



Projects implemented through March 2026:

- · Data Gap Identification and Data Improvement (GSA)
- Lindo Channel Recharge Feasibility (GSA)
- · Outreach Program
- Project Management and Grant Administration
- Water Supply and Recharge Feasibility (Butte County)
- Inter-basin Coordination Analysis and Modeling (Butte County)
- Demand Reduction Strategies (AGUBC)







Data Gap Identification & Data Improvement

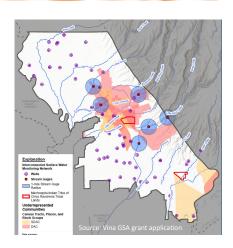


Why it matters:

 Accurate data is essential for making informed decisions about water resources.

Our plan:

- Invest in new monitoring sites and equipment for more precise data on surface and groundwater conditions.
- Better understand the system and amend the Vina GSA GSP over time to respond to new data and feedback from DWR.



Data Gap Identification & Data Improvement

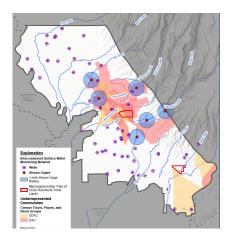


Updates on Tasks during 4/1/24 - 8/31/24:

· Project is on track and within budget.

Consultant Progress on Tasks Includes:

- Began identifying areas within the subbasin for potential new monitoring network sites. Coordination with Butte County to understand existing network.
- Developed approach to classify shallow and deep monitoring wells to support monitoring network enhancements. Analysis underway.
- In process of reviewing the GSP and DWR determination letter to identify data gaps and areas of refinement.

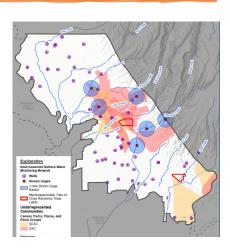


Data Gap Identification & Data Improvement



Next Steps:

- October 1st and 2nd Domestic Well User Outreach Event
- Finalize draft map of proposed locations for new monitoring sites.
- Present the map of proposed locations to the Stakeholder Advisory Committee (SHAC) on October 23rd for review.
- Present recommendations for proposed new monitoring sites to the Vina GSA Board for approval.



Lindo Channel Recharge Feasibility

- Assess feasibility of enhancing natural recharge along the Lindo Channel in Chico.
- Project Outcomes:
 - Develop Recharge Feasibility Study
 - Monitoring Network
 - Stakeholder Engagement







Lindo Channel Recharge Feasibility

Updates on Tasks during 4/1/24 - 8/31/24:

- Project is within budget.
- Schedule has been slightly delayed but overall is on track

Consultant Progress on Tasks Includes:

- Reviewed water rights to assist in developing the flow thresholds for diversion.
- Reviewed AEM data and well logs for assessment of groundwater recharge potential.
- August 5th, consultant came for a site visit.



Lindo Channel Recharge Feasibility

Next Steps

- · Revising the project schedule
- Stakeholder meeting





Outreach Program

Updates on Tasks during 4/1/24 - 8/31/24:

• Project is within budget and getting underway

Consultant Progress on Tasks Includes:

- Created a style guide to promote consistency in outreach materials.
- Began creating project-specific outreach plans.

Upcoming:

- Finalize project-specific outreach plans.
- Develop and design outreach materials for projects.



Project Management & Grant Administration

Updates on Tasks during 4/1/24 - 8/31/24:

• Project is on track and within budget

Progress on Tasks Includes:

- Hosted a big team kickoff meeting with all consultants
- Scheduled regular check-in meetings with each consulting team
- Filed environmental forms
- Submitted two quarterly invoices and progress reports to DWR







- Water Supply and Recharge Feasibility (Butte County)
- Inter-basin Coordination Analysis and Modeling (Butte County)

Project Manager: Christina Buck, Asst. Director Dept. of Water and Resource Conservation Butte County









Water Supply and Recharge Feasibility

- Identify two most promising water supply projects and complete feasibility analysis
- Identify potential recharge pilot projects
 - · Collect data at site
 - Conduct recharge, if feasible
 - · Lessons learned



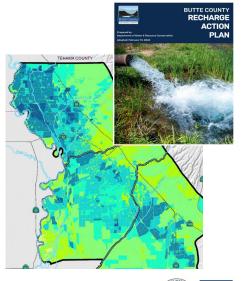
Water Supply and Recharge

Updates on Tasks during 4/1/24 - 8/31/24:

• Project is within budget and on schedule

Consultant Progress on Tasks Includes:

- · Gathering relevant data and reports for review
- AEM data review and 3D model development to assess potential recharge areas
- Discussion with Butte County Water Commission August 7, 2024
- Consultant meeting with Butte County Public Works
- · Stakeholder meeting with environmental stakeholders

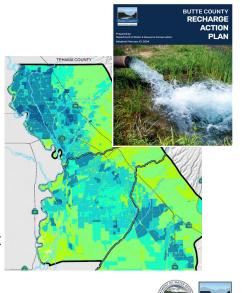


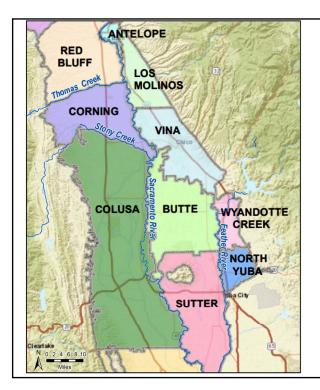


Water Supply and Recharge

Next Steps

- Continued information gathering to explore potential of water supply and recharge concepts
- Consultants to further define near-term recharge pilot projects
- Partner with Resource Conservation District for implementation of "leaky rock weirs" in Big Chico Creek watershed





Inter-basin Coordination Analysis and Modeling

- Better understand the system at the boundaries
 - Rivers/streams connected to groundwater system
 - Water Budgets
 - · Monitoring wells
- Refine modeling tools: Butte Basin Groundwater Model
- Will support coordination efforts with information and data



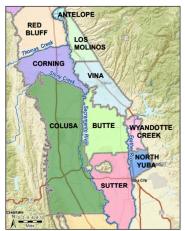
Inter-basin Coordination Analysis and Modeling

Updates on Tasks during 4/1/24 - 8/31/24:

• Project is within budget and on schedule

Consultant Progress on Tasks Includes:

- Gathering relevant data, model files, and reports for review
- Compiling contents of GSPs along North Sac River Corridor
- Evaluating possible model refinements to be made to the Butte Basin Groundwater Model



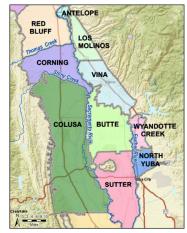


Inter-basin Coordination Analysis and

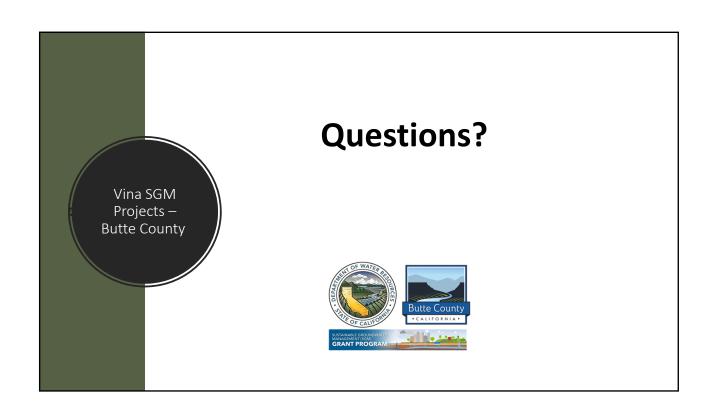
Modeling

Next Steps

- Continue pulling together information from GSPs
- Gather information from GSAs (ex. revised Sustainable Management Criteria)
- Determine model refinements to be completed by the project







Component 3: Demand Reduction Strategies

Will improve subbasin sustainability related to groundwater levels and groundwater storage **by decreasing consumptive use** through two programs:

- 1. Precision Irrigation Program
- 2. Extend Orchard Replacement Program

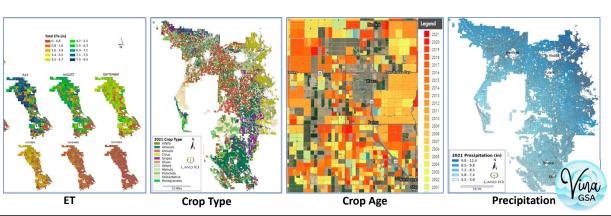


Precision Irrigation Program

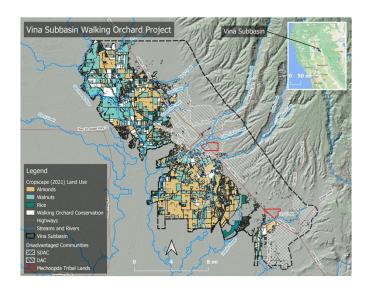
Perform a comprehensive state of irrigation technology and systems analysis in the Subbasin:

- Create a spatial map of the Subbasin using Field-by-Field ET, Crop Type, Crop Age, & Precipitation layers
- Add other layers to the spatial map, including Irrigation Method, Soil Type, Elevation, & Ownership

Develop a Precision Irrigation Program for the Subbasin that includes the piloting of innovative irrigation technologies and leveraging of outreach and education to improve ET-based water management at a broader scale in the Subbasin.



Extend Orchard Replacement Program



What:

Incentivize local growers to **extend the duration of their current fallowing practice** between orchard removal and replanting by one or more growing seasons.

Why:

Extra time allows the soil to fallow and reduces the overall demand on groundwater.

Goals & Benefits:

- Temporarily fallow between 1,600 and 3,200 acres per year.
- Reduce groundwater use by 4,000 to 8,000 acre-feet per year in the Subbasin.



Demand Reduction Strategies: Timeline & Activity

	2024	2025	2026
Phases	Develop Pilot Programs	Implement Pilot Programs	Finalize Technical Memos / Programs
Precision Irrigation	Install ET stations.Develop spatial map.Add layers to spatial map.	 Analysis of outputs from the spatial map. Conduct educational outreach to landowners based on results and solicit input / feedback. 	 Finalize Technical Memo for the Subbasin, based on comprehensive spatial mapping analysis and grower input.
Extend Orchard Replacement	 Collect economic data. Develop and Finalize Pilot Program Guidelines. 	Implement Extend Orchard Pilot Program.	Finalize Technical Memo for the Subbasin, based on comprehensive spatial mapping analysis and results of Extend Orchard Pilot Program.

