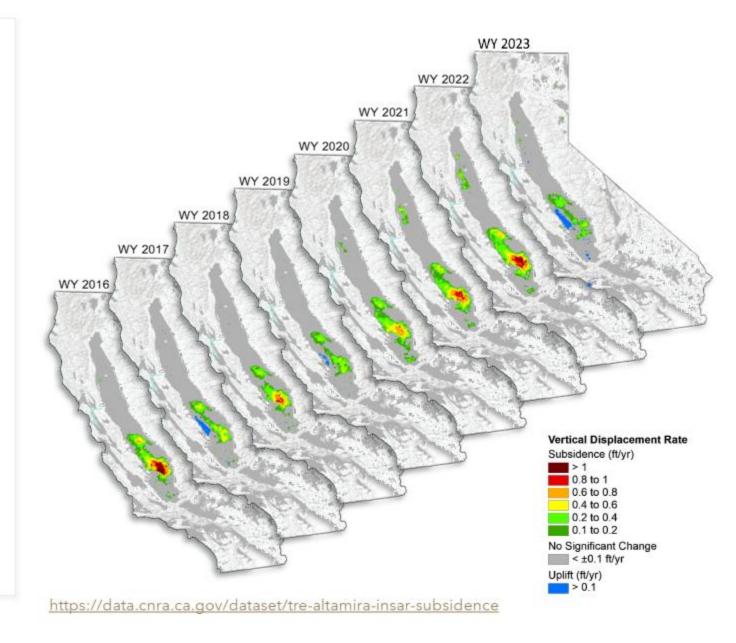
Land Subsidence from Groundwater Use in California



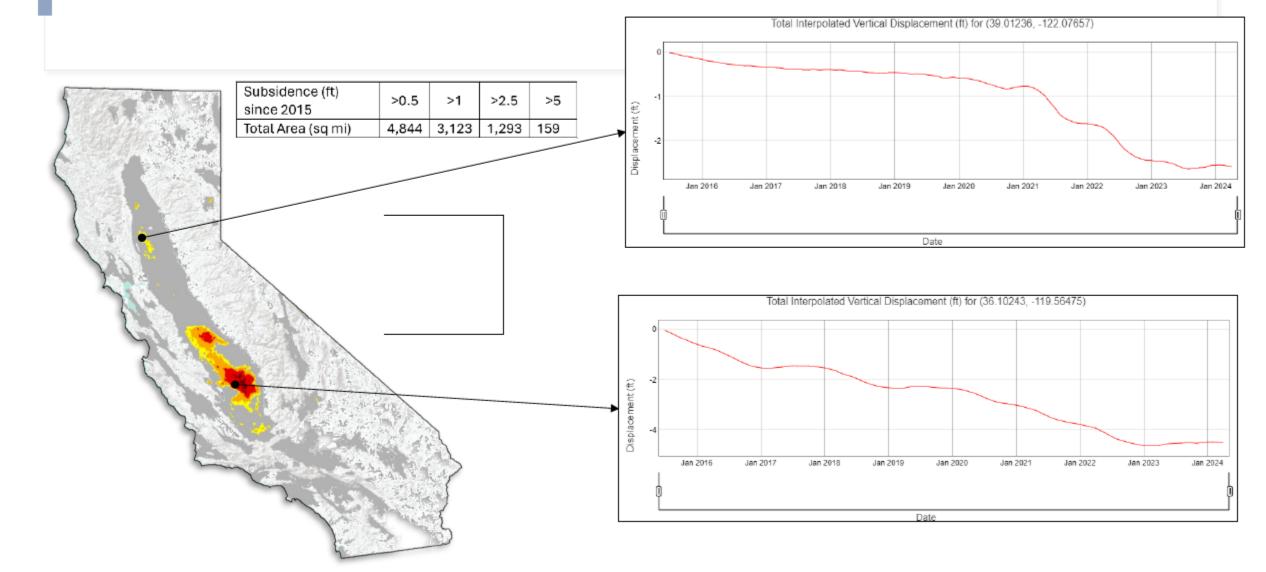
https://cawaterlibrary.net/wpcontent/uploads/2017/04/1397858208-SUBSIDENCEFULLREPORT_FINAL.pdf

Recent Subsidence Data

- Since 2015, there have been significant improvements to the state's subsidence monitoring network, most notably the processing and reporting of satellite based Interferometric Synthetic Aperture Radar (InSAR) data, which provides monthly subsidence data for more than 150 groundwater basins and covers about 40,000 mi².
- In 2022, DWR has increased the reporting frequency of monthly InSAR data from annually to quarterly to provide more upto-date information.
- In 2023, DWR started installing new continuous GPS stations



Recent Subsidence Data



Subsidence BMP

Objective:

To develop a Best Management Practice (BMP) document that describes activities, practices, and procedures to meet the intent of SGMA to avoid or minimize subsidence.

In subsiding areas:

- Reduce groundwater extractions until subsidence ceases
 - No new subsidence
 - Minimized residual subsidence
- "to significantly reduce subsidence requires some recovery of head (groundwater levels), not just a stabilization" Lees, Knight, Smith (2023)

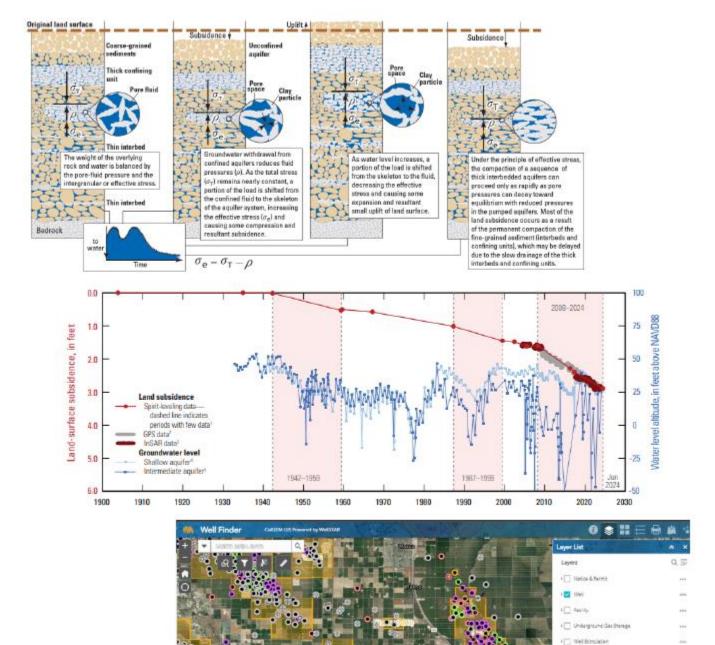
In areas that are vulnerable to pumping-induced subsidence, but have not experienced subsidence:

- Limit groundwater extractions
- Closely monitor subsidence data

BMP - Fundamentals

Including:

- Mechanics
 - Aquifer compaction due to groundwater pumping
- Historical subsidence and longterm stress history
- · Oil and gas



TROUGHT Seep Count

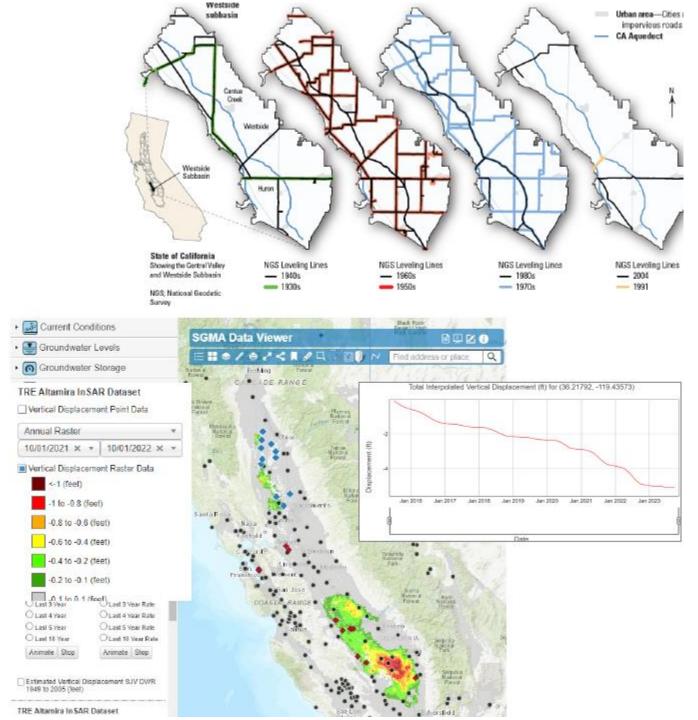
Calcolor Device

Calcolor Class See Facility

Calcolor Class See Facility

BMP - Monitoring

- · Spirit leveling
- Extensometers
- Continuous GPS stations
- Interferometric Synthetic Aperture Radar (InSAR)



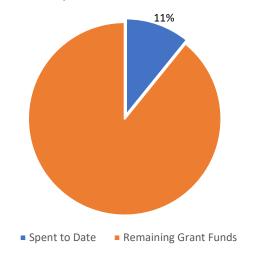
Depletions of Interconnected Surface Water

- Paper 1: Depletions of ISW: An Introduction released in February (https://water.ca.gov/Programs/Groundwater-Management/SGMA-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents)
- Papers 2 and 3: Techniques and Examples for Estimating Depletions of ISW Caused by Groundwater Use
 - End of summer comment period and webinar
- Guidance Document Winter 2024

GRANT BUDGET UPDATE

Grant Expenses through June 30, 2024

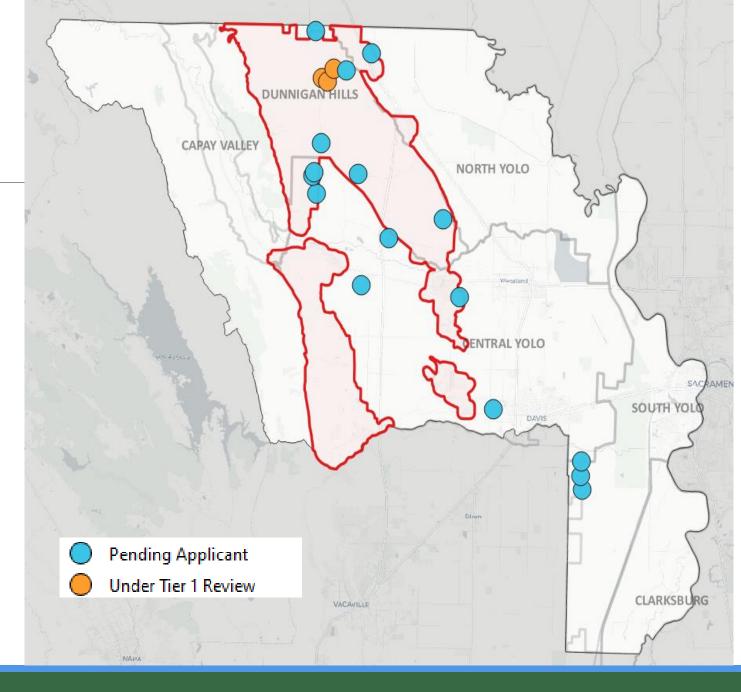
Grant Component	Total	Sp	ent to Date
Total	\$ 7,917,000	\$	857,046
1. GRANT ADMINISTRATION	\$ 613,950	\$	15,081
2. YOLO SUBBASIN GSP IMPLEMENTATION	\$ 1,721,000	\$	285,359
YSGA	\$ 460,000	\$	839
Consultant	\$ 1,261,000	\$	284,520
3. YCFCWCD WINTER RECHARGE PROGRAM	\$ 2,600,000	\$	279,882
YCFC&WCD	\$ 1,175,000	\$	250,134
Consultant	\$ 1,425,000	\$	29,749
4. CITY OF WINTERS FEASIBILITY STUDIES	\$ 580,000	\$	-
5. YOLO-ZAMORA GROUNDWATER RECHARGE PILOT PROJECT	\$ 1,221,100	\$	276,723
YCFC&WCD + YCFC&WCD Consultants	\$ 401,300	\$	218,364
YSGA	\$ 105,000	\$	-
Consultant	\$ 714,800	\$	58,359
6. DUNNIGAN AREA RECHARGE PROGRAM	\$ 1,180,950	\$	-



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Pending Well Permits

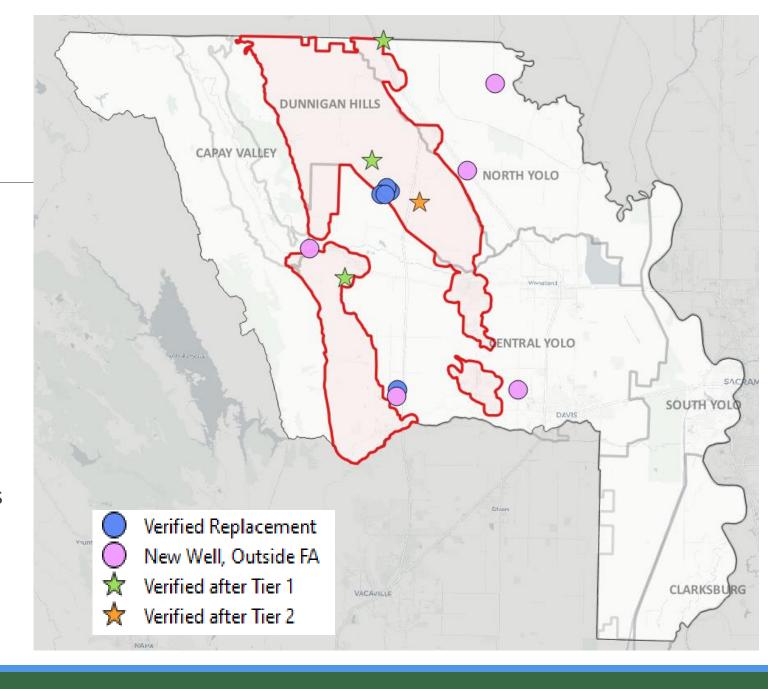
- •19 permits in the queue
 - √ 13 within the Focus Areas
 - 3 submitted Tier 1 Forms and are under review
 - 10 pending completed Tier 1 Form
 - √ 6 outside of Focus Areas
 - All pending information from applicant



Approved Well Permits

Since March 18, 2024 Procedures, YSGA has verified:

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



9/16/2024

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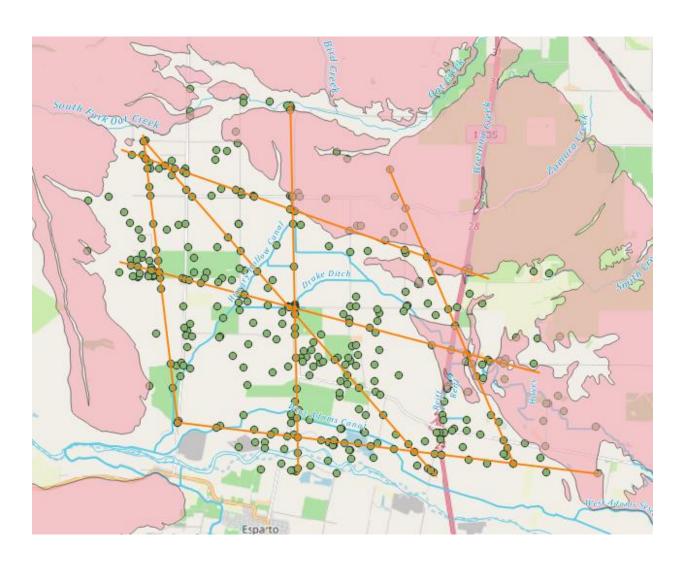
Hungry Hollow Area Map

For Community Meeting June 24, 2024



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Hungry Hollow Groundwater Working Group Update



- YSGA Staff are currently working on:
 - developing geologic/hydrogeologic cross sections
 - Updating the aquifer parameters for the model
 - identifying PMAs
 - exploring additional data collection opportunities



Background on Stakeholder Engagement

- An established group of stakeholders--Hungry Hollow Groundwater Working Group--concerned about long-term groundwater sustainability exploring collaborative ideas
- YSGA, with funding via DWR, invited facilitation for this process moving forward;
- History of conversation and interest in cooperation, yet no consistent structure or guidelines;
- Process is meant to develop a long-standing collaborative group to set agreements and pursue specific projects

Stakeholder Engagement Process

"Not everything that is faced can be changed."
But nothing can be changed until it is faced."

--James Baldwin

- Agreement on goals and workplan with YSGA
- Individual interviews with stakeholders
- Clarifying interests and positions
- Design and facilitate a series of stakeholder meetings
- Develop a "declaration of cooperation" to guide process



- Desire to cooperate
- Need for greater trust with new neighbors
- Data is essential
- Focus on solutions
- Sustainability as a goal: for groundwater, and the group

Expectations and Agreements



- Open communication, open minds
- Transparency
- Understand aquifer (without alienating neighbors)
- □ Stove for shared information
- Sustainability: ability to move water greater than being able to keep it in the ground
- Taking action
- Optimism about options
- Build trust and a greater sense of community

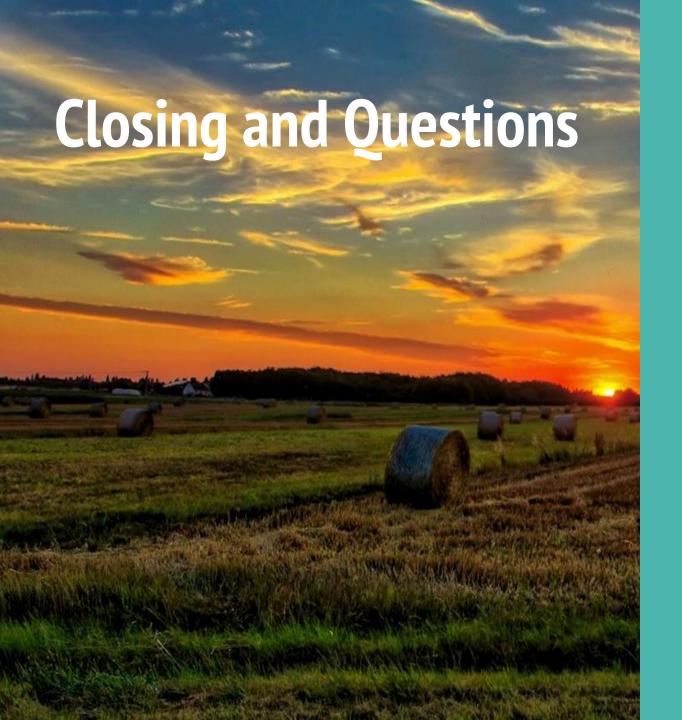
Approach and Timeline

- ❖ Scoping, Research, and Interviews (MAY → ongoing)
- Stakeholder Meeting #1 (June 24)
- Stakeholder Meeting #2 (August 19)
- Stakeholder Assessment (September 30)
- Stakeholder Meeting #3 (October 2)
- Stakeholder Meeting #4 (November TBD)
- Stakeholder Meeting #5 (December TBD)
- Declaration of Cooperation, Next Steps (December/January)

Trust Building Process

"Be hard on the problem, not the person."

- Consistent facilitated meetings, supported by individual conversations
- Clarifying values and goals
- Honesty about interests and conflicts
- Working together on projects
- Finding common ground, even in small ways
- Continue exploring options



"We would all agree that our overall goal is not having government intervention or involvement, now or in the future. That is a major incentive for us to come together, to find groundwater sustainability. In collaboration we can find solutions to keep our watershed from becoming overdrafted thus avoiding state government intervention."

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