

JOINT POWERS AUTHORITY BOARD MEETING

Oroville City Council Chambers
1735 Montgomery Street
Oroville, CA. 95965



November 10, 2022
REGULAR MEETING
OPEN SESSION 2:00 PM
AGENDA

REQUESTS TO ADDRESS BOARD

If you would like to address the Board at this meeting, you are requested to complete the blue speaker request form (located on the wall by the agendas) and hand it to the Board Clerk, who is seated on the right of the Council Chamber. The form assists the Clerk with minute taking and assists the Board in conducting an orderly meeting. Providing personal information on the form is voluntary. For scheduled agenda items, **please submit the form prior to the conclusion of the staff presentation for that item.** Pursuant to Government Code Section 54954.2, the Board is prohibited from taking action except for a brief response from the Board or staff to statements or questions relating to a non-agenda item.

Attend In Person or by one of the methods listed below:

- Zoom Link: <https://zoom.us/j/91028842432?pwd=TVh4SIFHbUhyTG9oeXFnejFWUjEwZz09>
- By Phone – 1-669-900-6833 Passcode: 17351735
- Zoom Application: Meeting ID: 91028842432 Passcode: 17351735
- Email comments accepted until 12pm to publiccomment@cityoforoville.org

CALL TO ORDER / ROLL CALL

1. Pledge of Allegiance
2. Roll Call
Board Members: Bill Connelly, Eric Smith, William Bynum, Kyle Daley, Bruce Wristen

Staff Management Team: Butte County – Kamie Loeser, Christina Buck, TWSD – Chris Heindell, Oroville – Matt Thompson, Jackie Glover

REGULAR BUSINESS

1. The Board may approve the minutes of the September 22, 2022 board meeting. (Matt Thompson)
2. The board will consider approval of the Wyandotte Creek Subbasin project list and recommend project prioritization to be used in developing the Sustainable Groundwater Management (SGM) program Round 2 grant application. The Board will also consider approval of a grant applicant resolution authorizing the preparation and submittal of a SGMA Implementation Round 2 application for the Wyandotte Creek subbasin. (Christina Buck)

REPORTS AND CORRESPONDENCE

3. Verbal update and potential recommendation for selection of consultant to conduct Long-term Financing study (Kamie Loeser)
4. Verbal Manager Committee Updates (staff)

PUBLIC COMMENT- NON-AGENDA ITEMS

This is the time for the public to address the Board on items not listed on the agenda. The WC GSA Board is prohibited by State law from taking action on any item presented if it is not listed on the agenda. Comments will be limited to three minutes per person.

ADJOURN THE MEETING

The meeting will be adjourned. A regular meeting of the Wyandotte Creek GSA Board will be scheduled on January 26, 2022 at 2pm.

Accommodating Those Individuals with Special Needs – In compliance with the Americans with Disabilities Act, the City of Oroville encourages those with disabilities to participate fully in the public meeting process. If you have a special need in order to allow you to attend or participate in our public meetings, please contact the Board Clerk at (530) 538-2535, well in advance of the regular meeting you wish to attend, so that we may make every reasonable effort to accommodate you. Documents distributed for public session items, less than 72 hours prior to meeting, are available for public inspection at City Hall, 1735 Montgomery Street, Oroville, California.

Recordings - All meetings are audio recorded.

Oroville City Council Chambers
1735 Montgomery Street
Oroville, CA. 95965



**September 22, 2022
MINUTES**

This agenda was posted on September 7, 2022. This meeting was recorded and may be viewed on the City of Oroville YouTube Channel.

CALL TO ORDER / ROLL CALL

Chairperson Connelly opened the meeting at 2pm.

1. Pledge of Allegiance – Led by Chairperson Connelly
2. Roll Call –
 - a. Present: Board Members: Bill Connelly, Eric Smith, William Bynum, Bruce Wristen
 - b. Absent: Board Member Kyle Daley
 - c. Staff: Staff Management Team: Butte County – Kamie Loeser, Christina Buck, Oroville – Jackie Glover

REGULAR BUSINESS

1. **Motion by Board Member Wristen and second by Board Member Bynum to approve the minutes of the July 28, 2022 Board Meeting. Motion passed.**
2. **The Board by consensus approved a WAC recommendation list of projects for which a Work Plan, Budget and Schedule would be developed for future prioritization for possible grant funding.**

REPORTS AND CORRESPONDENCE

3. Management Team Updates
 - a. The board received a verbal update on Request for Proposals (RFP) to Develop and Implement a Funding Mechanism for the Operations of two Groundwater Sustainability Agencies for the Implementation of their Groundwater Sustainability Plans

PUBLIC COMMENT- NON-AGENDA ITEMS

There were 0 public speakers at this meeting.

ADJOURN THE MEETING

Chairperson Connelly Adjourned the meeting at 2:33pm.

APPROVED:

ATTESTED:

Chairperson Bill Connelly

Manager Kamie Loeser



Wyandotte Creek Groundwater Sustainability Agency Agenda Transmittal

Agenda Item: Agenda Item
Number

Item 2.

Subject: Sustainable Groundwater Management Round 2 Grant Application

Contact: Christina Buck

Phone: 530-552-3593

Meeting Date: Nov. 10, 2022

Regular Agenda

Department Summary: The Department of Water Resources (DWR) is administering the Sustainable Groundwater Management (SGM) Grant Program which will provide Groundwater Sustainability Agencies (GSAs) funding to help implement projects and implementation activities identified in their Groundwater Sustainability Plans (GSPs). The solicitation for Round 2 officially opened on October 4, 2022 and the application submission deadline is November 30, 2022.

Since September, a number of projects have been scoped with more detailed tasks/deliverables and budgets. They are all eligible and strong projects for this grant opportunity although the funding is expected to be very competitive. The grant application will include a table that requires the projects be ranked in order of priority which will guide DWR's grant award decision-making if partial funding of the application is necessary. Therefore a discussion of project priorities will be important.

There must be one application submitted for the subbasin, but it can include multiple projects, referred to as "Components," that could be implemented by multiple agencies. The Wyandotte Creek GSA will submit the application on behalf of the subbasin and is anticipated to be the implementing agency for most of the projects. The grant application requires the submitting agency to pass an authorizing Resolution.

Attachments:

1. Staff Memo with Attachments
2. Resolution

Fiscal Impact: None

Staff Recommendation: A) Approve Wyandotte Creek Subbasin Project List and Recommend Project Prioritization to be used in developing the SGM Round 2 grant application. B) Approve Grant Applicant Resolution Authorizing Preparation and Submittal of a Sustainable Groundwater Management Act (SGMA) Implementation Round 2 Application for the Wyandotte Creek Subbasin

MEMORANDUM

DATE: November 1, 2022
TO: Wyandotte Creek GSA Board
FROM: Christina Buck, Asst. Director, Butte County Water and Resource Conservation
RE: Projects and Project Prioritization for Development of SGM Grant Program Application

Background

The Department of Water Resources (DWR) is administering the [Sustainable Groundwater Management \(SGM\) Grant Program](#) which will provide Groundwater Sustainability Agencies (GSAs) funding to help implement projects and implementation activities identified in their Groundwater Sustainability Plans (GSPs). The Final [Guidelines](#) and [Proposal Solicitation Package](#) (PSP) describing project eligibility and the application process were released in December 2021. The solicitation for Round 2 officially opened on October 4, 2022 and the application submission deadline is **November 30, 2022**.

The Wyandotte Creek Subbasin is categorized as a “medium priority subbasin” and is eligible for Round 2 of this funding opportunity. Grant awards will be a minimum of \$1 million per subbasin and up to \$20 million per subbasin. We expect this funding to be extremely competitive since all subbasins (high, medium and critically overdrafted) are eligible to apply. There must be one application submitted for the subbasin, but it can include multiple projects, referred to as “Components,” that could be implemented by multiple agencies. The Wyandotte Creek GSA will submit the application on behalf of the subbasin and is anticipated to be the implementing agency for most of the projects.

In September 2022, the GSA Board gave direction on a list of projects that would be further developed with more detailed work plans, budgets, and schedules. Davids Engineering, Luhdorff & Scalmanini Consulting Engineers, and Montgomery & Associates have been contracted by the Butte County Water and Resource Conservation Department to help with project development and application preparation. Each of the consultants have a handful of projects they are lead on, to scope work plans, budgets, and schedules. In addition, there are projects on the list being brought forward by other agencies, such as Thermalito Water and Sewer District. Table 1 lists the projects that will be considered and discussed for possible inclusion in the grant application:

Table 1 – Potential Projects for Grant Application

	Project	Estimated Cost
A.	Grant Administration	300,000
1	GSP Implementation, Outreach, and Compliance Activities	955,000
2	Monitoring Network Enhancements to Address Data Gaps	1,433,750
3	Inter-basin Coordination Activities	260,000
4	Agricultural Surface Water Supplies	242,000
5	TWSD Water Treatment Plant Capacity Upgrade	2,603,784
	<i>For Further Development and Discussion:</i>	
1	Agricultural Irrigation Efficiency	150,000
2	Groundwater Recharge Feasibility Analysis and Site Evaluation	1,840,000
	TOTAL	7,784,534

Project Development and Prioritization

Projects under consideration benefited from the expertise of the consultant teams and resulted in projects that are more defined and, importantly, now have cost estimates. Project descriptions with project background, tasks, budgets and schedules for each project are outlined in the attached presentation (**Attachment A**). A summary table is included (**Attachment B**) with the project names, tasks, and cost estimates included. On November 3, 2022 the WAC will discuss the two projects identified in Table 1 “for further development and discussion” and staff will provide updated information to the Board as appropriate.

WAC Discussion and Recommendations

The grant application will include a table that requires the projects be ranked in order of priority which will guide DWR’s grant award decision-making if partial funding of the application is necessary. Therefore a discussion of project priorities will be important. The WAC is scheduled to meet on November 3, 2022 and has been asked to:

- 1) Discuss and provide input on the project tasks or budgets, especially the two projects identified for “further development and discussion” (Table 1) and receive input from the public
- 2) Provide a recommendation on the list of projects to include in the grant application
- 3) Provide a recommendation on the ranking of the projects that will be included in the application

Since this staff report is being prepared prior to the WAC’s meeting, staff will update the Board at the meeting on November 10th as to the WAC’s discussion and recommendations regarding the projects and their prioritization.

Considerations for Project Prioritization

There are essentially two categories of projects: 1. SGMA required/planning activities and 2. Implementation projects to improve basin conditions. The projects are grouped accordingly in Table 2 below. It may be beneficial and strengthen the application if the first few million dollars include a mix of planning and implementation type projects.

Table 2 – Projects Grouped by Category

Project	Estimated Cost
<i>SGMA Required/Planning Activities</i>	
GSP Implementation, Outreach, and Compliance Activities	955,000
Monitoring Network Enhancements to Address Data Gaps	1,433,750
Inter-basin Coordination Activities	260,000
<i>Implementation Projects to Improve Basin Conditions</i>	
Agricultural Surface Water Supplies	242,000
TWSD Water Treatment Plant Capacity Upgrade	2,603,784
Agricultural Irrigation Efficiency	150,000
Groundwater Recharge Feasibility Analysis and Site Evaluation	1,840,000
TOTAL	7,484,534

Also, one alternative could include reducing the Monitoring Network Enhancements project by approximately \$1M to roughly \$500,000. This change would fund the effort to identify ideal monitoring locations, staff time to pursue DWR's Technical Support Services (TSS) program that installs monitoring wells, and funds for one or two new monitoring wells. Reducing the budget of this project would reduce the number of monitoring locations funded by the grant. The purpose of reducing the level of effort of this project and the budget could increase the likelihood of one of the other projects on the list being funded by the grant, while also increasing monitoring locations in the subbasin through use of the TSS program.

Next Steps

Given the GSA's direction on what projects to include in the SGM grant application, and their corresponding ranking, staff and consultants will prepare the final content for inclusion in the grant application and submit by the November 30, 2022 deadline.

Requested Action

- A. Approve the Wyandotte Creek Subbasin Project List and Recommend Project Prioritization to be used in developing the SGM Round 2 grant application.
- B. Approve Grant Applicant Resolution Authorizing Preparation and Submittal of a Sustainable Groundwater Management Act (SGMA) Implementation Round 2 Application for the Wyandotte Creek Subbasin

Attachments

- A. Presentation: Project Descriptions, Tasks, and Budgets
- B. Summary Table of Potential Projects

Summary of Potential Projects for SGM Grant Application

#	Tasks	Project Name	Estimated Cost	Start Date	End Date	Implementing Agency
A.	A.	Grant Agreement Administration	300,000	Dec-23	Jun-26	Wyd Creek GSA
1		GSP Implementation, Outreach, and Compliance Activities				Wyd Creek GSA
	1	Annual Report Development, for WY 2022, 2023, 2024, 2025	155,000	Nov-22	Jun-26	
	2	Fee Study for Long term Financing of the Wyandotte Creek GSA	100,000	Oct-22	Aug-23	
	3	BBGM Update and Re-Calibration	50,000	Jun-24	Dec-25	
	4	GSP Updates and Response to DWR Comments	75,000	Jan-24	Jul-24	
	5	Develop and Implement an Approach to Set ISW SMC	250,000		Jan-25	
	6	5-year Evaluation Report	150,000	Jan-24	Jan-27	
	7	Outreach and Education Program	50,000	Jan-22	Jun-27	
		8 Development of Data Management System	125,000		Jun-26	
		TOTAL	955,000			
2		Monitoring Network Enhancements to Address Data Gaps		Jan-24	Mar-26	Wyd Creek GSA
	1	Community Domestic Well Monitoring	53,750	Jan-24	Jan-25	
	2	Installation of Multi-completion Monitoring Wells	810,000	Jan-24	Jul-24	
	3	Installation of Shallow Groundwater Monitoring Devices	335,000	Apr-24	Jul-25	
	4	Installation of Surface Water Stream Gauges	125,000	Apr-24	Jul-25	
	5	Mapping the GDE (in space and changes over time) utilizing CSU Chico Staff	50,000	Jul-24	Jan-26	
	6	Integrate Data Into GSP Monitoring Database	15,000	Jul-24	Jan-26	
	7	Interbasin Coordination	15,000		Mar-26	
		8 Engagement/Outreach	30,000	Apr-24	Mar-26	
		TOTAL	1,433,750			
3		Inter-basin Coordination Activities		Sep-23	Apr-26	Wyd Creek GSA
	1	Component administration and management	20,000			
	2	Conducting Joint Analysis and Evaluation of GSPs	200,000			
		3 Coordinated Communication and Outreach	40,000			
		TOTAL	260,000			
4		Agricultural Surface Water Supplies			Mar-26	Wyd Creek GSA
	1	Administrative Tasks	62,000		Mar-26	
	2	Identify surface water sources/Availability in Subbasin	10,000		Apr-24	
	3	Conduct Surface Water Supply Reliability Assessment	20,000		Apr-24	
	4	Identify Potential Intra-basin Allocation/Transfer Needs	10,000		Apr-24	
	5	Develop Intra-basin Transfer Feasibility Study	50,000		Oct-24	
	6	Prepare Draft Implementation Plan-With Review	45,000		Jul-25	
	7	Prepare Final Implementation Plan	25,000		Jan-26	
		8 Engagement/Outreach	20,000		Jan-26	
		TOTAL	242,000			
5		TWSD Water Treatment Plant Capacity Upgrade		May-22	Mar-24	TWSD
	1	Component administration and management	5,000	May-22	Mar-24	
	2	Design Plans and Specifications	280,250			
		3 Construction	2,318,534	May-23	Dec-23	
		TOTAL	2,603,784			
For Further Development and Discussion						
1		Agricultural Irrigation Efficiency		Jul-23	Jun-26	Wyd Creek GSA
	1	Component administration and management	10,000	Jul-23	Jun-26	
	2	Develop precision irrigation piloting program	100,000	Sep-23	Mar-26	
		3 Outreach and Education Program	40,000	Jul-23	Mar-26	
		TOTAL	150,000			
2		Groundwater Recharge Feasibility Analysis and Site Evaluation		Jan-24	Jun-26	Wyd Creek GSA
	1	Grant Administration	90,000	Jan-24	Jun-26	
	2	Feasibility Analysis and Project Identification	100,000	Jan-24	Sep-24	
	3	Groundwater Recharge Investigation and Preliminary Design	300,000	Sep-24	Mar-25	
	4	CEQA/Permitting	100,000	Mar-25	Sep-25	
	5	Final Design	150,000	Mar-25	Sep-25	
	6	Bid Documents	50,000	Sep-25	Jan-26	
	7	Construction/Implementation Activities	1,000,000	Sep-25	Mar-26	
		8 Public Outreach and Education Program	50,000	Jan-24	Jun-26	
		TOTAL	1,840,000			
		GRAND TOTAL	7,784,534			

Acronyms
 WY- Water Year
 GSA- Groundwater Sustainability Agency
 BBGM- Butte Basin Groundwater Model
 GSP- Groundwater Sustainability Plan
 ISW SMC- Interconnected Surface Water Sustainable Management Criteria
 DWR- Department of Water Resources

Resolution No.**RESOLUTION BY THE WYANDOTTE CREEK GROUNDWATER SUSTAINABILITY AGENCY THAT AN APPLICATION BE MADE TO THE DEPARTMENT OF WATER RESOURCES TO OBTAIN A GRANT UNDER THE 2021 SUSTAINABLE GROUNDWATER MANAGEMENT GRANT PROGRAM SGMA IMPLEMENTATION GRANT.**

WHEREAS, the Wyandotte Creek is the Groundwater Sustainability Agency (“Wyandotte Creek GSA”) in the Wyandotte Creek Subbasin; and

WHEREAS, the Wyandotte Creek Subbasin has adopted one Groundwater Sustainability Plan for the subbasin pursuant to the Sustainable Groundwater Management Act (“SGMA”) and pursuant to a Joint Powers Agreement agreed to and executed by the Wyandotte Creek GSA Member Agencies; and

WHEREAS, the Wyandotte Creek GSA is preparing an application to the California Department of Water Resources (“DWR”) to obtain a grant under the Sustainable Groundwater Management (SGM) Grant Program SGMA Implementation Grant pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Pub. Resources Code, § 80000, et seq.) and the Budget Acts of 2021 and 2022; and

WHEREAS, DWR will accept one application per subbasin during the SGM Grant Program’s SGMA Implementation Round 2; and

WHEREAS, the Wyandotte Creek GSA desires to work cooperatively with the Wyandotte Creek GSA Member Agencies in the submission of one application to DWR and in developing and undertaking projects and other activities pursuant to the Wyandotte Creek Subbasin’s application to DWR; and

WHEREAS, it is the intention of the Wyandotte Creek GSA to submit one grant application on behalf of the entire Wyandotte Creek Subbasin for the SGM Grant Program SGMA Implementation Grant Round 2 solicitation; and

WHEREAS, the Wyandotte Creek GSA is preparing an application that includes proposed projects submitted by the GSA’s Member Agencies and eligible entities consistent with the Wyandotte Creek Subbasin Groundwater Sustainability Plan for the SGM Grant Program’s SGMA Implementation Grant Round 2; and

WHEREAS, the Wyandotte Creek GSA’s application includes projects that are of interest and of benefit to the Wyandotte Creek Subbasin; and

WHEREAS, the SGM Grant Program SGMA Implementation Grant Proposal Solicitation Package requires that the Wyandotte Creek GSA, as the entity acting as the applicant, must adopt a resolution that designates an authorized representative to submit the application and execute an agreement with the State of California for the SGMA Implementation Grant application.

NOW, THEREFORE BE IT RESOLVED, by the Wyandotte Creek GSA, that an application be made to the Department of Water Resources to obtain a grant under the 2021 Sustainable Groundwater Management (SGM) Grant Program SGMA Implementation Grant pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Pub. Resources Code, § 80000, et seq.) and the Budget Acts of 2021 and 2022.

BE IT FURTHER RESOLVED that the Wyandotte Creek GSA has the authority and shall enter into a funding agreement with the Department of Water Resources to receive a grant for the: Wyandotte Creek Subbasin GSP Projects and Management Actions Implementation – Round 2 Grant Application.

BE IT FURTHER RESOLVED that the Butte County Director of Water and Resource Conservation, administrator of the Wyandotte Creek GSA, or designee, is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, execute a funding agreement and any future amendments thereto, submit invoices, and submit any reporting requirements with the Department of Water Resources.

PASSED AND ADOPTED by the Wyandotte Creek Board of Directors, the governing body for the Wyandotte Creek GSA this 10th day of November 2022, by the following vote:

- AYES:**
- NOES:**
- ABSENT:**
- ABSTAIN:**

Bill Connelly, Chair
Wyandotte Creek Board of Directors

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Wyandotte Creek GSA held on the 10th day of November, 2022.

ATTEST:

By: _____
Kamie Loeser, Administrator, Wyandotte Creek GSA

Wyandotte Creek Subbasin Project Workshop: Proposed PMAs

Luhdorff & Scalmanini Engineering (LSCE)
Chico, CA

Eddy Teasdale, P.G. C.HG

November 3, 2022



Example Eligible Project Activities

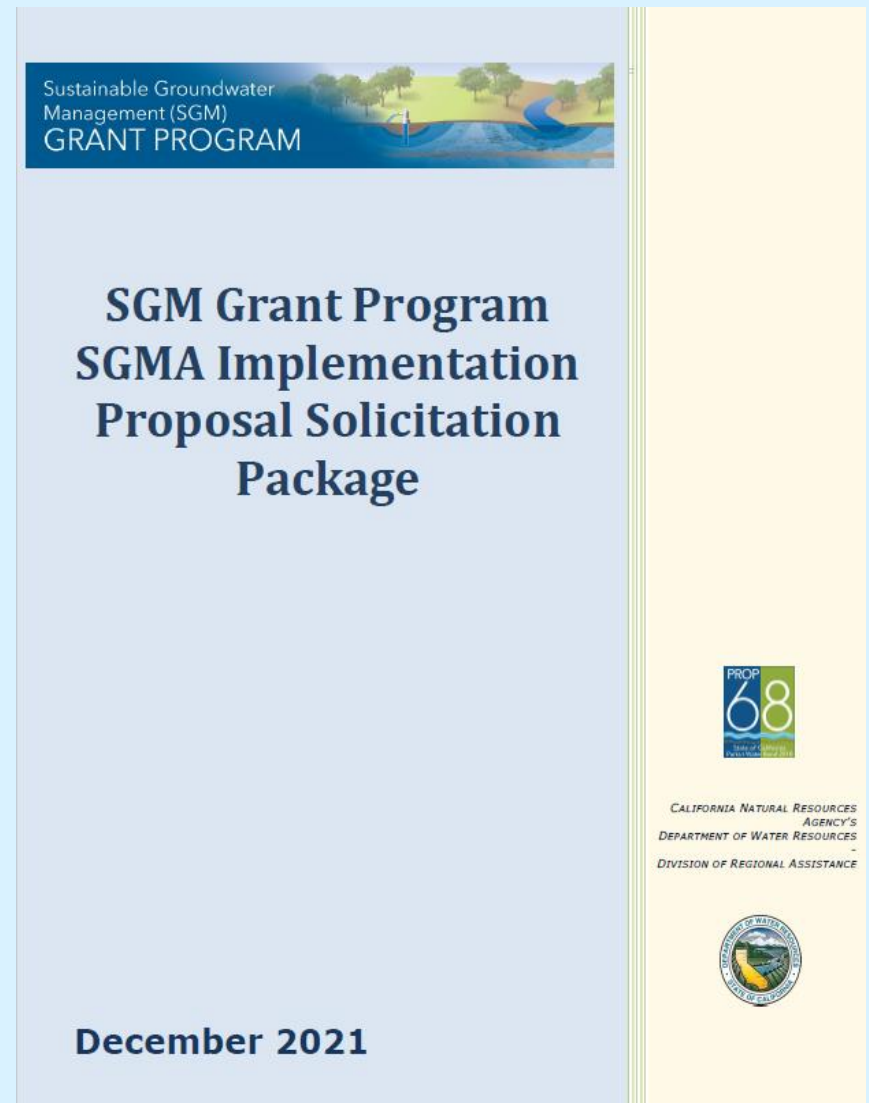
Examples of eligible project activities, tasks, and/or components can include, but are not limited to, the following:

- Filling data gaps in a GSP(s) or Alternative to a GSP
- Project development activities (e.g., feasibility studies, design, permits, environmental documents)
- Long-term planning studies
- Technical and planning assistance for Underrepresented Communities
- Interested party outreach and engagement
- Vulnerability or risk assessments
- Technical assistance for Underrepresented Communities
- Engagement and outreach to Underrepresented Communities
- Evaluation of groundwater management needs

SGM Grant Program Proposal Solicitation Package 2021

11

- Impact studies on domestic and de minimis groundwater well users
- Annual reporting for GSPs and Alternative to a GSP
- Identifying and proper destruction of abandoned wells
- Identifying of recharge location(s)
- Soil carbon enhancement and Healthy Soil Initiative activities
- Native Yield studies
- Coordination activities with adjacent GSA(s)
- Instrumentation for monitoring wells (e.g., pressure transducers)
- Pilot or demonstration projects meeting the purpose of SB-170 and Proposition 68
- Installation of meters on groundwater production and agricultural wells
- Installation of monitoring well(s)
- Connection of communities to a municipal water supply (except laterals on private land)
- Groundwater recharge projects with surface water, stormwater, recycled water, and other conjunctive use projects
- Groundwater contaminant remediation or prevention projects for groundwater that serves as a source of drinking water
- Construction, rehabilitation, or expansion of conveyance facilities for groundwater recharge projects
- Wastewater treatment and water recycling facility upgrades for groundwater recharge project sources
- Stormwater and runoff capture projects that support groundwater recharge
- Groundwater recharge facility expansion
- Seawater barrier injection wells
- Groundwater recharge projects that address groundwater dependent ecosystems (GDEs)
- Projects and programs that support water supply reliability, water conservation, water use efficiency and water banking, exchange, and reclamation
- Planning, design, and environmental documentation only as a task of a Project or Component of an overall project (not a standalone task).



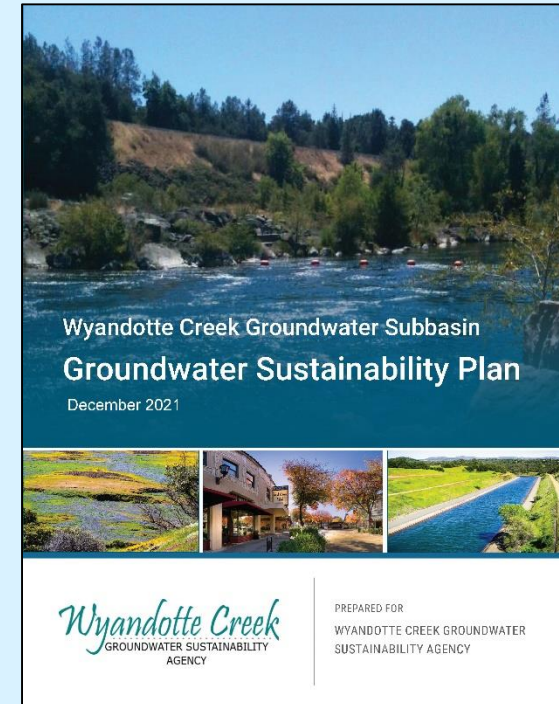
Components to be Discussed

Proposed

1. GSP Implementation, Outreach, and Compliance Activities
2. Monitoring Network Enhancements to Address Data Gaps
3. Inter-basin Coordination Activities
4. Agricultural Surface Water Supplies/Intra-basin Water Transfer
5. TWSD Treatment Plant Capacity Upgrade

For Further Development

1. Agricultural Irrigation Efficiency
2. Groundwater Recharge Feasibility Analysis and Site Evaluation
(Flood MAR/Streamflow Augmentation)



Component 1: GSP Implementation, Outreach, and Compliance Activities – Key Tasks

Item 2.

Annual Report	GSP Updates/ Responses to DWR Comments	5-year GSP Evaluation Report	Outreach and Education Program
Collect and analyze data for previous water year	Review DWR evaluation letter and identify areas that need to be revised	Review any new information	Identify a reasonable stakeholder outreach schedule that can be implemented on an annual basis
Develop maps and calculations	GSA meetings to review and discuss DWR comments	Summarize current groundwater conditions	Identify and implement potential smaller group check ins with specific stakeholder groups
Write report	Identify revisions to be incorporated into the 5-year evaluation report	Evaluation of updated water budgets and overdraft conditions to include changes in water use	Develop educational materials on GSP implementation progress
GSA Meeting	<i>IF</i> GSP deemed incomplete: <ul style="list-style-type: none"> • DWR consultations • GSP revisions and modifications during 180-day resubmittal period • Board adoption of revised GSP 	Relevant actions taken by the GSAs, including a summary of regulations, ordinances, legal enforcement or action related to the implementation of the GSP	GSP website updates
Upload data and submit to DWR	Upload revised GSP and submit to DWR	Outreach activities and GSA meetings	

Component 1: GSP Implementation, Outreach, and Compliance Activities – Budget/Timeline

Approximate Budget:

- Annual Report Development, for WY 2022, 2023, 2024, 2025: ~\$38,000 per Annual Report; total of \$155,000 for 4 reports.
- Fee Study for Long Term Financing of the Wyandotte Creek GSA: \$100,000
- BBGM Update and Re-Calibration: \$50,000
- GSP Updates and Responses to DWR Comments: \$75,000
- Develop and Implement an Approach to Set ISW SMC: \$250,000
- 5-year GSP Evaluation Report: \$150,000
- Outreach and Education Program: \$50,000
- Development of Data Management System: \$125,000

Total: \$955,000

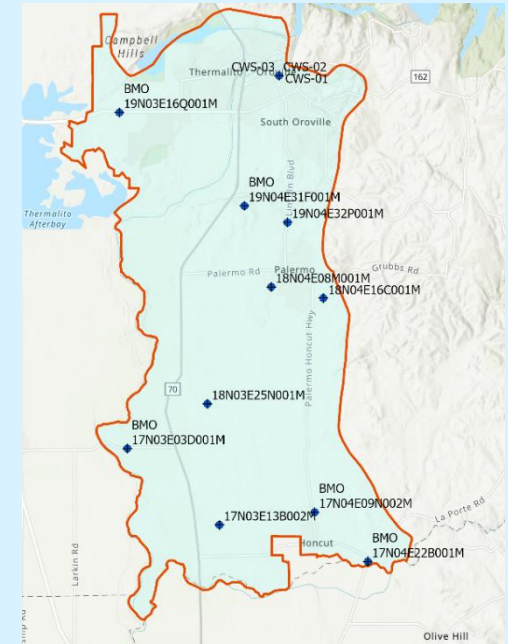
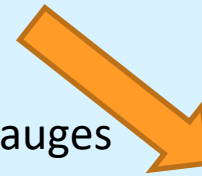
Anticipated Timeline:

- Annual Report Development, for WY 2022, 2023, 2024, 2025: Each Report would be submitted April 1st of the following year.
- Fee Study for Long Term Financing of the Wyandotte Creek GSA: Completed August 2023
- BBGM Update and Re-Calibration: Completed December 2025
- GSP Updates and Responses to DWR Comments: Completed July 2024
- Develop and Implement an Approach to Set ISW SMC: January 2025
- 5-year GSP Evaluation Report: Completed January 2027
- Outreach and Education Program: Completed June 2027
- Development of Data Management System: Completed June 2026

Component 2: Enhancements to Monitoring Networks to Fill Data Gaps

Summary:

1. Develop community domestic well monitoring program
2. Install new multi-completion monitoring wells
3. Expand SW/GW and GDE monitoring:
 - Install shallow (<30') monitoring wells and stream gauges
 - Mapping project of groundwater dependent ecosystems

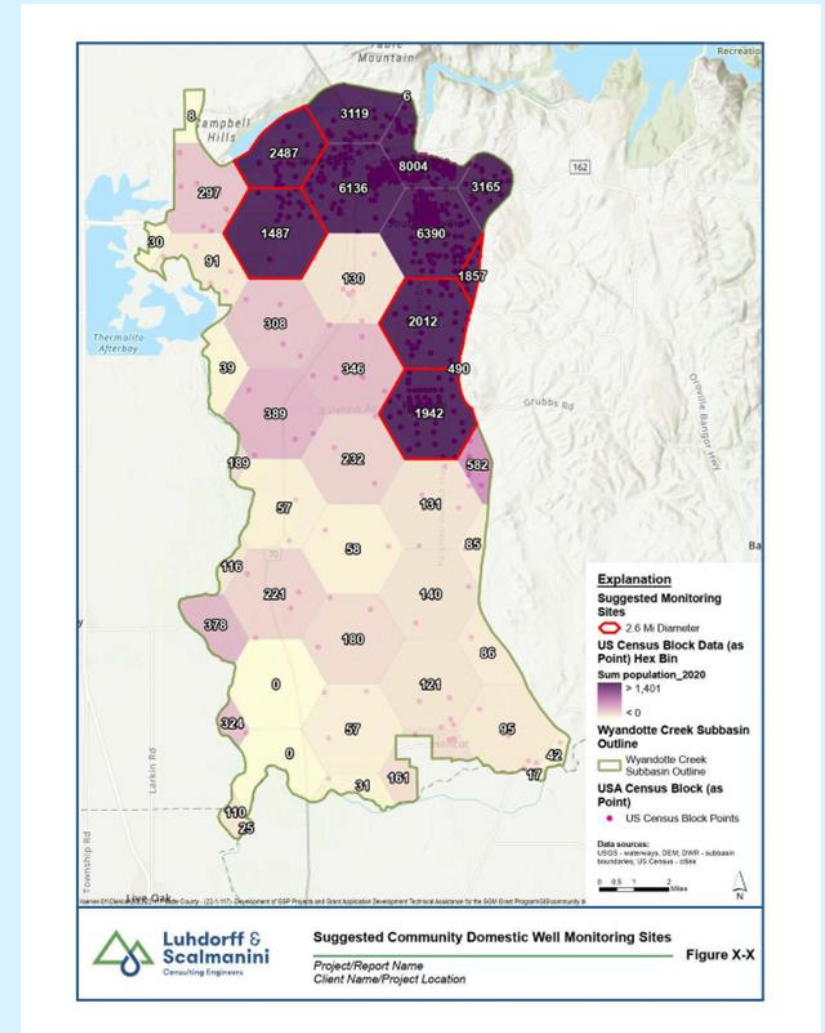


Component 2: Community Domestic Well Monitoring Program

Key Tasks:

The Domestic Well Program seeks to:

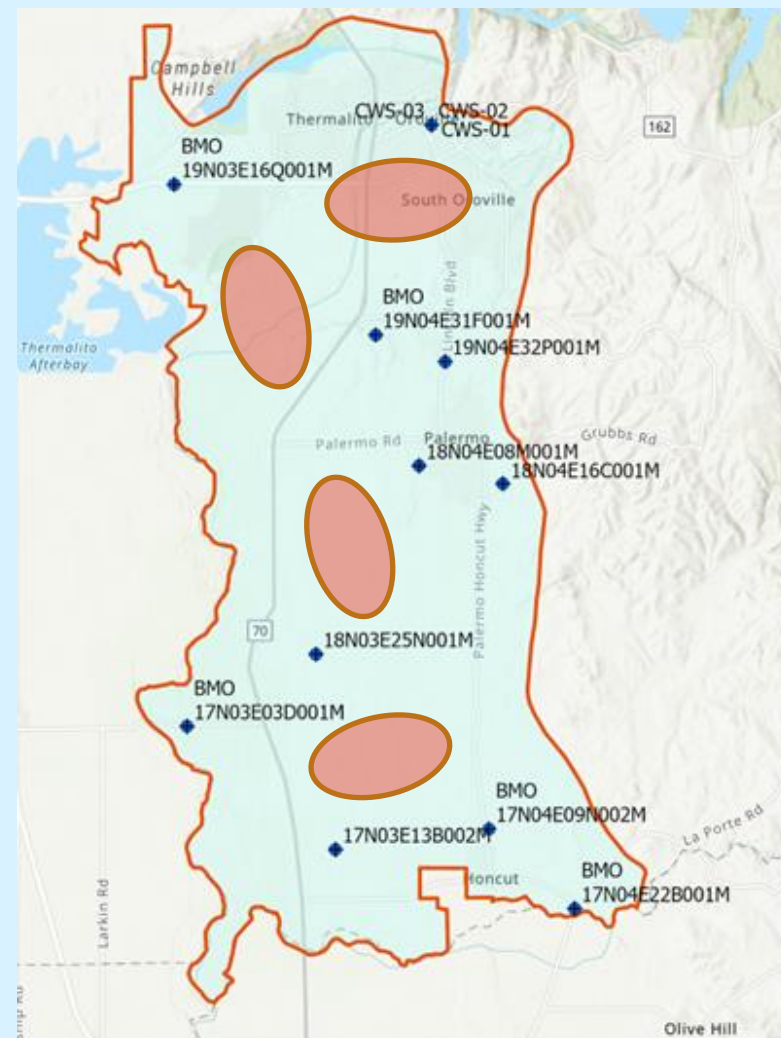
- Outline domestic well-identification needs (i.e., to build a well inventory, and conduct water sampling)
- Establish an inventory of domestic well materials and resources that can be used as part of education, outreach, and engagement efforts
- Begin planning, scheduling, and budgeting for a focused domestic well program
- Identify ways to strengthen and facilitate coordination between county and state agencies for dry well reporting, ordinances, and permitting



Component 2: Install New Multi Completion Monitoring Wells

Key Tasks:

- Add 3-5 multi-completion monitoring wells
 - would help to further refine both the horizontal and vertical understanding of groundwater flow and water quality
- Wells would be incorporated into the current monitoring well network



Component 2: Expand SW/GW and GDE Monitoring

- SW/GW Monitoring
 - Add up to 10 Shallow wells
 - Add Stream Gages
 - would help to further refine both the horizontal and vertical understanding of surface water/groundwater connectivity
- Perform a biological Study on potential GDE



Component 2: Monitoring Network Enhancements to Address Data Gaps

Approximate Budget:

- Task 1 – Community Domestic Well Monitoring: \$53,750
- Task 2 – Installation of Multi-Completion Monitoring Wells: \$810,000
- Task 3 – Installation of Shallow Groundwater Monitoring Devices: \$335,000
- Task 4 – Installation of Surface Water Stream Gages: \$125,000
- Task 5 – Mapping the GDE (in space and changes over time) Utilizing CSU Chico Staff: \$50,000
- Task 6 – Integrate Data into GSP Monitoring Database: \$15,000
- Task 7 – Interbasin Coordination: \$15,000
- Task 8 – Engagement/Outreach: \$30,000

Total: \$1,433,750

Anticipated Timeline:

- Task 1 – Community Domestic Well Monitoring: Completed by January 2025
- Task 2 – Installation of Multi-Completion Monitoring Wells: Completed by July 2024
- Task 3 – Installation of Shallow Groundwater Monitoring Devices: Completed July 2025
- Task 4 – Installation of Surface Water Stream Gages: Completed by July 2025
- Task 5 – Mapping the GDE (in space and changes over time) Utilizing CSU Chico Staff: Completed by January 2026
- Task 6 – Integrate Data into GSP Monitoring Database: Completed by January 2026
- Task 7 – Interbasin Coordination: Ongoing throughout project
- Task 8 – Engagement/Outreach: Ongoing throughout project

Component 3: Inter-basin Coordination Activities

Background and Summary:

- In the Sacramento Valley inter-basin coordination is critical due to the interconnectedness of groundwater, as each Subbasin implements its GSP.
- During development of the Groundwater Sustainability Plan, the Wyandotte Creek Subbasin participated with the surrounding 10 subbasins (Antelope, Bowman, Butte, Vina, Colusa, Corning, Los Molinos, Red Bluff, Sutter, and Yolo) in the Northern Sacramento Valley in inter-basin coordination efforts focused on establishing a foundation and guidelines by identifying priorities and resources.
- Future coordination will focus on the Feather River Corridor subbasins which include Butte, Sutter, North Yuba and Wyandotte Creek.
- The main objective of the coordination efforts is to identify any significant discrepancies in the GSPs, understand why those differences exist, and evaluate to the extent they need to be reconciled.

Component 3: Inter-basin Coordination Activities

Key Tasks:

- Conducting joint analysis and evaluation of GSPs
- County contour mapping to help identify inter-basin flow patterns and influences on surface water flows and replenishment locations
- Coordinated communication and outreach

Component 3: Inter-basin Coordination Activities

Approximate Budget:

Total: \$260,000

Task 1 – Project Administration and management: \$20,000

Task 2 - Joint analysis and evaluation of GSPs: \$200,000

Task 3 - Coordinated communication and outreach: \$40,000

Anticipated Timeline:

Task 2 - Joint analysis and evaluation of GSPs: Completed by April 2026

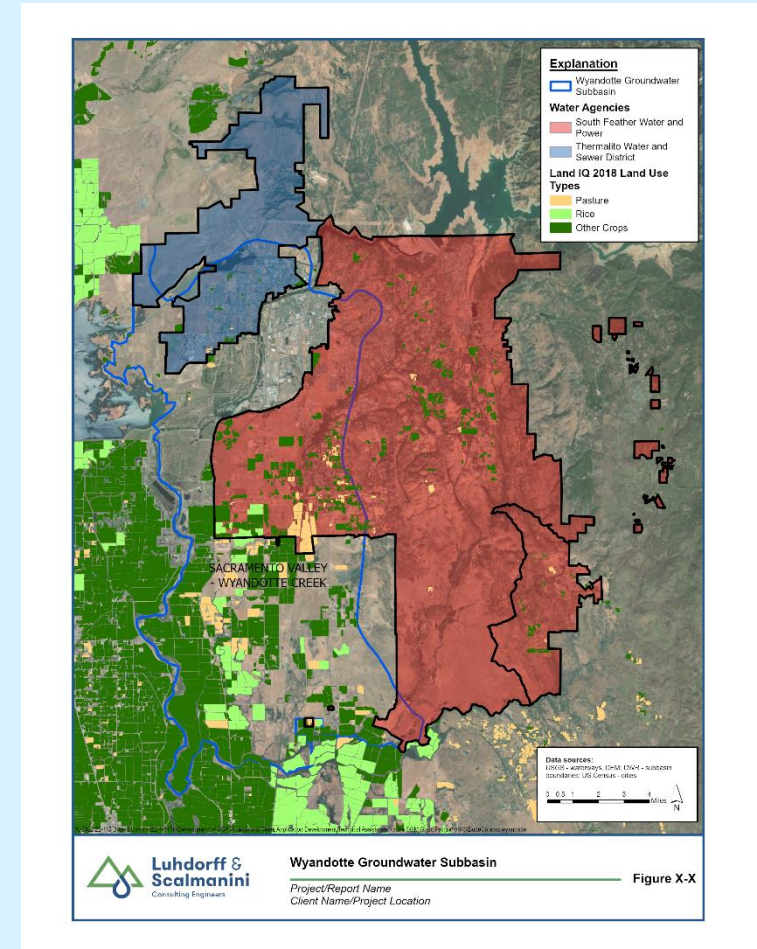
Task 3 - Coordinated communication and outreach: Completed by April 2026

Component 4: Agricultural Surface Water Supplies/Intra-Basin Water Exchange

Item 2.

Background and Summary:

1. Many Agricultural users are solely dependent on groundwater
2. Using surface water instead of groundwater would allow groundwater levels to recover (in-lieu recharge)
3. A dual source water supply could be beneficial as in-lieu recharge projects (5,000-8,000 AFY)
4. 2018 “Evaluation of Restoration and Recharge Within Butte County Basins” identified surface water sources for diversion
5. Goal: Diversify agricultural water supplies to include surface water supplies from within and outside the subbasin including the Feather River Watershed and entities including TWSD, Butte County, or SFWPA.



Component 4: Agricultural Surface Water Supplies/Intra-Basin Water Exchange

Total: \$242K

Approximate Budget:

- Task 1 - Administrative Tasks: \$62K
- Task 2 – Identify surface water sources/Availability in Subbasin: \$10K
- Task 3 – Conduct Surface Water Supply Reliability Assessment: \$20K
- Task 4 – Identify Potential Intra-basin Allocation/Transfer Needs: \$10K
- Task 5 – Develop Intra-basin Transfer Feasibility Study: \$50K
- Task 6 – Prepare Draft Implementation Plan-With Review: \$45K
- Task 7 – Prepare Final Implementation Plan: \$25K
- Task 8 – Engagement/Outreach: \$20K

Anticipated Timeline:

- Task 1 – Administrative Tasks: Completed by March 2026
- Task 2 – Identify surface water sources/Availability in Subbasin: Completed by April 2024
- Task 3 – Conduct Surface Water Supply Reliability Assessment: Completed by April 2024
- Task 4 – Identify Potential Intra-basin Allocation/Transfer Needs: Completed by April 2024
- Task 5 – Develop Intra-basin Transfer Feasibility Study: Completed by October 2024
- Task 6 – Prepare Draft Implementation Plan-With Review: Completed by July 2025
- Task 7 – Prepare Final Implementation Plan: Completed by January 2026
- Task 8 – Engagement/Outreach: Ongoing Throughout Process

Component 5: TWSD Water Treatment Plant Capacity Upgrade

Item 2.

Background and Summary:

Total: \$242K

- The goal of this project is to increase Thermalito Water and Sewer District's (TWSD) ability to provide additional surface water capacity and offset the district's groundwater pumping, which is approximately 600 AF per year.
- The proposed project would double the treatment plant capacity to 8 MGD with the installation of two (2) filter racks and associated equipment.
- The project is currently underway and expected to take 13.5 months

Component 5: TWSD Water Treatment Plant Capacity Upgrade

Total: \$2,603,784

Approximate Budget:

- Task 1 - Administrative Tasks: \$5,000
- Task 2 – Design Plans and Specifications: \$280,250
- Task 3 – Construction: \$2,318,534

Anticipated Timeline:

- Task 1 - Administrative Tasks: Completed by March 2024
- Task 2 – Design Plans and Specifications
- Task 3 – Construction: Completed by December 2023

** Need clarification on the project schedule

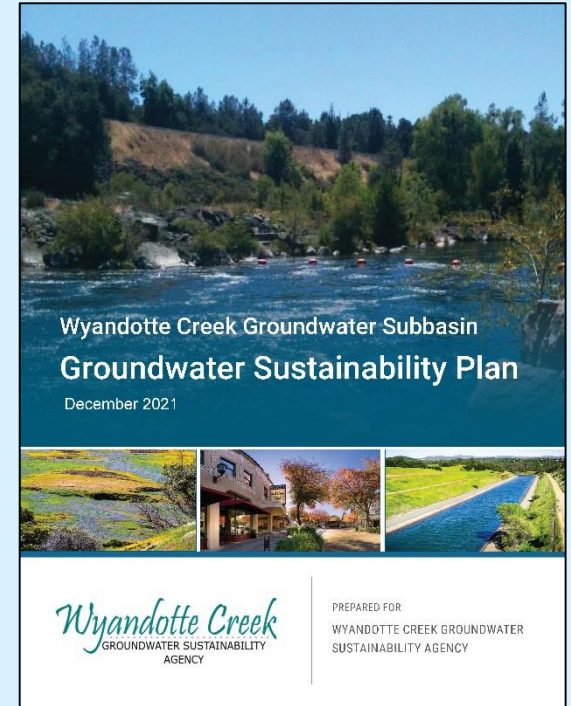
Components to Be Discussed

Proposed

1. GSP Implementation, Outreach, and Compliance Activities
2. Monitoring Network Enhancements to Address Data Gaps
3. Inter-basin Coordination Activities
4. Agricultural Surface Water Supplies/Intra-basin Water Exchange
5. TWSD Water Treatment Plant Capacity Upgrade

For Further Development

1. Agricultural Irrigation Efficiency
2. Groundwater Recharge Feasibility Analysis and Site Evaluation (Flood MAR/Streamflow Augmentation)



Further Development 1: Agricultural Irrigation Efficiency

Background:

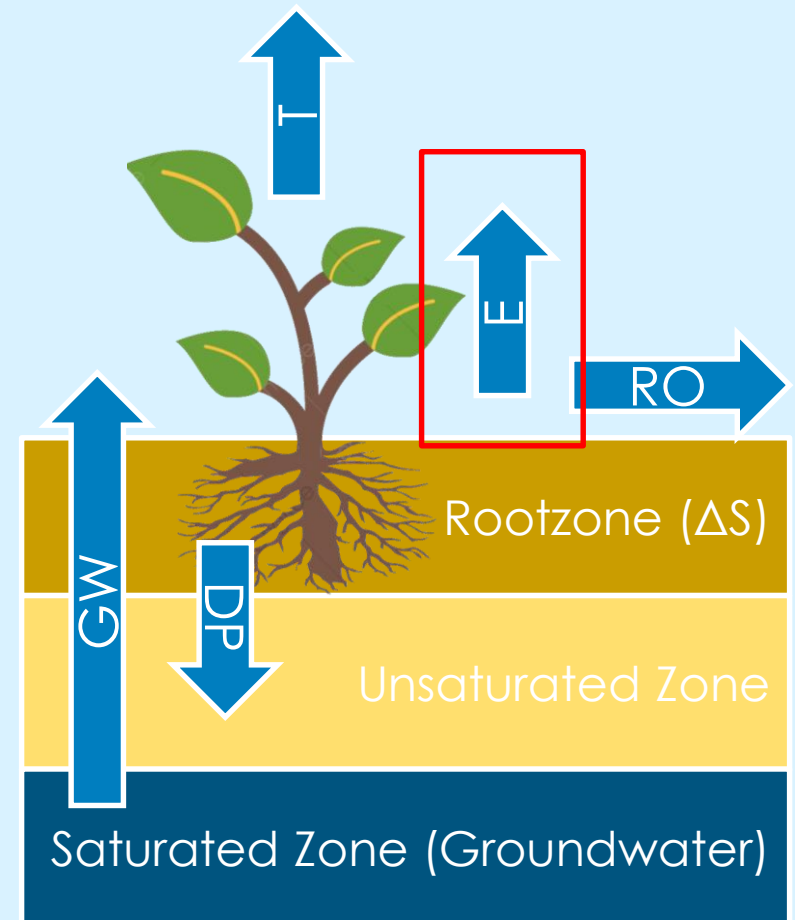
1. Increased irrigation efficiency (IE) can have positive impacts on energy use and water quality.
2. However, increased IE does not always translate to improvements in (sub)basin sustainability.
3. In many cases, large-scale improvements (investments) to IE have complicated groundwater sustainability.
4. Often wise to leave legacy irrigation infrastructure in place.
5. (Sub)basin sustainability requires understanding and management of ET.

Further Development 1: Agricultural Irrigation Efficiency

Item 2.

Background

- Primary opportunities for subbasin scale benefits from IE improvements are related to:
 - Reducing non-beneficial Evaporation (E)
 - Evaporative losses from sprinklers
 - Evaporative losses from wet soils
 - Reducing (non-beneficial) Transpiration (T)
 - Transpiration from weeds
 - Regulated deficit irrigation
- Simply reducing deep percolation (DP) will not move the subbasin towards sustainability



Further Development 1: Agricultural Irrigation Efficiency

Key Tasks:

Task 1: Component administration and management

Task 2: Develop Precision Irrigation Piloting Program

- Perform IE-related stakeholder outreach and education
- Develop field-scale inventory of irrigation methods
- Quantify and disseminate field-scale ET data
- Incentivize and pilot precision irrigation techniques
- Monitor and quantify opportunities for real reductions in ET
- Develop phase II IE implementation plan

Task 3: Outreach and Education Program

Further Development 1: Agricultural Irrigation Efficiency

Item 2.

Total: \$150,000

Approximate Budget:

- Task 1 – Component Administration and Management: \$10,000
- Task 2 – Develop Precision Irrigation Piloting Program: \$100,000
- Task 3 – Outreach and Education Program: \$40,000

Anticipated Timeline:

- Task 1 – Component Administration and Management: Completed by June 2026
- Task 2 – Develop Precision Irrigation Piloting Program: Completed by March 2026
- Task 3 – Outreach and Education Program: Completed by March 2026

Further Development 2: Groundwater Recharge Feasibility Analysis and Site Evaluation

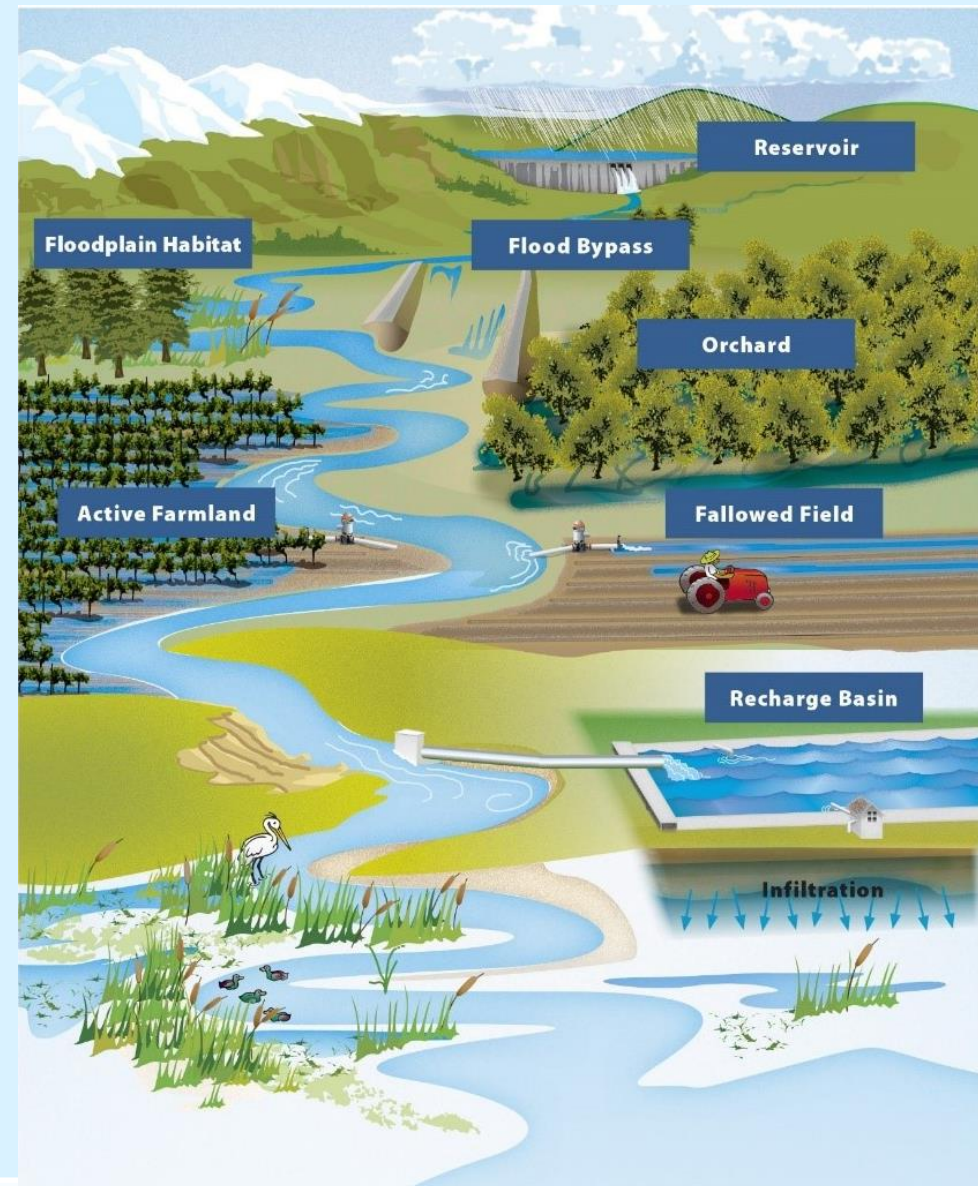
- This project is based on the Flood MAR/Streamflow Augmentation projects described in the GSP
- The Flood MAR initiative, originally developed by DWR to promote recharge programs that use fields, recharge basins, and/or recharge ponds to divert high flows from creeks and streams.
- Project to focus on initial scoping and identification of specific recharge opportunities.
- Focus on areas with the greatest need for recharge and identify areas with promising recharge potential.
- Interested landowners would be identified and participation in the program would be voluntary.

Further Development 2: Groundwater Recharge Feasibility Analysis and Site Evaluation

Item 2.

What is Flood-Managed Aquifer Recharge?

“Flood-MAR” is an integrated and voluntary resource management strategy that uses flood water resulting from, or in anticipation of, rainfall or snow melt for managed aquifer recharge (MAR) on agricultural lands and working landscapes, including but not limited to refuges, floodplains, and flood bypasses. Flood-MAR can be implemented at multiple scales, from individual landowners diverting flood water with existing infrastructure, to using extensive detention/recharge areas and modernizing flood management infrastructure/operations.



Further Development 2: Groundwater Recharge Feasibility Analysis and Site Evaluation

Recharge Projects to Be Evaluated

1. Flooding of agricultural lands:
 - Winter flooding of orchards or idle/fallowed fields
2. Construct Recharge Ponds
 - Divert flood waters to constructed recharge ponds
3. Recharge through Canals and Creeks (stream augmentation)
 - Divert flood waters to ephemeral creeks and available unused canals

Further Development 2: Groundwater Recharge Feasibility Analysis and Site Evaluation

Approximate Budget:

- Task 1 – Grant Administration: \$90,000
- Task 2 – Feasibility Analysis and Project Identification: \$100,000
- Task 3 – Groundwater Recharge Investigation and Preliminary Design: \$300,000
- Task 4 – CEQA/Permitting: \$100,000
- Task 5 – Final Design: \$150,000
- Task 6 – Bid Documents: \$50,000
- Task 7 – Construction/Implementation Activities: \$1,00,000
- Task 8 – Public Outreach and Education Program: \$50,000

Total: \$1,840,000

Anticipated Timeline:

- Task 1 – Grant Administration: Completed by June 2026
 - Task 2 – Feasibility Analysis and Project Identification: Completed by September 2024
 - Task 3 – Groundwater Recharge Investigation and Preliminary Design: Completed by March 2025
 - Task 4 – CEQA/Permitting: Completed by September 2025
 - Task 5 – Final Design: Completed by September 2025
 - Task 6 – Bid Documents: Completed by January 2026
 - Task 7 – Construction/Implementation Activities: Completed by March 2026
 - Task 8 – Public Outreach and Education Program: Completed by June 2026
- *Note these tasks are possible and open for discussion. This would be potential tasks ending in implementation

Projects Identified for Further Development with Details Provided by the Implementing Agency

1. TWSD Water Treatment Plant Capacity Upgrade (Section 5.2.4.6)
2. Water Loss Monitoring (Section 5.2.4.7)

The following projects are pursuing other funding opportunities and/or are not strong candidates for the SGM Grant Program:

1. Oroville Wildlife Area Robinson's Riffle Project (Section 5.2.4.4)
2. Palermo Clean Water Consolidation Project (Section 5.2.4.8)