

Board of Directors Meeting

<u>AGENDA</u> Wednesday December 8, 2021 10:30 a.m. – 12:00 a.m. Teleconference Only Call-In Information Provided Below

I. Call to Order/Pledge of Allegiance & Safety Announcement/Roll Call (*Please remember to keep your phone line muted and unmute when announcing yourself for attendance or speaking)

II. SCHEDULED ITEMS -

A. Action Items:

- 1. Approval of the September 8, 2021 Meeting Minutes (Attachment 1-Page 4)
- 2. Approval of the September 30, 2021 Special Meeting Minutes (Attachment 2-Page 15)
- Discussion and Possible Action to Adopt Resolution R-21-XX Determining to Conduct Meetings Using Teleconferencing Pursuant to Government Code 54953 as Amended by AB 361 (Attachment 3-Page 22)
- 4. State of California Department of Water Resources Comments on Eastern San Joaquin Groundwater Sustainability Plan (<u>Attachment 4-Page 24</u>)
- 5. Steering Committee Recommendations
 - a. Approval of Woodard & Curran Task Order No 5 to Master Services Agreement A-20-1 (Attachment 5.1-Page 36)
 - Approval of David's Engineers Contract and Draft Work Plan (<u>Attachment 5.2-Page</u> <u>59</u>)
 - c. Budget Amendment (<u>Attachment 6.1-Page 77</u> Staff Report and Budget Tables, <u>Attachment 6.2-Page 81</u> - Resolution)
 - d. Board Meeting Frequency and Schedule
- 6. Approach to GSA Outreach
- 7. DWR P68 PSP for SGMA Implementation (<u>Attachment 7-Page 87</u> Staff Report, <u>Attachment</u> <u>8-Page 89</u> - DWR Update)
 - a. PSP Issues and Strategy
 - b. Process for Project Selection
 - c. TAC Discussion and Projects

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY Board of Directors Meeting AGENDA

(Continued)

- 8. Accounting Framework and Funding/Finance Strategy
 - a. Water Budget
 - b. Survey Results
 - c. Case Studies
 - d. Next Steps
- III. Directors' Comments
- IV. Public Comment (non-agendized items)
- V. Future Agenda Items
- VI. Adjournment

NOTICE: Coronavirus COVID-19

See Attached Notice Regarding COVID 19, Closure of Board Chambers to the Public During the Eastern San Joaquin Groundwater Authority Board of Directors Meeting and Teleconference Information

> Next Regular Meeting Wednesday, March 9, 2022 10:30 a.m. – 12:00 p.m. Location TBD

Action may be taken on any item

Agendas and Minutes may also be found at http://www.ESJGroundwater.org Note: If you need disability-related modification or accommodation in order to participate in this meeting, please contact San Joaquin County Public Works Water Resources Staff at (209) 468-3089 at least 48 hours prior to the start of the meeting.

Important Notice Regarding COVID 19 and Closure of Board Chambers to the Public During Eastern San Joaquin Groundwater Authority Board of Directors Meetings

On March 18, 2020, Governor Gavin Newson issued Executive Order N-29-20 recognizing that COVID 19 continues to spread throughout our community resulting in serious and ongoing economic harm. Governor Newson has therefore waived certain requirements of the Ralph M. Brown Act relating to public participation and attendance at public meetings.

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY Board of Directors Meeting AGENDA

(Continued)

Based on guidance from the California Department of Public Health and the California Governor's Officer, *effective immediately* and while social distancing measures are imposed, Board chambers will be closed to the public during the Eastern San Joaquin Groundwater Board of Directors Meetings.

In order to minimize the spread of the COVID 19 virus, the following options are available to members of the public to listen to these meetings and provide comments to the Board of Directors before and during the meeting:

1. You are strongly encouraged to listen to the Eastern San Joaquin Groundwater Authority Board of Directors meetings by attending the teleconference:

Microsoft Teams meeting

Join on your computer or mobile app <u>Click here to join the meeting</u> Or call in (audio only) +1 209-645-4071,,239455833# United States, Stockton Phone Conference ID: 239 455 833# <u>Find a local number | Reset PIN</u> <u>Learn More | Meeting options</u>

Once connected, we request you kindly mute your phone.

2. If you wish to make a comment on a specific agenda item, please submit your comment via email by 5:00 p.m. on the Tuesday prior to the meeting. Please submit your comment to the Clerk/Secretary of the Board at <u>sperez@sjgov.org</u>. Your comment will be shared with the Board members and placed into the record at the meeting. Every effort will be made to read comments received during the meeting into the record, but some comments may not be read due to time limitations. Comments received after an agenda item will be made part of the record if received prior to the end of the meeting.

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY Board Meeting Minutes September 8, 2021

I. Call to Order/Pledge of Allegiance & Safety Announcement/Roll Call

The Eastern San Joaquin Groundwater Authority (GWA) Board Teleconference meeting convened, and Chairman Chuck Winn called the meeting to order, via the online Microsoft Teams Meeting platform, at 9:10 a.m. on September 8, 2021. The meeting was Teleconference only.

Chairman Winn led the agenda.

Mrs. Kristy Smith with San Joaquin County conducted the roll call.

In attendance were Chairman Chuck Winn; Alternate Vice Chairman Andrew Watkins; Secretary Kris Balaji; Directors Jeremiah Mecham, David Breitenbucher, Mike Henry, Tom Flinn, Eric Thorburn; Alternate Directors Dante Nomellini, Reid Roberts, Charlie Swimley, Walter Ward, Brandon Nakagawa.

Also in attendance was Director Dan Wright who arrived after roll call was completed.

II. SCHEDULED ITEMS

A. Action Items:

1. Approval of Minutes of June 9, 2021

Chairman Winn called for the approval of minutes of the meeting on June 9, 2021. There were no comments by the GWA Board members and no comments by the public.

Motion:

Director Jeremiah Mecham moved, and Director Eric Thorburn second, approval of the June 9, 2021 minutes.

With no members opposed.

The motion passed unanimously.

2. Review and Adopt Policy Statement to SWRCB Administrative Hearing Office to Support the American River Water Rights Application 29657

Mr. Glenn Prasad led the agenda item and with the assistance of Mr. Fritz Buchman, provided details on the proposed Policy Statement on behalf of the GWA. Director Mike Henry reminded the group that that draft resolution was provided via email for advance review. Chairman Winn agreed and advised ready to move forward with adopting if there were no comments or concerns.

Motion:

Director Dante Nomellini moved, and Director Mike Henry second, approval of the Policy Statement to SWRCB Administrative Hearing Office to Support the American River Water Rights Application 29657. Roll call vote conducted.

The motion passed unanimously.

Director Henry reminded the group that there was also a request for Policy Statements from the individual GSAs.

3. SWRCB Comment to DWR on ESJ GSP

Mr. Glenn Prasad led the agenda item, providing details on DWR receiving comments on our GSP from SWRCB. Mr. Prasad noted that comments were not requested by DWR, but rather a form of public comment and did not require a formal response from the Board unless it was determined they would like to. Mr. Prasad added that most of the comments were "copy and paste" type comments, given to multiple GSPs throughout the state.

Chairman Winn noted that Public Works is reviewing the comments and that it does not hurt to determine the appropriateness of the comments to our GSP. Director Henry added his appreciation for the clarification on the comments received and questioned if Chelsea Spier with DWR could provide more insight as to when we will receive DWR comments. Ms. Spier advised that she does not have specifics, but hopefully by October.

B. Staff/DWR Report

1. Report on 9/2/21 TAC Meeting

Mr. Prasad provided a brief overview of the GWA Technical Advisory Committee Meeting that was held on September 2nd. Items reviewed included, a progress update on the Model Update, a status update on the DREAM Project and a progress report on Well Monitoring, noting current wells and well construction. Mr. Prasad additionally provided an overview of the current and upcoming Grant Funding opportunities. Ms. Spier clarified that Grant Funding would include urban and multi-benefit drought funding.

2. RFQ for Basin Accounting Framework and Funding/Financing Alternatives

Mr. Prasad provided an overview of the RFQ for the Basin Accounting Framework and Funding/Financing Alternatives, noting that the RFQ had already been posted and sent to a list of consultants on 8/258/21. Mr. Prasad noted that submissions were due by 9/24/21 and that a selection committee, consisting of Matt Zidar, Alternate Directors Walt Ward, Brandon Nakagawa and Andrew Watkins, has been organized to review. It was also noted that DWR FSS services were also going to be utilized in these efforts.

3. DWR Update and FSS Status

Ms. Chelsea Spier from DWR noted that there was not much more to update, all items included in her report, included in the agenda package. Ms. Spier added that the FSS was finalized.

4. DWR FIROMAR Pilot Project

Mr. Prasad provided an overview of the FIROMAR Pilot Project work and the conceptual plan provided to DWR. Mr. Prasad noted that the project would be in collaboration with SEWD.

Secretary Kris Balaji added that the group just had a meeting where they discussed the Merced FIROMAR Project and benefits.

It was additionally noted that there was a 3.6 million dollar grant to start the study, with potentially more funds from the US Army Corps of Engineers Section 7001 process.

Mr. Scot Moody with SWED added that the project is still in the infant stage with discussions still in progress. He noted that the project theory makes sense, to reduce flood risk down-stream. Chairman Winn added that consideration of flood protection is important. It's important to look at both sides of water.

III. Director's Comments and GSA Status Reports:

Chairman Winn requested comments from each GSA Director individually.

CDWA – Alternate Director Dante Nomellini stated their primary focus was on Water Rights and involvement in curtailment litigation.

CSJWCD – Alternate Director Reid Roberts reported that they were finishing up irrigation season and hoping for water availability next year.

City of Stockton – Director Dan Wright reported that John Abrew has moved on and Mel Lytle would be returning to the position in Water.

City of Lodi – Alternate Director Charlie Swimley reported that they are ramping up their Water Conservation outreach to the public and that the community has shown progress in usage figures. They are also working on curtailment issues.

City of Manteca – Nothing to report.

Eastside GSA – Alternate Director Walt Ward reported that Stanislaus County is hosting a Drought Summit on October 6th, consisting of a coalition of urban and ag to discuss current and future conditions. Invite to be coming soon. They are also dealing with SWRCB curtailment orders.

LCWD – Not on call.

LCSD – Director Mike Henry reported that they are looking ahead and praying for a good water year.

NSJWCD – Director Tom Flinn reported that they are planning how to fund projects and are creating a Strategic Plan for Funding with customers. It was noted that they hope to be in the position some time next year, to request rate increase from customers to increase revenue. Chairman Winn questioned the projected costs for projects and timeframe of their Strategic Plan. Director Flinn noted that project costs still in review, as they are working with customers and there is still potential grant funding. Their Strategic Plan has a 20-year time frame.

OID – Director Eric Thorburn reported that they are also in midst of reacting to curtailment orders and working to get GSP adopted for Modesto subbasin.

SJC – Nothing to report.

SDWA – Not on call.

SSJID – Alternate Director Brandon Nakagawa reported they are working on drought curtailment order as well. He advised they were in process of developing Capital Improvement Project Plan that will look at modernization, use of SGMA, customer use. It was noted the plan would take a lot of revenue, so looking at rate increases. It was additionally reported that the SSJID SGMA Outreach Event held in July was well attended and very successful, thank you to attendees and panel.

SEWD – Mr. Scot Moody reported ditto on SSJID curtailment issue, as well as noting that New Melones and New Hogan not in good shape and not counting on water for the next year. It was noted that water transfer to both Stanislaus and San Joaquin Counties would bring revenue boost. Additionally, it was reported that WaterSmart Grants received for metering project and satellite ET Study. Secretary Balaji added that it is a great partnership between SJC and SEWD, kudos to them for working together.

WID – Not on call.

IV. Secretary Report:

There was no report for this meeting.

V. Public Comment:

None.

VI. Future Agenda Items and Meeting Dates:

None provided.

VII. <u>Adjournment:</u> Chairman Winn adjourned the September 8, 2021 meeting at 10:07 a.m.

Next Regular Meeting:

Wednesday, December 8, 2021 10:30 am – 12:00 pm Location TBD

Eastern San Joaquin Groundwater Authority Board of Directors September 8, 2021

September 8, 2021 Boll Call						
Agency Name	Director First	Director Last	Alternate First	Alternate Last		
Cal Water	Jeremiah	Mecham 📍				
Central Delta Water Agency	George	Biagi, Jr.	Dante	Nomellini 🏾 [©]		
Central San Joaquin Water Conservation District	Grant	Thompson	Reid	Roberts 🧖		
City of Lodi	Alan	Nakanishi	Charlie	Swimley		
City of Manteca	David	Breitenbucher				
City of Stockton	Dan	Wright [•] Late	Mel Paul	Lytle Canepa		
Eastside San Joaquin GSA	Russ	Thomas	Walter	Ward 🏾 📍		
Linden County Water District	David	Fletcher				
Lockeford Community Services District	Mike	Henry 🤗	Joseph Eric	Salzman Schmid		
North San Joaquin Water Conservation District	Tom	Flinn •	Joe	Valente		
Oakdale Irrigation District	Eric	Thorburn, P.E. 📍				
South Delta Water Agency	John	Herrick, Esq.	Jerry	Robinson		
South San Joaquin Groundwater Sustainability Agency	Robert	Holmes	Brandon	Nakagawa 🌋		
Woodbridge Irrigation District	Andy	Christensen				
San Joaquin County Public Works Secretary (1)	Kris	Balaji 🙎				
Stockton East Water District Vice Chair (2)	Melvin	Panizza 🔀	Andrew	Watkins 🕱 ᅌ		
San Joaquin County Chairman (3)	Chuck	Winn	Kathy	Miller		

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Eastern San Joaquin Groundwater Authority Board of Directors September 8, 2021

	Director	Director		Alternate	Alternate	
Agency Name	First	Last		First	Last	
Cal Water	Jeremiah	Mecham	У			
Central Delta Water Agency	George	Biagi, Jr.		Dante	Nomellini	Y
Central San Joaquin Water Conservation District	Grant	Thompson		Reid	Roberts	×
City of Lodi	Alan	Nakanishi		Charlie	Swimley	X
City of Manteca	David	Breitenbuche	r Y			
City of Stockton	Dan	Wright		Mel Paul	Lytle Canepa	
Eastside San Joaquin GSA	Russ	Thomas		Walter	Ward	×
Linden County Water District	David	Fletcher				
Lockeford Community Services District	Mike	Henry	X	Joseph Eric	Salzman Schmid	
North San Joaquin Water Conservation District	Tom	Flinn	Y	Joe	Valente	
Oakdale Irrigation District	Eric	Thorburn, P.E	. X			
South Delta Water Agency	John	Herrick, Esq.		Jerry	Robinson	
South San Joaquin Groundwater Sustainability Agency	Robert	Holmes		Brandon	Nakagawa	γ
Woodbridge Irrigation District	Andy	Christensen				
San Joaquin County Public Works Secretary (1)	Kris	Balaji				
Stockton East Water District Vice Chair (2)	Melvin	Panizza		Andrew	Watkins	X
San Joaquin County Chairman (3)	Chuck	Winn	Y	Kathy	Miller	

motion-mechann 2nd-Thorburn Approved I. A.1

Eastern San Joaquin Groundwater Authority Board of Directors September 8, 2021

	Director	Director		Alternate	Alternate	
Agency Name	First	Last		First	Last	
Cal Water	Jeremiah	Mecham	¥			
Central Delta Water Agency	George	Biagi, Jr.		Dante	Nomellini	X
Central San Joaquin Water Conservation District	Grant	Thompson		Reid	Roberts	X
City of Lodi	Alan	Nakanishi		Charlie	Swimley	Y
City of Manteca	David	Breitenbuche	er Y			
City of Stockton	Dan	Wright	X	Mel Paul	Lytle Canepa	
Eastside San Joaquin GSA	Russ	Thomas		Walter	Ward	X
Linden County Water District	David	Fletcher				
Lockeford Community Services District	Mike	Henry	У	Joseph Eric	Salzman Schmid	
North San Joaquin Water Conservation District	Tom	Flinn	У	Joe	Valente	
Oakdale Irrigation District	Eric	Thorburn, P.	e. y			
South Delta Water Agency	John	Herrick, Esq.		Jerry	Robinson	
South San Joaquin Groundwater Sustainability Agency	Robert	Holmes		Brandon	Nakagawa	X
Woodbridge Irrigation District	Andy	Christensen				
San Joaquin County Public Works Secretary (1)	Kris	Balaji				
Stockton East Water District Vice Chair (2)	Melvin	Panizza		Andrew	Watkins	X
San Joaquin County Chairman (3)	Chuck	Winn	У	Kathy	Miller	

motion - Nomellini 2nd - Henny Approved. T.A. 2



Joint Exercise of Powers Board of Directors Meeting

MEMBER SIGN-IN SHEET

Location: <u>Teleconference Call Only</u> Date: <u>9/8/2021</u> Time: <u>9:00 AM</u>

INITIAL	Member's Name	GSA	Phone	Email
Present	Jeremiah Mecham	Cal Water Member		jmecham@calwater.com
11000111	George Biagi, Jr.	Central Delta Water Agency Member	209-481-5201	gbiagi@deltabluegrass.com
Present	Dante Nomellini	Central Delta Water Agency Alternate	209-465-5883	ngmplcs@pacbell.net
	Grant Thompson	Central San Joaquin Water Conservation District Member	209-639-1580	gtom@velociter.net
Present	Reid Roberts	Central San Joaquin Water Conservation District Alternate	209-941-8714	reidwroberts@gmail.com
1.00011.	Alan Nakanishi	City of Lodi Member	209-333-6702	anakanishi@lodi.gov
Present	Charlie Swimley	City of Lodi Alternate	209-333-6706	cswimley@lodi.gov
Present	David Breitenbucher	City of Manteca Member	209-456-8017	dbreitenbucher@ci.manteca.ca.us
1100011		City of Manteca Alternate		
Present	Dan Wright	City of Stockton Member	209-937-5614	Dan.Wright@stocktonca.gov
	Paul Canepa	City of Stockton Alternate	209-603-7091	Paul.Canepa@stocktonca.gov
	Mel Lytle	City of Stockton Alternate	209-	Mel.Lytle@stocktonca.gov
	Russ Thomas	Eastside San Joaquin GSA Member	209-480-8968	rthomasccwd@hotmail.com
Present	Walter Ward	Eastside San Joaquin GSA Alternate	209-525-6710	wward@envres.org

INITIAL	Member's Name	GSA	Phone	Email
	David Fletcher	Linden County Water District Member	209-887-3202	dqfpe@comcast.net
		Linden County Water District Alternate		2
Present	Mike Henry	Lockeford Community Services District Member	209-712-4014	midot@att.net
	Joseph Salzman	Lockeford Community Services District Alternate	209-727-5035	lcsd@softcom.net
	Eric Schmid	Lockeford Community Services District Alternate	209-727-5035	lcsd@softcom.net
Present	Tom Flinn	North San Joaquin Water Conservation District Member	209-663-8760	tomflinn2@me.com
	Joe Valente	North San Joaquin Water Conservation District Alternate	209-334-4786	jcvalente@softcom.net
Present	Eric Thorburn, P.E.	Oakdale Irrigation District Member	209-840-5525	ethorburn@oakdaleirrigation.com
1100-111		Oakdale Irrigation District Alternate		
Present	Chuck Winn	San Joaquin County Member	209-953-1160	cwinn@sjgov.org
	Kathy Miller	San Joaquin County Alternate	209-953-1161	kmiller@sjgov.org
	John Herrick, Esq.	South Delta Water Agency Member	209-224-5854	jherrlaw@aol.com
	Jerry Robinson	South Delta Water Agency Alternate	209-471-4025	N/A
	Robert Holmes	South San Joaquin GSA Member	209-484-7678	rholmes@ssjid.com
Present	Brandon Nakagawa	South San Joaquin GSA Alternate	209-249-4613	bnakagawa@ssjid.com
	Melvin Panizza	Stockton East Water District Member	209-948-0333	melpanizza@aol.com
Present	Andrew Watkins	Stockton East Water District Alternate	209-484-8591	watkins.andrew@verizon.net
	Anders Christensen	Woodbridge Irrigation District Member	209-625-8438	widirrigation@gmail.com
		Woodbridge Irrigation District Alternate		

Eastern San Joaquin Groundwater Authority Staff & Support

INITIAL	Member's Name	Organization	Phone	Email
Present	Kris Balaji	San Joaquin County	468-3100	kbalaji@sjgov.org
Present	Fritz Buchman	San Joaquin County	468-3034	fbuchman@sjgov.org
	Matt Zidar	San Joaquin County	953-7460	mzidar@sjgov.org
Present	Glenn Prasad	San Joaquin County	468-3089	grasad@sjgov.org
	Alicia Connelly	San Joaquin County	468-3531	aconnelly@sjgov.org
Present	Kristy Smith	San Joaquin County	468-0219	kmsmith@sjgov.org
	Rod Attebery	Neumiller & Beardslee / Legal Counsel	948-8200	rattebery@neumiller.com
	Arleth Pelayo	San Joaquin County	953-7948	apelayo@sjgov.org
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Joint Exercise of Powers Board of Directors Meeting

OTHER INTERSTED PARTIES - SIGN-IN SHEET

Location: <u>Teleconference Call Only</u> Date: <u>9/8/2021</u> Time: <u>9:00 AM</u>

INITIAL	Member's Name	Organization	Phone	Email
Present	Brenda Kiely	SUL CAO		
Present	Scot Moody Chelsea Spier	SEWD		
Present	Chelsea Spier	DWR		
Present	Leslie Dumas	Woodavd + Curvan		
Present	Elba	city of Manteca		
Present	Steven Shih	EHD		
Present	Kirin Virk	SJC County Counsil		
Present	Grace Su	EBMUD		

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY Special Board Meeting Minutes September 30, 2021 Meeting began 9:34 AM Meeting ended 10:02 AM

I. CALL TO ORDER/PLEDGE OF ALLEGIANCE & SAFETY ANNOUNCEMENT/ROLL CALL

The Eastern San Joaquin Groundwater Authority (GWA) Board Teleconference meeting convened, and Chairman Mel Panizza called the meeting to order, via the online Microsoft Teams Meeting platform, at 9:34 a.m. on September 30, 2021. The meeting was Teleconference only.

Safety Announcement: Matt Zidar

Roll Call:

In attendance were Chairman Melvin Panizza; Alternate Vice Chairman Andrew Watkins; Directors Jeremiah Mecham, David Breitenbucher, Mike Henry, Tom Flinn, Eric Thorburn; Alternate Directors Reid Roberts, Charlie Swimley, Walter Ward, Brandon Nakagawa and Secretary Kris Balaji

II. Scheduled Items:

A. Discussion/Action Items:

1. Discussion and Possible Action to Adopt Resolution R-21-XX regarding Implementation of AB 361 Brown Act Teleconferencing Requirements.

GWA Counsel Rod Attebery provided an overview of AB-361 regarding Brown Act Teleconferencing requirements with respect to the executive orders that Governor Newsom put in place due to the pandemic. Mr. Attebery further explained that we are still under Executive Order for teleconferencing settings through September 30, 2021. After October 2, 2021, AB 361 provides that legislative bodies subject to Brown Act may continue to meet without fully complying with the teleconferencing rules regarding in person meetings. No action is necessary but we can do one of 3 things:

- Adopt the Resolution provided where this legislative body intends to invoke AB 361 and continue teleconference until the state of emergency ends; and, where we will need to meet a minimum of every 30 days (we may need to call special meetings)
- Wait until December where it will be invoked for the 1st time using AB 361 for purposes of meeting
- As a legislative body, we can meet in person with social distancing and masking requirements, which may be difficult if there are room limit capacities

Director Ward prefers 2nd option but wanted to know "what are the risks?" Mr. Attebery replied that the 2nd option provides more time on clarity and on where we stand in the state of emergency. There is some value in waiting. 2nd and 3rd options are not mutually exclusive as we still have the first meeting in December.

Director Henry preferred the 2nd option and asked if there is a need to meet before December, would we address it at that time? Mr. Attebery replied yes, if that becomes the first meeting under AB 361 then that will be the first time we would invoke it so we would need to address it at that time.

Mr. Fritz Buchman asked if we deferred until December, how would that affect our standing committee meetings? Mr. Attebery replied that they would not be covered. If the committees meet and take action,

then they have it covered and they will need to meet every 30 days with new dates and findings if necessary.

Secretary Kris Balaji asked if any harm in enacting this resolution today? Mr. Attebery replied he doesn't see any risk in deciding today or waiting until December.

Motion:

Director Ward moved and Director Flinn seconded the 2nd option and to continue to the next regular scheduled meeting. The motion passed unanimously.

IV. Public Comments

None.

V Meeting Adjourned

Next regular meeting December 8, 2021

Submitted by: Sally Perez, San Joaquin County

Eastern San Joaquin Groundwater Authority Board of Directors Poll call September 30, 2021

Alternate Director Alternate Director Last Agency Name First Last First Jeremiah 🏾 Mecham Cal Water Dante Nomellini Central Delta Water Agency George Biagi, Jr. Central San Joaquin Water **Conservation District** Grant Thompson Reid Roberts ¢ City of Lodi Alan Nakanishi Charlie Swimley ø David Breitenbucher City of Manteca Lytle Dan Wright Mel Paul Canepa City of Stockton Russ Eastside San Joaquin GSA Thomas Walter ٥ Ward Linden County Water District Salzman Lockeford Community Services Joseph Eric Schmid District Mike ٥, Henry North San Joaquin Water **Conservation District** Tom ê Flinn Joe Valente Thorburn, P.E. Oakdale Irrigation District Eric Ø John Herrick, Esq. Robinson South Delta Water Agency Jerry South San Joaquin Groundwater Brandon 🧶 Nakagawa Holmes Sustainability Agency Robert Woodbridge Irrigation District Andy Christensen San Joaquin County Public Works Secretary (1) Kris 🗞 Balaji Stockton East Water District Vice Chair (2) Melvin 👩 | Panizza Andrew 💿 Watkins San Joaquin County Chairman (3) Not And the Chuck Winn Kathy Miller

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Eastern San Joaquin Groundwater Authority Board of Directors

September 30, 2021						
	Director	Director		Alternate	Alternate	
Agency Name	First	Last		First	Last	
Cal Water	Jeremiah 🕷	Mecham	Y			
Central Delta Water Agency	George	Biagi, Jr.		Dante	Nomellini	
Central San Joaquin Water Conservation District	Grant	Thompson		Reid 💧	Roberts	N
City of Lodi	Alan 🔹	Nakanishi	$ \mathbf{y} $	Charlie 🖁	Swimley	Y
City of Manteca	David 🕷	Breitenbuch	er Y			
City of Stockton	Dan	Wright		Mel Paul	Lytle Canepa	
Eastside San Joaquin GSA	Russ	Thomas		Walter	Ward	¥.
Linden County Water District						
Lockeford Community Services District	Mike 💧	Henry	M	Joseph Eric	Salzman Schmid	
North San Joaquin Water Conservation District	Tom 🏾 🕸	Flinn	Y	Joe	Valente	
Oakdale Irrigation District	Eric 🏾 🕸	Thorburn, P.	Е. \			
South Delta Water Agency	John	Herrick, Esq.		Jerry	Robinson	
South San Joaquin Groundwater Sustainability Agency	Robert	Holmes		Brandon 👔	Nakagawa	Y
Woodbridge Irrigation District	Andy	Christensen				2
San Joaquin County Public Works Secretary (1)	Kris 👂	Balaji	\mathbf{A}			
Stockton East Water District Vice Chair (2)	Melvin 🔹	Panizza		Andrew	Watkins	
San Joaquin County Chairman (3)	Chuck	Winn		Kathy	Miller	



MEMBER SIGN-IN SHEET

Location: <u>Teleconference Call Only</u> Date: <u>9/30/2021</u> Time: <u>9:30 AM</u>

INITIAL	Member's Name	GSA	Phone	Email
<u> </u>	Jeremiah Mecham	Cal Water Member		jmecham@calwater.com
	George Biagi, Jr.	Central Delta Water Agency Member	209-481-5201	gbiagi@deltabluegrass.com
	Dante Nomellini	Central Deita Water Agency Alternate	209-465-5883	ngmplcs@pacbell.net
	Grant Thompson	Central San Joaquin Water Conservation District Member	209-639-1580	gtom@velociter.net
RP)	Reid Roberts	Central San Joaquin Water Conservation District Alternate	209-941-8714	reidwroberts@gmail.com
AK.	Alan Nakanishi	City of Lodi Member	209-333-6702	anakanishi@lodi.gov
<u>(</u> \$	Charlie Swimley	City of Lodi Alternate	209-333-6706	cswimley@lodi.gov
(M)	David Breitenbucher	City of Manteca Member	209-456-8017	dbreitenbucher@ci.manteca.ca.us
		City of Manteca Alternate		
	Dan Wright	City of Stockton Member	209-937-5614	Dan.Wright@stocktonca.gov
	Paul Canepa	City of Stockton Alternate	209-603-7091	Paul.Canepa@stocktonca.gov
	Mel Lytle	City of Stockton Alternate	209-	Mel.Lytle@stocktonca.gov
	Russ Thomas	Eastside San Joaquin GSA Member	209-480-8968	rthomasccwd@hotmail.com
Will	Walter Ward	Eastside San Joaquin GSA Alternate	209-525-6710	wward@envres.org



OTHER INTERSTED PARTIES - SIGN-IN SHEET

Location: <u>Teleconference Call Only</u> Date: <u>9/30/2021</u> Time: <u>9:30 AM</u>

INITIAL	Member's Name	Organization	Phone	Email
	David Breitenhucher	Guest		
	Elba M.	Gruest		
	Gric Morburn	Guust		
	Lis Malue	Guest		
	Jer emich Mechian	outside of org.		
	Mike Henry	Guest		
	Schungtz, Granild	outsile of org.		
	Scott Moody	Guest		
	Shinh, Steven	Guest (EHD)		
	Spier, Chelisa	Duil-		
	Attelsen Pol	butsele of mg.		
	Balaji Kris	(PW)		
	Buchman Fritz	(PW) Director		
	Connehn Alicie	PW		
<u> </u>	Company Tose	RJ		

Coronado Jose PW

INITIAL	Member's Name	Organization	Phone	Email
	Kris Balaji	San Joaquin County	468-3100	kbalaji@sjgov.org
TB	Fritz Buchman	San Joaquin County	468-3034	fbuchman@sjgov.org
INT)	Matt Zidar	San Joaquin County	953-7460	mzidar@sjgov.org
<u>G</u>	Glenn Prasad	San Joaquin County	468-3089	grasad@sjgov.org
Ŵ	Alicia Connelly	San Joaquin County	468-3531	aconnelly@sjgov.org
	Kristy Smith	San Joaquin County	468-0219	kmsmith@sjgov.org
Lb.	Rod Attebery	Neumiller & Beardslee / Legal Counsel	948-8200	rattebery@neumiller.com
R	Sally Perez	San Joaquin County	953-7948	sperez@sjgov.org

BEFORE THE BOARD OF DIRECTORS OF EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

RESOLUTION

R-21-##

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY (ESJGWA) DETERMINING TO CONDUCT MEETINGS OF THE ESJGWA BOARD OF DIRECTORS USING TELECONFERENCING PURSUANT TO GOVERNMENT CODE 54953 AS AMENDED BY AB 361 FOR THE PERIOD DECEMBER 8, 2021 TO JANUARY 7, 2021.

WHEREAS, the Eastern San Joaquin Groundwater Authority (the "Authority") Board of Directors (the "Board") is committed to preserving and nurturing public access and participation in meetings of the Board of Directors; and

WHEREAS, all meetings the Authority's legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963) (the "Brown Act"), so thatany member of the public may attend, participate, and watch the Authority's legislative bodies conduct their business; and

WHEREAS, the Brown Act, Government Code section 54953(e), as amended by AB 361 (2021), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, on March 4, 2020, the Governor proclaimed a State of Emergency to exist in California as a result of the threat of COVID-19; and

WHEREAS, Cal-OSHA adopted emergency regulations (Section 3205) imposing requirements on California employers, including measures to promote social distancing; and

WHEREAS, an Order of the San Joaquin County Public Health Officer acknowledges that close contact to other persons increases the risk of transmission of COVID-19; and

WHEREAS, currently the dominant strain of COVID-19 in the country, is more transmissible than prior variants of the virus, may cause more severe illness, and that even fully

vaccinated individuals can spread the virus to others resulting in rapid and alarming rates of COVID-19 cases and hospitalizations, therefore, meeting in person would present imminent risks to the health or safety of attendees.

NOW, THEREFORE, BE IT RESOLVED by the Board as follows:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Finding of Imminent Risk to Health or Safety of Attendees. The Board hereby finds that the circumstances of the current State of Emergency proclaimed by the Governor on March 4, 2020, and finds that the current dominant strain of COVID-19 in the country, is more transmissible than prior variants of the virus, may cause more severe illness, and that even fully vaccinated individuals can spread the virus to others resulting in rapid and alarming rates of COVID-19 cases and hospitalizations has caused, and will continue to cause, conditions of peril to the safety of persons, thereby presenting an imminent risk to health and/or safety to the Authority's staff and attendees of the Authority's public meetings; and

Section 3. Teleconference Meetings. The Board does hereby determines as a result of the State of Emergency proclaimed by the Governor, and the recommended measures to promote social distancing made by State and local officials that the Board may conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e)(1)(A) and (B) of section 54953, and shall comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

Section 4. Direction to Staff. The Authority staff are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 5. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED_____, by the following vote of the Board of Directors of the Eastern San Joaquin Groundwater Authority, to wit:

AYES:

NOES:

ABSENT:



CALIFORNIA DEPARTMENT OF WATER RESOURCES SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE 901 P Street, Room 313-B | Sacramento, CA 95814 | P.O. Box 942836 | Sacramento, CA 94236-0001

November 18, 2021

Kris Balaji, PMP, P.E. Eastern San Joaquin Subbasin Plan Administrator 1810 E. Hazelton Avenue, Stockton, CA 95201 kbalaji@sjgov.org

RE: Eastern San Joaquin Subbasin - 2020 Groundwater Sustainability Plan

Dear Kris Balaji,

The Eastern San Joaquin Groundwater Authority submitted the Eastern San Joaquin Groundwater Subbasin (Subbasin) Groundwater Sustainability Plan (GSP) to the Department of Water Resources (Department) for evaluation and assessment as required by the Sustainable Groundwater Management Act (SGMA).¹

Department staff have substantially completed an initial review of the GSP and have identified potential deficiencies (see the enclosed document) which may preclude the Department's approval.² Department staff have also developed potential corrective actions³ for each potential deficiency. The potential deficiencies do not necessarily represent all deficiencies or discrepancies that the Department may identify in the GSP but focus on those deficiencies that staff believe, if not addressed, could lead to a determination that the GSP is incomplete or inadequate.⁴ This letter initiates consultation between the Department, the Plan Manager, and the Subbasin's 15 groundwater sustainability agencies (GSAs) regarding the amount of time needed to address the potential deficiencies and corrective actions. The Department will issue a final determination as described under the GSP Regulations⁵ no later than January 29, 2022.

If the Department determines the GSP to be incomplete, the deficiencies precluding approval would need to be addressed within a period not to exceed 180 days from the

⁵ 23 CCR Division 2, Chapter 1.5, Subchapter 2.

¹ Water Code § 10720 et seq.

² 23 CCR § 355.2(e)(2).

³ 23 CCR § 355.2(e)(2)(B).

⁴ The Department recognizes that litigation regarding the GSP has been filed. The filing of litigation does not alter or affect the Department's mandate to issue its final assessment of the Agency's groundwater sustainability plan (GSP or Plan) for the basin within two years of its submission. (Water Code §10733.4(d).) Furthermore, the Department's assessment will consist of a technical review of the submitted Plan, as required by SGMA and the GSP Regulations, and the filing of the litigation did not in any way influence or affect the Department's evaluation of the Plan. The Department expresses no opinion on the claims of the parties in the pending litigation involving the GSP.

determination. A determination of incomplete would allow the GSAs to formally address identified deficiencies and submit a revised GSP to the Department for further review and evaluation. Department staff will contact you before making the final determination to discuss the potential deficiencies and the amount of time needed by the GSAs to address the potential corrective actions detailed in the enclosed document.

Materials submitted to the Department to address deficiencies must be part of the GSP. The GSAs must justify that any materials submitted are part of the revised GSP; this justification is also part of the submittal. To facilitate the Department's review of the revised GSP, the GSAs should also provide a companion document with tracked changes of modifications made to address deficiencies. The GSAs must submit the revised GSP through the DWR SGMA Portal where, as is currently available, interested parties may provide comments on submitted materials to the Department.

Department staff will work expeditiously to review materials submitted to address deficiencies and to evaluate compliance of the revised GSP. The Department will keep a GSP status designated as incomplete during its review of the submitted materials. The Department could subsequently approve an incomplete GSP if the GSAs have taken corrective actions to address deficiencies identified by the Department within a period not to exceed 180 days from the determination. The Department could also issue a determination of inadequate for an incomplete GSP if the Department, after consultation with the State Water Resources Control Board, determines the GSAs have not taken sufficient actions to correct the deficiencies identified by the Department.

If you have any questions, please do not hesitate to contact the Sustainable Groundwater Management Office staff by emailing <u>sgmps@water.ca.gov</u>.

Thank you,

Paul Gosselin

Paul Gosselin Deputy Director for Sustainable Groundwater Management

Enclosure:

1. Potential Deficiencies and Corrective Actions

2020 Groundwater Sustainability Plan Eastern San Joaquin Subbasin (Basin No. 5-022.01)

Potential Deficiencies and Corrective Actions

Department of Water Resources (Department) staff have identified deficiencies regarding the Eastern San Joaquin Subbasin (Subbasin) Groundwater Sustainability Plan (GSP) that may preclude the Department's approval. Therefore, consistent with the GSP Regulations, Department staff are considering corrective actions the Subbasin's groundwater sustainability agencies (GSAs) should review to determine whether and how the deficiencies can be addressed. The deficiencies and potential corrective actions are explained below, including the general regulatory background, the specific deficiencies identified in the GSP, and specific actions to address the deficiencies. The specific actions identified are potential corrective actions until the Department makes a final determination.

General Background

Potential deficiencies identified in the Eastern San Joaquin Subbasin GSP relate to the development and documentation of sustainable management criteria, including undesirable results and minimum thresholds that define when undesirable results may occur.

The Department's GSP Regulations describe several required elements of a GSP under the heading of "Sustainable Management Criteria"⁶, including undesirable results, minimum thresholds, and measurable objectives. These components of sustainable management criteria must be quantified so that GSAs, the Department, and other interested parties can monitor progress towards sustainability in a basin consistently and objectively.

A GSA relies on local experience, public outreach and involvement, and information about the basin it has described in the GSP basin setting (i.e., the hydrogeologic conceptual model, the description of current and historical groundwater conditions, and the water budget), among other factors, to develop criteria for defining undesirable results and setting minimum thresholds and measurable objectives.⁷

The Sustainable Groundwater Management Act (SGMA) defines sustainable groundwater management as the management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results.⁸ Avoidance of undesirable results is thus explicitly part of sustainable groundwater management as established by SGMA and critical to the success of a GSP.

The definition of undesirable results is critical to establishing an objective method to define and measure sustainability for a basin. As an initial matter, SGMA provides a

⁶ 23 CCR § Article 5, Subarticle 3.

⁷ 23 CCR §§ 354.8, 354.10, 354.12 et seq.

⁸ Water Code § 10721(v).

qualitative definition of undesirable results as "one or more" of six specific "effects caused by groundwater conditions occurring throughout the basin."⁹

GSAs define, in their GSPs, the specific significant and unreasonable effects that would constitute undesirable results and the groundwater conditions that would produce those results in their basins.¹⁰ The GSAs' definition must include a description of the processes and criteria relied upon to define undesirable results and describe the effect of undesirable results on the beneficial uses and users of groundwater, surface land uses (for subsidence), and surface water (for interconnected surface water).¹¹

SGMA leaves the task of establishing undesirable results and setting thresholds largely to the discretion of the GSAs, subject to review by the Department. In its review, the Department requires a thorough and reasonable analysis of the groundwater conditions and the associated effects the GSAs must manage the groundwater basin to avoid, and the GSAs' stated rationale for setting objective and quantitative sustainable management criteria to prevent those undesirable conditions from occurring.¹² If a GSP does not meet this requirement, the Department cannot evaluate the GSAs' likelihood of achieving their sustainability goal. That does not necessarily mean that the GSP or its objectives are inherently unreasonable; rather, the Department cannot evaluate whether the GSP's implementation would successfully achieve sustainable management if it is unclear what undesirable conditions the GSAs seek to avoid.

Potential Deficiency 1. The GSP lacks sufficient justification for identifying that undesirable results for chronic lowering of groundwater levels, subsidence, and depletion of interconnected surface waters can only occur in consecutive non-dry water year types. The GSP also lacks sufficient explanation for its chronic lowering of groundwater levels minimum thresholds and undesirable results.

The first potential deficiency relates to the GSP's requirement of two consecutive non-dry (i.e., below normal, above normal, or wet) water-year types and the exclusion of dry and critically dry water-year types in the identification of undesirable results for chronic lowering of groundwater levels, and, by proxy, land subsidence and depletions of interconnected surface water.

Background

Related to this potential deficiency, SGMA defines the term "Undesirable Result," in part, as one or more of the following effects caused by groundwater conditions occurring throughout the basin:¹³

¹⁰ California Department of Water Resources, Best Management Practices for the Sustainable Management of Groundwater: Sustainable Management Criteria (Draft), November 2017.

¹¹ 23 CCR §§ 354.26(b), 354.28(c)(5), 354.28(c)(6).

¹² 23 CCR § 355.4(b)(1).

⁹ Water Code § 10721(x).

¹³ Water Code § 10721(x).

- Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. Overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods.
- Significant and unreasonable land subsidence that substantially interferes with surface land uses.
- Depletions of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water.

Potential Deficiency Details

Department staff identified two areas of concern, described below, which, if not addressed, may preclude approval of the GSP. Regarding the first area of concern, the GSP identifies that an undesirable result occurs "when at least 25 percent of representative monitoring wells used to monitor groundwater levels (5 of 20 wells in the Subbasin) fall below their minimum level thresholds for two consecutive years that are categorized as non-dry years (below-normal, above-normal, or wet), according to the San Joaquin Valley Water Year Hydrologic Classification." The GSP further states that "the lowering of groundwater levels during consecutive dry or critically-dry years is not considered to be unreasonable, and would therefore not be considered an undesirable result, unless the levels do not rebound to above the thresholds following those consecutive non-dry years."¹⁴

Department staff find that the water-year type requirement in the definition of the undesirable result for chronic lowering of groundwater levels (i.e., two consecutive nondry years) is not consistent with the intent of SGMA. The water-year type requirement could potentially allow for unmanaged and continued lowering of groundwater levels under certain hydrologic or climatic conditions that have occurred historically. A review of historical San Joaquin Valley water-year type classifications¹⁵ indicates the potential for dry periods without the occurrence of a second consecutive non-dry year to persist for greater than ten years (see, e.g., the 11 years from water years 1985 through 1995). Department staff also note that concurrent below normal, above normal, or wet years occurred in only five of the last twenty water years from 2001 through 2020. Because of this definition, GSAs in the Subbasin could disregard potential impacts of groundwater level declines below the minimum thresholds during extended periods of dry years, even if interrupted by normal or wet years.

¹⁴ ESJ GSP, p. 253.

¹⁵ Chronological Reconstructed Sacramento and San Joaquin Valley Water Year Hydrologic Classification Indices, Water Year 1901 through 2020. California Department of Water Resources, <u>https://cdec.water.ca.gov/reportapp/javareports?name=WSIHIST</u>.

Department staff also find this methodology inconsistent with other portions of the GSP. For example, while describing measurable objectives for groundwater levels, the GSP states, "the margin of operational flexibility is intended to accommodate droughts, climate change, conjunctive use operations, or other groundwater management activities. The margin of operational flexibility is defined as the difference between the minimum threshold and the measurable objective."¹⁶ Based on these statements, it appears the minimum thresholds already accommodate drought conditions, so it is unclear why the GSP's definition of undesirable results further excludes minimum threshold exceedances during dry water years. (See Potential Corrective Action 1a.)

SGMA states that "overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods."¹⁷ If the GSAs intended to incorporate this concept into their definition of the undesirable result for chronic lowering of groundwater levels, the GSP fails to identify specific extraction and groundwater recharge management actions the GSAs would implement¹⁸ or otherwise describe how the Subbasin would be managed to offset, by increases in groundwater levels or storage during other periods, dry year reductions of groundwater storage. The GSP identifies many projects that, once implemented, may lead to the elimination of long-term overdraft conditions in the Subbasin. However, the GSP does not sufficiently detail how projects and management actions, in conjunction with the proposed chronic lowering of groundwater levels sustainable management criteria, will offset drought-related groundwater reductions and avoid significant and unreasonable impacts when groundwater level minimum thresholds are potentially exceeded for an extended period in the absence of two consecutive non-dry years. (See Potential Corrective Action 1b.)

As noted above, the GSP states that minimum thresholds developed for chronic lowering of groundwater levels serve as proxies for subsidence¹⁹ and depletion of interconnected surface waters.²⁰ Therefore, Department staff assume the GSAs intend to apply the same water-year type criteria to undesirable results for those sustainability indicators (i.e., land subsidence or depletion of interconnected surface water undesirable results do not occur until groundwater levels exceed the thresholds for two consecutive non-dry water years). However, where SGMA acknowledges that groundwater level declines during drought periods are not sufficient to cause an undesirable result for chronic lowering of groundwater levels, the statute does not similarly provide an exception for subsidence or stream depletion during periods of drought. (See Potential Corrective Action 1c.)

¹⁶ ESJ GSP, p. 259.

¹⁷ Water Code § 10721(x)(1).

¹⁸ 23 CCR § 354.44(b)(9).

¹⁹ ESJ GSP, p. 270.

²⁰ ESJ GSP, p. 271.

Department staff's second area of concern is the GSP's evaluation of the effects of the proposed minimum thresholds and undesirable results on beneficial uses and users of groundwater. The GSP identifies that the chronic lowering of groundwater levels could cause undesirable results from wells going dry, reductions in pumping capacities, increased pumping costs, the need for deeper well installations or lowering of pumps, and adverse impacts to environmental uses and users.²¹ The GSP builds an analysis of domestic wells going dry into its minimum thresholds, thereby considering the factors of wells going dry and the need for deeper well installations. However, it does not address how the management criteria address the other factors identified by the GSAs as potential undesirable results, including reductions in pumping capacity or increased pumping costs for shallow groundwater users, or adverse impacts to environmental uses and users.

The GSAs set minimum thresholds in the Subbasin at the shallower of the 10th percentile domestic [or municipal] well depth or the historical low groundwater levels with a subtracted buffer value, which the GSP states allows for operational flexibility.²² These minimum threshold values generally allow groundwater levels to decline below historic lows; minimum thresholds defined using the buffer value approach allow twice the historical drawdown from the shallowest recorded groundwater levels.²³ Aside from the GSP's domestic well analysis, the only description of how minimum thresholds were evaluated to avoid undesirable results appears to be the statements that "for the majority of the Subbasin, GSA representatives identified no undesirable results, even if groundwater were to reach historical low groundwater levels" and that no GSA indicated undesirable results would occur "if the minimum threshold was set deeper than the [historic low] based on their understanding."²⁴ The GSP provides no further explanation or description of how the individual GSAs concluded that there would be no undesirable results based on the minimum thresholds.

The GSP only considers an undesirable result to occur for groundwater levels in the Subbasin when at least 25 percent of representative monitoring wells (5 of 20 wells) fall below their minimum threshold value for two consecutive non-dry water years.²⁵ The GSP does not justify or discuss how the GSAs developed the 25 percent threshold, nor does it explain or disclose the potential impacts anticipated during extended drier climate conditions using this threshold. In other words, the proposed management program may lead to potential effects on domestic wells or other beneficial uses and users during prolonged dry- or below-normal periods, and that information should, at a minimum, be disclosed and considered in the GSP. (See Potential Corrective Action 1d.)

If, after considering this potential deficiency, the GSAs retain minimum thresholds that allow for continued lowering of groundwater levels, it is reasonable to assume that some

²¹ ESJ GSP, p. 253.

²² ESJ GSP, p. 254.

²³ ESJ GSP, p. 258.

²⁴ ESJ GSP, p. 255.

²⁵ ESJ GSP, p. 253.

groundwater well impacts (e.g., loss of production capacity) will occur during the implementation of the GSP. SGMA requires GSAs to consider the interests of all groundwater uses and users and to implement their GSPs to mitigate overdraft conditions.²⁶ Implementing specific projects and management actions prevents undesirable results and achieves the sustainable yield of the basin. The GSAs should describe how projects and management actions would address drinking water impacts due to continued overdraft between the start of GSP implementation and the achievement of the sustainability goal. If the GSP does not include projects or management actions to address drinking water impacts, the GSP should contain a thorough discussion, with supporting facts and rationale, explaining how and why GSAs determined not to include actions to address those impacts from continued groundwater lowering below pre-SGMA levels. (See Potential Corrective Action 1e.)

Additionally, related to the groundwater level declines allowed for by the GSA's minimum thresholds, the GSAs have not explained how those groundwater level declines relate to the degradation of groundwater quality sustainability indicator. GSAs must describe, among other items, the relationship between minimum thresholds for a given sustainability indicator (in this case, chronic lowering of groundwater levels) and the other sustainability indicators.²⁷ The GSAs generally commit to monitoring a wide range of water quality constituents but they have only developed sustainable management criteria for total dissolved solids because they state they have not observed a causal nexus between groundwater management and degradation associated with the other constituents. While Department staff are not aware of evidence sufficient to conclude that the GSAs did not consider, or at least did not document, the potential for degradation to occur due to further lowering of groundwater levels beyond the historic lows. (See Potential Corrective Action 1f.)

Potential Corrective Action 1

- a) Department staff believe the management approach described in the GSP, which couples minimum thresholds and measurable objectives that account for operational flexibility during dry periods with a definition of undesirable results that disregards minimum threshold exceedances in all years except consecutive below normal, above normal, or wet years, to be inconsistent with the objectives of SGMA. Therefore, the GSAs should remove the water-year type requirement from the GSP's undesirable result definition.
- b) The GSP should be revised to include specific projects and management actions the GSAs would implement to offset drought-year groundwater level declines.
- c) The GSAs should thoroughly explain how their approach avoids undesirable results for subsidence and depletion of interconnected surface waters, as SGMA does not

²⁶ 23 CCR § 355.4(b)(4), 355.4(b)(6).

²⁷ 23 CCR § 354.28(b)(2).

include an allowance or exemption for those conditions to continue in periods of drought.

- d) Removing the water-year type requirement from the definition of an undesirable result (item a, above) would result in a GSP with groundwater level minimum thresholds designed to be generally protective of 90 percent of domestic wells regardless of regional hydrologic conditions. In that scenario, the GSAs should explain the rationale for determining that groundwater levels can exceed those thresholds at 25 percent of monitoring sites for two consecutive years before the effects would be considered significant and unreasonable. The GSAs should also explain how other factors they identified as "potential undesirable results" (e.g., adverse impacts to environmental uses and users) factored into selecting minimum thresholds and describe anticipated effects of the thresholds on beneficial uses and users of groundwater. Furthermore, the GSAs should explain whether other drinking water users that may rely on shallow wells, such as public water systems and state small water systems, were considered in the GSAs' site-specific thresholds. If not, the GSAs should conduct outreach with those users and incorporate their shallow wells, as applicable, into the site-specific minimum thresholds and measurable objectives.
- e) The GSAs should revise the GSP to describe how they would address drinking water impacts caused by continued overdraft during the period between the start of GSP implementation and achieving the sustainability goal. If the GSP does not include projects or management actions to address those impacts, the GSP should contain a thorough discussion, with supporting facts and rationale, explaining how and why the GSAs determined not to include specific actions to address drinking water impacts from continued groundwater lowering below pre-SGMA levels.
- f) The GSP should be revised to explain how the GSAs will assess groundwater quality degradation in areas where further groundwater level decline, below historic lows, is allowed via the minimum thresholds. The GSAs should further describe how they will coordinate with the appropriate groundwater users, including drinking water, environmental, and irrigation users as identified in the GSP. The GSAs should also discuss efforts to coordinate with water quality regulatory agencies and programs in the Subbasin to understand and develop a process for determining if continued lowering of groundwater levels is resulting in degraded water quality in the Subbasin during GSP implementation.

Potential Deficiency 2. The GSP does not provide enough information to support the use of the chronic lowering of groundwater level sustainable management criteria and representative monitoring network as a proxy for land subsidence.

Background

The GSP Regulations state that minimum thresholds for land subsidence should identify the rate and extent of subsidence that substantially interferes with surface land uses and may lead to undesirable results. These quantitative values should be supported by: ²⁸

- The identification of land uses or property interests potentially affected by land subsidence;
- An explanation of how impacts to those land uses or property interests were considered when establishing minimum thresholds;
- Maps or graphs showing the rates and extents of land subsidence defined by the minimum thresholds.

The GSP Regulations allow the use of groundwater elevations as a proxy for land subsidence. However, GSAs must demonstrate a significant correlation between groundwater levels and land subsidence and must demonstrate that groundwater level minimum thresholds represent a reasonable proxy for avoiding land subsidence undesirable results. Additionally, the GSAs must demonstrate how the monitoring network is adequate to identify undesirable results for both metrics.

Potential Deficiency Details

Department staff find that the GSP does not adequately identify or define minimum thresholds and undesirable results for land subsidence. The GSP also does not provide adequate justification and explanation for using the groundwater level minimum thresholds and representative monitoring network as a proxy for land subsidence.

Generally, the GSP identifies that irrecoverable loss of groundwater storage and damage to infrastructure, including water conveyance facilities and flood control facilities, are potential impacts of land subsidence.²⁹ However, the GSP does not identify specific infrastructure locations, particularly those associated with public safety, in the Subbasin and the rate and extent of subsidence that would substantially interfere with those land surface uses and may lead to undesirable results. Additionally, without identifying infrastructure considered at risk for interference from land subsidence, Department staff cannot evaluate whether the groundwater level representative monitoring network is adequate to detect potential subsidence-related impacts.

Department staff find the GSP does not provide adequate evidence to demonstrate a significant correlation between groundwater levels and land subsidence in the Subbasin.

²⁸ 23 CCR § 354.28(c)(5).

²⁹ ESJ GSP, p. 269.

Without explaining this correlation, the Department cannot evaluate whether the groundwater level minimum thresholds and associated conditions required for identifying an undesirable result would protect against significant and unreasonable impacts related to land subsidence. The GSP states a significant correlation exists between groundwater levels and land subsidence, with lowering groundwater levels driving further land subsidence.³⁰ Department staff agree with this general statement. However, the GSP fails to provide adequate evidence to evaluate further this correlation, specifically concerning potential subsidence caused by groundwater levels falling below historic lows, as would be allowed by the groundwater level minimum thresholds set in the GSP.

The GSP's justification for using the proposed groundwater level minimum thresholds as a proxy for land subsidence appears to rely mainly on an incomplete analysis and a data set with significant data gaps. The GSP states there are no historical records of significant and unreasonable land subsidence in the Subbasin.³¹ The GSP also states that there is a lack of direct land subsidence monitoring in the Subbasin.³² The GSP uses this absence of historical records to assert that historically dewatered geologic units are not compressible and, therefore, not at risk for land subsidence. Although groundwater level minimum thresholds are below historic lows, the GSP states that the GSAs do not expect further declines in groundwater levels to dewater materials deeper than 205 feet below ground surface (the deepest groundwater level minimum threshold value in the Subbasin).³³ The GSP states that subsurface materials encountered up to this depth are the same [non-compressible] geologic units that have been historically dewatered.

Department staff find multiple aspects of this justification speculative and not supported by the best available science. First, the GSP presents no analysis of historic groundwater levels or historically dewatered subsurface materials to support the conclusion that the geologic units are not compressible. Second, the GSP does not provide an evaluation showing how additional declines in groundwater levels would only affect subsurface materials similar to those which have been historically dewatered. Third, the GSP is unclear on whether the conditions required to identify an undesirable result for chronic lowering of groundwater levels in the Subbasin are also required to identify an undesirable result for land subsidence. Management proposed in the GSP could allow groundwater level minimum thresholds to be exceeded in periods where two consecutive non-dry years do not occur, which does not support the claim that only materials up to the deepest groundwater level minimum threshold (205 feet below ground surface) will be dewatered.

Department staff note that the legislature intended that implementation of SGMA would avoid or minimize subsidence³⁴ once GSAs achieve the sustainability goal for a basin. Without analysis examining how allowable groundwater levels below those historically

³⁰ ESJ GSP, p. 270.

³¹ ESJ GSP, p. 269.

³² ESJ GSP, p. 270.

³³ ESJ GSP, p. 270.

³⁴ Water Code § 10720.1(e).

experienced in the Subbasin may affect land subsidence, Department staff cannot determine if the GSP adequately avoids or minimizes land subsidence. While SGMA does not require prevention of all land subsidence, the GSP does not provide sufficient evidence to conclude that the proposed chronic lowering of groundwater level minimum thresholds are adequate to detect and avoid land subsidence undesirable results.

Potential Corrective Action 2

The GSAs must provide detailed information to demonstrate how the use of the chronic lowering of groundwater level minimum thresholds are sufficient as a proxy to detect and avoid significant and unreasonable land subsidence that substantially interferes with surface land uses. Alternatively, the GSAs could commit to utilizing direct monitoring for subsidence, e.g., with remotely sensed subsidence data provided by the Department. In that case, the GSAs should develop sustainable management criteria based on rates and extents of subsidence. Department staff suggest the GSAs consider and address the following issues:

- 1. The GSAs should revise the GSP to identify the total subsidence that critical infrastructure in the Subbasin can tolerate during GSP implementation. Support this identification with information on the effects of subsidence on land surface beneficial uses and users and the amount of subsidence that would substantially interfere with those uses and users.
- 2. The GSAs should revise the GSP to document a significant correlation between groundwater levels and specific amounts or rates of land subsidence. The analysis should account for potential subsidence related to groundwater level declines below historical lows and further declines that are allowed to exceed minimum thresholds (i.e., during non-consecutive non-dry years, if applicable based on the resolution to Potential Deficiency 1, above). This analysis should demonstrate that groundwater level declines allowed during GSP implementation are preventative of the rates and magnitudes of land subsidence considered significant and unreasonable based on the identified infrastructure of concern. If there is not sufficient data to establish a correlation, the GSAs should consider other options such as direct monitoring of land subsidence (e.g., remotely sensed data provided by the Department, extensometers, or GPS stations) until such time that the GSAs can establish a correlation.
- 3. The GSAs should explain how the groundwater level representative monitoring network is sufficient to detect significant and unreasonable subsidence that may substantially interfere with land uses, specifically any identified infrastructure of concern. If the groundwater level monitoring network alone is not adequate, based on specific infrastructure locations, Department staff suggest incorporating continued analysis of available InSAR data to cover areas with data gaps.



STAFF REPORT

December 2, 2021

To: TAC, Steering Committee and Board

From: Matt Zidar, Water Resources Manager

RE: Agreement A-20-1, Task Order No. 5 (Woodard Curran Inc.)

Date: December 2, 2021

Summary and Background

Agreement Number A-20-1, "Agreement for Consulting Services for the implementation of the Eastern Joaquin Subbasin Groundwater Sustainability Plan" (GSP), entered into February 12, 2020 ("Effective Date") by and between the Eastern San Joaquin Groundwater Authority (GWA) and Woodard & Curran, Inc. (W&C), allows for the issuance of Task Orders which identify the specific scope of work, schedule, budget and assigned staff for additional work to be performed under the Agreement. Task Order No. 5 to Agreement A-20-1 identifies the scope, schedule and budget. Pursuant to the GWA policy, the Director of Public Works, as Secretary to the GWA Board, can sign agreements for work where such items are in the adopted budget and with the concurrence of the Steering Committee.

Discussion

- A. Task Order No. 5 contains the following three components:
 - 1. Component 1: Water Year 2021 Annual Report (\$40k)

W&C will prepare and submit an annual report to the Department of Water Resources by April 1, 2022.

2. Component 2: Support for the Accounting Framework and Funding Alternatives (\$25k)

GWA is in the process of finalizing the water budgets for the Eastern San Joaquin Groundwater Subbasin. Additional modeling scenarios, and refinement of water budgets is likely since the development of the accounting framework and funding financing alternatives will require extensive discussion amongst GWA members. Under this component, W&C will provide as-needed modeling, and technical guidance to support the accounting framework and funding alternatives.

3. Component 3: Support for GSP Comments (\$25k)

DWR has completed their review of the Eastern San Joaquin Subbasin – 2020 Groundwater Sustainability Plan. W&C will assist the GWA in the preparation and submittal of GWA's response to DWR's Comment Letter. The exact level of effort for this component will be based on the intensity of discussion amongst all members of the GWA, the desire of the GWA to accept, acknowledge, or refute the comments, and W&C's technical involvement needed to address those comments, all of which is unknown at this time. W &C will assist GWA in updating the GSP as necessary, and addressing the deficiencies within 180 days from DWR's determination.

B. The total Not-to-Exceed amount for Task Order No. 5 will be \$90,000.

Recommendation

A. None – Informational only.

Agreement A-20-1 <u>Task Order No. 5</u> Groundwater Sustainability Plan Implementation Services

Agreement Number A-20-1, "Agreement for Consulting Services for the implementation of the Eastern Joaquin Subbasin Groundwater Sustainability Plan" (GSP), entered into February 12, 2020 ("Effective Date") by and between the Eastern San Joaquin Groundwater Authority (GWA) and Woodard & Curran, Inc. (W&C), allows for the issuance of Task Orders which identify the specific scope of work, schedule, budget and assigned staff for additional work to be performed under the Agreement. This Task Order No. 5 to Agreement A-20-1 identifies the scope, schedule and budget; and further acts as a Notice to Proceed for a portion of the work described herein. This work is funded by the East San Joaquin Groundwater Authority (GWA)¹.

Task Order No. 5 Scope of Work

This Task Order No. 5 contains the following work components to support continued GSP implementation:

- Component 1: Water Year 2021 Annual Report
- Component 2: Support for the Accounting Framework and Funding Alternatives
- Component 3: Support for GSP Comments

Component 1: Water Year 2021 Annual Report

W&C will prepare and submit an annual report to the Department of Water Resources by April 1, 2022. W&C shall complete the Water Year 2021 Annual Report as specified in **Exhibit A**.

Component 2: Support for Accounting Framework and Funding Alternatives

GWA is in the process of finalizing the water budgets for the Eastern San Joaquin Groundwater Subbasin. These budgets will be used to develop an accounting framework, which will then aide in the preparation of funding/ financing options. The GWA has retained W&C to complete and deliver the baseline water budgets under Task Order No. 4. GWA has also retained another consultant to complete the accounting framework and prepare funding/ financing options. A portion of the latter two activities is going to be facilitated through the Department of Water Resources (Facilitation Support Services Grant).

Additional modeling scenarios, and refinement of water budgets is likely since the development of the accounting framework and funding financing alternatives will require extensive discussion amongst GWA members. Under this component, W&C will provide as-needed modeling, and technical guidance to support the accounting framework and funding alternatives.

Component 3: Support for GSP Comments

DWR has completed their review of the Eastern San Joaquin Subbasin – 2020 Groundwater Sustainability Pla. DWR has identified deficiencies within the GSP, which if not addressed may result in DWR's determination of the GSP as "incomplete." A determination of incomplete allows GWA to formally address identified deficiencies and submit a revised GSP to the Department for further review and evaluation.

¹ Public Works Water Resources Job Number 750236 for staff & consultant costs grant activities that support the ESJGWA GSP implementation.

W&C will assist the GWA in the preparation and submittal of GWA's response to DWR's Comment Letter identified in **Exhibit B**. The exact level of effort for this component will be based on the intensity of discussion amongst all members of the GWA, the desire of the GWA to accept, acknowledge, or refute the comments, and W&C's technical involvement needed to address those comments, all of which is unknown at this time.

W&C will facilitate discussion with the GWA, and will laisse with DWR as needed to develop a draft set of comments for GWA's consideration and acceptance. A final set of comments will be delivered to GWA and will be submitted to DWR upon GWA's approval.

Following the GWA's comments, W&C will assist GWA in updating the GSP as necessary, and addressing the deficiencies within 180 days from DWR's determination.

BUDGET AND SCHEDULE

Provided below is the estimated fee corresponding to the Components. The combined Not-to-Exceed (NTE) amount for Task Order No. 5 shall be \$90,000.

- Component 1: Water Year 2021 Annual Report (\$40,000)
- Component 2: Support for the Accounting Framework and Funding Alternatives (\$25,000)
- Component 3: Support for GSP Comments (\$25,000)

The Project will begin in December 2021 and is anticipated to run for approximately 7 months, with work to be completed by June 30, 2022. This time frame can be extended in writing if needed, and this Task Order No. 5 shall officially terminate upon completion of the work described herein. The current capacity and summary of task orders and work assigned to date is shown in Table 1.

Table 1- Professional Services (WC A-20-01)	Task Order Amount	A-20-1 Contract NTE
A-20-1 Original (TO 1). 2020 Annual Report, GWA support	\$162,000	\$162,000
TO 2 DMS Implementation, Monitoring Network Expansion & Well Drilling 1 (Engineering)	\$275,000	\$437,000
TO 3 2021 Annual Report	\$49,924	\$486,924
TO 4 Model Develop & Support	\$130,000	\$616,924
TO 5 GSP Implementation Services	\$90,000	\$706,924

Notice to Proceed for the Task Order No. 5 Scope of Work

This serves as the Notice to Proceed for the identified Task Order No. 5 Scope of Work defined herein and Consultant is to commence work no later than December 9, 2021.

Kris Balaji Secretary GWA Date:_____

Ali Taghavi Senior Vice President Woodard & Curran, Inc. Date: _____

APPROVED AS TO FORM:

Rod Attebery, GWA General Counsel

COMMITMENT & INTEGRITY DRIVE RESULTS

801 T Street Sacramento California 95811 www.woodardcurran.com

EXHIBIT A

T 800.426.4262 T 916.999.8700 F 916.999.8701

October 26, 2021

Glenn Prasad San Joaquin County Department of Public Works 1810 East Hazelton Ave Stockton, CA 95205

Re: Proposal to Prepare WY 2021 Annual Report for the Eastern San Joaquin Groundwater Subbasin

Dear Mr. Prasad:

Via Electronic Mail

Woodard & Curran is pleased to present the following proposal for preparing the Water Year (WY) 2021 Annual Report for the Eastern San Joaquin Groundwater Subbasin. Our proposed scope of work for completing the required annual report is as follows.

Water Year 2021 Annual Report

Under Water Code Section 10733.2, DWR was required to draft and adopt emergency regulations for the evaluation and implementation of GSPs. The emergency regulations adopted by the California Water Commission spell out what is required in a GSP, and Article 7 covers Annual Reports and Periodic Evaluations by the Agency and describes the procedural and substantive requirements for the annual reports. Each GSA, or the ESJGWA, is required to submit an annual report to the Department by April 1 of each year following the adoption of the Plan (§ 356.2. Annual Reports). The annual report must include the following components for the preceding water year:

(a) General information, including an executive summary and a location map depicting the basin covered by the report.

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(1) Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:

A. *Groundwater elevation contour maps* for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.

B. *Hydrographs of groundwater elevations* and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.

(2) *Groundwater extraction for the preceding water year*. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.

(3) *Surface water supply used or available for use, for groundwater recharge or in-lieu use* shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.





(4) *Total water use* shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.

(5) *Change in groundwater in storage* shall include the following:

(A) Change in groundwater in storage maps for each principal aquifer in the basin.

(B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.

(c) A *description of progress* towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.

The third annual report for the ESJ Subbasin GSP will be due on April 1, 2022. Per California Code of Regulations §356.2 (SGMA regulations), annual reports must include three key sections: 1) General Information, 2) Basin Conditions, and 3) Plan Implementation Progress. Tasks to complete the Annual Report are detailed below.

Task 1 – Collect, Compile, and Analyze Data

The Basin Conditions section of the annual report will describe the current groundwater conditions and monitoring results, described further in the bullets below. Woodard & Curran will work with the County to develop a list of each necessary dataset, the responsible GSA, and due dates for data. Data will be compiled and reviewed for basic quality control (e.g., duplicate data or flagging data expected to have errors). Groundwater elevation and groundwater quality data will be compiled and imported into the ESJ Subbasin Data Management System (DMS) in Task 2. Additionally, Woodard & Curran will update the historical ESJWRM model to extend the hydrologic period to Water Year 2021 to support the estimation of data for the Annual Report. This is further explained in Task 3.

Data will be analyzed and presented for each data type as follows:

- Groundwater Elevation
 - Woodard & Curran will obtain groundwater elevation data compiled from the County and the GSAs for monitoring Spring and Fall 2021 groundwater levels and develop groundwater elevation contour maps for the principal aquifer that illustrates seasonal high and seasonal low groundwater conditions for WY2021.
 - Hydrographs will also be generated for each representative monitoring well, showing available historical groundwater elevations through WY2021 with reference to water year type.
- Groundwater Extraction
 - The WY2021 historical ESJWRM model will be used to estimate the agricultural groundwater extraction. Groundwater extraction by municipalities will be collected from the GSAs and analyzed by Woodard & Curran for inclusion in the model.

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• Surface Water Supply and Use



- WY2021 surface water diversion data will be collected from the GSAs and analyzed by Woodard & Curran for inclusion in the model. Surface water use data will be estimated consistent with the parameters (e.g., recoverable and non-recoverable losses), as well as delivery areas in the calibrated model.
- Total Water Use
 - Total water use will be estimated using the results from the updated historical model and will include estimated groundwater extraction and surface water use data and summarized by water use sector and water source type. The measurement method and accuracy of measurements will be documented per the source of data, method of analysis using the model, as required by DWR.
- Annual Water Budget and Change in Groundwater Storage
 - The updated historical model (ESJWRM) will be used to establish a water budget for WY2021. The model update will be as described in Task 3.
 - The updated historical model (ESJWRM) will be used to estimate change in groundwater in storage for the principal aquifer. A map will be generated to show the location of change in storage, as well as graphical figures showing year type, groundwater use, the annual change in groundwater in storage, and the historical cumulative change in groundwater in storage from 1995 through WY2021.

Task 2 – Update ESJ Subbasin Data Management System

This task includes time spent making the following updates to the ESJ Subbasin DMS.

Input data received for Annual Report in template format

Task 3 – Update ESJWRM Model for Annual Report Requirements

Woodard & Curran will update the ESJWRM model through WY2021. Note that this task does not include updating the historical model calibration. The model update includes:

- Extend precipitation data for WY2021
- Extend streamflow data for WY2021
- Update of population record and unit water use for municipalities for WY2021 if available
- Update surface water delivery model input for WY2021 data from agricultural entities and municipalities
- Update groundwater pumping input data for WY2021 data from municipalities

The resulting ESJWRM simulation period will be through WY2021. This updated model will provide the following information:

- Estimates of agricultural water demand for WY2021
- Estimates of urban water demand for WY2021
- Surface water delivery for WY2021
- Estimate of groundwater pumping for WY2021
- Estimate of groundwater storage change from WY2020 to WY 2021

- WOODARD
- Simulated groundwater levels in contour map as well as monthly trends in simulated groundwater level at the model calibration wells.

Task 3 Assumptions:

The San Joaquin County will be responsible for coordination with the GSAs for the collection of all required data for WY2021, for input to the model, as follows:

- Surface water diversion data by each agricultural entity
- Surface water diversion data by each municipality
- Groundwater extraction data for each well and for each municipality
- Population records for each municipality
- If data requested does not come in Woodard & Curran will use the latest year information available and will extrapolate with reasonable water year assumptions.

Task .4 – Document Plan Implementation Progress

The Plan Implementation section of the annual report will describe the progress made towards achieving interim milestones as well as implementation of projects and management actions. Woodard & Curran will work with the GSAs to evaluate and report on the progress towards implementing the GSP, including the status of the shortlisted projects and ongoing development of management actions. Shortlisted projects will be summarized in tabular format. Management actions will be summarized in paragraph form.

Task 5 – Prepare Annual Report

The results of Tasks 1 through 4 will be used to develop the WY2021 Annual Report, including an executive summary that highlights the key content of the annual report. The following sections will be included:

- 1. Executive Summary
- 2. Introduction
- 3. Basin Setting
 - a. Groundwater Elevations
 - b. Groundwater Extractions
 - c. Surface Water Supply
 - d. Total Water Use
 - e. Change in Groundwater Storage
- 4. Plan Implementation Progress
- 5. References

A Draft Report will be prepared for review by the GSAs. Comments will be incorporated into a Final Report which will be distributed electronically (PDF). Woodard & Curran will also provide the GSAs a copy of the digital files for supporting data, such as Excel spreadsheets and GIS maps/shapefiles.

Deliverable(s):

• Draft and Final Annual Report (PDF form only)

BUDGET AND SCHEDULE



We have provided a scope of services, detailed above, that covers all required activities for completing the WY2021 Annual Report. Based on our experiences preparing last year's (WY2020) Annual Report, we have estimated that it will cost approximately \$50,000. However, with recent updates to the groundwater flow model in support of the allocation framework project and recent improvements to the Subbasin's Data Management System (DMS), it is possible that this effort may cost less. As such, all efforts will be billed monthly on a time and materials basis. We will start work on the Annual Report following receipt of Notice to Proceed (NTP), with the Annual Report completed and submitted to DWR by April 1, 2022.

We greatly appreciate this opportunity to continue supporting San Joaquin County and the GSAs of the Eastern San Joaquin Groundwater Subbasin in their GSP implementation. Please feel free to call me at (916) 999-8700 if you have any questions regarding this proposal or require any further information.

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Sincerely,

WOODARD & CURRAN, INC.

li Dumar

Leslie Dumas, PE Project Manager



Fee Estimate

ESJ Groundwater Authority ESJ Subbasin WY2021 Annual Report

Tasks	Labor					ODCs		Total					
	Ali Taghavi	Leslie Dumas	Jeanna Long	Sara Miller	Lindsay Martien	Vanessa De Anda	Emily Honn	Admin.	Total Hours	Total Labor	ODCs	Total ODCs	Total
	PIC	PM	DMS	PE	PE	PE	PE	Graphics and Support Team	Cos	Costs (1)		(3)	Fee
	\$324	\$324	\$298	\$234	\$224	\$198	\$198	\$136					
Task 1: WY2021 Annual Report													
1.1 Collect, Compile and Analyze Data		4	4	8	4	20	8		48	\$10,800		\$0	\$10,800
1.2 Update ESJ Subbasin Data Management System			8			4			12	\$3,176		\$0	\$3,176
1.3 Update ESJWRM Model for Annual Report Requirments	4			16			40		60	\$12,960		\$0	\$12,960
1.4 Document Plan Implementation Progress		2				4			6	\$1,440		\$0	\$1,440
1.5 Prepare Annual Report	4	24	2	4	4	40	8	4	90	\$21,548		\$0	\$21,548
Subtotal Task 1:	8	30	14	28	8	68	56	4	216	\$49,924	\$0	\$0	\$49,924
TOTAL	8	30	14	28	8	68	56	4	216	\$49,924	\$0	\$0	\$49,924

The individual hourly rates include salary, overhead and profit.
 Subconsultants will be billed at actual cost plus 10%.
 Other direct costs (ODCs) such as reproduction, delivery, mileage (rates will be those allowed by current IRS guidelines), and travel expenses, will be billed at actual cost plus 10%.
 RMC reserves the right to adjust its hourly rate structure and ODC markup at the beginning of the calendar year for all ongoing contracts.



CALIFORNIA DEPARTMENT OF WATER RESOURCES SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE

901 P Street, Room 313-B | Sacramento, CA 95814 | P.O. Box 942836 | Sacramento, CA 94236-0001

November 18, 2021



Kris Balaji, PMP, P.E. Eastern San Joaquin Subbasin Plan Administrator 1810 E. Hazelton Avenue, Stockton, CA 95201 kbalaji@sjgov.org

RE: Eastern San Joaquin Subbasin - 2020 Groundwater Sustainability Plan

Dear Kris Balaji,

The Eastern San Joaquin Groundwater Authority submitted the Eastern San Joaquin Groundwater Subbasin (Subbasin) Groundwater Sustainability Plan (GSP) to the Department of Water Resources (Department) for evaluation and assessment as required by the Sustainable Groundwater Management Act (SGMA).¹

Department staff have substantially completed an initial review of the GSP and have identified potential deficiencies (see the enclosed document) which may preclude the Department's approval.² Department staff have also developed potential corrective actions³ for each potential deficiency. The potential deficiencies do not necessarily represent all deficiencies or discrepancies that the Department may identify in the GSP but focus on those deficiencies that staff believe, if not addressed, could lead to a determination that the GSP is incomplete or inadequate.⁴ This letter initiates consultation between the Department, the Plan Manager, and the Subbasin's 15 groundwater sustainability agencies (GSAs) regarding the amount of time needed to address the potential deficiencies and corrective actions. The Department will issue a final determination as described under the GSP Regulations⁵ no later than January 29, 2022.

If the Department determines the GSP to be incomplete, the deficiencies precluding approval would need to be addressed within a period not to exceed 180 days from the

⁵ 23 CCR Division 2, Chapter 1.5, Subchapter 2.

¹ Water Code § 10720 et seq.

² 23 CCR § 355.2(e)(2).

³ 23 CCR § 355.2(e)(2)(B).

⁴ The Department recognizes that litigation regarding the GSP has been filed. The filing of litigation does not alter or affect the Department's mandate to issue its final assessment of the Agency's groundwater sustainability plan (GSP or Plan) for the basin within two years of its submission. (Water Code \$10733.4(d).) Furthermore, the Department's assessment will consist of a technical review of the submitted Plan, as required by SGMA and the GSP Regulations, and the filing of the litigation did not in any way influence or affect the Department's evaluation of the Plan. The Department expresses no opinion on the claims of the parties in the pending litigation involving the GSP.

determination. A determination of incomplete would allow the GSAs to formally address identified deficiencies and submit a revised GSP to the Department for further review and evaluation. Department staff will contact you before making the final determination to discuss the potential deficiencies and the amount of time needed by the GSAs to address the potential corrective actions detailed in the enclosed document.

Materials submitted to the Department to address deficiencies must be part of the GSP. The GSAs must justify that any materials submitted are part of the revised GSP; this justification is also part of the submittal. To facilitate the Department's review of the revised GSP, the GSAs should also provide a companion document with tracked changes of modifications made to address deficiencies. The GSAs must submit the revised GSP through the DWR SGMA Portal where, as is currently available, interested parties may provide comments on submitted materials to the Department.

Department staff will work expeditiously to review materials submitted to address deficiencies and to evaluate compliance of the revised GSP. The Department will keep a GSP status designated as incomplete during its review of the submitted materials. The Department could subsequently approve an incomplete GSP if the GSAs have taken corrective actions to address deficiencies identified by the Department within a period not to exceed 180 days from the determination. The Department could also issue a determination of inadequate for an incomplete GSP if the Department, after consultation with the State Water Resources Control Board, determines the GSAs have not taken sufficient actions to correct the deficiencies identified by the Department.

If you have any questions, please do not hesitate to contact the Sustainable Groundwater Management Office staff by emailing <u>sgmps@water.ca.gov</u>.

Thank you,

Paul Gosselin

Paul Gosselin Deputy Director for Sustainable Groundwater Management

Enclosure:

1. Potential Deficiencies and Corrective Actions

2020 Groundwater Sustainability Plan Eastern San Joaquin Subbasin (Basin No. 5-022.01)

Potential Deficiencies and Corrective Actions

Department of Water Resources (Department) staff have identified deficiencies regarding the Eastern San Joaquin Subbasin (Subbasin) Groundwater Sustainability Plan (GSP) that may preclude the Department's approval. Therefore, consistent with the GSP Regulations, Department staff are considering corrective actions the Subbasin's groundwater sustainability agencies (GSAs) should review to determine whether and how the deficiencies can be addressed. The deficiencies and potential corrective actions are explained below, including the general regulatory background, the specific deficiencies identified in the GSP, and specific actions to address the deficiencies. The specific actions identified are potential corrective actions until the Department makes a final determination.

General Background

Potential deficiencies identified in the Eastern San Joaquin Subbasin GSP relate to the development and documentation of sustainable management criteria, including undesirable results and minimum thresholds that define when undesirable results may occur.

The Department's GSP Regulations describe several required elements of a GSP under the heading of "Sustainable Management Criteria"⁶, including undesirable results, minimum thresholds, and measurable objectives. These components of sustainable management criteria must be quantified so that GSAs, the Department, and other interested parties can monitor progress towards sustainability in a basin consistently and objectively.

A GSA relies on local experience, public outreach and involvement, and information about the basin it has described in the GSP basin setting (i.e., the hydrogeologic conceptual model, the description of current and historical groundwater conditions, and the water budget), among other factors, to develop criteria for defining undesirable results and setting minimum thresholds and measurable objectives.⁷

The Sustainable Groundwater Management Act (SGMA) defines sustainable groundwater management as the management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results.⁸ Avoidance of undesirable results is thus explicitly part of sustainable groundwater management as established by SGMA and critical to the success of a GSP.

The definition of undesirable results is critical to establishing an objective method to define and measure sustainability for a basin. As an initial matter, SGMA provides a

⁶ 23 CCR § Article 5, Subarticle 3.

⁷ 23 CCR §§ 354.8, 354.10, 354.12 et seq.

⁸ Water Code § 10721(v).

qualitative definition of undesirable results as "one or more" of six specific "effects caused by groundwater conditions occurring throughout the basin."⁹

GSAs define, in their GSPs, the specific significant and unreasonable effects that would constitute undesirable results and the groundwater conditions that would produce those results in their basins.¹⁰ The GSAs' definition must include a description of the processes and criteria relied upon to define undesirable results and describe the effect of undesirable results on the beneficial uses and users of groundwater, surface land uses (for subsidence), and surface water (for interconnected surface water).¹¹

SGMA leaves the task of establishing undesirable results and setting thresholds largely to the discretion of the GSAs, subject to review by the Department. In its review, the Department requires a thorough and reasonable analysis of the groundwater conditions and the associated effects the GSAs must manage the groundwater basin to avoid, and the GSAs' stated rationale for setting objective and quantitative sustainable management criteria to prevent those undesirable conditions from occurring.¹² If a GSP does not meet this requirement, the Department cannot evaluate the GSAs' likelihood of achieving their sustainability goal. That does not necessarily mean that the GSP or its objectives are inherently unreasonable; rather, the Department cannot evaluate whether the GSP's implementation would successfully achieve sustainable management if it is unclear what undesirable conditions the GSAs seek to avoid.

Potential Deficiency 1. The GSP lacks sufficient justification for identifying that undesirable results for chronic lowering of groundwater levels, subsidence, and depletion of interconnected surface waters can only occur in consecutive non-dry water year types. The GSP also lacks sufficient explanation for its chronic lowering of groundwater levels minimum thresholds and undesirable results.

The first potential deficiency relates to the GSP's requirement of two consecutive non-dry (i.e., below normal, above normal, or wet) water-year types and the exclusion of dry and critically dry water-year types in the identification of undesirable results for chronic lowering of groundwater levels, and, by proxy, land subsidence and depletions of interconnected surface water.

Background

Related to this potential deficiency, SGMA defines the term "Undesirable Result," in part, as one or more of the following effects caused by groundwater conditions occurring throughout the basin:¹³

¹⁰ California Department of Water Resources, Best Management Practices for the Sustainable Management of Groundwater: Sustainable Management Criteria (Draft), November 2017.

¹¹ 23 CCR §§ 354.26(b), 354.28(c)(5), 354.28(c)(6).

¹² 23 CCR § 355.4(b)(1).

⁹ Water Code § 10721(x).

¹³ Water Code § 10721(x).

- Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. Overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods.
- Significant and unreasonable land subsidence that substantially interferes with surface land uses.
- Depletions of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water.

Potential Deficiency Details

Department staff identified two areas of concern, described below, which, if not addressed, may preclude approval of the GSP. Regarding the first area of concern, the GSP identifies that an undesirable result occurs "when at least 25 percent of representative monitoring wells used to monitor groundwater levels (5 of 20 wells in the Subbasin) fall below their minimum level thresholds for two consecutive years that are categorized as non-dry years (below-normal, above-normal, or wet), according to the San Joaquin Valley Water Year Hydrologic Classification." The GSP further states that "the lowering of groundwater levels during consecutive dry or critically-dry years is not considered to be unreasonable, and would therefore not be considered an undesirable result, unless the levels do not rebound to above the thresholds following those consecutive non-dry years."¹⁴

Department staff find that the water-year type requirement in the definition of the undesirable result for chronic lowering of groundwater levels (i.e., two consecutive nondry years) is not consistent with the intent of SGMA. The water-year type requirement could potentially allow for unmanaged and continued lowering of groundwater levels under certain hydrologic or climatic conditions that have occurred historically. A review of historical San Joaquin Valley water-year type classifications¹⁵ indicates the potential for dry periods without the occurrence of a second consecutive non-dry year to persist for greater than ten years (see, e.g., the 11 years from water years 1985 through 1995). Department staff also note that concurrent below normal, above normal, or wet years occurred in only five of the last twenty water years from 2001 through 2020. Because of this definition, GSAs in the Subbasin could disregard potential impacts of groundwater level declines below the minimum thresholds during extended periods of dry years, even if interrupted by normal or wet years.

¹⁴ ESJ GSP, p. 253.

¹⁵ Chronological Reconstructed Sacramento and San Joaquin Valley Water Year Hydrologic Classification Indices, Water Year 1901 through 2020. California Department of Water Resources, <u>https://cdec.water.ca.gov/reportapp/javareports?name=WSIHIST</u>.

Department staff also find this methodology inconsistent with other portions of the GSP. For example, while describing measurable objectives for groundwater levels, the GSP states, "the margin of operational flexibility is intended to accommodate droughts, climate change, conjunctive use operations, or other groundwater management activities. The margin of operational flexibility is defined as the difference between the minimum threshold and the measurable objective."¹⁶ Based on these statements, it appears the minimum thresholds already accommodate drought conditions, so it is unclear why the GSP's definition of undesirable results further excludes minimum threshold exceedances during dry water years. (See Potential Corrective Action 1a.)

SGMA states that "overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or storage during a period of drought are offset by increases in groundwater levels or storage during other periods."¹⁷ If the GSAs intended to incorporate this concept into their definition of the undesirable result for chronic lowering of groundwater levels, the GSP fails to identify specific extraction and groundwater recharge management actions the GSAs would implement¹⁸ or otherwise describe how the Subbasin would be managed to offset, by increases in groundwater levels or storage during other periods, dry year reductions of groundwater storage. The GSP identifies many projects that, once implemented, may lead to the elimination of long-term overdraft conditions in the Subbasin. However, the GSP does not sufficiently detail how projects and management actions, in conjunction with the proposed chronic lowering of groundwater levels sustainable management criteria, will offset drought-related groundwater reductions and avoid significant and unreasonable impacts when groundwater level minimum thresholds are potentially exceeded for an extended period in the absence of two consecutive non-dry years. (See Potential Corrective Action 1b.)

As noted above, the GSP states that minimum thresholds developed for chronic lowering of groundwater levels serve as proxies for subsidence¹⁹ and depletion of interconnected surface waters.²⁰ Therefore, Department staff assume the GSAs intend to apply the same water-year type criteria to undesirable results for those sustainability indicators (i.e., land subsidence or depletion of interconnected surface water undesirable results do not occur until groundwater levels exceed the thresholds for two consecutive non-dry water years). However, where SGMA acknowledges that groundwater level declines during drought periods are not sufficient to cause an undesirable result for chronic lowering of groundwater levels, the statute does not similarly provide an exception for subsidence or stream depletion during periods of drought. (See Potential Corrective Action 1c.)

¹⁶ ESJ GSP, p. 259.

¹⁷ Water Code § 10721(x)(1).

¹⁸ 23 CCR § 354.44(b)(9).

¹⁹ ESJ GSP, p. 270.

²⁰ ESJ GSP, p. 271.

Department staff's second area of concern is the GSP's evaluation of the effects of the proposed minimum thresholds and undesirable results on beneficial uses and users of groundwater. The GSP identifies that the chronic lowering of groundwater levels could cause undesirable results from wells going dry, reductions in pumping capacities, increased pumping costs, the need for deeper well installations or lowering of pumps, and adverse impacts to environmental uses and users.²¹ The GSP builds an analysis of domestic wells going dry into its minimum thresholds, thereby considering the factors of wells going dry and the need for deeper well installations. However, it does not address how the management criteria address the other factors identified by the GSAs as potential undesirable results, including reductions in pumping capacity or increased pumping costs for shallow groundwater users, or adverse impacts to environmental uses and users.

The GSAs set minimum thresholds in the Subbasin at the shallower of the 10th percentile domestic [or municipal] well depth or the historical low groundwater levels with a subtracted buffer value, which the GSP states allows for operational flexibility.²² These minimum threshold values generally allow groundwater levels to decline below historic lows; minimum thresholds defined using the buffer value approach allow twice the historical drawdown from the shallowest recorded groundwater levels.²³ Aside from the GSP's domestic well analysis, the only description of how minimum thresholds were evaluated to avoid undesirable results appears to be the statements that "for the majority of the Subbasin, GSA representatives identified no undesirable results, even if groundwater were to reach historical low groundwater levels" and that no GSA indicated undesirable results would occur "if the minimum threshold was set deeper than the [historic low] based on their understanding."²⁴ The GSP provides no further explanation or description of how the individual GSAs concluded that there would be no undesirable results based on the minimum thresholds.

The GSP only considers an undesirable result to occur for groundwater levels in the Subbasin when at least 25 percent of representative monitoring wells (5 of 20 wells) fall below their minimum threshold value for two consecutive non-dry water years.²⁵ The GSP does not justify or discuss how the GSAs developed the 25 percent threshold, nor does it explain or disclose the potential impacts anticipated during extended drier climate conditions using this threshold. In other words, the proposed management program may lead to potential effects on domestic wells or other beneficial uses and users during prolonged dry- or below-normal periods, and that information should, at a minimum, be disclosed and considered in the GSP. (See Potential Corrective Action 1d.)

If, after considering this potential deficiency, the GSAs retain minimum thresholds that allow for continued lowering of groundwater levels, it is reasonable to assume that some

²¹ ESJ GSP, p. 253.

²² ESJ GSP, p. 254.

²³ ESJ GSP, p. 258.

²⁴ ESJ GSP, p. 255.

²⁵ ESJ GSP, p. 253.

groundwater well impacts (e.g., loss of production capacity) will occur during the implementation of the GSP. SGMA requires GSAs to consider the interests of all groundwater uses and users and to implement their GSPs to mitigate overdraft conditions.²⁶ Implementing specific projects and management actions prevents undesirable results and achieves the sustainable yield of the basin. The GSAs should describe how projects and management actions would address drinking water impacts due to continued overdraft between the start of GSP implementation and the achievement of the sustainability goal. If the GSP does not include projects or management actions to address drinking water impacts, the GSP should contain a thorough discussion, with supporting facts and rationale, explaining how and why GSAs determined not to include actions to address those impacts from continued groundwater lowering below pre-SGMA levels. (See Potential Corrective Action 1e.)

Additionally, related to the groundwater level declines allowed for by the GSA's minimum thresholds, the GSAs have not explained how those groundwater level declines relate to the degradation of groundwater quality sustainability indicator. GSAs must describe, among other items, the relationship between minimum thresholds for a given sustainability indicator (in this case, chronic lowering of groundwater levels) and the other sustainability indicators.²⁷ The GSAs generally commit to monitoring a wide range of water quality constituents but they have only developed sustainable management criteria for total dissolved solids because they state they have not observed a causal nexus between groundwater management and degradation associated with the other constituents. While Department staff are not aware of evidence sufficient to conclude that the GSAs did not consider, or at least did not document, the potential for degradation to occur due to further lowering of groundwater levels beyond the historic lows. (See Potential Corrective Action 1f.)

Potential Corrective Action 1

- a) Department staff believe the management approach described in the GSP, which couples minimum thresholds and measurable objectives that account for operational flexibility during dry periods with a definition of undesirable results that disregards minimum threshold exceedances in all years except consecutive below normal, above normal, or wet years, to be inconsistent with the objectives of SGMA. Therefore, the GSAs should remove the water-year type requirement from the GSP's undesirable result definition.
- b) The GSP should be revised to include specific projects and management actions the GSAs would implement to offset drought-year groundwater level declines.
- c) The GSAs should thoroughly explain how their approach avoids undesirable results for subsidence and depletion of interconnected surface waters, as SGMA does not

²⁶ 23 CCR § 355.4(b)(4), 355.4(b)(6).

²⁷ 23 CCR § 354.28(b)(2).

include an allowance or exemption for those conditions to continue in periods of drought.

- d) Removing the water-year type requirement from the definition of an undesirable result (item a, above) would result in a GSP with groundwater level minimum thresholds designed to be generally protective of 90 percent of domestic wells regardless of regional hydrologic conditions. In that scenario, the GSAs should explain the rationale for determining that groundwater levels can exceed those thresholds at 25 percent of monitoring sites for two consecutive years before the effects would be considered significant and unreasonable. The GSAs should also explain how other factors they identified as "potential undesirable results" (e.g., adverse impacts to environmental uses and users) factored into selecting minimum thresholds and describe anticipated effects of the thresholds on beneficial uses and users of groundwater. Furthermore, the GSAs should explain whether other drinking water users that may rely on shallow wells, such as public water systems and state small water systems, were considered in the GSAs' site-specific thresholds. If not, the GSAs should conduct outreach with those users and incorporate their shallow wells, as applicable, into the site-specific minimum thresholds and measurable objectives.
- e) The GSAs should revise the GSP to describe how they would address drinking water impacts caused by continued overdraft during the period between the start of GSP implementation and achieving the sustainability goal. If the GSP does not include projects or management actions to address those impacts, the GSP should contain a thorough discussion, with supporting facts and rationale, explaining how and why the GSAs determined not to include specific actions to address drinking water impacts from continued groundwater lowering below pre-SGMA levels.
- f) The GSP should be revised to explain how the GSAs will assess groundwater quality degradation in areas where further groundwater level decline, below historic lows, is allowed via the minimum thresholds. The GSAs should further describe how they will coordinate with the appropriate groundwater users, including drinking water, environmental, and irrigation users as identified in the GSP. The GSAs should also discuss efforts to coordinate with water quality regulatory agencies and programs in the Subbasin to understand and develop a process for determining if continued lowering of groundwater levels is resulting in degraded water quality in the Subbasin during GSP implementation.

Potential Deficiency 2. The GSP does not provide enough information to support the use of the chronic lowering of groundwater level sustainable management criteria and representative monitoring network as a proxy for land subsidence.

Background

The GSP Regulations state that minimum thresholds for land subsidence should identify the rate and extent of subsidence that substantially interferes with surface land uses and may lead to undesirable results. These quantitative values should be supported by: ²⁸

- The identification of land uses or property interests potentially affected by land subsidence;
- An explanation of how impacts to those land uses or property interests were considered when establishing minimum thresholds;
- Maps or graphs showing the rates and extents of land subsidence defined by the minimum thresholds.

The GSP Regulations allow the use of groundwater elevations as a proxy for land subsidence. However, GSAs must demonstrate a significant correlation between groundwater levels and land subsidence and must demonstrate that groundwater level minimum thresholds represent a reasonable proxy for avoiding land subsidence undesirable results. Additionally, the GSAs must demonstrate how the monitoring network is adequate to identify undesirable results for both metrics.

Potential Deficiency Details

Department staff find that the GSP does not adequately identify or define minimum thresholds and undesirable results for land subsidence. The GSP also does not provide adequate justification and explanation for using the groundwater level minimum thresholds and representative monitoring network as a proxy for land subsidence.

Generally, the GSP identifies that irrecoverable loss of groundwater storage and damage to infrastructure, including water conveyance facilities and flood control facilities, are potential impacts of land subsidence.²⁹ However, the GSP does not identify specific infrastructure locations, particularly those associated with public safety, in the Subbasin and the rate and extent of subsidence that would substantially interfere with those land surface uses and may lead to undesirable results. Additionally, without identifying infrastructure considered at risk for interference from land subsidence, Department staff cannot evaluate whether the groundwater level representative monitoring network is adequate to detect potential subsidence-related impacts.

Department staff find the GSP does not provide adequate evidence to demonstrate a significant correlation between groundwater levels and land subsidence in the Subbasin.

²⁸ 23 CCR § 354.28(c)(5).

²⁹ ESJ GSP, p. 269.

Without explaining this correlation, the Department cannot evaluate whether the groundwater level minimum thresholds and associated conditions required for identifying an undesirable result would protect against significant and unreasonable impacts related to land subsidence. The GSP states a significant correlation exists between groundwater levels and land subsidence, with lowering groundwater levels driving further land subsidence.³⁰ Department staff agree with this general statement. However, the GSP fails to provide adequate evidence to evaluate further this correlation, specifically concerning potential subsidence caused by groundwater levels falling below historic lows, as would be allowed by the groundwater level minimum thresholds set in the GSP.

The GSP's justification for using the proposed groundwater level minimum thresholds as a proxy for land subsidence appears to rely mainly on an incomplete analysis and a data set with significant data gaps. The GSP states there are no historical records of significant and unreasonable land subsidence in the Subbasin.³¹ The GSP also states that there is a lack of direct land subsidence monitoring in the Subbasin.³² The GSP uses this absence of historical records to assert that historically dewatered geologic units are not compressible and, therefore, not at risk for land subsidence. Although groundwater level minimum thresholds are below historic lows, the GSP states that the GSAs do not expect further declines in groundwater levels to dewater materials deeper than 205 feet below ground surface (the deepest groundwater level minimum threshold value in the Subbasin).³³ The GSP states that subsurface materials encountered up to this depth are the same [non-compressible] geologic units that have been historically dewatered.

Department staff find multiple aspects of this justification speculative and not supported by the best available science. First, the GSP presents no analysis of historic groundwater levels or historically dewatered subsurface materials to support the conclusion that the geologic units are not compressible. Second, the GSP does not provide an evaluation showing how additional declines in groundwater levels would only affect subsurface materials similar to those which have been historically dewatered. Third, the GSP is unclear on whether the conditions required to identify an undesirable result for chronic lowering of groundwater levels in the Subbasin are also required to identify an undesirable result for land subsidence. Management proposed in the GSP could allow groundwater level minimum thresholds to be exceeded in periods where two consecutive non-dry years do not occur, which does not support the claim that only materials up to the deepest groundwater level minimum threshold (205 feet below ground surface) will be dewatered.

Department staff note that the legislature intended that implementation of SGMA would avoid or minimize subsidence³⁴ once GSAs achieve the sustainability goal for a basin. Without analysis examining how allowable groundwater levels below those historically

³⁰ ESJ GSP, p. 270.

³¹ ESJ GSP, p. 269.

³² ESJ GSP, p. 270.

³³ ESJ GSP, p. 270.

³⁴ Water Code § 10720.1(e).

experienced in the Subbasin may affect land subsidence, Department staff cannot determine if the GSP adequately avoids or minimizes land subsidence. While SGMA does not require prevention of all land subsidence, the GSP does not provide sufficient evidence to conclude that the proposed chronic lowering of groundwater level minimum thresholds are adequate to detect and avoid land subsidence undesirable results.

Potential Corrective Action 2

The GSAs must provide detailed information to demonstrate how the use of the chronic lowering of groundwater level minimum thresholds are sufficient as a proxy to detect and avoid significant and unreasonable land subsidence that substantially interferes with surface land uses. Alternatively, the GSAs could commit to utilizing direct monitoring for subsidence, e.g., with remotely sensed subsidence data provided by the Department. In that case, the GSAs should develop sustainable management criteria based on rates and extents of subsidence. Department staff suggest the GSAs consider and address the following issues:

- 1. The GSAs should revise the GSP to identify the total subsidence that critical infrastructure in the Subbasin can tolerate during GSP implementation. Support this identification with information on the effects of subsidence on land surface beneficial uses and users and the amount of subsidence that would substantially interfere with those uses and users.
- 2. The GSAs should revise the GSP to document a significant correlation between groundwater levels and specific amounts or rates of land subsidence. The analysis should account for potential subsidence related to groundwater level declines below historical lows and further declines that are allowed to exceed minimum thresholds (i.e., during non-consecutive non-dry years, if applicable based on the resolution to Potential Deficiency 1, above). This analysis should demonstrate that groundwater level declines allowed during GSP implementation are preventative of the rates and magnitudes of land subsidence considered significant and unreasonable based on the identified infrastructure of concern. If there is not sufficient data to establish a correlation, the GSAs should consider other options such as direct monitoring of land subsidence (e.g., remotely sensed data provided by the Department, extensometers, or GPS stations) until such time that the GSAs can establish a correlation.
- 3. The GSAs should explain how the groundwater level representative monitoring network is sufficient to detect significant and unreasonable subsidence that may substantially interfere with land uses, specifically any identified infrastructure of concern. If the groundwater level monitoring network alone is not adequate, based on specific infrastructure locations, Department staff suggest incorporating continued analysis of available InSAR data to cover areas with data gaps.



TECHNICAL ADVISORY COMMITTEE – STAFF REPORT

December 2, 2021

То:	TAC, Steering and Board
From:	Matt Zidar, Water Resources Manager
RE:	Agreement for Professional Services with Davids Engineering, Inc.
Date:	December 2, 2021

This memo is intended to provide the <u>Technical Advisory Committee</u> with an update of the procurement of Davids Engineering Inc. for professional services to support the Eastern San Joaquin Groundwater Authority (GWA).

Background

GWA and its 16-member GSAs are tasked with achieving groundwater sustainability in the criticallyoverdrafted Eastern San Joaquin Subbasin and have been attempting to secure the long-term future of the groundwater basin and meet the requirements of the Sustainable Groundwater Management Act (SGMA). As the GWA continues into the implementation phase of SGMA compliance, it needs to manage groundwater inputs and extractions at the GSA level. As such, the GWA is seeking to establish an accounting framework and accompanying financing plan(s) that will help allocate overdraft and assign costs associated with shared projects designed to address overdraft to individual GSAs.

Discussion

- A. A Request for Qualifications was submitted by the San Joaquin County on behalf of the GWA on September 24, 2021. Two consultants responded by providing their Statement of Qualifications.
- B. On Friday, October 13, 2021 a selection panel comprising Mr. Andrew Watkins, Mr. Matt Zidar, Mr. Walt Ward, Mr. Brandon Nakagawa and Mr. Tom Flinn met to discuss the SOQs. By majority vote this panel selected Davids Engineering, Inc. as the most qualified to perform the needed services.
- C. County staff has been engaging with Davids Engineering since then, by holding numerous scoping discussions, as well as engaging the other team-consultants, including Stantec and Woodard Curran. A final scope of work, and a note-to-exceed amount has been negotiated.
- D. Davids Engineering's scope of work from start to finish is not defined in detail at this time, since it is dependent on the outcome of the interviews and surveys that will be conducted in the coming months. Their work is also based on the water budget discussions, in which the GWA is yet to engage. Therefore, in order to provide some balance and flexibility, DE's scope is divided into three phases as defined below, where each subsequent phase it built upon the outcome of the preceding phase:
 - Phase 1 The work in this phase entails facilitation and coordination amongst the GWA members, Stantec team, and Woodard Curran team; analysis of historical water budgets; and analysis of GSP implementation costs.

- 2. Phase 2 Under this phase, DE will formulate alternative water accounting frameworks and develop alternative basin finance plans
- 3. Phase 3 Under this phase, DE will leverage the findings and conclusions from prior phases to prepare a scope of work/ roadmap that is specifically tailored towards the GWA-specified Water Accounting Framework and finance plan.
- E. DE's agreement for a Not-to-Exceed amount of \$175,000 will be considered by the GWA Board on December 8, 2021 for approval.
- F. Following Board's approval, the Final Agreement will be subject to administrative review by the Board Secretary and GWA Counsel.

Recommendation

A. TAC and Steering Committee to accept DE's scope of work and forward to the Board for approval.



AGREEMENT A-21-

Contract Amount \$175,000.00

PARTIES:	EASTERN SAN JOAQUIN GROUND WATER AUTHORITY:	<u>1810 E. Hazelton Ave.</u> Stockton, CA <u>95205</u>
		<u>Matt Zidar</u> (209) 953-7460 mzidar@sjgov.org
	CONSULTANT:	Davids Engineering, Inc. 1772 Picasso Avenue, Ste A Davis, CA 95618 John Davids, (209) 404-8896 john@davidsengineering.com

This Agreement is made and entered into this _____day of _____, 2021, by and between Davids Engineering, Inc., a California corporation, (hereinafter "CONSULTANT"), and the Eastern San Joaquin Ground Water Authority, a joint powers agency acting pursuant to Government Code Section 6500 et seq, (hereinafter "GWA").

NOW, THEREFORE, in consideration of the mutual covenants, conditions, and promises contained herein, it is mutually agreed as follows:

I. THE PURPOSE OF THE AGREEMENT

The purpose of this Agreement is for CONSULTANT to provide various on-call services and support to the GWA for the development of a basin accounting framework and an evaluation of funding and financing alternatives (hereinafter "SERVICES").

II. ORDER FOR PRECEDENCE

- A. In the event of an inconsistency in this Agreement, the inconsistency shall be resolved by giving precedence in the following order:
 - 1. Applicable Federal and State of California statutes and regulations;
 - 2. This Agreement;
 - 3. CONSULTANT'S proposal (hereinafter "PROPOSAL"), attached hereto as **Exhibit A**.

Document 3, referenced above, <u>is</u> hereby incorporated into this Agreement as if completely set forth herein.

III. THE SCOPE OF SERVICES

- A. CONSULTANT agrees to provide various on-call SERVICES outlined in the Proposal attached as **Exhibit A.**
- B. CONSULTANT shall perform the CONSULTANT'S work in accordance with currentlyapproved methods and standards of practice in CONSULTANT'S professional specialty.
- C. Specific scope(s) of services to be provided by the CONSULTANT shall be authorized by GWA through the issuance of project-specific Task Orders. Each specific Task Order will require a written scope outlining the specific services to be provided by DE, with a schedule and budget. Cumulative active Task Orders will be subject to the total not-to-exceed amount of the on-call agreement. GWA will authorize each Task Order in writing prior to commencement of services by CONSULTANT.

IV. GENERAL PROVISIONS

A. Term of Agreement:

This Agreement shall commence when fully executed and end on <u>December 31,</u> <u>2023</u>, unless SERVICES are completed on a date prior thereto or unless terminated earlier as provided herein.

B. Interpretation:

This Agreement shall not be interpreted in favor of any Party by virtue of said Party nothaving prepared this Agreement.

C. <u>Compensation:</u>

GWA agrees to pay CONSULTANT the hourly amounts as indicated on the CONSULTANT'S hourly rate sheet attached as **Exhibit B**. Notwithstanding the foregoing, the total payments under this Agreement shall not exceed ONE HUNDRED SEVENTY-FIVE THOUSAND DOLLARS AND NO CENTS (**\$175,000.00**).

D. Invoicing:

CONSULTANT shall submit an electronic copy of each invoice to the GWA, PW-Water Resources email address: SJCPWWRinvoices@sjgov.org.

All invoices must reference this Agreement Number/Contract ID # A-21- and the SERVICES performed. Payments shall be made within 30 days of receipt of invoice from CONSULTANT.

LATE FEES: California Government Code 926.10 provides the following "....any person_having such a claim against a public agency, shall be entitled to interest commencing the 61st day after such public entity or person files a liquidated claim known or agreed tobe valid when filed pursuant to such statute or contract, and such claim is due and payable. Interest shall be 6 percent per annum."

E. CONSULTANT'S Status:

In the performance of SERVICES, duties and obligations imposed by this Agreement, the CONSULTANT and/or its employees and subconsultants are at all times acting as independent contractor(s) practicing his or her profession and not as an employee of GWA. A copy of the CONSULTANT'S current professional, local, state or other business licenses required to conduct the services stated herein, will be provided to staff of <u>GWA</u>. CONSULTANT shall not have any claim under this Agreement or otherwise against GWA for vacation, sick leave, retirement benefits, social security or workers' compensation benefits. CONSULTANT shall be responsible for federal and state payroll taxes such as social security and unemployment. <u>GWA will</u> issue a Form 1099 at year-end for fees earned.

F. Assignments:

Inasmuch as this Agreement is intended to secure the specialized services of CONSULTANT, CONSULTANT may not assign, transfer, delegate or subcontract its obligation herein without the prior written consent of GWA. Any such assignment, transfer, delegation, or subcontract without the prior written consent shall be considered null and void.

G. Non-Exclusive Rights:

This Agreement does not grant to CONSULTANT any exclusive privileges or rights to provide services to GWA. GWA may contract with other companies or <u>individuals</u>

for similar services, including but not limited to any other party who may have submitted bids or proposals to any RFQ or other requests from GWA for the work or services performed under this agreement. CONSULTANT may contract with other counties, private companies or individuals for similar services.

H. Indemnification:

CONSULTANT shall, at its expense, indemnify and hold harmless GWA, (defined as the Eastern San Joaquin Ground Water Authority and its employees, officers, directors, contractors and agents) from and against any losses, liabilities, damages, penalties, costs, fees, including without limitation reasonable attorneys' fees, and expenses from any claim or action, including without limitation for bodily injury or death, but only to the proportionate extent resulting from the negligence or willful misconduct of CONSULTANT, its employees, officers, agent or subconsultants. However, nothing in this Agreement shall be interpreted to require CONSULTANT to defend any claim, cause of action, demand, or lawsuit in connection with or arising out of CONSULTANT'S performance of services under this Agreement.

CONSULTANT shall hold the GWA, their officers and employees, harmless from liability, of any nature or kind arising from CONSULTANT'S use of any copyrighted, or un-copyrighted composition, secret process, patented or un-patented invention articles or appliance furnished or used under this Agreement.

- I. Insurance:
 - CONSULTANT, shall submit proof of insurance with liability limits as set forth below to GWA, showing GWA, its officers, and employees, named as Additional Insureds to include ongoing operations and products completed operations (On Additional Insured Endorsement CG 20 10 10 93 or its current equivalent), except for Workers' Compensation and Professional Liabilities, and insurance policy shall contain provisions that such policy may not be canceled or reduced except after thirty (30) days written notice to procurement agent of the GWA.
 - 2. CONSULTANT agrees to be responsible to ensure that the requirements set forth in this article/paragraph are also to be met by CONSULTANT'S subconsultants, if any, who provide services pursuant to this Agreement.

3. General Liability Limits

a. BI & PD combined/per occurrence/Aggregate	\$1,000,000
b. Personal Injury/Aggregate	\$1,000,000
c. Automobile Liability/per occurrence	\$1,000,000

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- CONSULTANT agrees to hold harmless and indemnify GWA for any and all liabilities associated with the CONSULTANT'S use of any automobiles in relation to tasks associated with this Agreement.
- 4. Professional Liability

\$1,000,000

- a. Professional Liability as appropriately relates to services rendered. Coverage may include medical malpractice, cyber liability, and/or errors and omissions.
- Workers' Compensation and Employer's Liability
 Statutory requirement as required by any applicable state or federal law or regulation.
- J. Discrimination:

CONSULTANT shall not discriminate because of race, color, religion, sex, gender, gender identity, gender expression, sexual orientation, marital status, national origin, ancestry, mental and physical disability, medical condition, genetic information, military or veteran status, age, pregnancy, denial of medical and family care leave, or pregnancydisability leave (California Government Code sections 12940,12945, 12945.2). CONSULTANT shall not retaliate against any person for protesting illegal discrimination related to one of these categories, or for reporting patient abuse in tax <u>supported institutions</u>.

K. ADA Compliance:

CONSULTANT shall comply with the Americans with Disabilities Act (ADA) of 1990, which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA. (42 U.S.C. Sections 12101 etseq.)

L. Notices:

Any notice required to be given pursuant to the terms and conditions hereof shall be in <u>writing and</u> shall be effected by one of the following methods: personal delivery, prepaid_Certified First-Class Mail, or prepaid Priority Mail with delivery confirmation. Unless otherwise designated in writing by either party, such notice shall be mailed to the addresses shown on page one (1) of this Agreement.

- M. Termination:
 - 1. **Termination for Cause:** If CONSULTANT or GWA breaches or habitually neglects <u>its</u> duties under this Agreement without curing such breach or neglect upon fifteen (15) working days written notice, the other party may, by

written notice, immediately terminate this Agreement without prejudice to any other remedy to which it may be entitled, either at law, in equity, or under this Agreement.

- 2. *Termination for Convenience*: In addition, GWA may terminate this Agreement for its convenience upon thirty (30) days written notice to CONSULTANT.
- 3. *Funding out Clause:* If the GWA Board of Directors fails to appropriate funds to make purchases under this Agreement, this Agreement will be cancelled immediately and the CONSULTANT will be given written notice of such termination.
- 4. If this Agreement is terminated under paragraphs 1, 2 or 3 above, CONSULTANT shall only be paid for all SERVICES satisfactorily performed/completed and provided prior to effective date on the notice of termination, including all reasonable termination costs. In the event of termination under paragraph 1, 2 or 3 above, CONSULTANT shall be paid an amount, which bears the same ratio to the total compensation authorized by the Agreement as the services satisfactorily performed bear to the total services of CONSULTANT covered by this Agreement, less payments of compensation previously made as of the effective termination date.
- 5. Except as <u>stated above</u> and except for any reasonable end-of-contract fees, CONSULTANT shall have no other allowable charges under the terms and conditions of this Agreement.
- 6. CONSULTANT shall not incur any expenses under this Agreement after the effective date on the notice of termination and shall cancel any outstanding <u>expenses obligations</u> to a third party [related hereto] that CONSULTANT can legally cancel; GWA shall not be liable for any expenses incurred by CONSULTANT subsequent to the notice of termination.
- N. Conflict of Interest Statement:

CONSULTANT covenants that CONSULTANT, its officers, employees or their immediate family, presently has no financial or other interest, in other project(s) or contract(s), or other activity(ies), nor shall it acquire any such interest, directly or indirectly, that would conflict or inhibit in any way, manner or degree with the performance of services under this Agreement. CONSULTANT further covenants that in the performance of this Agreement no person having any such a conflict of interest shall be employed or retained by CONSULTANT under this Agreement. CONSULTANT shall not hire GWA to perform any portion of the work or services provided for herein including secretarial, clerical and similar incidental services except upon the written approval of GWA.

O. Drug Free Workplace:

CONSULTANT shall comply with the provisions of California Government Code <u>Section 8350</u> et seq., otherwise known as the Drug-Free Workplace Act.

P. Force Majeure:

It is agreed that neither party shall be responsible for delays in delivery, acceptance of delivery, or failure to perform when such delay or failure is attributable to Acts of God, war, strikes, riots, lockouts, accidents, rules or regulations of any governmental <u>agencies or</u> other matters or conditions beyond the control of either CONSULTANT or GWA.

Q. Compliance:

- 1. CONSULTANT shall comply with all federal, state and local laws, regulations and requirements necessary for the provision of contracted services. Furthermore, CONSULTANT shall comply with all laws applicable to wages and hours of employment, occupational safety, fire safety, health and sanitation. CONSULTANT shall maintain current throughout the life of this Agreement, all permits, licenses, certificates and insurances that are necessary for the provision of contracted services.
- CONSULTANT shall comply with Assembly Bill 1522, known as the Healthy Workplaces, Healthy Families Act of 2014, codified at California Labor Code <u>Section 245</u>-249. With a few exceptions, the new law requires all employers to provide employees performing work in California with paid sick leave, beginning on July 1, 2015.

R. Disputes and Remedies:

- Notice of any disputes, claims, or breach raised by CONSULTANT, arising under this Agreement, must be submitted, in writing, to GWA within ninety (90) days of the alleged dispute, claim, or breach. If such issues cannot be resolved within ninety (90) days following written notice, and if the parties mutually agree, the alleged dispute, claim, or breach may be submitted to arbitration. Arbitration, if expressly agreed upon in writing by GWA and CONSULTANT, shall be pursuant to the provisions of California Code of Civil Procedure Section 1280, et seq.
- 2. At the GWA's sole discretion, GWA may elect to raise a dispute, claim, or breach by submitting it, in writing, to CONSULTANT. Such dispute, claim, or breach would include conditions and time constraints required of CONSULTANTto remedy.
- 3. Neither the pendency of a dispute, claim, or breach nor its consideration will excuse the parties from full and timely performance of its undisputed portions of its services in accordance with terms of this Agreement, except that the CONSULTANT reserves the right to suspend performance until all overdue invoices have been paid in full or otherwise settled.

S. Public Record:

All bids and proposal information are property of GWA. All such documents, including this Agreement, are public records per the requirements of the California Government Code, Sections 6250-6270, "California Public Records Act". CONSULTANT'S Proprietary material must be clearly marked as such, but even so marked, it does not guarantee non-disclosure and may still be subject to disclosure pursuant to law. Pricing and service elements of the successful bid and/or proposal may not be considered proprietary information.

T. GWA will treat all information submitted in a <u>bid/</u>proposal as available for public inspection once the GWA has a contract finalized with the selected consultant. If CONSULTANT believes that it has a legally justifiable basis under the California Public Records Act (Government Section 6250 et. seq.) for protecting the confidentiality of any information contained within its Proposal <u>or</u> this Agreement, it must identify any such information, together with the legal basis of your claim to GWA. CONSULTANT agrees to defend and indemnify GWA for any liability, costs, and expenses incurred in asserting such confidentiality to protect documents from public disclosure. The final determination as to whether GWA will assert your claim of confidentiality on your behalf shall be sole discretion of GWA.

Documents:

All drawings, specifications, documents and other memoranda or writings relating to the work and services hereunder, shall remain or become the property of GWA whether executed by or for CONSULTANT for GWA, or otherwise by or for CONSULTANT, or by or for a subconsultant operating under CONSULTANT'S supervision, or direction, and all such documents and copies thereof shall be returned or transmitted to GWA forthwith upon GWA written demand, termination or completion of the work underthis Agreement.

U. Work Product:

GWA and CONSULTANT acknowledge and agree that SERVICES ("Work Product"), and all components of it, provided or developed by CONSULTANT hereunder or in connection herewith shall constitute "works made for hire" within the meaning of Title 17 United States Code Section 101 et seq. (the "Copyright Act"), and all right, title, and interest in and to the Custom Products shall vest in GWA immediately upon development. To the extent any such Custom Products may not be the sole and exclusive property of GWA and/or may not be a "work made for hire" as defined in the Copyright Act upon development, then CONSULTANT agrees to and hereby does sell, transfer, grant and assign to GWA all copyrights, patents, trade secrets, inventions, and other proprietary rights, title, and interest in and to such Custom Products upon development. On all written material, whether in print, electronic, or any media form, constituting "Work Product", CONSULTANT shall place or cause to be placed the following legend preferably in the lower right corner:

□ 2021_ Eastern San Joaquin Ground Water Authority. All rights reserved.

All re-use of, or reliance on, CON<u>SULTANT'S</u> documents outside the intended scope <u>or project</u> shall be at the user's sole risk and without liability to CON<u>SULTANT</u>.

- V. Data Security Confidentiality:
 - 1. Acknowledgment of access to information characterized as covered data: CONSULTANT acknowledges that this Agreement may allow CONSULTANT access to confidential GWA information or GWA provided information including, but not limited to, personal information, records, data, or financial information ("Covered Data") notwithstanding the manner in which or from whom it is received by CONSULTANT, which is subject to state laws that restrict the use and disclosure of the GWA information, including the California Information Practices Act (California Civil Code Section 1798 et seq.),California Constitution Article 1, Section 1, and other existing relative or future adopted State and/or Federal requirements. CONSULTANT shall maintain the privacy of, and shall not release, Covered Data without full compliance with all applicable state

and federal laws, the provisions of this Agreement and prior written consent of GWA. CONSULTANT agrees that it will include all of <u>the terms</u> and conditions contained in this clause in all subconsultants or agency contracts providing services under this Agreement. Where a federal, state or local law, ordinance, rule or regulation is required to be made applicable to this Agreement, it shall be deemed to be incorporated herein without amendment to this Agreement.

- 2. Prohibition on unauthorized use or disclosure of Covered Data: CONSULTANT agrees to hold Covered Data received from or created on behalfof GWA in strictest confidence. CONSULTANT shall not use or disclose Covered Data except as permitted or required by this Agreement or as otherwiseauthorized in writing by GWA. If required by a court of competent jurisdiction or an administrative body to disclose Covered Data, CONSULTANT will notify GWA in writing prior to any disclosure in order to give GWA an opportunity to oppose any such disclosure. Any work using, or transmission or storage of, Covered Data outside the United States is subject to prior written authorization by GWA.
- 3. **Safeguard standard:** CONSULTANT agrees that it will protect the Covered Data according to commercially acceptable standards and no less rigorously than it protects its own confidential information, but in no case less than reasonable care for a period of one (1) year from the date of disclosure. CONSULTANT shall develop, implement, maintain and use appropriate administrative, technical and physical security measures which may include but not be limited to encryption techniques, to preserve the confidentiality, integrity and availability of all such Covered Data.
- 4. Return or destruction of Covered Data: Upon termination, cancellation, expiration or other conclusion of this Agreement, with the exception of one (1) archival copy, CONSULTANT shall return the Covered Data to GWA <u>unless GWA</u> requests that such data be destroyed or if infeasible to do so by CONSULTANT. This provision shall also apply to all Covered Data that is in the possession of subconsultants or agents of CONSULTANT.

CONSULTANT shall complete such return or destruction not less than thirty_(30) calendar days after the conclusion or termination of this Agreement, if possible. Within this thirty (30) day period, CONSULTANT shall certify in writing to the GWA that the return or destruction has been completed.

5. **Reporting of unauthorized disclosures or misuse of Covered Data:** CONSULTANT shall report, either orally or in writing, to GWA any use or disclosure of Covered Data not authorized by this Agreement or in writing by GWA, including any reasonable belief that an unauthorized

Page 10 of 12

individual has accessed Covered Data. CONSULTANT shall make the report to GWA immediately upon discovery of the unauthorized disclosure, but in no event more than two (2) business days, if possible, after CONSULTANT reasonably <u>believes there</u> has been unauthorized use or disclosure. CONSULTANT'S report shall identify: (i) the nature of the unauthorized use or disclosure, (ii) Covered Data used or disclosed, (iii) who made the unauthorized use or received the unauthorized disclosure, (iv) what CONTSULTANT has done or shall do to mitigate any deleterious effect of the unauthorized use or disclosure, and (v) what corrective action CONSULTANT has taken or shall take to prevent future similar unauthorized use or disclosure.

- 6. **Examination of records**: GWA and, if the applicable contract or grant so provides, the other contracting party or grantor (and if that be the United States, or an agency or instrumentality thereof, then the Controller General of the United <u>States</u>) shall have access to and the right to examine any pertinent non-propriety and project-specific books, documents, papers, and records of CONSULTANT involving transactions and work related to this Agreement until the expirationof five years after final payment hereunder. CONSULTANT shall retain project records for a period of five years from the date of final payment.
- 7. Assistance in litigation or administrative proceedings: CONSULTANT shall make itself and any employees, subconsultants, or agents assisting CONSULTANT in the performance of its obligations under this Agreement available to GWA, at GWA's cost, to testify as witnesses, or otherwise, in the event of litigation or administrative proceedings against GWA, its directors, officers, agents or employees based upon a claimed violation of lawsrelating to security and privacy and arising out of this Agreement.
- 8. No third-party rights: Nothing in this Agreement is intended to make any person or entity who is not signatory to the Agreement a third-party beneficiary of any right created by this Agreement or by operation of law.

W. Entire Agreement and Modification:

This Agreement and all documents incorporated by reference supersedes all previous Agreements either oral or in writing and constitutes the entire understanding of the parties hereto. No changes, amendments or alterations shall be effective unless in writing and signed by both parties.

- X. Waiver of Consequential Damages and Limitation of Liability:
 - 1. Notwithstanding anything else in this Agreement, neither party shall be liable to the other for any special, indirect, liquidated, consequential,

penal, exemplary, or punitive damages.

2. The maximum aggregate liability of either party to the other under this <u>Agreement shall</u> be limited to compensation actually paid to CONSULTANT under this Agreement.

IN WITNESS WHEREOF, GWA and CONSULTANT have executed this <u>Agreement effective</u> on the day and year first written above.

Eastern San Joaquin Groundwater Authority, a Joint Powers Agency in California Davids Engineering, Inc. 1772 Picasso Avenue, Ste. A Davis, CA. 95618

By:_

John Davids, Senior Engineer President Davids Engineering

By:

Kris Balaji, PMP, PE Secretary Eastern San Joaquin GWA

APPROVED AS TO FORM Neumiller & Beardslee

By:_

Rod A. Attebery GWA Counsel



November 22, 2021

Glenn Prasad San Joaquin County Public Works 1810 East Hazelton Avenue Stockton, CA 95205

Sent Electronically

Re: Davids Engineering, Inc. Proposal

Dear Mr. Prasad,

Please consider this proposal for Davids Engineering, Inc. (DE) to provide professional engineering and financial services to support the Eastern San Joaquin Groundwater Authority (GWA).

Work performed under an on-call services agreement, is thought to include, but is not limited to the following:

- Coordination, Outreach, and Project Management
- Analysis of Historical GSA Budgets (if requested)
- Analysis of Basin Groundwater Sustainability Plan (GSP) Implementation costs
- Development of cash flow models for projects that are in the GSP, or other project(s) that may be added to the analysis, as requested.
- Development of principles of cost allocation
- Development of alternative water accounting frameworks
- Attendance, representation, and coordination with external agencies and stakeholders
- Development of Basin Water Accounting Framework
- Evaluation of Funding and Financing Alternatives
- Other duties as assigned

Professional services will be provided on a Time & Materials (T&M) based on the schedule of billing rates attached to this proposal.

We understand that specific scope(s) of services provided by DE shall be authorized by the GWA's Project Manager through the issuance and approval of Task Orders. Each Task Order will require a written scope with specific services to be provided by DE, with a schedule and budget. Cumulative active Task Orders will be subject to the total not-to-exceed amount of the

on-call agreement. The GWA's Project Manager will authorize each Task Order in writing prior to commencement of services by DE.

If you have any questions or need any additional information, please do not hesitate to contact me at (209) 404-8896.

Sincerely,

John B. Davids, P.E. Principal Engineer

Enclosure: DE Schedule of Rates

cc: Project Files

Davids Engineering, Inc. Labor Rates Effective January 1, 2021						
Labor Classification Hourly Rate						
Sr. Principal Engineer	\$232					
Principal Engineer	\$220					
Supervising Engineer/Scientist	\$201					
Senior Engineer/Scientist	\$184					
Associate Engineer/Scientist II	\$175					
Associate Engineer/Scientist I	\$165					
Staff Engineer/Scientist II	\$155					
Staff Engineer/Scientist I	\$142					
Graduate Engineer/Scientist	\$122					
Engineering Intern II	\$68					
Engineering Intern I	\$46					
Administrative Intern	\$47					
Student Intern	\$26					
Technical/Project Assistant	\$102					
Secretary/Clerical II	\$95					
Secretary/Clerical I	\$82					

Table 1

Note: labor rates are subject to revision at the beginning of each calendar year.

Table 2							
•••	Davids Engineering, Inc.						
Vehicle and Equipment Rates Effective January 1, 2021							
Item	Rate						
Automobiles	current federal rate						
Field vehicle (4 x 4)	\$1.00/mile						
SonTek RiverSurveyor M9 ADCP	\$285.00/day						
SonTek FlowTracker Handheld ADVM	\$60.00/day						
Fuji Electric Portaflow-C Transit Time Meter	\$105.00/day						
Pressure Transducer	\$50.00/month						
SCADA Equipment and Materials	at cost						
Color plotter	\$7.00/sq. ft.						

Note: equipment rates are subject to revision at the beginning of each calendar year.

- 2. Phase 2 Under this phase, DE will formulate alternative water accounting frameworks and develop alternative basin finance plans
- 3. Phase 3 Under this phase, DE will leverage the findings and conclusions from prior phases to prepare a scope of work/ roadmap that is specifically tailored towards the GWA-specified Water Accounting Framework and finance plan.
- E. DE's agreement for a Not-to-Exceed amount of \$175,000 will be considered by the GWA Board on December 8, 2021 for approval.

Recommendation

A. TAC to accept DE's scope of work and forward to the Board for approval.



ESJ GWA STEERING COMMITTEE – STAFF REPORT

December 8, 2021

To: ESJ GWA Steering Committee

From: Matt Zidar, Water Resources Manager

RE: Amendments to the Fiscal Year 2021-22 ESJ GWA Budget

Date: December 8, 2021

This memo is intended to provide the GWA Steering Committee with details surrounding the need to Amend Fiscal Year 2021-22 GWA Budget.

Background

The GWA Board of Directors adopted the Fiscal Year 2021-2022 budget (R-21-02) (**Exhibit A**) June 9, 2021 which authorized the GWA's total spending authority of \$1,077,800. After the budget was adopted, a clerical error was found.

Discussion

To correct the clerical error, an appropriation increase of \$100,000 to the total "Reservededication of carry over" line-item is necessary. The effect of the forementioned increased appropriation will increase the GWA's total expenses to \$1,177,800 and reduce carry-over reserves. **See (Exhibit B).**

The following paragraphs and tables outline proposed 2021-2022 budget allocation adjustments to add a fifth task order to Agreement A-20-1 and to establish appropriations for consultant activities regarding development of a basin water accounting framework and an evaluation of funding and financing alternatives.

1. Addition of Task Order No. 5 to Agreement A-20-1 (Woodard and Curran):

- Components 1 and 3 of Task Order No. 5 were allocated \$90,000 in total appropriations in the adopted FY 21-22 budget.
- Woodard and Curran's current cost proposal for components 1 and 3 is \$65,000, and the inclusion of Component 2 is \$25,000.
- No increase in appropriation is necessary to fund the addition of Task Order No. 5 to A-20-1.

The three components to Task Order No. 5 and the associated costs are illustrated in the following table:

Component	Function	Cost	Budget allocation change
1	Preparation of 2021 Annual Report	\$40,000	No Change
2	Support to the development of a Basin Accounting Framework and Funding/Financing Alternatives	\$25,000	Component 2 is located in; line- item "Funding and Financing"
3	Response to DWR GSP Comments		Reduce allocation from \$50k to 25K; transfer \$25K to line-item "Funding and Financing"
Total		\$90,000	No new appropriation needed

2. Development of a basin accounting framework and an evaluation of funding and financing alternatives (Davids Engineering):

- A RFQ was issued by the GWA and resulted in the selection of Davids Engineering, Inc. for this project.
- The adopted FY 21-22 budget allocated \$75,000 to line-item "Funding and Financing" for this project.
- Davids Engineering's proposal identified their fee to be \$175,000.
- A \$100,000 reduction in line-item "Reserve Cost" and transferred to line-item "Funding and Financing" is recommended to fund Agreement.
- No increase in appropriation is necessary to fund Agreement with David's Engineering.
- A. The following table highlights proposed changes in line-item allocations to fund contract with Davids Engineering:

Line-Item	Adopted Allocation	Proposed Increase/(Decrease)	"Funding & Financing" Line-Item addition
Reserve Cost	\$200,000	(\$100,000)	\$100,000
Funding & Financing	\$75,000	0	\$75,000
Total			\$175,000

B. The following table highlights proposed changes in line-item allocations as a result of changes in tables A & B above.

Line-Item	Adopted Allocation	Proposed Incr/(Decr)	Transferred to Line-Item	Adjusted Total
Response to DWR			B.A F & Funding &	
Review	\$50,000	(\$25,000)	Financing	\$25,000
			B.A F & Funding &	
Reserve Cost	\$200,000	(\$100,000)	Financing	\$100,000
B.A F & Funding				
& Financing	\$82,500	(\$125,000)	-	\$207,500
FY 21/22 Reserve				
Contribution	\$200,000	(\$100,000)		\$100,000
Estimated Carry				
over balance to				
Reserves	\$370,000	(\$100,000)		\$270,000

Recommendation

Approve the proposed Amendment to the Fiscal Year 2021-2022 Budget (Exhibit B).

EXHIBIT A R-21-02

Eastern San Joaquin Groundwater Authority Fund 21451 2021-2022 Budget

	101111	imal Activity				
		FY 21-22	62	21100802		
Revenue	Contract /ODC			Staff		Total
Interest Income					\$	-
GWA GSAs Cost Allocation	\$	325,000			\$	325,000
Other Govt Aid From Zone 2	\$	225,000			\$	225,000
State (DWR) Sustainable GW Grant	\$	175,000			\$	175,000
P68 Implementation Grant	\$	225,000			\$	225,000
Rebates & Refunds					\$	-
Carry Over (use of fund balance)	\$	100,000			\$	100,000
Allocated from FY 20/21 Reserve	\$	130,000			\$	130,000
TOTAL REVENUES	\$	1,180,000			\$	1,180,000
Expense						
General Office Supplies	\$	500			\$	500
Office Expense	\$	500			\$	500
Office Supplies-Purch-ISF	Ŷ	500			\$	
Website Maintenance	\$	5,000			\$	5,000
Advertising	Ŷ	5,000			\$	
Rents Structures & Grounds	\$	4,800			\$	4,800
Small Tools & Instruments	Ŷ	4,000			\$	4,000
Postage	\$	1,000			\$	1,000
Auditor's Payroll & A/P Charges	\$ \$	1,000			\$	1,000
Professional Services PW Admin	Ş	1,000	Ś	15,000	\$	15,000
Professional Services PW Admin	\$	15,000	\$	15,000	\$	30,000
Professional Services GWA Support/Coordination	Ļ	15,000	ې Ś	25,000	\$	25,000
Special Studies & Reports			Ŷ	23,000	Ś	23,000
WaterSMART Applied Science 2021	\$	12,500	Ś	7,500	\$	20,000
Response to DWR Review	\$	50,000	\$	15,000	\$	65,000
2022 Annual Report	\$	40,000	\$	7,500	\$	47,500
Project Development: FIRO/FloodMAR/GRAT	Ŷ	40,000	\$	7,500	\$	7,500
Grants and Matching Fund Support	\$	-	Ś	10,000	Ś	10,000
Prof Services Prop 1 Grant (A-18-01)				-,	\$	-
Professional Services (WC A-18-01) Shallow Wells	\$	175,000			\$	175,000
Professional Services (WC A-20-01)	Ŧ	270,000			\$	
A-20-1 Original (TO1). 2020 Annual Report& Support					\$	-
(P 68, TO2) DMS Implementation			\$	20,000	\$	20,000
(P 68, TO2) Monitoring Network Expansion Engineering			\$	7,500	\$	7,500
(P68, No TO) Monitoring Network Expansion Drilling	\$	175,000	Ś	10,000	\$	185,000
TO 3. 2021 Annual Report	Ŧ	270,000	Ŧ	20,000	\$	
TO 4 Model Devel & Support	\$	130,000			\$	130,000
Professional Services P68 Grant	, , , , , , , , , , , , , , , , , , ,	100,000			\$	
(P68, No TO) Funding and Financing (P68 Impl Grant) (No TO)	\$	75,000	\$	7,500	\$	82,500
County Counsel Legal Services	\$	5,000	Ŷ	,,500	\$	5,000
Professional Services Counsel	\$	40,000			\$	40,000
Reserve- dedication of carry over	\$	100,000			Ŷ	40,000
Reserve Costs (\$50K model, \$150K GSP update)	\$	200,000			\$	200,000
	5	200,000			7	200,000

			Reserve
		Ba	alance FY
			21/22
Reserve 20/21	\$ 200,000)	
FY 20/21, Allocated to TO4 model	\$ 130,000)	
Reserve Balance at end of 2021	\$ 70,000)	
FY 21/22 Reserve Contribution	\$ 200,000) \$	270,000
Estimated Carry over bal to Reserve	\$ 100,000) \$	370,000

**

Eastern San Joaquin Groundwater Authority Fund 21451 2021-2022 Amended Budget . .

	Adopted (R-21-02)						Propos	sec	d (Ame	nd	led)	
		FY 21-22	r	221100802		<i>.</i>	FY 21-22			221100802		
Revenue	Co	ntract /ODC		Staff		Total	Co	ntract /ODC		Staff		Total
GWA GSAs Cost Allocation	\$	325,000			\$	325,000	\$	325,000			\$	325,00
Other Govt Aid From Zone 2	\$	225,000			\$	225,000	\$	225,000			\$	225,00
State (DWR) Sustainable GW Grant (Well)	\$	175,000			\$	175,000	\$	175,000			\$	175,00
P68 Implementation Grant (WAF & FF)	\$	225,000			\$	225,000	\$	225,000			\$	225,00
Carry Over (use of fund balance)	\$	100,000			\$	100,000	\$	100,000			\$	100,00
Allocated from FY 20/21 Reserve	\$	130,000			\$	130,000	\$	130,000			\$	130,00
TOTAL REVENUES	\$	1,180,000			\$:	1,180,000	\$	1,180,000			\$:	1,180,00
Expense												
General Office Supplies	\$	500			\$	500	\$	500			\$	50
Office Expense	\$	500			\$	500	\$	500			\$	500
Website Maintenance	\$	5,000			\$	5,000	\$	5,000			\$	5,00
Rents Structures & Grounds	\$	4,800			\$	4,800	\$	4,800			\$	4,80
Postage	\$	1,000			\$	1,000	\$	1,000			\$	1,00
Auditor's Payroll & A/P Charges	\$	1,000			\$	1,000	\$	1,000			\$	1,00
Professional Services PW Admin			\$	15,000	\$	15,000			\$	15,000	\$	15,00
Professional Services Public Outreach	\$	15,000	\$	15,000	\$	30,000	\$	15,000	\$	15,000	\$	30,00
Professional Services GWA Support/Coordination			\$	25,000	\$	25,000			\$	25,000	\$	25,00
Special Studies & Reports					\$	-					\$	
WaterSMART Applied Science 2021	\$	12,500	\$	7,500	\$	20,000	\$	12,500	\$	7,500	\$	20,000
Response to DWR Review (WC TO 5)	\$	50,000	\$	15,000	\$	65,000	\$	25,000	\$	15,000	\$	40,000
2022 Annual Report (WC TO 5)	\$	40,000	\$	7,500	\$	47,500	\$	40,000	\$	7,500	\$	47,500
Project Development: FIRO/FloodMAR/GRAT			\$	7,500	\$	7,500			\$	7,500	\$	7,500
Grants and Matching Fund Support	\$	-	\$	10,000	\$	10,000	\$	-	\$	10,000	\$	10,000
Professional Services (WC A-18-01) Shallow Wells	\$	175,000			\$	175,000	\$	175,000			\$	175,000
(P 68, TO2) DMS Implementation			\$	20,000	\$	20,000			\$	20,000	\$	20,00
(P 68, TO2) Monitoring Network Expansion Engineering			\$	7,500	\$	7,500			\$	7,500	\$	7,50
(P68, No TO) Monitoring Network Expansion Drilling	\$	175,000	\$	10,000	\$	185,000	\$	175,000	\$	10,000	\$	185,00
TO 4 Model Devel & Support	\$	130,000			\$	130,000	\$	130,000			\$	130,000
Basin Accounting Framework & Funding and Financing												
(P68 Impl Grant) (David's 175K Agreeement& WC TO 5 -												
\$25K)	\$	75,000	\$	7,500	\$	82,500	\$	200,000	\$	7,500	\$	207,500
County Counsel Legal Services	\$	5,000			\$	5,000	\$	5,000			\$	5,00
Professional Services Counsel	\$	40,000			\$	40,000	\$	40,000			\$	40,000
Reserve- dedication of carry over	\$	100,000					\$	100,000			\$	100,00
Reserve Costs (\$50K model, \$150K GSP update)	\$	200,000			\$	200,000	\$	100,000			\$	100,000
TOTAL EXPENSES	\$	1,030,300	\$	147,500	\$ 1	1,077,800	\$	1,030,300	\$	147,500	\$	1,177,80
					F	Reserve					ŀ	Reserve
						Reserve lance FY						Reserve Ilance F`

	Balanoo I I
	21/22
\$200,000	
\$130,000	
\$ 70,000	
\$200,000	\$ 270,000
\$100,000	\$ 370,000
	\$130,000 \$70,000

,			
\$ 100,000		\$ 100,000	**
\$ 1,030,300	\$ 147,500	\$ 1,177,800	*
		Reserve	1
		Balance FY	
		21/22	
	\$200,000		
	\$130,000		
	\$ 70,000		
	\$100,000	\$ 170,000	*
	\$100,000	\$ 270,000	*

* = Appropriation Adjustment

** = Allocation Adjustment

BEFORE THE BOARD OF DIRECTORS OF THE EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

RESOLUTION R-21-

RESOLUTION AMENDING THE 2021-2022 BUDGET

WHEREAS, the Eastern San Joaquin Groundwater Authority (GWA) is a Joint Powers Agency (JPA) created pursuant to California statute, and which is a public entity separate and apart from the Members; and

WHEREAS, Section 5.1 and Section 5.5 of the JPA Agreement provides that the GWA Board of Directors shall adopt a budget for the GWA for each fiscal year; and

WHEREAS, on June 9, 2021, the GWA Board of Directors adopted the 2021-2022 budget (R-21-02) which included appropriations totaling \$1,077,800 (Exhibit A); and

WHEREAS, it was discovered after the 2021-2022 budget was adopted that a clerical error resulted in the omission of \$100,000 from the total appropriations; and

WHEREAS, an amendment to the 2021-2022 budget **(Exhibit B)** is required to increase appropriations from \$1,077,800 to \$1,177,800 and correspondingly decrease the carryover to reserves; and

WHEREAS, a budget adjustment is recommended to reallocate appropriations to add a fifth task order to Agreement A-20-1 not identified in the 2021-2022 budget and to establish appropriations for consultant activities regarding development of a basin water accounting framework and an evaluation of funding and financing alternatives (**Exhibit C**); and

WHEREAS, on December 8, 2021 the GWA Steering Committee was presented with and concurred on the addition of Task Order five (5) to Agreement A-20-1 by and between the GWA and Woodard & Curran and accepting the proposed Agreement A-21- by and between the GWA and Davids Engineering for the development of a basin water accounting framework and an evaluation of funding and financing alternatives; and

WHEREAS, the Secretary of the GWA, is authorized by GWA Resolution R-21-03 to approve expenditures and execute contracts within the designations and limitations of the approved ESJGWA budget that are made in consultation and with concurrence of the Steering Committee.

NOW, THEREFORE, BE IT RESOLVED:

The GWA Board of Directors hereby approves additional appropriations in the amount of \$100,000 and a corresponding reduction in dedicated carryover to reserves by amending its 2021-2022 budget (**Exhibit B**) and

BE IT FURTHER RESOLVED: The appropriations are hereby reallocated as identified in Exhibit C:

BE IT FURTHER RESOLVED: This amended budget is not intended to create any precedent or reflect an allocation or determination of water rights. The budget is subject to revision for the next fiscal year.

PASSED AND ADOPTED this 8th day of December 2021, by the following vote of the Board of Directors of the Eastern San Joaquin Groundwater Authority, to wit:

AYES:

NOES:

ABSENT

ATTEST: KRIS BALAJI, PMP, P.E. Secretary of the Eastern San Joaquin Groundwater Authority CHUCK WINN, Chairman Board of Directors of the Eastern San Joaquin Groundwater Authority

EXHIBIT A R-21-02

Eastern San Joaquin Groundwater Authority Fund 21451 2021-2022 Budget

	Min	imal Activity				
FY 21-22		6221100802				
Revenue	Contract /ODC Staff			Total		
Interest Income					\$	-
GWA GSAs Cost Allocation	\$	325,000			\$	325,000
Other Govt Aid From Zone 2	\$	225,000			\$	225,000
State (DWR) Sustainable GW Grant	\$	175,000			\$	175,000
P68 Implementation Grant	\$	225,000			\$	225,000
Rebates & Refunds					\$	
Carry Over (use of fund balance)	\$	100,000			\$	100,000
Allocated from FY 20/21 Reserve	\$	130,000			\$	130,000
TOTAL REVENUES	\$	1,180,000			\$	1,180,000
Expense						
General Office Supplies	\$	500			\$	500
Office Expense	\$ \$	500			\$ \$	500
Office Supplies-Purch-ISF	ڔ	500			\$ \$	500
Website Maintenance	\$	5,000			\$	5,000
Advertising	Ş	3,000			\$ \$	5,000
Rents Structures & Grounds	\$	4,800			\$ \$	4 900
Small Tools & Instruments	Ş	4,800			\$ \$	4,800
	ć	1 000				1.000
Postage	\$ \$	1,000			\$	1,000
Auditor's Payroll & A/P Charges	Ş	1,000	ć	45.000	\$	1,000
Professional Services PW Admin	ć	45.000	\$	15,000	\$	15,000
Professional Services Public Outreach	\$	15,000	\$	15,000	\$	30,000
Professional Services GWA Support/Coordination			\$	25,000	\$	25,000
Special Studies & Reports	ć	43 500	ć	7 500	\$	
WaterSMART Applied Science 2021	\$	12,500	\$	7,500	\$	20,000
Response to DWR Review	\$	50,000	\$	15,000	\$	65,000
2022 Annual Report	\$	40,000	\$	7,500	\$	47,500
Project Development: FIRO/FloodMAR/GRAT Grants and Matching Fund Support	ć		\$ \$	7,500	\$ \$	7,500
	\$	-	Ş	10,000		10,000
Prof Services Prop 1 Grant (A-18-01)	<i>.</i>	175.000			\$	
Professional Services (WC A-18-01) Shallow Wells	\$	175,000			\$	175,000
Professional Services (WC A-20-01)					\$	
A-20-1 Original (TO1). 2020 Annual Report& Support					\$	
(P 68, TO2) DMS Implementation			\$	20,000	\$	20,000
(P 68, TO2) Monitoring Network Expansion Engineering			\$	7,500	\$	7,500
(P68, No TO) Monitoring Network Expansion Drilling	\$	175,000	\$	10,000	\$	185,000
TO 3. 2021 Annual Report					\$	
TO 4 Model Devel & Support	\$	130,000	1		\$	130,000
Professional Services P68 Grant			ļ		\$	
(P68, No TO) Funding and Financing (P68 Impl Grant) (No TO)	\$	75,000	\$	7,500	\$	82,500
County Counsel Legal Services	\$	5,000			\$	5,000
Professional Services Counsel	\$	40,000			\$	40,000
Reserve- dedication of carry over	\$	100,000				
Reserve Costs (\$50K model, \$150K GSP update)	\$ \$	200,000			\$	200,000
TOTAL EXPENSES	\$	1,030,300	\$	147,500	\$	1,077,800

			Reserve
		Ba	alance FY
			21/22
Reserve 20/21	\$ 200,000		
FY 20/21, Allocated to TO4 model	\$ 130,000		
Reserve Balance at end of 2021	\$ 70,000		
FY 21/22 Reserve Contribution	\$ 200,000	\$	270,000
Estimated Carry over bal to Reserve	\$ 100,000	\$	370,000

EXHIBIT B R-21-

Eastern San Joaquin Groundwater Authority Fund 21451 2021-2022 Amended Budget

	Adopted (R-21				1-0	2)
	FY 21-22		6	6221100802		
Revenue		ntract /ODC		Staff		Total
GWA GSAs Cost Allocation	\$	325,000			\$	325,000
Other Govt Aid From Zone 2	\$	225,000			\$	225,000
State (DWR) Sustainable GW Grant (Well)	\$	175,000			\$	175,000
P68 Implementation Grant (WAF & FF)	\$	225,000			\$	225,000
Carry Over (use of fund balance)	\$	100,000			\$	100,000
Allocated from FY 20/21 Reserve	\$	130,000			\$	130,000
TOTAL REVENUES	\$	1,180,000			\$	1,180,000
Expense						
General Office Supplies	\$	500			\$	500
Office Expense	\$	500			\$	500
Website Maintenance	\$	5,000			\$	5,000
Rents Structures & Grounds	\$	4,800			\$	4,800
Postage	\$	1,000			\$	1,000
Auditor's Payroll & A/P Charges	\$	1,000			\$	1,000
Professional Services PW Admin		,	\$	15,000	\$	15,000
Professional Services Public Outreach	\$	15,000	\$	15,000	\$	30,000
Professional Services GWA Support/Coordination			\$	25,000	\$	25,000
Special Studies & Reports					\$	
WaterSMART Applied Science 2021	\$	12,500	\$	7,500	\$	20,000
Response to DWR Review (WC TO 5)	\$	50,000	\$	15,000	\$	65,000
2022 Annual Report (WC TO 5)	\$	40,000	\$	7,500	\$	47,500
Project Development: FIRO/FloodMAR/GRAT			\$	7,500	\$	7,500
Grants and Matching Fund Support	\$	-	\$	10,000	\$	10,000
Professional Services (WC A-18-01) Shallow Wells	\$	175,000		· ·	\$	175,000
(P 68, TO2) DMS Implementation			\$	20,000	\$	20,000
(P 68, TO2) Monitoring Network Expansion Engineering			\$	7,500	\$	7,500
(P68, No TO) Monitoring Network Expansion Drilling	\$	175,000	\$	10,000	\$	185,000
TO 4 Model Devel & Support	\$	130,000			\$	130,000
Basin Accounting Framework & Funding and Financing		8			-	-
(P68 Impl Grant) (David's 175K Agreeement& WC TO 5 -						
\$25K)	\$	75,000	\$	7,500	\$	82,500
County Counsel Legal Services	\$	5,000	Ė		\$	5,000
Professional Services Counsel	\$	40,000			\$	40,000
Reserve- dedication of carry over	\$	100,000				;
Reserve Costs (\$50K model, \$150K GSP update)	\$	200,000			\$	200,000
TOTAL EXPENSES	\$	1,030,300	\$	147,500		1,077,800
			•			Reserve
					L	

		d (Ame		FY 21-22	
Total	Staff		Contract /ODC		
\$ 325,000	Ś			325,000	\$
\$ 225,000				225,000	\$
\$ 175,000				175,000	\$
\$ 225,000				225,000	\$
\$ 100,000				100,000	\$
\$ 130,000				130,000	\$
\$ 1,180,000	· ·		_	1,180,000	\$
\$ 500	Ś		0	500	\$
\$ 500				500	\$
\$ 5,000				5,000	
\$ 4,800	\$			4,800	\$ \$
\$ 1,000				1,000	\$
\$ 1,000				1,000	\$
\$ 15,000	-	15,000	\$, -	
\$ 30,000		15,000		15,000	\$
\$ 25,000	\$	25,000	\$		
\$-					
\$ 20,000	\$	7,500		12,500	\$
\$ 40,000	\$	15,000		25,000	\$
\$ 47,500	\$	7,500		40,000	\$
\$ 7,500		7,500	\$		
\$ 10,000		10,000	- \$	-	\$
\$ 175,000			0	175,000	\$
\$ 20,000		20,000	\$		
\$ 7,500	-	7,500	\$		
\$ 185,000		10,000	0\$	175,000	\$
\$ 130,000	\$		0	130,000	\$
\$ 207,500	Ś	7,500	0\$	200,000	\$
\$ 5,000		,		5,000	
\$ 40,000				40,000	\$ \$
\$ 100,000				100,000	\$
\$ 100,000				100,000	\$
\$ 1,177,800	\$	147,500		1,030,300	\$
Reserve					
Balance FY					
21/22					
		200,000	\$		
		130,000	\$		
		70,000	\$		
\$ 170,000 \$ 270,000		100,000 100,000			

Balance FY 21/22

\$200,000 \$130,000

\$ 70,000 \$200,000 \$ 270,000 \$100,000 \$ 370,000

* = Appropriation Adjustment ** = Allocation Adjustment

Reserve 20/21 FY 20/21, Allocated to TO4 model Reserve Balance at end of 2021 FY 21/22 Reserve Contribution Estimated Carry over bal to Reserve

EXHIBIT C

PROPOSED BUDGET ALLOCATION ADJUSTMENTS

The following paragraphs and tables outline proposed 2021-2022 budget allocation adjustments to add a fifth task order to Agreement A-20-1 and to establish appropriations for consultant activities regarding development of a basin water accounting framework and an evaluation of funding and financing alternatives.

1. Addition of Task Order No. 5 to Agreement A-20-1 (Woodard and Curran):

- Components 1 and 3 of Task Order No. 5 were allocated \$90,000 in total appropriations in the adopted FY 21-22 budget.
- Woodard and Curran's current cost proposal for components 1 and 3 is \$65,000, and the inclusion of Component 2 is \$25,000.
- No increase in appropriation is necessary to fund the addition of Task Order No. 5 to A-20-1.

Component	Function	Cost	Budget allocation change
1	Preparation of 2021 Annual Report	\$40,000	No Change
2	Support to the development of a Basin Accounting Framework and Funding/Financing Alternatives	\$25,000	Component 2 is located in; line- item "Funding and Financing"
3	Response to DWR GSP Comments	\$25,000	Reduce allocation from \$50k to 25K; transfer \$25K to line-item "Funding and Financing"
Total		\$90,000	No new appropriation needed

The three components to Task Order No. 5 and the associated costs are illustrated in the following table:

2. Development of a basin accounting framework and an evaluation of funding and financing alternatives:

- A RFQ was issued by the GWA and resulted in the selection of Davids Engineering, Inc. for this project.
- The adopted FY 21-22 budget allocated \$75,000 to line-item "Funding and Financing" for this project.
- Davids Engineering's proposal identified their fee to be \$175,000.
- A \$100,000 reduction in line-item "Reserve Cost" and transferred to line-item "Funding and Financing" is recommended to fund Agreement.
- No increase in appropriation is necessary to fund Agreement with David's Engineering.

A. The following table highlights proposed changes in line-item allocations to fund contract with Davids Engineering:

Line-Item	Adopted Allocation	Proposed Increase/(Decrease)	"Funding & Financing" Line-Item addition
Reserve Cost	\$200,000	(\$100,000)	\$100,000
Funding & Financing	\$75,000	0	\$75,000
Total			\$175,000

B. The following table highlights proposed changes in line-item allocations as a result of changes in tables A & B above.

Line-Item	Adopted Allocation	Proposed Incr/(Decr)	Transferred to Line-Item	Adjusted Total	
Response to DWR			B.A F & Funding &		
Review	\$50,000	(\$25,000)	Financing	\$25,000	
Reserve Cost	\$200,000	(\$100,000)	B.A F & Funding & Financing	\$100,000	
B.A F & Funding	φ200,000	(\$100,000)	Tinancing	φ100,000	
& Financing	\$82,500	\$125,000	-	\$207,500	
FY 21/22 Reserve Contribution	\$200,000	(\$100,000)		\$100,000	
Estimated Carry over balance to Reserves	\$370,000	(\$100,000)		\$270,000	



STAFF REPORT

December 2, 2021

To: TAC, SC and Board

From: Matt Zidar, Water Resources Manager

RE: DWR SGMA Implementation Grant Proposal Solicitation Package and ESJ GWA Strategy

Background

The Department of Water Resources (DWR) is administering the Sustainable Groundwater Management (SGM) Grant Program's SGMA Implementation – Planning and Projects Grant solicitations process. Only one proposal can be submitted from each region. The Eastern San Joaquin Groundwater Authority (GWA) needs a strategy to take maximum advantage of the opportunity and continue to implement the Eastern San Joaquin Groundwater Sustainability Plan (GSP). Up to \$7.6M is available to each Critically Overdraft (COD).

Discussion

A. <u>Proposal Solicitation Package and Requirements</u>

DWR is administering the Sustainable Groundwater Management (SGM) Grant Program's SGMA Implementation – Planning and Projects Grant solicitations using funds authorized by the California Budget Act of 2021 (Stats. 2021, ch. 240, § 80) (Budget Act) and Proposition 68 for projects that encourage sustainable management of groundwater resources that support SGMA and/or invest in groundwater recharge projects with surface water, stormwater, recycled water, and other conjunctive use projects. The Budget Act can also provide funding for planning activities that support SGMA implementation. The draft Proposal Solicitation Package (PSP) was released in October 2021. Comments were due on November 29, 2021.

There will be two rounds of funding. Round 1 will distribute \$152 M to Critically Overdrafted Basis (CODs) which will be split evenly between COD basins with each receiving \$7.6 Of that amount, a minimum of \$3.7 must be used for activities that include;

- Geophysical investigation(s) of groundwater basins to identify recharge potential (e.g., Aerial Electromagnetic Surveys);
- Early implementation of existing regional flood management plans that incorporate groundwater recharge (e.g., basin recharge using floodwater); or
- Projects that would complement efforts of a local GSP, that provide for floodplain expansion to benefit groundwater recharge or habitat (e.g., basin recharge using peak flows from a river, creek, or stream).PSP)

If this \$3.7 "directed action" money is not fully used consistent with the intent above, then the money can be allocated by DWR to other areas outside the Eastern San Joaquin Subbasin.

Only one Spending Plan will be accepted per COD Basin. The Budget Act requires all funding agencies to use a competitive process to expedite execution of grant agreements and get the funding out to eligible applicants as quickly as possible. Each **COD Basin will be required to conduct a self-evaluation** of their project list using the scoring criteria outlined in the PSP (Table 7) to determine which projects are the most competitive within the basin. These self-evaluations shall be submitted as backup documentation to a **Spending Plan**. The Spending Plan must be in the template provided by DWR. Any other format will not be reviewed and the funding for that COD Basin will be forfeited. Each applicant should provide a Spending Plan for a minimum of \$10 million for the SGM Grant Program staff to review and rank. The purpose for submitting \$10M in projects is to leave room from negotiation and to identify funding priorities should the legislature decide to increase the budget appropriation to the SGMA grant program. The COD Basin applicants have until noon on January 31, 2022 to submit the proposal for the region.

B. ESJ Strategy

A call for Project was issued to all members of the GWA on October 29, 2021, and responses were due by November 9, 2021. Two project proposals were received on for the North San Joaquin Water Conservation District North Systems Improvement and one from San Joaquin County on behalf of the Mokelumne River Water and Power Authority for development of the project to take the water available under water rights Application 29835. In addition, staff has been working to develop project concepts to take maximum advantage of the \$3.7M in directed action money. A preliminary draft Spending Plan is attached to facilitate further discussion of the ESJ Strategy. Per the grant requirements a project review committee is to identify the projects to be included in the final proposal. The Steering Committee has delegated the responsibility to the Technical Advisory Committee to serve as the project review committee. Board of Directors will make the final selection based on a TAC recommendation.

Recommendation

A. TAC to achieve consensus on a potential work plan that incorporates the two submitted projects from NSJWCD and SJC, and additional project concepts to meet the minimum \$10 million spending plan requirement.

December 2021 DWR Updates (from DWR's North Central Region Office) <u>Grants</u>

California Grants Portal

The California State Library, in partnership with the Department of Water Resources and other state grantmaking agencies, has launched the California Grants Portal – your one destination to find all state grant and loan opportunities provided on a first-come or competitive basis. Visit <u>grants.ca.gov</u> to find funding opportunities for you and your community.

DWR: DRAFT SGMA Funding Guidelines and Proposal Solicitation Package

The California Department of Water Resources (DWR) has released the draft <u>Guidelines</u> and <u>Proposal</u> <u>Solicitation Package</u> (PSP) for the <u>Sustainable Groundwater Management (SGM) Grant Program's</u> Sustainable Groundwater Management Act (SGMA) Implementation Funding. Round 1 will provide over \$150 million by spring 2022 to regional groundwater agencies in critically overdrafted basins for planning and implementation projects to help comply with SGMA. Future solicitation in 2022-2023 will provide over \$204 million from various funding sources. <u>The public comment period has closed, and the final solicitation is expected to open in</u> <u>December, 2021</u>.

DWR: \$200 Million Drought Funding to Support Small Communities

DWR released <u>guidelines</u> for how small water systems may apply for funds as part of the Small Community Drought Relief Program. Eligible projects must be designed to benefit small communities (< 3,000 connections or 3,000 AFY) located in counties under Governor Newsom's drought emergency proclamations or which the SWRCB may determines that drought conditions necessitate urgent and immediate action. Small communities impacted by the drought are <u>encouraged to apply as soon as possible as funds will be dispersed on a first come</u> <u>first serve basis</u> and can submit applications or questions to <u>SmallCommunityDrought@water.ca.gov</u>. This grant will fund projects that provide immediate or interim drinking water supplies such as hauled or bottled water deliveries, deepening of wells, new or temporary water tank storage, new pipelines and connections to more reliable nearby systems, etc. No local cost share is required.

DWR: Final PSP for \$200 Million Drought Funding for Urban and Multibenefit Projects

We are pleased to announce the release of the <u>FINAL 2021 Guidelines/Proposal Solicitation Package</u> for the Urban and Multibenefit Drought Relief Grant Program for public review. This solicitation will make approximately **\$190 million in grant funding** available for interim or immediate relief in response to conditions arising from drought across California. The drought relief goal is to address immediate impacts on human health and safety and on fish and wildlife resources, and to provide water to persons or communities that lose or are threatened with the loss or contamination of water supplies. <u>Applications will be received on a rolling basis, but those received by November 19th will be considered for the first batch of awards. Applications that are not awarded in the first phase and new applications submitted between November 20 and December 17, 2021 will be considered for the second phase of awards.</u>

CalOES: 2021 funding opportunity for FEMA's Hazard Mitigation Grant Program

This opportunity provides funding for communities to implement mitigation activities to reduce risk to life and property from natural hazards. In CA, natural hazards include wildfire, earthquake, drought, extreme weather, flooding, and other impacts of climate change. HMGP funding can also support the development of Local Hazard Mitigation Plans (LHMP) and project scoping activities. The deadline for NOI submission is December 13th and more information can be found here.

Berkeley: Funding Opportunity for Government Innovators

<u>The People Lab</u> at UC Berkeley invites applications from government agencies and nonprofits across California to co-design and test innovative policy ideas that have the potential to meaningfully improve the lives of Californians. Grant awards will include 2 years of technical support from UC Berkeley's The People Lab and

December 2021 DWR Updates (from DWR's North Central Region Office)

\$100,000 - \$150,000 for project implementation. Applications are being accepted on a rolling basis, and more info can be found here.

Other state & federal grant websites for resources that may be helpful are:

- California Financing Coordinating Committee -- https://cfcc.ca.gov/, and
- CalOES grants -- <u>https://www.caloes.ca.gov/cal-oes-divisions/grants-management</u>
- US EPA -- https://www.epa.gov/grants/specific-epa-grant-programs, and
- Economic Development Administration -- https://eda.gov/funding-opportunities/

Upcoming conferences, webinars, new reports and data

DWR Released California's Groundwater Update 2020 (formerly Bulletin 118) and California's Groundwater Live Online

The Department of Water Resources (DWR) today released the final <u>California's Groundwater – Update 2020</u> (<u>Bulletin-118</u>), containing information on the condition of the State's groundwater, which is especially important with most of California facing ongoing drought conditions. DWR has also developed a companion web-based application called <u>California's Groundwater Live</u> (CalGW Live), leveraging the <u>California Natural Resources</u> <u>Agency Open Data Platform</u> (Open Data) to improve the access and timeliness of statewide groundwater information. The easy-to-use interface will make many of the data sets used in CalGW Update 2020 available in an interactive map format that will be updated regularly for viewing and downloading.

For more information, visit the updated California's Groundwater website Contact: CalGW@water.ca.gov

Multibenefit Land Repurposing Program, Department of Conservation

Two workshops to hear what stakeholders would like to see in our upcoming Multibenefit Land Repurposing Program. Implementation of the Sustainable Groundwater Management Act requires coordinated management of landscapes to minimize economic, social, and environmental impacts from the transition of agricultural lands to less water-intensive land uses while providing benefits to local and regional communities. The Multi-Benefit Land Repurposing Program seeks to increase regional capacity to repurpose agricultural land to reduce reliance on groundwater while providing community health, economic wellbeing, water supply, habitat, renewable energy, and climate benefits. Registration for workshop on December 2^{nd} from 5 - 7pm is here or comments can be sent to shanna.atherton@conservation.ca.gov.

Updated Groundwater Conditions Report and Maps Available

The <u>California Groundwater Conditions Update – Spring 2021</u> report and accompanying <u>maps</u> are available on DWR's Data and Tools webpage. The report and maps include a discussion of groundwater level trends with multi-year comparisons to spring 2021 groundwater level data.

Week of Webinars on Statewide Groundwater Management Efforts

DWR is hosting a week of webinars on statewide groundwater management efforts. All presentations were recorded and will be posted on the SGMA webpage shortly.

- 2022 Groundwater Sustainability Plan (GSP) Submittal Workshop
- 2022 Alternative 5-year Update Submittal Workshop
- Resources for Sustainable Groundwater Management Act (SGMA) Implementation
- Accessing Groundwater Data and Tools

December 2021 DWR Updates (from DWR's North Central Region Office)

Water Board: Drinking water needs assessments

For the first time, the State Water Resources Control Board has completed a comprehensive look at California water systems that are struggling to provide safe drinking water. <u>The needs assessment</u> identifies failing water systems and those at risk of failing. It also offers the most in-depth view of long-term drinking water safety the state has ever had. Details are available in this <u>news release</u>.

<u>SGMA</u>

Dry Well Reporting Site

There is a website available to <u>report private wells going dry</u> at <u>https://mydrywatersupply.water.ca.gov/report/</u> This information reported to this site is intended to inform state and local agencies on drought impacts on household water supplies. The data reported on this site (excluding personal identifiable information) can be viewed on the <u>SGMA data viewer</u> or downloaded on the <u>CNRA Atlas</u>. Individuals or local agencies can report water shortages and <u>a list of resources are included on the webpage</u>. The reporting forms are available in both English and Spanish.

DWR is developing eight Proposition 68-funded technical projects

These projects include airborne electromagnetic surveys, improving groundwater elevation and quality monitoring networks, Statewide land use data collection, improved subsidence monitoring network, installing and maintaining stream gauges, maintaining and enhancing statewide well completion reports, managing and reporting sustainable groundwater information, and enhancing and maintaining DWR's modeling tools. Fact sheets on each project can be viewed under the "Prop 68" tab <u>here</u>.

- <u>AEM webpage</u> contains information on the how the process works, safety, schedule, data submission by GSAs, TAC, pilot study data and more. Public webinar was held June 8th 12:00 1:00, a recording can be viewed here and handouts can be downloaded here. Sonoma Valley Basins were surveyed in November, 2021 and North San Joaquin and Southern Sacramento basins planned for surveying in April 2022.
- <u>2018 Statewide Crop Mapping data</u> dataset builds on the 2014 and 2016 statewide crop mapping datasets DWR previously released and includes multi-cropping information. The 2018 dataset includes agricultural land use and urban boundaries for all 58 counties in California. Water year 2019 is planned to be released in 2022.
- InSAR subsidence data is now available <u>through October of 2020</u> and can be viewed on the <u>SGMA data</u> <u>viewer</u>. The updated GIS services and data reports are also available <u>online</u>. Future data will be released on a quarterly basis.

DWR Releases First and Second batches of GSP Assessments

On June 3rd, DWR released its first assessments of groundwater sustainability plans, which includes the approval of GSPs for the Santa Cruz Mid-County Basin and the 180/400-Foot Aquifer Subbasin. In addition, DWR also notified GSAs in the Cuyama Valley Basin and Paso Robles Subbasin that their GSPs lack specific details and are not yet approved. **On November 18th, 2021 the next round of assessments were released** including the approval of GSPs for the North and South Yuba Subbasins in Yuba County and the Oxnard Subbasin and Pleasant Valley Basin in Ventura County. In addition, DWR also notified groundwater sustainability agencies (GSAs) in the Eastern San Joaquin Subbasin, Merced Subbasin, Chowchilla Subbasin, and Westside Subbasin that their GSPs lack specific details and are not yet approved. These assessments and notification letters, along with other pertinent information, can be viewed <u>here on the DWR SGMA Portal</u>. Alongside the assessments, DWR has also prepared:

December 2021 DWR Updates (from DWR's North Central Region Office)

Outreach and Educational Materials Available

DWR's <u>SGMA Assistance and Engagement webpage</u> has added new communication and engagement toolkit items including:

- A new video Groundwater: California's Vital Resource now available in English, Spanish, Punjabi, and Hmong
- A Story Map for a non-technical audience <u>Groundwater: Understanding and Managing this Vital Resource</u>
- <u>Guidance on Engaging and Communicating with Underrepresented Groundwater Users</u>
- SGMA Communications: Media Relations and Social Media, including DWR's Groundwater Media Contacts
- "DWR's Assistance Role in Groundwater Management" video: English and Spanish

CASGEM to Monitoring Network Module Transition Frequently Asked Questions Available

The <u>CASGEM to Monitoring Network Module Transition Frequently Asked Questions</u> (FAQ) document covers questions related to the Groundwater Monitoring Law, the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, a GSP's required monitoring, the SGMA Portal's Monitoring Network Module (MNM), and a basin's or subbasin's transition from the CASGEM Online System to the SGMA Portal's Monitoring Network Module .

SGMA Water Year Type Dataset Now Available

In the dataset, the water years are labeled as wet, above normal, below normal, dry, or critical based on the amount of precipitation during that water year and the previous one. The information is available for all California watersheds except those underlying the Sacramento River and San Joaquin River Hydrologic Regions since that information is already available. Data and a development report are now available.

SVSim Beta Model Released

DWR has released the beta version of the <u>Sacramento Valley Groundwater-Surface Water Simulation Model</u> (<u>SVSim</u>) that can be used during GSP development. Instructions for use are included in the <u>Roadmap to Running</u> <u>SVSim</u> document.

C2VSim Fine Grid Update Published April 2021

DWR has released an update to the Fine-Grid California Central Valley Groundwater-Surface Water Simulation (C2VSimFG) Model, which can be used by Groundwater Sustainability Agencies (GSAs) developing water budgets for their GSPs. <u>C2VSimFG Version 1.01</u> utilizes the latest version of the Integrated Water Flow Model software and corrects minor errors in the model files. These updates do not significantly affect the overall model calibration; however, resulting changes to simulated groundwater levels may vary by basin.

Draft Handbook for Water Budget Development

The handbook has been posted on the SGMA webpage and can be <u>viewed at the following link</u> under the "reports" tab. A recent webinar discussing the handbook with a deeper dive on 4 topics <u>can be viewed here</u>.

California Groundwater Conditions Update Report and Maps Available

The <u>California Groundwater Conditions Update – Spring 2020</u> report and accompanying <u>maps</u> are available on the DWR website and present a summary of groundwater level data. The report and maps include a discussion of groundwater level trends with multi-year comparisons which can assist with the development of Groundwater Sustainability Plans (GSPs).

Facilitation Support Services (FSS): Funding still available

- GSA's developing GSPs are eligible to receive funding for identification and engagement of interested parties, meeting facilitation, interest-based negotiation/consensus building, and public outreach facilitation
- More information <u>can be found here</u>. <u>New written translation services available in 10 languages for outreach</u> <u>materials (5,000 word maximum).</u>