Cosumnes Groundwater Authority Meeting of the Board of Directors Agenda

When: 9:00 am – 12:00 pm, Monday, October 17, 2022

Where: Galt Police Department Community Room

455 Industrial Drive Galt, CA 95632

Zoom: Via Zoom: https://us02web.zoom.us/j/85927144584

Meeting ID: 859 2714 4584 Call in Number: 1-669-900-9128

PUBLIC COMMENT – Any member of the public may address the Board concerning any matter on the agenda before or during its consideration of the matter. Public comment is limited to three (3) minutes per person. For good cause, the Board Chair may waive these limitations.

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.

Call to Order

- 1. Introductions
 - a. Determine if Quorum is Present
 - b. Agenda Overview
 - c. Three-month look ahead
- 2. Public Comment on Non-Agenda Items Limit of 3 minutes per speaker. Comment will be received for items not on the agenda, but within the jurisdiction of the agency. The Board will hear comment but may not take action on issues raised on non-agenda items.

Action Items

- 3. Consent Items (5 minutes)
 - a. Minutes September 19, 2022
 - b. Consideration of Findings Related to Remote Meetings Pursuant to AB 361
 - c. Financial Report October 2022
- 4. Delta Conveyance Project Draft Environmental Impact Report Public Comment (15 minutes)
- 5. DWR SGMA Implementation Grant (45 minutes)
 - a. Grant Writing Services
 - b. PMA Committee Report Back

- c. DWR SGMA Implementation Grant Application Recommendations
- d. Application Development Next Steps
- 6. Water Year 2022 Annual Report Preparation (15 minutes)
- 7. Outreach and Engagement Update (10 minutes)

<u>Informational Items</u> (15 minutes)

- 8. CGA Staff Report
- 9. DWR North Central Regional Office Update
- 10. Upcoming Agenda Items
- 11. Director/GSA Comments

Adjourn Meeting

Meeting Minutes September 19, 2022 - 9:00am

Call to Order: 9:05 am

- 1) Introductions / Determine if Quorum is Present
 - a. Directors in Attendance: Rick Wohle, Mark Stretars, Chris Hunley, Herb Garms, Gary Thomas, Jay Vandenburg, Leo VanWarmerdam

Action Items

- 2) Consent Items
 - a. Agenda September 19, 2022
 - b. Minutes August 15, 2022
 - c. Consideration of Findings Related to Remote Meetings Pursuant to AB 361
 - d. Financial Report September 2022

Director Thomas moved to approve all consent items.

Director Wohle seconded the motion.

The motion passed with all in favor (Hunley absent).

3) Preparation for Grant Writing

Director Wohle moves to have staff prepare agreements with EKI and SAFCA to map out CGA's approach to preparing a DWR SGMA implementation grant and that EKI should bring recommendations to the Board, that the Board would then work with SAFCA/grant writer to develop the application.

Director Thomas seconded the motion.

The motion passed with all in favor.

4) Projects and Management Actions Update

Staff led a presentation on CGA's approach to projects and the PMA Committee Charge. All present members of the Board affirmed their understanding to the approach.

5) Outreach and Engagement

Staff provided an update on outreach and engagement efforts

Information Items

6) Long Term Funding

Discussed upcoming SCI meeting on funding

7) CGA Staff Report

CGA Staff provided an update on Delta Conveyance Project as well as a Watershed Coordinator's Report

- 8) DWR North Central Regional Office Update
 - DWR Staff provided a monthly update on DWR activities
- 9) Upcoming Agenda Items
- 10) Director Comments

Adjourn Meeting

Vice Char Stretars adjourned the meeting by consensus at 12:03pm

Cosumnes Groundwater Authority

Financial Report

September 2022

<u>Expenses</u>							
Description		Vendor	Amount				
Staff Support (SRCD, September)		Sloughhouse RCD	\$ 6,400.00				
Staff Support (SSCAWA, September)		SSCAWA	\$ 6,380.00				
Legal Services (August)		Downey Brand	\$ 4,628.00				
Monitoring Professional Services (Septe	mber)	MLJ Environmental	\$ 1,516.25				
	Total	Monthly Expenses	\$ 18,924.25				

<u>Revenue</u>						
Description	Description Source					
	Total	Monthly Revenue	\$ -			
	Total	THOMES TO THE TOTAL	Υ			

Monthly Change

\$

(18,924.25)

Agenda Date: October 17th, 2022

Agenda Item #: 4

Agenda Item Subject: Delta Conveyance Project Draft Environmental Impact Report

To: CGA Board of Directors

From: CGA Staff

Background

Links: Delta Conveyance Project Website

- DWR has extended the deadline for accepting written comments through December 16, 2022.
- Chapter 8 describes the environmental setting and study area for groundwater; analyzes impacts that could result from construction, operation, and maintenance of the project; and provides mitigation to reduce the effects of impacts. This chapter also analyzes the impacts on groundwater resources that could result from implementation of compensatory mitigation required for the project and analyzes the impacts that could result from the mitigation measures proposed in other resource chapters in the Draft Environmental Impact Report.
- On August 11, 2022, the Delta Counties Coalition released a response to the Governor's newly release <u>Water Supply Strategy</u> and the Delta Conveyance Project. <u>Read response</u> here.

Staff Recommendation

• Provide direction on drafting a comment letter for the Delta Conveyance Project Draft Environmental Impact Report.

Agenda Date: October 17th, 2022

Agenda Item #: 5

Agenda Item Subject: DWR SGMA Implementation Grant

To: CGA Board of Directors

From: CGA Staff

Background

Links: <u>DWR SGM Grant Program Website</u> | <u>DWR SGM Grant Scoring Criteria</u>

• \$200 million for high and medium priority subbasins

• Deadline: November 30, 2022

Grant Writing Services

At the September CGA Board Meeting, the Board directed Staff to prepare agreements with EKI and SAFCA to map out CGA's approach to preparing a DWR SGMA Implementation Grant and that EKI should bring recommendations to the Board and then the Board would work with SAFCA/the grant writer to develop the application.

EKI has prepared an additional Scope of Work for Grant Development for the Board's consideration. This is included in the next agenda item (annual report).

Additionally, CGA Staff developed a MOA between CGA and the Sacramento Area Flood Control Agency (SAFCA), for Board consideration, to clearly articulate the roles and responsibilities of each organization during grant development and submission.

PMA Report Back and Draft Grant Recommendations

On October 11th, the PMA Committee met to discuss the PMA and Data Gap Descriptions drafted by CGA Staff and the newly released DWR SGM Grant solicitation. The Committee also discussed draft recommendations from EKI and provided direct feedback that has been incorporated into the materials presented here (attached).

Application Development Next Steps:

CGA is moving quickly over the next few months to ensure we complete an application by the November 30th deadline. The following schedule has been developed to allow sufficient timing for interim milestones to be met:

- October 25th: Joint PMA Committee and Citizen Advisory Committee Meeting
 - o Review/Finalize DWR Grant Recommendations
 - o Additional meetings in early November may be considered

- November 21st: CGA Board Meeting
 - o Finalize DWR Grant Application
- November 29th: Application Submittal to DWR

Attachments

- MOA for Grant Writing Services, SAFCA
- Draft PMA and Data Gaps Descriptions
- Draft Recommendations for DWR SGM Grant, EKI Presentation

Staff Recommendation

• Provide direction on grant writing approach.

Agreement No.	
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Memorandum of Agreement Between

The Cosumnes Groundwater Authority and the Sacramento Area Flood Control Agency
For

Grant Preparation Services Related to the California Department of Water Resources' Sustainable Groundwater Management Grant Program for Implementation of Adopted Groundwater Sustainability Plans

This Memorandum of Agreen	nent ("MOA") between the Cosumnes Groundwater Authority
("CGA") and the Sacramento	Area Flood Control Agency ("SAFCA") (collectively, "Parties")
shall be effective as of	, 2022.

RECITALS

WHEREAS, CGA is a joint powers agency created by the seven Groundwater Sustainability Agencies with authority and responsibility under the California Sustainable Groundwater Management Act of 2014 (SGMA) for sustainably managing groundwater use in the Cosumnes Subbasin; and

WHEREAS, SAFCA is a joint powers agency created under the SAFCA Joint Exercise of Powers Agreement dated January 17, 1991 and the Sacramento Area Flood Control Agency Act, California Water Code Appendix Sections 130 et seq.; and

WHEREAS, SAFCA is exploring opportunities to re-operate reservoirs in the American River watershed to provide more space for flood control in the most severe flood events; and

WHEREAS, SAFCA believes that its ability to secure state funding for such reservoir reoperation will be greatly enhanced if this effort produces multiple benefits beyond flood risk reduction including the benefit of making water stored in Folsom Reservoir available under appropriate circumstances for increasing groundwater recharge in the South American and Cosumnes Basins; and

WHEREAS, CGA has adopted and is planning to implement a Groundwater Sustainability Plan (GSP) for the Cosumnes Subbasin that anticipates the benefits of the increased groundwater recharge; and

WHEREAS, the Parties recognize that numerous technical and institutional barriers must be overcome in order to link SAFCA's reservoir reoperation program to CGA's groundwater recharge effort; and

WHEREAS, the Parties further recognize that the California Department of Water Resources (DWR) Sustainable Groundwater Management Grant Program for implementation of

adopted GSP's ("Implementation Grant Program") could provide funding to address a number of these barriers; and

WHEREAS, the Parties desire to collaborate in preparing a request to receive Implementation Grant Program funding for activities that would facilitate implementation of the Cosumnes Basin GSP.

NOW, THEREFORE the Parties agree as follows:

AGREEMENT

- 1. <u>Grant Preparation</u>. CGA agrees to serve as the grant applicant. Toward that end, SAFCA agrees to provide CGA with the grant writing services of Mick Klasson, a planning and grant writing consultant who has provided services to SAFCA for more than 20 years and has been successful in securing several million dollars in grants to support SAFCA's flood risk reduction and related activities. At SAFCA's expense, which the Parties anticipate will not exceed \$20,000, Mr. Klasson will prepare the GSP Implementation grant as directed by CGA staff and in accordance with the Implementation Grant Program guidelines adopted by DWR.
- 2. <u>Technical Support</u>. CGA agrees to provide the technical support needed for Mr. Klasson to prepare the grant request. This support will consist of technical material, project descriptions, maps, data, institutional commitments, and other information relevant to the grant request gathered by CGA staff and consultants retained by CGA focusing on CGA's priorities for grant funding to be determined to facilitate GSP implementation.
- 3. <u>Timing</u>. The DWR SGM Grant Program solicitation is now open through November 30, 2022. If the supporting technical information is available, Mr. Klasson believes the grant can be written within the current grant program timeline. Institutional commitments to the extent they are required will be obtained by CGA well in advance of the grant request deadline. Mr. Klasson has provided Attachment 1, Draft DWR Grant Preparation Schedule for CGA.
- 4. <u>Notice</u>. Any notice pertaining to the performance of this MOA should be delivered by mail or e-mail to the following individuals:

For SAFCA:

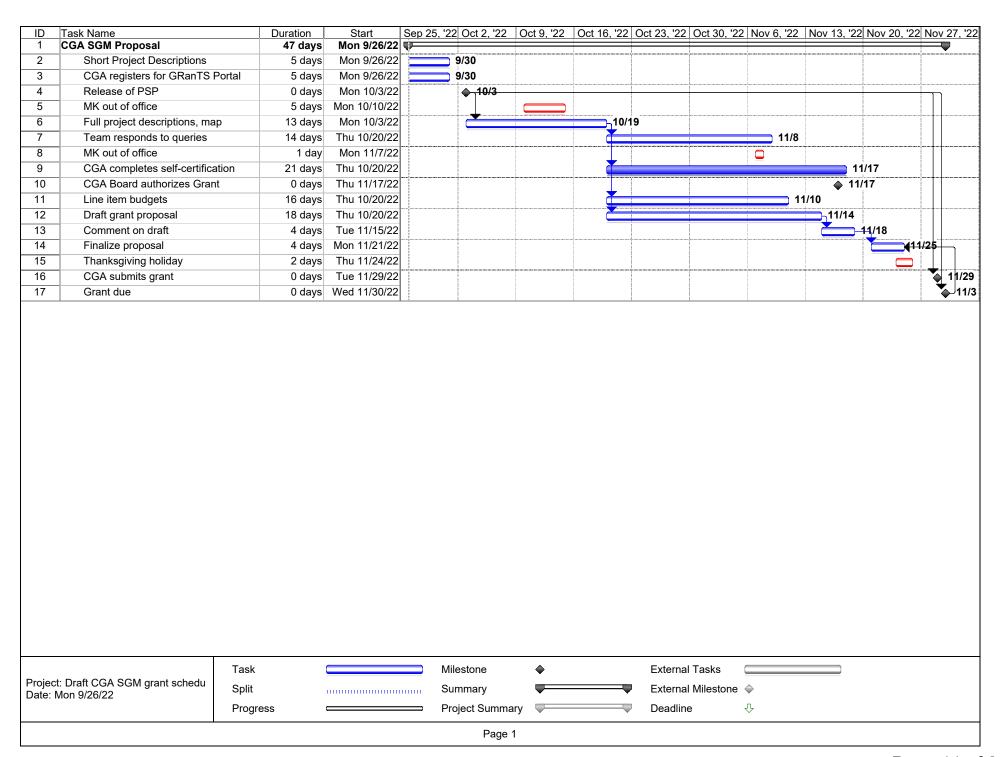
Gary Bardini, Director of Planning Sacramento Area Flood Control Agency 1325 J Street, 15th Floor Sacramento, CA 95814 BardiniG@saccounty.net

For CGA:

Austin Miller, Administrator Cosumnes Groundwater Authority 8970 Elk Grove Blvd. Elk Grove, CA 95624 5. <u>Termination</u>. Either Party may terminate this MOA at any time by providing notice to the other Party of the decision to terminate and the cause therefor. Otherwise, this MOA will terminate upon submittal of the DWR SGM Grant Program request to DWR.

IN WITNESS WHEREOF, the Parties hereto enter into this MOA as of the date first set forth above.

Cosumnes Groundwater Authority	Sacramento Area Flood Control Agency
By:Austin Miller, Administrator	By: Richard M. Johnson, Executive Director
Date:	Date:
APPROVED AS TO FORM:	APPROVED AS TO FORM:
By:Rebecca Smith, CGA Counsel	By: Jeremy Goldberg, Agency Counsel



Activity Name	Reference in GSP	Description	Benefit	Response to Comment	Estimated Cost	Implementing Agency	DWR Grant Priority
Riparian Cooridor (GID, Clay) MAR Analysis	18.2.4 Other PMAs	Explore multi-benefit opportunities for diversions to interior Basin drainages to increase recharge from leakage and reconnect their lower reaches in the floodplains	Aquifer Storage Capacity; interconnected surface waters; GDE	Farm Bureau		CGA	High
Folsom South Canal Service Area MAR Analysis	PMA #2 Flood-MAR	Explore the ability to use FSC as conveyance for MAR practices. Form partnerships and coordinate with stakeholders to form a mutually benefical approach to utilize FSC. Implore learned recharge operations from other pilot projects to inform MAR along FSC.				CGA	High
SMUD Partnership to Explore Recharge Potential	PMA #2 Flood-MAR, 18.2.4 Other PMAs	Evaluate the efficay of securing water for recharge projects from existing SMUD water rights. Implore learned recharge operations from other pilot projects to inform MAR along FSC.	Aquifer Storage Capacity			CGA	High
Distributive Recharge Projects	18.2.4 Other PMAs	Evaluate the efficacy of local recharge projects such as catch ponds, dry wells, seepage pits, and other water substitution practices.		Farm Bureau		CGA	High
Laguna Del Sol Rechrage Pilot Project	PMA #2 Flood-MAR, 18.2.4 t Other PMAs	Expand the existing dry well pilot project by testing and evaluating various dry well design performance. Explore and calibrate non-intrusive geophysical technologies by comparing to bore holes. Use information gathered from this pilot project to expand dry well operations to other locations, particulary along the FSC and other conveyance features.	Aquifer Storage Capacity; interconnected surface waters; GDE			OHWD	High
Exploring Amador Water Recharge/In lieu Potential	18.2.4 Other PMAs	Explore projects that utilize potentially available surface water from Amador County and existing infrastructure.	Aquifer Storage Capacity; interconnected surface waters; GDE			ACGMA	High
Cosumnes River Riparian Cooridor MAR Analysis	18.2.4 Other PMAs	Explore multi-benefit opportunities for off stream impoundments to store floodwater, including potential stormwater diversions from the Cosumnes River to augment storage/recharge on the south side of the river. Coordinate with Agency and NGO partners working with landowners near the Cosumnes River to develop multibenefit projects that offer recharge and agricultural and/or habitat preservation benefits.	Aquifer Storage Capacity; interconnected surface waters; GDE			CGA	Low
Exploration of Supply Augmentation	18.2.4 Other PMAs	Additional capacity to explore the feasability of supply augmentation projects.	Aquifer Storage Capacity	Farm Bureau, ESJ			High

Activity Name	Reference in GSP	Focus Area	Description	Benefit Improve the future	Response to Comment	Estimated Cost Implementing Agency	Timing	Priori
			Inventory projects to verify well use, status,	reliability of the water				
anduct Well Census	19.1.2 Data Gap Filling Efforts	Model	construction, and density within the Basin.	budget.		CGA		High
muuct wen census	17.1.2 Data Gap I ming Eriorts	Wiodei	Develop system to inventory surface water	buuget.		CUA		High
ırface Water			diversions and return flows to support surface	Improve the future				
versions			water budget calculations and quantify surface	reliability of the water				
	19.1.2 Data Gap Filling Efforts	Model	water depletions.	budget.		CGA		High
ventory	19.1.2 Data Gap Filling Errorts	Wiodei	Delineation of Managed Wetlands as a	buuget.		CUA		High
			refinement of the current land use categories of					
elineation of			"Native Water" and the Riparian component of					
	19.1.2 Data Gap Filling Efforts	Model GDEs	"Native Vegetation."			CGA		Mediu
anaged wettands	19.1.2 Data Gap I lilling Eriorts	Wiodei, GDEs	Native Vegetation.	Improve the future		CUA		Wicdia
			Routine/annual field- verification and updating	reliability of the water				
and Usa Varification	19.1.2 Data Gap Filling Efforts	Model	of mapped land use utilized by the model.	budget.		CGA		High
nd Ose vermeation	19.1.2 Data Gap Filling Errorts	Wiodei	Compile available well construction information	budget.		CGA		High
			to update incomplete information for wells in					
			the DMS. The RMW network wells are a					
ompile Well			priority, and efforts can include video logging to					
onstruction	10.1.2 Dete Cer. E''' ECC.	M-4-1	identify well perforation intervals where			CCA		771. 1
formation	19.1.2 Data Gap Filling Efforts	Model	information is not available.			CGA		High
			Expand paired multiple depth well monitoring					
			sites across Basin boundaries to improve					
			characterization of interconnected surface					
			water, conditions that influence					
			domestic/shallow wells conditions specifically					
pand Monitoring			in DAC, that influence GDEs, and cross-					
es (Basin Plain)	19.1.2 Data Gap Filling Efforts	DACs, GDEs, Domestic/Shallo			TNC, Espinosa, Flewellyn,	CGA		High
			Assess the hydraulic connection between the					
			Principal Aquifer and potential perched					
			aquifers. This can be accomplished with					
			aquifer pumping test(s) when possible,					
			requiring multiple monitoring well depths, and					
nalysis of Potential			monitoring water level changes over short time					
erched Aquifers	19.1.2 Data Gap Filling Efforts	GDEs, Model	periods in paired monitoring wells.		TNC, NOAA, CDFW	CGA		Mediu
			Add monitoring sites in Amador County to					
xpand Monitoring			address spatial variability and uncertainty in					
tes (Basin			water table conditions in the Basin Foothills					
othills)	19.1.2 Data Gap Filling Efforts	Model	Subarea.			ACGMA		Mediu
			Coordinate additional geophysical surveys					
			integrated with monitoring well construction to	Better understand the extent				
			map the thickness and extent of the inferred	of clay lens throughout the				
			clay bed thought to be present beneath the	Subbasin. Better inform				
			western third of the Basin and possibly	model conditions. Potential				
			associated with the interface between the	identification of perched				
ophysical Studies	19.1.2 Data Gap Filling Efforts	Model	Victor Formation and Laguna Formation	aquifers.		CGA		High
• •			Activate Dry Creek surface water gauging	•				
			station and incorporate into monitoring					
y Creek Gauge	19.1.2 Data Gap Filling Efforts	Model	network.			CGA		High
ž			Coordinate monitoring with SASb and ESJ					
ross-boundary Flow			Subbasin to quantify and track changes in					
	19.1.2 Data Gap Filling Efforts	Model	cross-boundary flows.			CGA		Mediu
	, ,		Continue the routine download of public					
			datasets and tools employed to support					
			management activities as they become					
			available (e.g., GDE Pulse tool, Groundwater					
corporation of			Ambient Monitoring and Assessment [GAMA]					
	19.1.2 Data Gap Filling Efforts	Model	data, etc.).			CGA		Mediu
DE Rooting Depth	1, Dam Cup I ming Errord					55.1		mediu
ady		GDE	Melissa Rohde is preparing some info/SOW.					Mediu
omestic Well Impact			Update previous analysis done during GSP					Mount
nalysis		DACs, Domestic/Shallow Wells	development		TNC			High

A of N. Nicos	Reference in GSP	F A	Book die	Benefit	Parameter Comment	E.C. at J.C. at	T. J	DWR Grant
Activity Name	Reference in GSP	Focus Area	Description Implement the Drought Resilience Impact	Бенені	Response to Comment	Estimated Cost	Implementing Agency	Priority
			Platform for verifying Basin pumping,					
Prought Resilience			conservation efforts, and repurposing					
mpact Platform	18.2.4 Other Projects	Conservation	effectiveness.				CGA	Medium
rrigation Defficency	10.2.1 Galer Frojecto	Compet various	Morgan Duran (UCCE) is preparing some				00.1	Mediani
tudy		Model/Water Budget, Conserva						High
tudy to Improve		model water Bauget, conserva	Develop field montiroing sites and processes to					- Tright
	18.2.4 Other PMAs/PMA		better understand evapotranspiration on a					
	Forms	Model	variety of crops.					High
			· '					
			Provide technical and financial incentives that					
Water Efficency			support landowners wanting to implement local					
	18.2.4 Other Projects	Conservation	water use efficiency/conservation projects.				SRCD	High
		Land repurposing activities						Ŭ
		decreases groundwater use						
		by incentiving a change in						
/oluntary		practice/crop on high use						
/lultibeneift Land		water crops that results in a						
Repurposing	PMA #5 Voluntary Land	reductin of groundwater						
Planning	Repurposing (18.2.3)	demand.			Farm Bureau		CGA	High
oluntary								
fultibeneift Land								
Repurposing	PMA #5 Voluntary Land							
ncentive	Repurposing (18.2.3)						CGA	Low

Activity Name	Reference in GSP	Description	Benefit	Response to Comment	Estimated Cost	Implementing Agency	Priority	DWR Grant Priority	Notes
Monthly CGA Meeting Technical	Reference in GS1	Description	Denent	Response to Comment	Estimated Cost	Implementing Agency	Thority	Thority	Notes
Support	19.1.4 Stakeholder Engagement								
Technical Advisory									
Committee	19.1.4 Stakeholder Engagement								
Citizen Advisory									
Committee	19.1.4 Stakeholder Engagement								
Website	19.1.4 Stakeholder Engagement							Low	Cost Share
Inter-Basin Coordination									
Agreement	19.1.4 Stakeholder Engagement								
Public Workshops	19.1.4 Stakeholder Engagement								
Development of Annual Report	19.1.6 Annual Reporting				~\$50k/year	CGA		Low	Cost Share
	19.1.1 Monitoring and Data								
Monitoring	Collection				~\$40k/year	CGA		Low	Cost Share
Domestic Well Owner Technical									
Support									
Archoe Public Facility Well and		Apply for a new facility well for Arcohe School. Develop a groundwater recharge program for the campus and couple that with their educational garden utilizing Best Management Practices (BMP's) for Irrigation Water Management, Nutrient Management, and Integrated Pest Management. Educational component on water savings gardening is a community wide benefit that can provide water							
Recharge Education	18.2.4 Other PMAs	savings outreach back to homeowners.				Galt Irrigation District			

Activity Name	Reference in GSP	Description	Benefit	Response to Comment	Estimated Cost	Implementing Agency	DWR Grant Priority
	PMA #4 City of Galt Recyled						
Water Project	Water Proejct (18.2.2)					City of Galt	Medium
Cosumnes River							
Flow Augmentation	PMA #3 OHWD Flow						
Project	Augmentation Project (18.2.2)					OHWD	Medium
		Work with Basin landowners, GSA members, and					
Participation in		regional stakeholders to develop necessary policies					
Groundwater	PMA #6 Groundwater Banking	and procedures to define the Basins approach to					
Banking Discussions	(18.2.3)	groundwater banking.				CGA	Medium
Low Impact Demand		Implement Low Impact Development practices in the					
Development	18.2.4 Other Projects	City of Galt.				City of Galt	Low

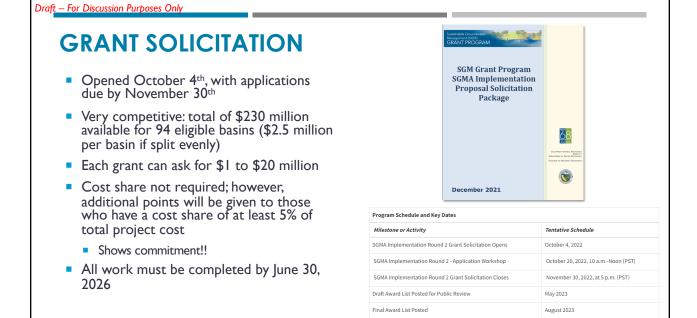
EKI TECHNICAL PRESENTATION

COSUMNES SUBBASIN GSP IMPLEMENTATION

17 OCTOBER 2022
COSUMNES GROUNDWATER AUTHORITY BOARD OF DIRECTORS MEETING

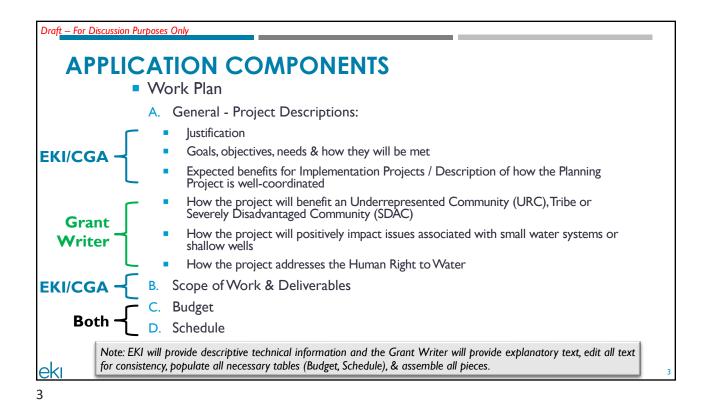


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PROPOSED COSUMNES PROJECTS

- I. Managed and Natural Aquifer Recharge (Section 18.2.4 in the GSP)
 - Stream impoundments to store rainfall runoff.
 - Surface water from outside the basin delivered by natural drainages .
 - Local farm-scale rainwater capture projects.
- 2. Representative Monitoring Network Improvements (Section 19.1.2 "Data Gap Filling Efforts" in the GSP)
- **3. Water Conservation** (Section 18.2.4 in the GSP)
 - Land use changes toward less water intensive crops.
 - Water use efficiency, management and conservation projects.
- 4. Voluntary Land Repurposing (Section 18.2.3 PMA #5)

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MANAGED AND NATURAL AQUIFER RECHARGE (1 OF 3)

LOCAL DIVERSION PROJECTS

- Outreach to landowners along Dry Creek & Laguna Creek to identify lands with existing diversion infrastructure & willingness to participate.
- Locate Project sites focused along Dry Creek and Laguna Creek.
- Rank potential sites based on location & surface/subsurface hydrogeologic conditions.
- CGA select up to 4 sites to secure access for confirmation studies & project development
 - Confirm site suitability (geophysics/infiltration tests/source water and groundwater quality)
 - Plan & design diversion and recharge infrastructure for 1-2 sites
 - Approve plans and construct infrastructure
- Locate, design & construct necessary monitoring equipment to quantify benefits (e.g., meters, weirs, monitoring wells, etc.)
- Update appropriate model input files

Table 1. Summary of Available Surface Water Supplies from Water Year 1990 through 2021.						
	90 [™] Percentile	May Diversion	Max. Avg Annual	Expected Avg Annual		
Creek		IVIAX DIVEISION	Diversion Volume, AF	Diversion Volume, AF		

Flow, CFS	Flow Rate, CFS	Diversion Volume, AF	Diversion Volume, AF (Note 1)
26	24	700	700
325	225	7,300	1,000
20 6		100	100
136	127	2,700	800
Dry Creek 412		10,500	1,000
	Total:	21,300	3,600
	26 325 20 136	Flow, CFS Flow Rate, CFS 26 24 325 225 20 6 136 127 412 392	Flow, CFS Flow Rate, CFS Diversion Volume, AF 26 24 700 325 225 7,300 20 6 100 136 127 2,700 412 392 10,500

 The expected near-term diversion volume is based on a maximum diversion of 15 CFS. Higher rates of diversion may be possible depending on site specific constraints and available funding.

Note: Model-calculated surface water flows suggest that 85% of available surface water for diversions are from flows in Dry and Laguna Creeks. The runoff would be directed to local percolation basins and/or dry wells for infiltration into the Basin if site suitability assessments confirm project feasibility.

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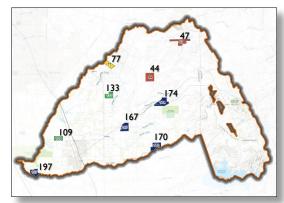
Draft - For Discussion Purposes Only

MANAGED AND NATURAL AQUIFER RECHARGE (2 OF 3)

ON-FARM STORMWATER CAPTURE

- Utilize data from the GSP and CoSANA model to identify high volume sites with acceptable soil conditions
- Rank candidate sites base on expected runoff volumes, expected infiltration rates & subsurface conditions
- CGA select up to 4 sites to secure access to
 - Confirm site suitability (geophysics/infiltration tests/source water and groundwater quality)
 - Plan & design diversion and recharge infrastructure for I-2 sites
 - Approve plans and construct infrastructure
- Locate, design & construct necessary monitoring equipment to quantify benefits (e.g., meters, weirs, monitoring wells, sampling stations, etc.)

Update appropriate model input files



Note: Map shows example land parcels with model-calculated average (1990-2021), annual runoff in acre-feet (AF).

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MANAGED AND NATURAL AQUIFER RECHARGE (3 OF 3)

FLOOD-MAR ANALYSIS (LAGUNA CREEK)

- Multi-benefit Flood-MAR Opportunities Analysis
- Draft Scope of Work developed by cbec eco engineering
 - Data Discovery
 - Field Data Collection and Monitoring
 - Hydrologic Model Development
 - Hydraulic Model Development and Simulation
 - Ecological Floodplain Inundation Potential Analysis (EcoFIP)
 - Reporting and Outreach

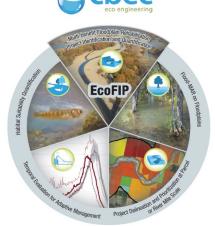


Figure 1 - EcoFIP ecohydraulic modeling framework.

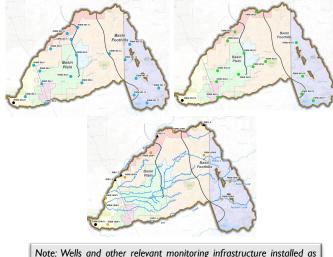
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Draft - For Discussion Purposes Only

REPRESENTATIVE MONITORING NETWORK IMPROVEMENTS

- The SGMA Monitoring Network (RMWs) provides data to evaluate Sustainable Management Criteria (SMCs) and assess Sustainability Indicators for the Basin
- Multiple data gaps within the networks were identified in the GSP
- Improving the monitoring network includes the following task
 - Downhole video log/surveying of current RMWs
 - Construct monitoring well sites located near DACs, GDEs areas, and within the mapped cone of depression
 - Expand the network of supplemental domestic and agricultural wells to confirm the SGMA monitoring network is representative. (supplemental wells do not have assigned SMCs)
 - Update appropriate model input files



Note: Wells and other relevant monitoring infrastructure installed as part of the demonstration projects will be incorporated into the SGMA Monitoring Network as appropriate to also fill identified data gaps.

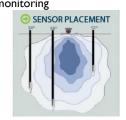
<u>ekı</u>

WATER CONSERVATION

- Additional outreach to landowners
- Use updated land use data (work task under Land Repurposing project) and update ET estimates to refine consumptive use estimates
- Identify & rank candidate demonstration project sites based on site conditions (soil characteristics, land uses, current irrigation & water practices, & conduciveness to testing selected BMPs)
- CGA select up to 4 sites to secure access for
 - Site inspection by Agricultural Consultant
 - Identify recommended BMPs & plan/design conservation activities
 - Approve plans & construct necessary field modifications and necessary infrastructure
- Locate, design & construct necessary monitoring equipment to quantify benefits (e.g., meters, weirs, monitoring wells, etc.)

Update appropriate model input files





Flow meter monitoring



Note: Commercially available weather stations can be installed along with other tracking equipment to measure and record soil moisture, water flows, water levels, and climate data at strategically placed stations in the basin.

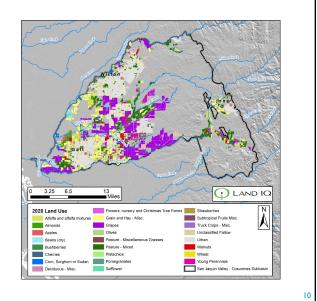
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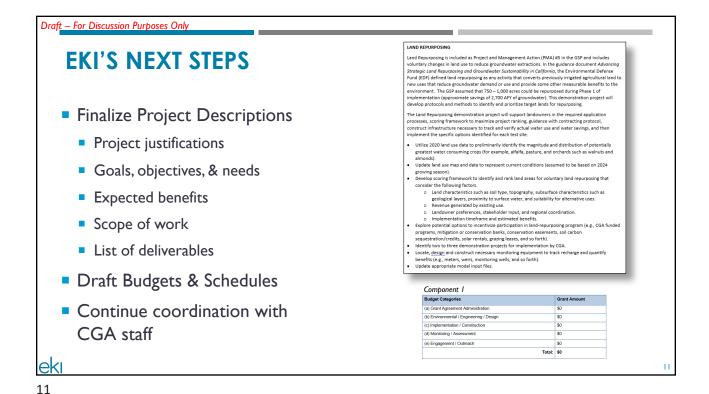
VOLUNTARY LAND REPURPOSING

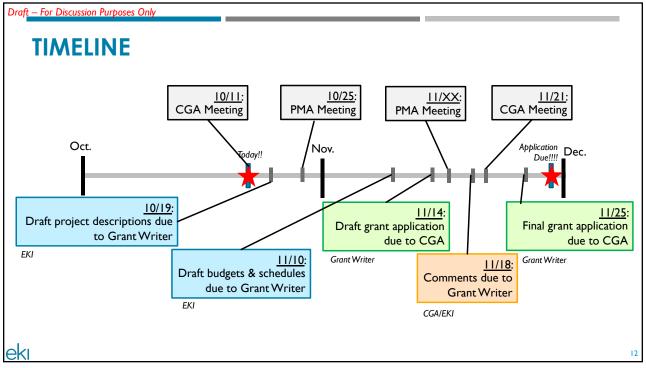
- Additional outreach to landowners
- Update land use map & data
- Develop scoring framework to identify & rank sites for possible projects
 - Land characteristics
 - Revenue generated by existing use
 - Landowner preferences
 - Implementation timeframe & estimated benefits
- Identify 2 to 3 demonstration projects
- Locate, design & construct necessary monitoring equipment to quantify benefits (e.g., meters, weirs, monitoring wells, etc.)

Update appropriate model input files



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Agenda Date: October 17th, 2022

Agenda Item #:

Agenda Item Subject: Water Year 2022 Annual Report Preparation

To: CGA Board of Directors

From: CGA Staff

Background

The Sustainable Groundwater Management Act (SGMA) requires Groundwater Sustainability Agencies (GSAs) to submit annual reports to the Department of Water Resources each April 1 following the adoption of a Groundwater Sustainability Plan (GSP). Annual reports will provide information on groundwater conditions and implementation of the GSP for the prior water year. EKI Environmental and Water, Inc. prepared the Water 2021 report and, after consulting with CGA Staff, has prepared an additional scope of work for the project.

Attachments

• EKI Scope of Work, Annual Report Development

Staff Recommendation

• Authorize the extension of EKIs contract to include preparation of the Water Year 2022 Annual Report, including additional outreach and technical support for CGA meetings.



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October 13, 2022

SCOPE OF WORK

<u>Introduction</u>

Per the Cosumnes Groundwater Authority (CGA) request, below is a proposed scope of work for EKI over the next 12-months of Cosumnes Subbasin Groundwater Sustainability Plan (GSP) implementation.

Task 1: Water Year (WY) 2022 Annual Report

WY 2022 Annual Report preparation includes three subtasks: 1) Data Compilation; 2) Groundwater Flow Model Extension; and 3) Write and Submit Annual Report. Data compiled under Task 1 will either be used directly to produce necessary graphics and tables for the Annual Report (subtask 3) or be used to update CoSANA model input files (subtask 2):

- 1. Data Compilation: Groundwater elevation data from Representative Monitoring Wells (RMWs) and supplemental wells (to be provided by Watershed Coordinator); Water quality data from RMW Water Quality (RMW-WQ) network wells and publicly available data for wells across the Basin (to be provided by Watershed Coordinator); Download data from available stream gauges (to be provided by Watershed Coordinator); Estimate Dry Creek data using C2VSim and publicly available data (to be done by EKI); Annual verification and update of land use maps (to be provided by Watershed Coordinator); Utilize satellite imagery to identify the spatial and temporal distribution of dry stream reaches in the Basin (to be provided by Watershed Coordinator); Download land subsidence data (to be done by EKI); Download precipitation data (to be done by EKI); Obtain, process, and estimate surface water delivery data as needed from appropriate GSAs, online resources and updated references (download guidance provided by EKI and data to be provided by Watershed Coordinator); Compile pumping data from appropriate GSAs, and download available Public Water System (PWS) pumping data (download guidance provided by EKI and data to be provided by Watershed Coordinator); Compile monthly Camanche Reservoir stage (to be provided by Watershed Coordinator); Compile voluntary groundwater extraction data (to be provided by Watershed Coordinator); and Compile status report on Project and Management Actions (PMAs) (to be provided by Watershed Coordinator).
- 2. Groundwater Flow Model Extension: Extending and updating the Numerical Model to run through September 2022 (i.e., WY 2022). This involves updating input files to include surface water delivery, pumping, ET, and land use data between October 2021 to September 2022 compiled under subtask 1, running the model, and post-processing results. The model results will be used to estimate agricultural pumping, streamflow depletions, and the change in groundwater storage for purposes of the WY 2022 Annual Report.
- 3. Write and Submit Annual Report: Prepare draft and final text, graphics, and tables as described in 23-CCR § 356.2 for submittal of the WY 2022 Annual Report to DWR by CGA. As required by the regulations, WY 2022 water levels will be compared to Sustainable Management Criteria and results summarized. This subtask includes required coordination and communication with CGA.

Cosumnes Groundwater Authority Technical Support EKI Scope of Work 12 August 2022 Page 2 of 3



Task 2: Data Management System (DMS) Support

The DMS includes both spatial and temporal data for the Cosumnes Basin, and these data types are linked through use of a Geographic Information System (GIS) geodatabase. The DMS allows for accurate and efficient export of information for GSP analysis, reporting, and data addition.

Task 2 consists of evaluating and summarizing example user-friendly options that can build off the existing DMS to increase its effectiveness for groundwater management. EKI shall research select platforms being used by other GSAs to identify potential "off-the-shelf" or custom data management tools that can allow CGA to more readily review and visualize data, assist GSP implementation, and provide effective materials for public outreach. For example, a platform to consider is BasinScout, which can aggregate data and help users to prioritize land repurposing and conservation recommendations. The EQuIS platform is another potentially useful tool to check, edit, load, report, and visualize monitoring data.

The options to upgrade the DMS will be summarized and ranked in a technical presentation presented at the CGA Board of Directors monthly meeting. CGA can utilize the information provided to select their preferred tool to utilize moving forward with GSP implementation.

Task 3: Outreach Activities

Task 3 consists of supporting Technical Advisory Committee (TAC) meetings and Public Workshops as part of public outreach activities.

- 1. Technical Advisory Committee (TAC): Attend and participate in up to two TAC meetings. This will include developing technical presentations, which typically can require significant research and technical evaluations; running, extracting and summarizing results from CoSANA, and developing figures and graphics to guide CGA decision-making and planning. Topics can include, but are not limited to, current conditions of the Basin as described in the WY 2022 and WY 2023 Annual Reports, update GSP Implementation progress including PMA activities, monitoring updates and other relevant technical information requested by CGA. This task also assumes one person from EKI will be available for up to two debriefing calls with CGA staff following the TAC meetings.
- 2. Public Workshops: Prepare technical presentations and handout materials summarizing technical information to support CGA in up to four public workshops. It is assumed one person from EKI will attend the Public Workshops, as appropriate and as requested by CGA.

Task 4: Grant Support

Task 4 consists of EKI providing technical support for upcoming grant applications. This can include reviewing grant opportunities, reviewing or development of grant application materials (e.g., research, cost estimating, strategic planning meetings, etc.), conducting technical evaluations and performing model runs to evaluate potential PMA benefits, or other grant support activities as requested by CGA.

Task 5: GSP Implementation Technical Support to CGA

This task includes (1) routine budget management and monthly invoicing; (2) monthly coordination with the CGA secretary and Watershed Coordinator; (3) monthly planning meetings with CGA and facilitator to

Cosumnes Groundwater Authority Technical Support EKI Scope of Work 12 August 2022 Page 3 of 3



ensure all critical GSP Implementation deadlines are being addressed and met; (4) attend monthly CGA Board meetings and PMA meetings to support CGA staff in responding to technical questions brought up at meetings and to help incorporate GSA and public comments into the GSP Implementation; and, (5) provide technical support for the Fee Study. It is assumed that at least one EKI member will attend the monthly CGA planning meetings, monthly CGA Board meetings and one PMA meeting per month. EKI will develop up to four technical presentations to be presented to the CGA Board. Developing the presentations can require research and technical evaluations, extracting and summarizing model results, and/or developing figures and graphics to provide guidance for decision-making and planning processes for CGA.

Project Schedule

The EKI Team is prepared to start work on the above Scope of Work immediately upon authorization to proceed.

Compensation for Consulting Services

Inasmuch as the exact level of effort required to complete the above Scope of Work cannot be known precisely, EKI proposes to perform the work on a time and materials expense reimbursement basis. A breakdown of the estimated budget is provided in Table 1 below.

Table 1. Proposed Project Budget

TASK	Cost
Task 1 – WY 2022 Annual Report	\$33,000
Task 2 – DMS Support	\$15,000
Task 3 – Outreach Activities	\$32,000
Task 4 – Grant Support	\$13,000
Task 5 – GSP Implementation Technical Support to CGA	\$62,000
TOTAL	\$155,000

Agenda Date: October 17th, 2022

Agenda Item #: 7

Agenda Item Subject: Outreach and Engagement

To: CGA Board of Directors

From: CGA Staff

Background

We have tentatively scheduled a public workshop to engage the community on a variety of groundwater sustainability topics. On December 6th (location TBD) interested community members and stakeholders will learn more about project planning efforts and the Cosumnes Groundwater Authority's first year as an organization.

Technical Advisory Committee

CGA Staff anticipate bringing a draft committee charter for a Technical Advisory Committee (TAC) for Board consideration. This TAC would play a similar role to the TAC and Surface Water Advisory Group (SWAG) convened under the subbasin working group prior to GSP adoption and submission. The TAC would meet up to twice a year to review annual monitoring data, project status, and other aspects of CGA work as appropriate.

Staff Recommendation

- Promote the Farmers Survey to help inform the DWR SGM Grant Application.
- Consider GSA specific outreach activities (formal/informal workshops with constituents, letter to the editor, mailers, etc.) coordinated with CGA efforts.

Agenda Date: October 17th, 2022

Agenda Item #: 8

Agenda Item Subject: CGA Staff Report

To: CGA Board of Directors

From: CGA Staff

Fall 2022 GSA Forum

DWR is hosting a virtual Fall 2022 Groundwater Sustainability Agency (GSA) Forum for GSA members and representatives on November 9, 2022, from 9:00 AM to noon. The Forum will be a platform for GSAs to come together to engage, exchange ideas, and establish professional networks. The theme of the upcoming Fall Forum is *Funding SGMA Implementation*. Follow this link to register for the event. An agenda will be provided to registered participants prior to the event. Please note that the event will be limited to 150 participants.

Watershed Coordinator Report

- Fall water levels and water quality samples have been collected by MLJ. These results will be compiled and be presented in December.
- COSANA modeling updates and monitoring coordination is continuing with the North and South American Subbasins.
- Ongoing coordination with DWR and USDA on OHWD's Laguna Del Sol Recharge Project – technical expertise, well diagnostics, geophysical and hydrological data gathering
- The CARCD DOC Multibenefit Land Repurposing Grant application is continuing to be developed. The grant application window is expected to be open and closed by the end of the calendar year.

Water Forum

Links: Water Forum Website | Water Forum 2.0 Information

• CGA staff are tracking conversations regarding the Water Forum 2.0 agreement.