

Cosumnes Groundwater Authority
Citizen Advisory Committee
Meeting Agenda

When: 5:30 pm – 7:30 pm, Wednesday, September 20, 2023

Where: Galt City Hall
380 Civic Drive
Galt, CA 95632

Zoom: Via Zoom: <https://us02web.zoom.us/j/81601882185>
Meeting ID: 816 0188 2185
Call in Number: 1-669-444-9171

ACCESSIBILITY - If you have a disability and require a reasonable accommodation to fully participate in this event, please contact Austin Miller (CGA Secretary) before the day of the meeting via email [info@CosumnesGroundwater.org] or telephone [916-526-5447] to discuss your accessibility needs.

The Citizen Advisory Committee (CAC) serves as an advisory role to the CGA Board of Directors to provide direct feedback on implementation of the Cosumnes Subbasin Groundwater Sustainability Plan (GSP). Members will develop a mutual understanding of and provide feedback on a variety of aspects of the GSP including, but not limited to, funding mechanisms, projects and management actions, outreach, monitoring, and more.

1. Call to Order and Introductions
2. Informational Presentation: California Water Watch
3. Update on Cosumnes Groundwater Sustainability Fee
4. November Public Workshops/Events
5. Next Committee Meeting and Report Out
6. Committee Member and Staff Comments
7. Adjourn

**Cosumnes Groundwater Authority
Citizen Advisory Committee Meeting**

Agenda Date: September 20, 2023

Agenda Item #: 2
Agenda Item Subject: California Water Watch Presentation

To: CGA Board of Directors
From: CGA Staff

Background

Chelsea Spier with the California Department of Water Resources will attend to provide an overview of the [California Water Watch](#) dashboard and other relevant webpages available to the general public.

**Cosumnes Groundwater Authority
Citizen Advisory Committee Meeting**

Agenda Date: September 20, 2023

Agenda Item #: 3

Agenda Item Subject: Groundwater Sustainability Fee Study Development Update

To: CGA Board of Directors

From: CGA Staff

Background

SCI Consulting will have a draft fee study prepared for CGA’s October Board Meeting. Below is the current draft yearly budget included in the draft fee study. At the September 12th Projects and Management Actions Committee Meeting the committee reviewed the draft budget and recommended exploring a conservation program to reach the demand reduction goals identified in the Cosumnes Subbasin GSP (example attached).

Cosumnes Groundwater Authority Draft GSP Implementation Budget

Activity	Draft Yearly Budget
CGA Administrative	
Legal	\$ 30,000
Financial Audit	\$ 15,000
Personnel	\$ 175,000
Fee Establishment	\$ -
Outreach & Engagement	\$ 30,000
Misc.	\$ 3,000
Appeals	\$ 20,000
Contingency	\$ 10,000
Annual Report	\$ 35,000
Monitoring	\$ 20,000
Data Management System (DMS)	\$ 10,000
Responding to State Comments	\$ -
Admin SubTotal	\$ 348,000

GSP Update and PMAs		
Project Management	\$	20,000
GSP Update	\$	50,000
Conservation Program	\$	252,000
ET Weather Stations	\$	135,000
GSP Update and PMAs SubTotal	\$	457,000
Grand Total	\$	805,000

Below is the current draft summary of fee revenue from all sources.

Summary – All Fee Sources

Parcel Fee - Charged to All GW-Using Parcels								
Property Type		Parcels by County		Totals Both Counties	% of Parcels	Admin Revenue	Use Fee Revenue	Total Revenue
		Sacramento	Amador					
Residential	<i>Total:</i>	4,087	169	4,256	83%			
	<i>Admin Fee</i>					\$157,472		
	<i>Residential Use Fee</i>						\$30,984	\$188,456
Commercial / Industrial	<i>Total:</i>	63	11	74	1%			
	<i>Admin Fee</i>					\$2,738		
	<i>Commercial Use Fee</i>						\$1,077	\$3,815
Agricultural	<i>Total:</i>	695	95	790	15%			
	<i>Admin Fee</i>					\$29,230		
	<i>Residential Use Fee</i>	181	26	207			\$1,507	\$30,737
Total, All GW Parcels:		4,845	275	5,120	100%	\$189,440	\$33,568	\$223,008

Public Water Systems - Extraction Rate				
Revenue Type		Rate Per AF	Average AF Extracted	Revenue
Public Water Systems		\$7.28	4,926	\$35,861

Irrigated Acreage Fee					
Revenue Type	Irrigated Acres by County		Totals Both Counties	Rate Per Irrigated Acre	Revenue
	Sacramento	Amador			
Irrigated Acreage Fee	44,414	4,137	48,551	\$11.25	\$546,199

Total Revenue, All Sources:				\$805,068
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Outstanding Data Needs:

- Parcels in the City of Galt that utilize groundwater NOT provided by Public Supply Wells
- Surface water diversions on irrigated land in Amador County
- Updated parcel data for Amador County

Fee Study Timeline – 2024 Implementation



April – September 2023:
Continued fee refinement and community engagement

Fall 2023:
Reconvene for Fee Study Board Workshop

November-February 2024:
Community Outreach

March 2024:
Draft Fee Report presented to Board

April 2024:
Final Fee Report presented to Board

Conservation Incentives Estimates

Assumptions:

- The net savings goal from Demand Management PMAs is **2,700 AFY** in Phase 1 ('22 – '27), and 6,300 AFY in Phase 2 ('27 – '42).
- Conservation incentives *could* result in 15% water savings on highest using crops (UCANR). The higher the initial application rate, the higher the savings. Therefore, conservation practices on crops already using less would cost more.
- Additional monitoring/verifications of conservation practice/demand reduction adoption costs would need to be considered as CGA does not currently have the capacity to do this.

Example: Pasture Water Conservation

- There are **10,975 acres** of irrigated pasture which applies **4.69 AFY** of water within the Subbasin.
- If we need to **net** a savings of **2,700 AFY** we should expect to need to save a gross of **3,600 AFY**.
- 1 acre of pasture with conservation could save **.7 AFY** (with an assumed 15% deduction in water use).
- To save 3,600 AFY, **5,117 acres of pasture** (this represents ~46% of total pastureland) would need to implement the 15% dedication in water use.
- Farmers of pastureland could be offered a **~\$50/acre** or **~\$75/AF** incentive within the draft budget.

Draft Budget

Yearly Costs

Activity	Cost
Incentives	\$268,000
Administrative	\$20,000
Weather stations	\$150,000
Total Yearly Costs	~\$445,000

~\$165/AFY = Demand
Reduction Cost

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- For comparison, estimated cost for delivering Harvest Water at full operation is +/- \$500/AF.
- Consistent with EKI's estimated \$500/AF to obtain surface water (CWG, 7/20)

Still Need to Determine:

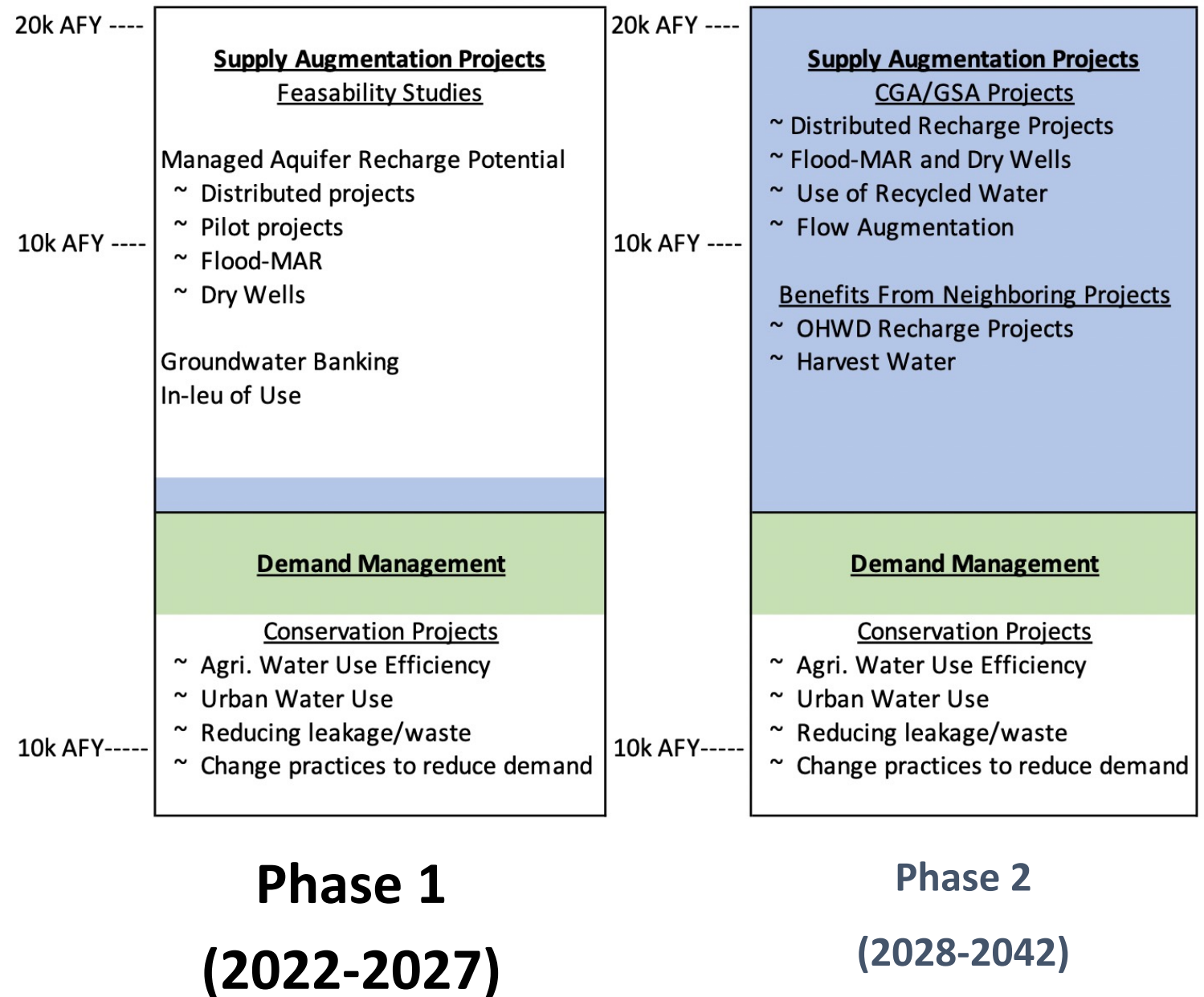
- Which properties and crop types would be eligible for this incentive?
- How do we effectively monitor if conservation is happening?
- What types of conservation would be eligible (irrigation type, deficit irrigation, rotational fallowing)?
- What length of time would these agreements be good for?

BACK UP SLIDES

Cosumnes Subbasin Projects

- While it is the GSP's priority to rely on supply augmentation projects, significant planning is required before significant benefits will be seen.
- “PMA implementation will be conducted on parallel tracks.”
- Color bars indicated estimated gross benefits from projects during each phase.

*Draft slides, subject to change



Groundwater Storage Benefit Targets

Phase 1 (2022-2027)

- Supply Augmentation:
 - 0 AFY net (studies/pilot) recharge

Phase 2 (2028-2042)

- Supply Augmentation:
 - ~10,000 AFY net recharge

Phase 1 (2022-2027)

- Demand Reduction:
 - *2,700 AFY net reduct.*

Phase 2 (2028-2042)

- Demand Reduction:
 - *6,300 AFY net reduct.*

“Tiered Approach” - Applied Water Estimates

Estimated Evapotranspiration and Applied Water of Crops in the Cosumnes Subbasin, CoSANA Model compared to values derived from ITRC (Cal Poly State University San Luis Obispo Irrigation Training and Research Center)						
Preliminary Crop Grouping	Acres	Percent of Total	ET (AF/ac)		Applied Water (AF/ac)	
			CoSANA	ITRC	CoSANA	ITRC
Vineyards	18,091	36%	2.53	2.74	-	2.47
Pasture	10,975	22%	4.15	3.77	-	4.69
Grain and Hay	8,388	17%	1.58	1.57	-	1.59
Corn, Sorghum or Sudan	4,243	8%	2.48	2.38	-	2.35
Alfalfa and alfalfa mixtures	3,776	7%	3.97	3.72	-	4.63
Almonds	1,648	3%	3.8	3.28	-	3.16
Young Perennial	1,314	3%	3.8	3.1	-	2.98
Walnuts	1,203	2%	3.8	3.1	-	2.99
Other Deciduous	510	1%	3.8	3.1	-	2.99
Misc. Truck and Field Crops	377	1%	n/a	2.13	-	2.13

≤ 2.5 AF/AC	= Tier 1
> 2.5 AF/AC	= Tier 2

**Cosumnes Groundwater Authority
Citizen Advisory Committee Meeting**

Agenda Date: September 20, 2023

Agenda Item : #4 – November Public Events

To: O&E Committee

From: CGA Staff

Workshops

Staff are preparing to hold another round of workshops in November. In addition to inviting a variety of partner organizations (GSAs, other local agencies, etc.), CGA would prepare information on groundwater conditions and project status, like our February/March events.

We would love to have CAC members assist at the event!

Dates

- Evening, Wednesday, November 1, 2023 from 5:30 – 7:30pm – Herald Fire Hall
- Morning, Saturday, November 4, 2023 from 10am - 12pm – Wilton Community Center

The O & E Committee discussed/brainstormed possible poster ideas and topics:

1. Funding - broken down financials, fee structure, how the money is being used, the fees, etc. (almost like a non-profit pie chart breakdown)
2. Upcoming/current projects and/or recent activities such as the helicopter ride and what it showed/uncovered
3. Ideas for the future - things we want to do or haven't been able to yet and why - what is needed and why
4. Water knowledge - information about the basin, the Cosumnes river, pipeline, wells, bring it back to the basics and keep it simple, etc.
5. Cosumnes 101 History of the Groundwater Authority as well as the subbasin
6. Update on well levels - after monitoring - can we get this information in time for the workshop?
7. Comparing where we are now to where we were in the basin - show the changes via pictures and statistics. Does EKI have this information?
8. Resources - where people can go for more information, assistance, maps with GPS coordinates
9. Water Quality - drinking water, having your well tested once a year, domestic well user 101
10. What the water issues mean for local flora/fauna - the fish and water levels and how it affects local communities.

BBQ Luncheon

Date: Thursday, November 9, 2023 from 12 – 2pm

Where: Herald Fire Hall

What: The Luncheon will provide a space for local farmers/ranchers to come and meet staff and partners, ask questions, fill out the farmer's survey and learn more about CGA. As an incentive for attending, we will be providing food and soft drinks and hope to put together some raffle prizes for folks to win once they complete the farmer's survey.

Recommendations

- Brainstorm questions to engage workshop attendees in relevant conversations about local groundwater conditions and what CGA is up to.