

CGA/GGA Joint Technical Advisory Committee Meeting  
Agenda Packet

October 14, 2022



# CGA/GGA Joint Technical Advisory Committee

## Meeting Agenda

October 14, 2022 | 1:00 p.m.

225 North Tehama Street, Willows, CA 95988

Alternate Meeting Locations:

4485 Spring Meadows Circle, Flagstaff, AZ 86004

3599 Shiloh Road, Modesto, CA 95358

1115 Tess Dr., Arbuckle, CA 95912

**Public input is welcome in person or via Microsoft Teams**

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\* Indicates an Action Item

**1. Call to Order, Roll Call, and Introductions**

**2. Approval of Minutes (CGA TAC, GGA TAC)**

a. **\*August 12, 2022 CGA/GGA Joint TAC Meeting Minutes (GGA Only)**

b. **\*September 9, 2022 CGA/GGA Joint TAC Meeting Minutes**

**3. Period of Public Comment**

*At this time, members of the public may address the Technical Advisory Committee (TAC) Members regarding items that are not on the agenda but are of relevance. The TACs may not act on items not on the agenda.*

**4. Presentation: Sycamore Slough Reconnection and Recharge PMA Proposal**

**5. Discussion of 2022/2023 Grant Application/Project Prioritization**

a. **\*Recommendation to GSAs on projects or components to include in the 2022/2023 Sustainable Groundwater Management Round 2 grant application.**

**6. Member Reports and Comments**

**7. Next meeting**

**8. Adjourn**

A complete agenda packet, including back-up information, is available for inspection during normal business hours at 1213 Market Street, Colusa, CA 95932 or 225 N. Tehama St., Willows, CA 95988. The full agenda packet can also be found on the CGA and GGA websites: [Agendas and Minutes 2022 | Colusa Groundwater Authority \(CGA\)](#)

<https://www.countyofglenn.net/dept/planning-community-development-services/water-resources/glenn-groundwater-authority/gga>

In compliance with the Americans with Disability Act, if you require special accommodation to participate in this meeting, please contact the Colusa County Water Resources Division at 530-458-0891 or Glenn County Water Resources Division at 530-934-6540 prior to any meeting and arrangements will be made to accommodate you.

# Staff Report

**To:** CGA-GGA Joint TAC

**Agenda Item:** 2. Approval of Minutes

**Date:** October 14, 2022

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## Background

The August 12, 2022 CGA/GGA Joint TAC Meeting minutes were approved by the CGA TAC on September 9, 2022. The GGA was unable to take action due to lack of a quorum.

The September 9, 2022 CGA/GGA Joint TAC Meeting minutes have been prepared for review.

## Recommendation

GGA Action Only: Approve the August 12, 2022 CGA/GGA Joint TAC Meeting minutes.

CGA and GGA Action: Approve the September 9, 2022 CGA/GGA Joint TAC Meeting minutes.

## Attachments

- August 12, 2022 CGA/GGA Joint TAC Meeting minutes
- September 9, 2022 CGA/GGA Joint TAC Meeting minutes

# CGA/GGA Joint Technical Advisory Committee Meeting

## MEETING MINUTES

August 12, 2022 | 1:00 p.m.

### In Person Meeting Locations:

Sites Project Authority Office, 122 Old Highway 99 W, Maxwell, CA 95955

4485 Spring Meadows Circle, Flagstaff, AZ 86004

Public input was also welcomed in person or remotely via Microsoft Teams.

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### **1. Call to Order, Roll Call, and Introductions**

Lisa Hunter called the meeting to order at 1:05 p.m.

#### **In Attendance:**

##### **Committee Members:**

GGA: Zac Dickens, Mark Lohse, Emil Cavagnolo and Don Bills.

CGA: Denise Carter, Deke Dormer, Darrin Williams, Ben King, and Jim Wallace. Brandon Davison (DWR, ex-officio) attended remotely as a member of the public. Ms. Carter was absent upon roll call but arrived at 2:27 p.m.

**Others in Attendance:** Lisa Hunter (GGA Staff), Carol Thomas-Keefer (CGA Staff), Grant Davids (Davids Engineering, Inc.), Katie Klug (Davids Engineering), Anna Reimer (West Yost), Hawkeye Sheene (West Yost), Arne Gustafson, Shelly Murphy, Holly Dawley (GCID), Patricia Vellines (DWR), Jenny Scheer, Kamie Loeser, and Ryan Fulton.

### **2. Approval of Minutes (CGA TAC, GGA TAC)**

- a. **\*July 8, 2022 CGA/GGA Joint TAC Meeting**
- b. **\*March 11, 2022 CGA/GGA Joint TAC Meeting**
- c. **\*May 13, 2022 CGA/GGA Joint TAC Meeting**

On motion made by Mr. King, seconded by Mr. Wallace, and unanimously carried, CGA TAC approved the minutes of the July 8, 2022 CGA/GGA Joint TAC Meeting.

On motion made by Mr. Bills, seconded by Mr. Cavagnolo, and unanimously carried, GGA TAC approved the minutes of the July 8, 2022 CGA/GGA Joint TAC Meeting.

On motion made by Mr. Cavagnolo, seconded by Mr. Dickens, and unanimously carried, GGA TAC approved the minutes of the March 11, 2022 and May 13, 2022 CGA/GGA Joint TAC Meetings. It was

noted the CGA TAC approved the March 11, 2022 and May 13, 2022 CGA/GGA Joint TAC minutes at the July 8, 2022 meeting.

### **3. Period of Public Comment**

No public comment was heard.

### **4. Joint TAC Meeting Schedule for Remainder of 2022**

Ms. Hunter reviewed the staff report recommending the Joint TAC schedule monthly meetings through October to meet the DWR grant submittal schedule this fall, with a meeting also scheduled for December. Due to holidays, no meeting was proposed for November. Ms. Hunter also noted that the CGA TAC approved the schedule at the July 8 meeting.

On motion made by Mr. Dickens, seconded by Mr. Lohse, and unanimously carried, the GGA TAC approved the proposed Joint TAC meeting schedule for the remainder of 2022.

### **5. Discussion of 2022/2023 Grant Application/Project Prioritization**

Grant Davids introduced a presentation to review the 2022/2023 SGMA grant funding opportunity, noting that the second solicitation is scheduled to open in October 2022, with approximately \$200 million total available to medium and high priority basins. Only one application per subbasin will be funded, with grants capped at \$20 million per application. Mr. Davids stated that the purpose of today's item was to review the grant application timeline and guidelines, continue discussions on prioritization of potential projects for the grant application, and work to develop a project list that can be brought back to the CGA and GGA boards for recommendation by September or October.

Mr. Davids noted that, as a result of the project prioritization spreadsheet developed and circulated for the last Joint TAC meeting, a few responses from TAC members had been received and the TAC should further that discussion. Mr. King stated that, in preparation for its grant application, Yolo County had sent out a request to stakeholders for additional projects to be considered, and he asked if the same should be done for the Colusa Subbasin application. He noted that he had offered a project last year to staff that was apparently overlooked, and he thought there may be others to consider. Mr. Davids acknowledged the Yolo action and stated that the solicitation had a very condensed timeline. Mr. Williams asked if there was a form available for project submittal that would not require a great deal of outreach.

Mr. Brandon Davison (DWR) reported that the grant solicitation process may be pushed back a month or two, but felt that September/October is still appropriate for finalizing project lists for the application. He also reported that Ms. Kelley List of DWR will host a webinar on August 30 at 11 a.m. regarding the upcoming SGMA implementation grant guidelines, including a question-and-answer period.

Ms. Katie Klug provided details on the upcoming grant opportunity, stating that projects for Disadvantaged, Severely Disadvantaged (SDAC) and Underrepresented Communities would receive higher priority scoring. She also stated that each project within an application would be individually scored, with those scores averaged for the final application score, so all projects within an application should be strong. She noted that projects that would not be eligible for grant funding included water purchases, funding rebate programs, water markets and trading programs, and various travel and expense items. She stated that projects must also comply with any applicable program requirements. Mr. Davison stated that he thought that stormwater discharge requirements (MS4) would not apply due to the size of the communities.

Ms. Klug noted that the following considerations would receive highest priority: applications for basins that have not previously received SGMA Implementation Grant funds; projects that directly benefit SDACs; projects that leverage other funds (private, federal or local) or produce the greatest public benefit, and projects that include water conservation or efficiency, stormwater capture, use of recycled water, or carbon sequestration.

Ms. Klug then reviewed the considerations for prioritization of grant projects, including: support for ongoing development and implementation of Projects and Management Actions (PMAs); support of recharge project implementation; addressing critical data gaps identified in the GSP; updating and improving analytic tools needed to support groundwater management and 5-year GSP updates; supporting interbasin coordination; and addressing GSP deficiencies that may be noted from DWR or others. She pointed out that the potential projects and needs exceed available grant funding, so additional criteria may be considered in the prioritization process, including project cost, eligibility, and time to complete. Some larger projects could potentially be broken into components that could be implemented within the grant timeframe (currently ending June 2025). Other considerations may include broad or basin-wide benefits, benefits in areas of concern (i.e., subsidence), benefits to SDACs and/or Underrepresented Communities, positive impacts to small systems and domestic well owners, cost-sharing potential, shovel-ready status, and quantifiable benefits. Finally, Ms. Klug advised that the group should consider how much funding should be devoted to monitoring (filling data gaps, data management), how much should go to planning, and how much should go toward construction and project implementation. Consideration should also be given to projects proposed by the GSAs versus those proposed by others, and projects with multiple or basin-wide benefits.

Discussion then followed regarding how best to prioritize projects in terms of implementation versus monitoring and planning. Mr. King, Mr. Williams and Mr. Wallace expressed a preference for identifying several strong subbasin projects, preferably shovel-ready, for implementation, and then considering planning and/or monitoring projects. Mr. Davids suggested that a groundwater model update would be very helpful in better evaluating projects and potential benefits. Mr. Bills spoke to the need for additional monitoring wells, and Mr. Williams agreed that additional monitoring was needed along the ephemeral streams, not only for recharge projects but also for general information. Mr. Wallace recommended that TAC members rank their key projects and return the spreadsheet to Mr. Davids to tabulate results.

Discussion followed regarding the use of ag wells for a groundwater level monitoring network; however, Mr. Davids noted that the fluctuations due to seasonal usage would be too great to be useful on a monthly basis. Additional discussion ensued regarding potential ways to make use of ag wells for monitoring data, especially to monitor effectiveness of recharge projects.

Ms. Carter asked about shallow well monitoring and evaluation of Groundwater Dependent Ecosystems, and stated that this is required and should be considered for project implementation soon.

Following additional discussion regarding the evaluation and prioritization process, it was agreed that Davids Engineering would send out the revised prioritization spreadsheet by August 15, and TAC members should complete the rankings and return to the GSA staff by August 22. Results would be reviewed at the September 9 meeting with additional discussion.

## **6. Discussion of Integrated Regional Water Management (IRWM) Project Submittal**

Due to time constraints, this item was tabled for discussion at the next meeting.

**7. Drought Update**

Due to time constraints, this item was tabled for discussion at the next meeting.

**8. Member Reports and Comments**

Mr. Bills reported that he has heard from some drillers in the Glenn-Colusa area that some wells are starting to de-gas. Although this has been an existing issue in various areas for many years, drillers are now experiencing it while addressing declining water levels.

Ms. Carter mentioned that Eaton Drilling is consulting with some land owners on recharge projects.

**9. Next Meeting: September 9, 2022**

**10. Adjourn**

The meeting was adjourned at 3:47 p.m.

DRAFT



# CGA/GGA Joint Technical Advisory Committee Meeting

## MEETING MINUTES

September 9, 2022 | 1:00 p.m.

### In Person Meeting Locations:

Sites Project Authority Office, 122 Old Highway 99 W, Maxwell, CA 95955

4485 Spring Meadows Circle, Flagstaff, AZ 86004

Public participation for this meeting was also available remotely via Teams.

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### **1. Call to Order, Roll Call, and Introductions**

Ms. Denise Carter called the meeting to order at 1:02 p.m.

#### **In Attendance:**

##### **Committee Members:**

GGA: Zac Dickens, Emil Cavagnolo and Don Bills. Tavis Beynon attended remotely as a member of the public. The GGA TAC did not have a quorum.

CGA: Denise Carter, Darrin Williams, Ben King, and Jim Wallace. Thad Bettner and Deke Dormer attended remotely as members of the public.

**Others in Attendance:** Lisa Hunter (GGA Staff), Carol Thomas-Keefer (CGA Staff), Arne Gustafson, Erin Kizer, Leland Noll, Ryan Fulton, Sajit Singh, Jenny Scheer, Wes Battson, Toni Longley, Patricia Vellines (DWR) and Peter Carr.

### **2. Approval of Minutes (CGA TAC, GGA TAC)**

#### **a. \*August 12, 2022 CGA/GGA Joint TAC Meeting Minutes**

On motion made by Mr. Jim Wallace, seconded by Mr. Ben King, and unanimously carried, CGA TAC approved the minutes of the July 8, 2022 CGA/GGA Joint TAC Meeting.

The GGA TAC did not take action to approve the minutes due to lack of a quorum.

### **3. Period of Public Comment**

No public comment was heard.

### **4. Presentation: Orland-Artois Water District Annexation Project**

Ms. Jenny Scheer, Water and Land Solutions, gave an overview of the proposed Orland-Artois Water District (OAWD) Annexation Project. The project proposes to annex 11,420 acres of land currently irrigated with groundwater, involving 20 landowners, into the OAWD as a Class 2 annexation. Surface water would be delivered through five or six new turnouts on the Tehama-Colusa Canal, but only when sufficient supplies are available. Ten miles of new pipe would be installed, with a total project cost of

about \$10 million. Ms. Scheer pointed out that the project would reduce groundwater use in one of the Colusa Subbasin's key subsidence areas and is located within disadvantaged and severely disadvantaged communities. She also stated that the project is currently undergoing 30 percent design and environmental review, and construction can be completed by June 2025. TAC members and the public engaged in discussion and clarification regarding the presentation topics.

## **5. Discussion of 2022/2023 Grant Application/Project Prioritizations.**

### **a. \*Recommendation to GSAs on projects to include in the 2022/2023 Sustainable Groundwater Management Round 2 grant application.**

Ms. Lisa Hunter provided a brief presentation on the results of the TAC members' project prioritization ranking results based on the project ranking spreadsheet discussed at the August 12 TAC meeting. Ranking scores had been tallied, and the highest scoring projects were identified for further discussion. Additionally, proposed projects were categorized as Projects, Management Actions, or GSP Studies/Updates, and the top-scoring items in each category were identified for review.

Seven Projects, five Management Actions and five GSP Studies/Updates were presented as highest-ranking; additionally, five new Project/Management Action submittals were just received as a result of the recent project solicitation issued by CGA and GGA, and those projects were also presented for consideration. Discussion followed regarding newly submitted project proposals, including project proponents and potential benefits. Mr. Zac Dickens reviewed the conceptual Groundwater Recharge Project proposed by Glenn Colusa Irrigation District, noting that it was in the early stages of development and included an area northeast of Willows to utilize gravel ponds for groundwater recharge.

The group also discussed potential water rights issues associated with recharge projects and agreed that a presentation to the group from MBK or similar consultant would be helpful to understand the issues and potential costs involved. Ms. Carter suggested that the group may want to consider a study.

Mr. Darrin Williams discussed a concept to possibly form a recharge district for the southeast Colusa County area. Various alternatives were also suggested.

Mr. King suggested that the group vote on the newly submitted projects and increase the list to the top 10. Ms. Hunter clarified that the top-ranked projects were presented for review, but there would not be sufficient funds available to include all projects in the application. She added that the list would need to be further narrowed before the final projects could be selected. It was also noted that the grant process would be competitive, and all selected projects, management actions and studies should be strong proposals that support the GSP. It was agreed that all the new project submittals would be considered during the prioritization process. Mr. King requested that Emily Reinhart be invited to the next TAC meeting to make a presentation on the newly submitted Sycamore Slough project.

Following additional discussion, it was agreed that staff would further refine the list of project proposals to better identify costs, needs, and timelines, and bring to the next Joint TAC meeting.

## **6. Drought Update**

Due to time constraints, this item was tabled for discussion at the next meeting.

## **7. Member Reports and Comments**

Mr. Dickens reported that GCID has requested a copy of the GSP groundwater model, along with hydrogeologic data, to help evaluate the district's proposed recharge project. Ms. Hunter noted that clarification was needed with regard to some of the requested data, and, since the data and model would

be provided by the GSAs' consultant, Davids Engineering, GCID may need to pay for the consultants' time as budget within CGA and GGA was very limited for technical support.

**8. Next Meeting: October 14, 2022**

**9. Adjourn**

The meeting was adjourned at 3:07 p.m.

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# Staff Report

**To:** CGA-GGA Joint TAC

**Agenda Item:** 5. Discussion of 2022/2023 Grant Application/ Project Prioritization

**Date:** October 14, 2022

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## Background

DWR is administering the Sustainable Groundwater Management (SGM) Grant Program Sustainable Groundwater Management Act (SGMA) Implementation funding solicitation using funds authorized by the California Budget Act of 2021 (Stats. 2021, ch. 240, § 80) and the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Proposition 68). The program is summarized below:

- Anticipated Opening Date: October 2022
- Period of Performance: 3 years
- Expected Award Announcement: July 2023
- Agreements executed: September/November 2023
- Total Est. Funding Available: \$202,500,000, from General Fund and Proposition 68
- Estimated amount per award: \$1,000,000 to 20,000,000
- Description: DWR will solicit proposals to award funding through a competitive application basis for tasks and activities that help the basins reach sustainability through investments in groundwater recharge and/or projects that prevent or clean up contamination of a groundwater that serves as a source of drinking water. Tasks and activities can also include updating/revising/modifying a GSP(s)
- Work Allowed: Planning & Implementation Projects.
- **Only one application will be accepted per basin.**
- No match funding required. Funding is provided in arrears as reimbursement, quarterly invoices.

As this opportunity draws nearer, it is critical that the CGA and GGA coordinate on a single application for the Colusa Subbasin. The Colusa Subbasin GSP Projects and Management Actions (PMAs) (planned, ongoing, and potential) should be reviewed, along with any new potential PMAs.

At the May 13, 2022 meeting, staff reviewed the SGM grant program schedule and highlighted the cooperative effort to submit an application.

At the July 8, 2022 meeting, Davids Engineering provided an overview of the SGM grant funding opportunity. Table 6-2 *Summary of all Projects and Management Actions* and Table 7-1 *Summary of GSP Implementation Studies* from the GSP were provided to facilitate discussion on the types of projects included in the GSP that may be a good fit for this opportunity. The CGA/GGA Joint TAC held initial discussion on the SGM application. TAC members were asked to provide initial thoughts for prioritization of these projects and send to GSA staff to further the discussion at the following TAC meeting.

At the August 12, 2022 meeting, Davids Engineering provided a more in-depth overview of the SGM grant funding opportunity. The consultant team prepared a spreadsheet with projects, management actions, GSP studies, and other activities that support the goals of the GSP (collectively termed projects) to facilitate continued discussion on project prioritization. An updated prioritization form was prepared following the meeting and sent to the TAC members to provide input on potential prioritization of projects to include in the grant. TAC members were asked to submit their rankings to GSA staff which would be consolidated and results shared at the September meeting to facilitate further discussion and make a recommendation to the CGA and GGA on projects to include in the grant application.

On August 26, 2022, a PMA submittal form and new online submittal form were posted to the GSAs websites and a solicitation announcement was sent out to GSA members and interested parties. Submittals were requested by September 8, 2022.

At the September 9, 2022 meeting, staff provided an overview of the Joint TAC's ranking scores and presented a review of the top-ranked projects, categorized as either Projects, Managements Actions, or GSP Studies/Updates. Five additional project proposals received as a result of the recent project solicitation were also presented and discussed. Staff was directed to gather additional information, further refine the list, and include the newly submitted projects for consideration, pending further evaluation. Staff has reviewed the project list, added information to assist in determining funding needs, timeframe and eligibility, and has grouped them by category for further review. A sample budget for potential project funding has also been included for discussion.

More information about the grant program can be found on DWR's website at: <https://water.ca.gov/work-with-us/grants-and-loans/sustainable-groundwater>

## Recommendation

Receive refined project information from staff; hold discussion to prioritize projects for inclusion in the SGM grant application.

Possible Action: Make a recommendation to the GSAs on projects to include in the 2022/2023 SGM Round 2 grant application.

## Attachments

- Potential projects list with brief project descriptions – updated to include newly submitted projects
- Table of TAC top-ranking projects by category from previous project prioritization exercise, with list of newly submitted project proposals
- SGMA Grant Funding project list support document – projects grouped by component

**Table 1. SGMA Implementation Round 2 Grant Funding Application Project List**

*\* Information adapted from Tables 6-2, 6-3, and 7-1 of the Colusa Subbasin GSP.*

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
1	GSP Study	Colusa Subbasin Western Boundary Investigation	CGA and GGA	This study will evaluate data to better understand the physical characteristics and groundwater conditions of the principal aquifer along the western margin of the Subbasin.
2	GSP Study	Expand Shallow Groundwater Level Monitoring Network	CGA and GGA	To expand the shallow groundwater monitoring network, additional monitoring wells must be evaluated. This includes existing monitoring wells and suitable locations for the construction of new monitoring wells.
3	GSP Study	Expand Water Quality Monitoring Network	CGA and GGA	This study will evaluate and expand additional groundwater quality monitoring wells.
4	GSP Study	GSA Coordination with Water Quality Coalitions and Regulatory Agencies	CGA and GGA	GSAs will coordinate with the various water quality coalitions, water stakeholders, and regulatory agencies regarding GSP and other regulatory program implementation. This will include helping to identify and address water quality problems across the Subbasin, including those affecting disadvantaged communities (DACs) and severely disadvantaged communities (SDACs), and consideration of opportunities to expand public water systems and consolidate small public systems to improve drinking water quality delivered to DACs and SDACs.
5	GSP Study	CV2SimFG-Colusa Model Updates and Enhancement	CGA and GGA	This program will implement the periodic model data updates necessary to adequately represent near-term and future conditions within the Subbasin, and to support annual and five-year periodic GSP reporting to the DWR.
6	GSP Study	Participation in Interagency Drought Task Forces	CGA and GGA	The CGA and GGA should coordinate their responses to droughts with their respective county and state agency partners through existing Interagency Drought Task Forces established in each county by the Colusa and Glenn County Boards of Supervisors.
7	GSP Study	Evaluate Infrastructure Sensitivity to Subsidence	CGA and GGA	This study will evaluate the sensitivity of infrastructure in the Subbasin to potential subsidence rates.

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
8	GSP Study	Groundwater Financial Incentives Investigation	CGA and GGA	This analysis will quantify the total costs of groundwater use and switching to surface water. The analysis will also identify grower financial incentives for in-lieu recharge and options for structuring those incentives.
9	GSP Study	Increasing GSA Involvement in County Well Permitting and Land Use Planning	CGA and GGA	CGA and GGA will explore options for allowing GSA input to the counties' well permitting processes and land use planning. The objective of GSA input would be to ensure that wells are permitted and land uses are planned in a manner consistent with sustainable groundwater management according to the GSP.
10	GSP Study	Groundwater Well Monitoring Program	CGA and GGA	This pilot program will evaluate the costs and benefits of continuous groundwater monitoring data collection via six irrigation production wells. Program expansion throughout the Subbasin will be considered based on the data utility and costs of the pilot program.
11	GSP Study	Sacramento Valley Subsidence Interbasin Working Group	CGA and GGA	The CGA and GGA should consider participating in a Sacramento Valley Subsidence Interbasin Working Group with DWR, the other GSAs in the Sacramento Valley and federal partners. The working group would provide a forum for collaborative discussions, consensus-building, and planning to address inelastic land subsidence in the Sacramento Valley.
12	GSP Study	Sutter Buttes Rampart Water Quality Interbasin Working Group	CGA and GGA	The CGA, GGA and the GSAs in the Butte, Sutter, Yolo, North Yuba and South Yuba Subbasins should participate in an interbasin working group focused on collaborative discussions, consensus-building and planning to address groundwater quality matters associated with the unique geology of the Sutter Buttes area.
13	GSP Study	Well Inventory Program	CGA and GGA	This program will inventory the estimated 20% of groundwater wells unaccounted for within the Subbasin, and would seek to identify wells that are no longer active.
14	GSP Study	Well Registration Program	CGA and GGA	This study will evaluate the potential of a program for landowners to inventory their well data. This will complement the well inventory program.



Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
15	GSP Study	Westside Streams Monitoring Program	CGA and GGA	Streams originating from the Coastal Range west of the Subbasin will be evaluated for potential recharge volumes, water quality, and the interconnectedness of the streams and the groundwater system within the Subbasin.
16	GSP Study	Other Inter-Basin Coordination Activities	CGA and GGA	The CGA and GGA would participate in other interbasin coordination activities that have yet to be determined. Interbasin coordination would occur with other GSAs in the Sacramento Valley, and potentially together with DWR and federal partners. Interbasin coordination efforts would provide a forum for collaborative discussions, consensus-building, and planning to address interbasin issues in the Sacramento Valley.
17	GSP Study	Sacramento Valley Interbasin Flow, Interconnected Surface Water Working Group	CGA and GGA	The CGA and GGA would participate in a the Interbasin Flow and Interconnected Surface Water Working Group with other GSAs in the Sacramento Valley (potentially together with DWR and federal partners). The working group would provide a forum for collaborative discussions, consensus-building, and planning to address interbasin flow and interconnected surface water in the Sacramento Valley.
18	GSP Updates, Reporting	GSP Updates and/or Revisions	CGA and GGA	Complete updates and/or revisions to the GSP, particularly in response to comments and feedback from DWR (anticipated in 2023-2024).
19	GSP Updates, Reporting	Data Management System	CGA and GGA	Migrate all GSP-related data to a final DMS platform (solicit a qualified and preferred DMS developer, and contract with them to develop the DMS and migrate all data to the DMS).
20	GSP Updates, Reporting	GSP Annual Reports	CGA and GGA	Complete annual reports on GSP implementation activities (required to be prepared annually and submitted by April 1).
21	GSP Updates, Reporting	Periodic GSP Updates (At Least Every 5 Years)	CGA and GGA	Conduct periodic evaluations and updates to the Colusa Subbasin GSP, incorporating new information and data available since initial GSP development (required to be prepared and submitted at least once every five years).
22	Management Action	Domestic Well Mitigation Program	CGA and GGA	To mitigate the effects of domestic well stranding due to groundwater level decline, the CGA and GGA will investigate implementing domestic well mitigation programs in their respective portions of the Subbasin.
23	Management Action	Preservation of Lands Favorable for Recharge	CGA and GGA	Working cooperatively with the counties, investigate, design, and implement a program providing incentives to landowners with lands favorable to groundwater recharge to preserve them as agricultural or undeveloped lands on which groundwater recharge.
24	Management Action	Review of County Well Permitting Ordinances	CGA and GGA	Review and revise the county well permitting processes in the Subbasin to ensure that future well permitting aligns with the Subbasin sustainability goal and that future changes to well permitting are reviewed by the GSAs. The GSAs would work with the counties to review and suggest revisions to ordinances (these are outside of the jurisdiction of the GSAs).

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
25	Management Action	Urban Water Conservation in Willows	California Water Service – Willow District	This project includes urban water conservation measures through water waste prevention ordinances, metering, conservation pricing, public education, and outreach programs to assess and manage distribution system real loss, water conservation program coordination and staffing support, and other demand management measures.
26	Management Action	Development of a Dedicated Network of Shallow Monitoring Wells for GDE Monitoring	CGA and GGA	Evaluate and develop a dedicated network of shallow monitoring wells specifically planned and sited for monitoring conditions in areas of the Subbasin where GDEs are most likely to be found. This action is also expected to incorporate biological monitoring to inform the location of new shallow monitoring wells and monitor whether GDEs are being impacted by changing groundwater conditions.
27	Management Action	Long-Term Demand Management Action	CGA and GGA	Demand management broadly refers to any water management activity that reduces the consumptive use of irrigation water. A demand management action is one that incentivizes, enables, or possibly requires water users to reduce their consumptive use.
28	Management Action	Drought Contingency Planning for Urban Areas	CGA, GGA, and cities (GSA member agencies)	The CGA and GGA will coordinate with M&I water suppliers dependent on groundwater to encourage drought planning consistent with the GSP.
29	Management Action	Strategic Short-Term Demand Management	CGA and GGA	Develop a voluntary, flexible, short-run financial incentive program to alleviate impacts of drought in target areas through idling lands in drought-affected areas or in participating surface water-using portions of the Subbasin and conveying the saved surface water to the drought-affected areas.
30	Management Action	Reduce Non-beneficial Evapotranspiration/Invasive Species Eradication	CGA and GGA	Removal of invasive, non-native plant species from riparian corridors and other areas to reduce evapotranspiration from shallow groundwater and support native ecosystem restoration.
31	Management Action	Well Abandonment Outreach and Funding Program	CGA and GGA	Create a program providing outreach and education to landowners regarding the proper procedures for well decommissioning and abandonment, as well as funding sources. This effort would be accomplished by working with well permitting agencies.
32	New	City of Colusa Public Supply Hydrochemistry Study		The City of Colusa is in the process of updating its Master Water Plan. As part of this update the City is looking to fund a study on the cause and severity of its current water quality issues regarding manganese, iron MCL violations and the long standing presence of Hydrogen Sulfide in its public supply. The City is also interested in understanding the potential and probability for arsenic contamination that is known to exist in public supply and other wells in the general area surrounding the Sutter Buttes.
33	New	GCID Groundwater Recharge Project		Long term property lease in combination with GCID and Glenn County owned properties for the intent of groundwater recharge. The project is currently in being researched for feasibility.

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
34	New	Spring Valley and Sycamore Multi-Benefit Recharge Project		<p>The Multi-benefit site comprises approximately 760 acres approximately 1 mile north of College City. The primary multi-benefit will be aquifer recharge from storm drain waters flowing west of Arbuckle toward the Colusa Basin Drain and from seasonal Riparian water flows via over 2 miles of recharge ditch basins, the channel of the Sycamore Slough and approximately 310 acres that will be seasonally flooded for the purpose of aquifer recharge. The first phase will be on the west side of the Colusa Basin Drain and include approximately 646 acres and the second phase will be on the east side of the Colusa Basin Drain and will include approximately 116 acres. Phase Two should be done in conjunction with the Sycamore Marsh Multibenefit Project since there is common ownership of Sycamore Slough. Other multibenefits will be domestic well recharge north of College City, pollinator habitat and wildlife habitat restoration and preservation</p>
35	New	Sycamore Slough Reconnection and Recharge		<p>Davis Ranches, in coordination with neighboring landowners, is proposing a multi-benefit groundwater recharge project. This project is an expansion of an ongoing effort to recharge the Sycamore Slough watershed with water from the Sacramento River, similar to the historic function of the slough. The project will require Davis Ranches to divert surface water from the Sacramento River and/or the Colusa Basin Drain for the purpose of reconnecting the historic remnants of Sycamore Slough, to flood fields and the slough itself to provide groundwater recharge, create habitat for migrating shorebirds/waterfowl, and provide essential support for groundwater dependent ecosystems (GDE) along the path of Sycamore Slough.</p> <p>Additional project description is included in the attached project submittal form.</p>
36	New	Updated BFW Contour Map and Saline Water Upconing Study		<p>Review and update the base of fresh groundwater (BFW) contour map that was created by Stephen Springhorn and his colleagues at the DWR prior to 2013 was to identify the approximate lower limit and the thickness of the fresh groundwater aquifer system in the Sacramento Valley. The BFW is an uneven boundary in the Colusa Subbasin and area near the Sutter Buttes. This is most likely caused by high artesian pressures and upward vertical gradients in deep aquifers in the Sacramento Valley, which have been documented in DWR monitoring wells. This suggests that migration of poor quality water into continental sediments that previously contained freshwater has occurred due to brackish and saline water upconing beneath areas of prolonged groundwater pumping in the Sacramento Valley.</p> <p>Project would be done in conjunction with NSIRWM and would focus on potential negative water quality impacts due to Redox near the Buttes and potential seepage area from the proposed Sites Reservoir</p>
37	New	Fee Studies		Fee Study for each GSA

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
38	Project	Tehama-Colusa Canal Trickle Flow to Ephemeral Streams	RD108	Operate Tehama-Colusa Canal (TCC) existing gates for discharge into ephemeral streams at a rate where they do not flow out of the Subbasin but recharge the groundwater system.  Further concept development has occurred, with identification of potential streams, water sources, and operating strategies. Potential discharge locations have been identified with CCWD and TCCA. Coordination has also occurred with landowners to identify potential project monitoring and funding opportunities. In 2021, a proof-of-concept test of the trickle flow project and benefits was conducted when a portion of the Tehama-Colusa Canal was dewatered.
39	Project	Orland-Artois Water District (OAWD) Land Annexation and Groundwater Recharge	OAWD	OAWD is planning to annex approximately 12,000 acres of groundwater-dependent agricultural lands. Additional direct recharge may be considered on suitable annexed lands. The project is an area where groundwater levels have been in decline in recent years. It is estimated that a long-term average of approximately 23 taf/yr of surface water would be available, reducing groundwater pumping by approximately 23 taf/yr.
40	Project	Colusa County Water District (CCWD) In-Lieu Groundwater Recharge	CCWD	CCWD will utilize 30 taf of additional surface water for irrigation in all years but Shasta Critical years for in-lieu recharge. The additional surface water will be made available through full use of the district's existing Central Valley Project (CVP) contract and annual and multi-year water purchase and transfer agreements. Additional surface water deliveries are estimated to be 27 taf/yr, enabling reduction of groundwater pumping by a like amount.
41	Project	Colusa Drain MWC (CDMWC) In-Lieu Groundwater Recharge	CDMWC	CDMWC diverters use both ground and surface water because Colusa Drain supplies are insufficient to satisfy all irrigation requirements. This project would provide additional surface supplies averaging approximately 28 taf/yr in the Drain allowing CDMWC diverters to increase their diversions of surface water to provide in-lieu groundwater recharge of a like amount.
42	Project	Orland-Artois Water District (OAWD) Direct Groundwater Recharge	OAWD	OAWD would directly recharge groundwater. A pilot project was conducted in 2017.
43	Project	Orland Unit Water Users Association (OUWUA) Flood Water Conveyance	OUWUA	Divert Stony Creek water at OUWUA's south diversion and convey it to various locations for direct recharge within the OUWUA service area.
44	Project	Orland Unit Water Users Association (OUWUA) Irrigation Modernization for Increased Surface Water Delivery and Reduced Groundwater Pumping	OUWUA	Modernization of OUWUA southside system for more reliable and flexible farm deliveries that will provide incentive for growers to use more surface water and less groundwater.

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
45	Project	Enhanced Infiltration of Precipitation on Agricultural Lands	CGA and GGA	Develop and adoption of on-farm cultural practices to reduce precipitation runoff and increase infiltration, which would result in increased storage of precipitation in the crop root zone, thereby reducing irrigation water requirements and achieving some direct groundwater recharge.
46	Project	Westside Streams Diversion for Direct or In-lieu Groundwater Recharge	CGA and GGA	A portion of western ephemeral stream flows could be diverted for in-lieu or direct groundwater recharge.
47	Project	Sycamore Marsh Farm Direct Recharge Project	Landowner	Sycamore Marsh Farm is developing a groundwater recharge plan to store groundwater. The plan provides for 205 acres of year-round recharge basins and 163 additional acres of winter recharge areas.
48	Project	Reclamation District 108 (RD108) and Colusa County Water District (CCWD) Agreement for Five-Year In-Lieu Groundwater Recharge Project	RD108 and CCWD	CCWD (and Dunnigan Water District [DWD]) purchases surface water from RD108 for distribution within its service area. The agreement expires in 2022. This project supplies additional surface water to CCWD (and DWD) that provides in-lieu recharge.
49	Project	Subbasin Multi-Benefit Groundwater Recharge	CGA, GGA and TNC	The Nature Conservancy (TNC) is partnering with entities for an on-farm, multi-benefit groundwater recharge incentive program. The pilot program was initiated in Colusa County in 2018 and concluded in the spring of 2021, with plans to expand and continue into the future. DWR is a partner in the Subbasin Multi-Benefit Groundwater Recharge project as it moves into the expanded program.
50	Project	Glenn-Colusa Irrigation District (GCID) Strategic Winter Water Use for Groundwater Recharge and Multiple Benefits	GCID	GCID holds a water right for winter water. This project will increase the groundwater recharge and habitat enhancement benefits of winter water use by increasing use for rice straw decomposition, irrigation, and frost control provided that certain constraints can be alleviated.
51	Project	Glenn-Colusa Irrigation District Expansion of In-Basin Program for In-lieu Groundwater Recharge	GCID	GCID has developed arrangements to supply district surface water to neighboring non-district agricultural lands that primarily use groundwater. These temporary arrangements expired in 2020. There is interest in continuing and expanding this in-basin surface water use for in-lieu groundwater recharge. Supplies would potentially be available only in Shasta Non-Critical years.
52	Project	Reclamation District 108 "Boards In" Program	RD108	RD108 would institute a voluntary or financially incentivized program in which landowners leave spill boards in place during the winter to capture rainfall and hold it on the fields for recharge.
53	Project	Westside Off-stream Reservoir and In-Lieu Groundwater Recharge	TCCA Contractors	Construct off-stream surface reservoirs along the western edge of the Subbasin and up-slope from the TCC to divert surplus Sacramento River flows (e.g., Section 215 water) into these storage reservoirs. Release stored water on demand to serve lands otherwise served by groundwater.

Project Number (not priority)	Project, Management Action, or GSP Study	Project & Management Action or GSP Study Name	Proponent	Brief Description
54	Project	Glenn-Colusa Irrigation District In-lieu Groundwater Recharge	GCID	GCID will investigate, develop, and implement measures to incentivize additional use of surface water supplied by GCID, which will provide in-lieu recharge through reduced groundwater pumping.
55	Project	Sycamore Slough Colusa Basin-Drain Multi-Benefit Recharge Project	Landowner	Restoration of portions of Sycamore Slough would support diversion of winter flows from the Colusa Drain for recharge and restoration.
56	Project	Sycamore Slough Groundwater Recharge Pilot Project	Landowner	Proctor and Gamble (P&G) and Davis Ranches have entered into an agreement to implement a 10-year groundwater recharge pilot project. A 66-acre field on Davis Ranches will receive surface water for groundwater recharge and provide habitat for migrating shorebirds. Water would be diverted from the Sacramento River during fall/winter months using existing riparian rights or would be available from settlement contract supplies (should the project begin before November 1). An expansion of the project is planned for recharge and revegetation in the neighboring Sycamore and Dry Sloughs.
57	Project	Subbasin Flood-MAR	CGA and GGA	The CGA and GGA would investigate, develop, and implement a program to divert flood waters within the Subbasin, when available, for spreading across agricultural lands for direct groundwater recharge.
58	Project	Sycamore Marsh Farm In-lieu Recharge Project	Landowner	Sycamore Marsh Farm is developing an in-lieu groundwater recharge plan, and could partner with additional lands in the CDMWC, allowing for diversion of surface water from CDMWC.
59	Project	Glenn-Colusa Irrigation District Water Transfers to Tehama-Colusa Canal Authority (TCCA) CVP Contractors	GCID	Evaluate potential for transferring water to CVP contractors served by the TCC for in-lieu groundwater recharge.
60	Project	Sites Reservoir	Sites Project Authority	The Sites Project is a new off-stream storage facility that is currently in development. Depending on project operation and yield, there is potential for groundwater benefits to accrue to the Subbasin from Sites Reservoir.
61	Project	Colusa County Public Water System Water Treatment Plant	Interested Stakeholder	Construct a water treatment plant on the Sacramento River between Colusa and Grimes to provide treated surface water to public water supply systems in Colusa and possibly Sutter and Yolo Counties.
62	Project	Delevan Pipeline Colusa Basin Drainage Canal System (Colusa Drain) Intertie	Interested Stakeholder	Intertie between proposed Delevan Pipeline component of the Sites Reservoir Project and the Colusa Drain, providing a connection to downstream water users, and providing protection for the ecosystems, and earthquake resilience.
63	Project	Subbasin In-lieu Recharge & Banking Program	South Valley Water Resources Authority	Incentivize taking available contract surface water in-lieu of pumping groundwater, providing dedicated contribution to local groundwater sustainability, with a portion available to San Joaquin Valley partners.
64	Project	Recharge Project	CGA	Develop plans for a recharge project program, and/or complete the design/construction/implementation of one or more recharge projects identified through these planning efforts.
65	Project	Recharge Project	GGA	Develop plans for a recharge project program, and/or complete the design/construction/implementation of one or more recharge projects identified through these planning efforts.

# Project Prioritization Summary

CGA/GGA Joint TAC  
9/9/22



## Project Ranking Summary- Overall

Ranking Scale of 1-3, 1: Low, 2: Medium, 3: High	Total Number of Projects*	Project (Planned, Potential, Ongoing)	Management Action	GSP Study or Update
0-1.5	6	5	1	0
1.51-2	19	4	4	11
2.01-2.5	20	10	5	5
2.51-3	7	7	0	0
Totals	52	26	10	16

*\*Catch-all term for activities that will be proposed for Round 2 grant funding. May include GSP PMAs, GSP studies, or other activities that support the goals of the GSP. The PSP refers to these as "components."*



## Project Ranking Summary- Overall

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## Top 7 Ranked Projects (Planned, Potential, Ongoing)

TAC Ranking	TAC Priority	Project	Category	Estimated Capital Costs
2.88	1	Tehama-Colusa Canal Trickle Flow to Ephemeral Streams	Potential	Not available
2.75	2	Orland-Artois Water District Land Annexation and Groundwater Recharge	Planned	\$20,000,000
2.63	3	Colusa County Water District In-Lieu Groundwater Recharge	Planned	\$100,000
2.63	4	Colusa Drain MWC In-Lieu Groundwater Recharge	Planned	\$100,000





## Top 7 Ranked Projects (Planned, Potential, Ongoing)- cont.

TAC Ranking	TAC Priority	Project	Category	Estimated Capital Costs
2.63	5	Orland Unit Water Users Association Irrigation Modernization for Increased Surface Water Delivery and Reduced Groundwater Pumping	Ongoing	Not available
2.63	6	Orland Unit Water Users Association Flood Water Conveyance	Potential	Not available
2.63	7	Orland-Artois Water District Direct Groundwater Recharge	Potential	Not available



## Top 5 Ranked Management Actions

TAC Ranking	TAC Priority	Management Action	Estimated Capital Cost
2.38	17	Domestic Well Mitigation Program	Not available
2.38	18	Preservation of Lands Favorable for Recharge	Not available
2.38	19	Review of County Well Permitting Ordinances	Not available
2.25	20	Urban Water Conservation in Willows	Not available
2.25	22	Development of a Dedicated Network of Shallow Monitoring Wells for GDE Monitoring	Not available



## Top 5 Ranked GSP Studies and Updates

TAC Ranking	TAC Priority	GSP Study or Update	Estimated Capital Cost
2.50	12	GSP Updates and/or Revisions	\$150,000-\$250,000
2.14	23	Expand Shallow Groundwater Level Monitoring Network	Scalable (~\$50,000 to evaluate existing wells, ~\$40,000 per well for new wells)
2.14	24	Expand Water Quality Monitoring Network	Scalable (~\$50,000 for program development, ~\$50,000/yr for program administration, ~\$5,000/well for adding existing wells to program, ~\$120,000/well to construct new wells)



## Top 5 Ranked GSP Studies and Updates- cont.

TAC Ranking	TAC Priority	GSP Study or Update	Estimated Capital Cost
2.14	25	Colusa Subbasin Western Boundary Investigation	Estimated ~\$100,000
2.14	26	GSA Coordination with Water Quality Coalitions and Regulatory Agencies	Estimated ~\$20,000/yr staff time for ongoing coordination



## New PMA Submittals\*

5 Submittals received during the 2022 PMA solicitation (8/26/22-9/8/22).

Title	Phase	Estimated Cost
City of Colusa Public Supply Hydrochemistry Study	Ready for implementation	\$250,000
GCID Groundwater Recharge Project	Conceptual	\$1,000,000
Spring Valley and Sycamore Multi-Benefit Recharge Project	In Design	\$4,500,000

\*PMA Submittal Forms will be made available



## New PMA Submittals\*- cont.

Title	Phase	Estimated Cost
Sycamore Slough Reconnection and Recharge	In Design for expansion project	First Year: \$233,370-\$531,346 Second Year: \$162,220-\$470,196 5 year Temporary Permit: \$531,278-\$929,254 Permanent Winter Water Right: \$1,284,228-\$2,413,156
Updated BFW Contour Map and Saline Water Upconing Study	Ready for implementation	\$250,000

\*PMA Submittal Forms will be made available



**SGM Round 2 Grant Due November 30, 2022**

Component	Potential tasks (Project Number & Title)	Budget	Notes	Sample Budget
Grant Administration			10% of requested budget	\$ 1,500,000
GSP Implementation Funding				
	37 Fee Study (one for each GSA)	\$ 200,000	if reimbursable- continue on current timeline could also fit somewhere else- data gaps; may be too	\$ 200,000
	14 Well Registration Program	\$ 300,000	long- included phase covering first 3 years projects that are shovel ready (or close to implementation)	\$ 200,000
Recharge projects				
	40 Colusa County Water District (CCWD) In-Lieu Groundwater Recharge	\$ 100,000	capital cost	\$ 100,000
	41 Colusa Drain MWC (CDMWC) In-Lieu Groundwater Recharge	\$ 100,000	capital cost	\$ 100,000
	42 Orland-Artois Water District (OAWD) Direct Groundwater Recharge			\$ 100,000
	38 Tehama-Colusa Canal Trickle Flow to Ephemeral Streams		RD108	\$ 100,000
	33 GCID Groundwater Recharge Project	\$ 1,000,000		\$ 500,000
	34 Spring Valley and Sycamore Multi-Benefit Recharge Project	\$ 4,500,000	timing? Phased	\$ 1,000,000
	35 Sycamore Slough Reconnection and Recharge	\$ 2,855,956	timing? Phased	\$ 1,000,000
Groundwater Recharge Evaluation and Feasibility Studies			Tee up for implementation; implement one or two if feasible/cost effective	\$ 1,000,000
	15 Westside Streams Monitoring Program	\$ 435,000		
	46 Westside Streams Diversion for Direct or In-lieu Groundwater Recharge			
	57 Subbasin Flood-MAR			
	47 Sycamore Marsh Farm Direct Recharge Project			
	55 Sycamore Slough Colusa Basin Drain Multi-Benefit Recharge Project			
	58 Sycamore Marsh Farm In-lieu Recharge Project			
	43 Orland Unit Water Users Association (OUWUA) Flood Water Conveyance			
Domestic Well Mitigation Program	22			\$ 500,000
Orland-Artois Water District (OAWD) Land Annexation and Groundwater Recharge	39	\$ 20,000,000	partial funding	\$ 10,000,000
Stakeholder Outreach and Engagement				\$ 500,000
	45 Enhanced Infiltration of Precipitation on Agricultural Lands			
	31 Well Abandonment Outreach and Funding Program			
	52 Reclamation District 108 "Boards In" Program			
Drought Resiliency Planning				\$ 200,000
Demand Management Studies and Implementation			under drought resiliency? could support demand management program and outreach & education tasks	
	8 Groundwater Financial Incentives Investigation	\$ 160,000		

	27: Long-Term Demand Management Action			would likely need to be phased
	29: Strategic Short-Term Demand Management			
	28: Drought Contingency Planning for Urban Areas	\$	-	Does this need funding? Unlikely
	25: Urban Water Conservation in Willows	\$	-	Unlikely to include for funding
Compliance Reporting and Data Expansion SGMA Compliance Activities				\$ 1,000,000
	21: Periodic GSP Updates (At Least Every 5 Years)	\$	200,000	Support for the 5 year update could include model revisions; Estimated \$150,000 to \$250,000
	5: CV2SimFG-Colusa Model Updates and Enhancement	\$	225,000	Support for the 5 year update
	18: GSP Updates and/or Revisions	\$	200,000	Estimated \$150,000 to \$250,000
	19: Data Management System	\$	200,000	Estimated \$150,000 to \$250,000
	20: GSP Annual Reports	\$	150,000	Estimated \$40,000-\$60,000; 3 yrs
Address Data Gaps Data Collection & Monitoring Enhance Monitoring Networks Data Gap Evaluation, Data Collection, and Monitoring Program				\$ 2,000,000
GSP Studies and Investigations Basin Assessment Studies				Inter and Intra- basin Coordination tasks and consultant support could be included
	1: Colusa Subbasin Western Boundary Investigation	\$	100,000	
	2: Expand Shallow Groundwater Level Monitoring Network	\$	250,000	
	3: Expand Water Quality Monitoring Network	\$	700,000	
	7: Evaluate Infrastructure Sensitivity to Subsidence			
	10: Groundwater Well Monitoring Program	\$	525,000	expand pilot study
	13: Well Inventory Program	\$	340,000	could also fit under the funding component? Data to support fee alternatives
	17: Water Working Group Development of a Dedicated Network of Shallow Monitoring			consultant support
	26: Wells for GDE Monitoring			likely would be part of a larger inter-basin working group project; linked to project 12- Sutter Buttes Rampart
	36: Updated BFW Contour Map and Saline Water Upconing Study	\$	250,000	Water Quality Interbasin Working Group
<b>Total</b>		<b>\$</b>	<b>32,790,956</b>	<b>\$ 20,000,000</b>

Notes: Consider only capital costs (not on-going annual/O&M cost); complete within 3 years; generally exclude "coordination-type" tasks  
Reminder: Not a reflection on whether it is a "good" or priority project, but rather, is it a good fit for this funding opportunity