



Sustainable Groundwater Management Projects Update

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Wyandotte Creek Advisory Committee

November 7, 2024

Background

- ▶ California Department of Water Resources Sustainable Groundwater Management Implementation Grant
 - ▶ Wyandotte Creek Groundwater Sustainability Agency (GSA) awarded \$5.5M
 - ▶ Wyandotte Creek GSA Board approved the approach to partner with Butte County Department of Water and Resource Conservation to lead portions of the grant funded work.
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Projects Implemented through March 2026

- ▶ Data Gap Identification and Data Improvement
- ▶ Outreach Program
- ▶ Regional Conjunctive Use Program
- ▶ Project Management and Grant Administration
- ▶ Data Management System Enhancements
- ▶ Inter-basin Coordination Analysis and Modeling



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Data Gap Identification and 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 Wyandotte Creek 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 - 9/30/24:

- 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:

- Finalize draft map of proposed locations for new monitoring sites.
- Present the map of proposed locations to the Wyandotte Creek Advisory Committee (WAC) on November 7th for discussion and review.
- Present recommendations for proposed new monitoring sites to the Wyandotte Creek GSA Board for approval.

Outreach

Updates on Tasks during 4/1/24 - 9/30/24:

- Project is on track and within budget.

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.

Regional Conjunctive Use Project

Focuses on reducing the dependency of the subbasin on groundwater through:

- Intra-basin water exchange study
- Agricultural Surface Water Supplies Study
- Precision Irrigation Efficiency Pilot Program



Regional Conjunctive Use Project

Updates on Tasks during 4/1/24 - 9/30/24:

- Project is on track and within budget.

Consultant Progress on Tasks Includes:

- Intra-basin water exchange feasibility –
 - Met with Thermalito Water and Sewer District (TWSD) and South Feather Water and Power Agency (SFWPA)
 - Toured SFWPA facilities and service area
- Surface water in lieu of groundwater –
 - Combining efforts with West Yost on the Palermo drainage plan
- Precision Irrigation Program –
 - Formed an Ad Hoc Committee
 - Mobile Irrigation Lab

Regional Conjunctive Use Project

Next steps:

- 11/7/24 – Surface Water Supplies - Public Engagement meeting
- Schedule Precision Irrigation Ad Hoc Committee meeting
- Schedule site visits



Project Management & Grant Administration

Updates on Tasks during 4/1/24 - 9/30/24:

- Project is on track and within budget

Progress on Tasks Includes:

- Hosted a big team kickoff meeting with all consultants
- Conduct regular check-in meetings with each consulting team
- Filed environmental forms
- Submitted two quarterly invoices and progress reports to the Department of Water Resources



- ▶ **Data Management System Enhancements (Butte County)**
- ▶ **Inter-basin Coordination Analysis and Modeling (Butte County)**

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



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Data Management System Enhancements

Updates on Tasks during 4/1/24 - 9/30/24:

- Project is on track and within budget.

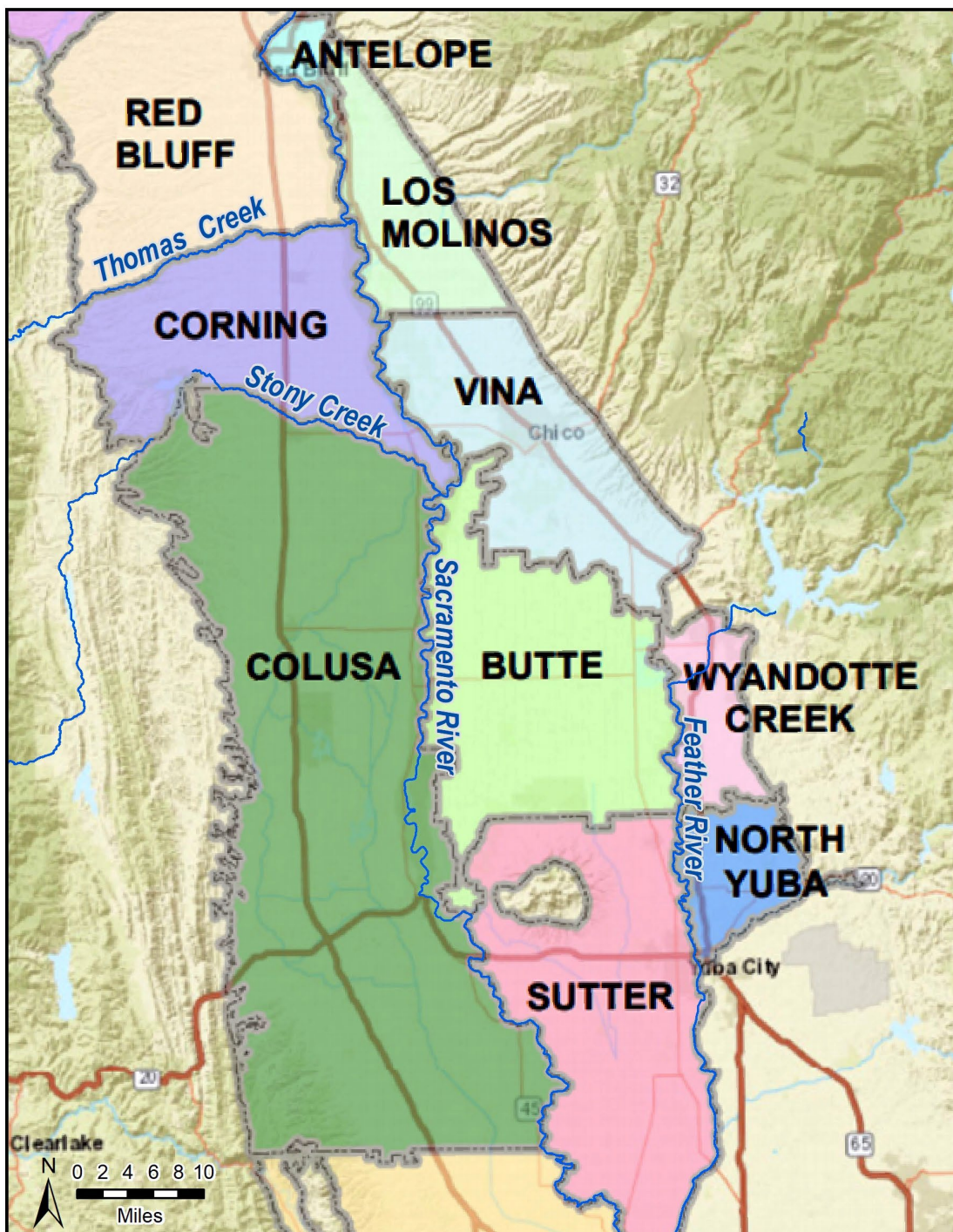
Consultant Progress on Tasks Includes:

- Staff working with consultant team to communicate data management and reporting needs
- Consultants have created initial examples of data reports with ESRI and PowerBI software

Next steps:

- Consultant continue to refine data report formats and functionality
- Additional data types considered (ex. water quality, model outputs)





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



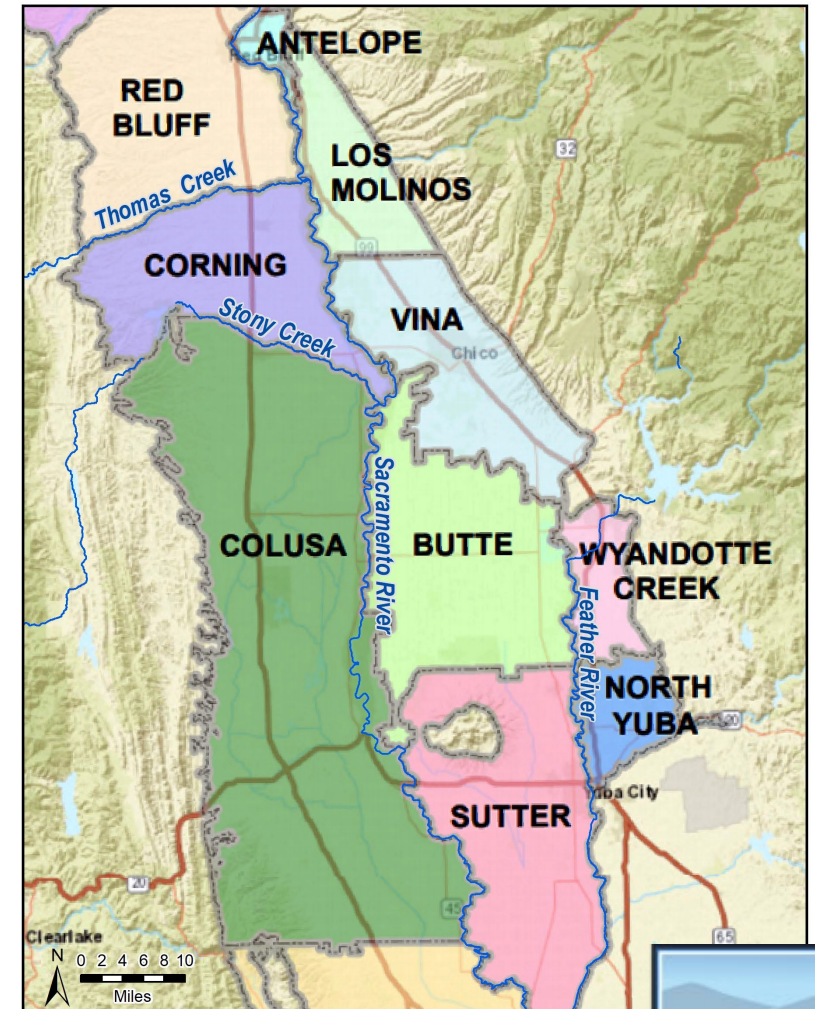
Inter-basin Coordination Analysis and Modeling

Updates on Tasks during 4/1/24 - 9/30/24:

- Project is within budget and on schedule

Consultant Progress on Tasks Includes:

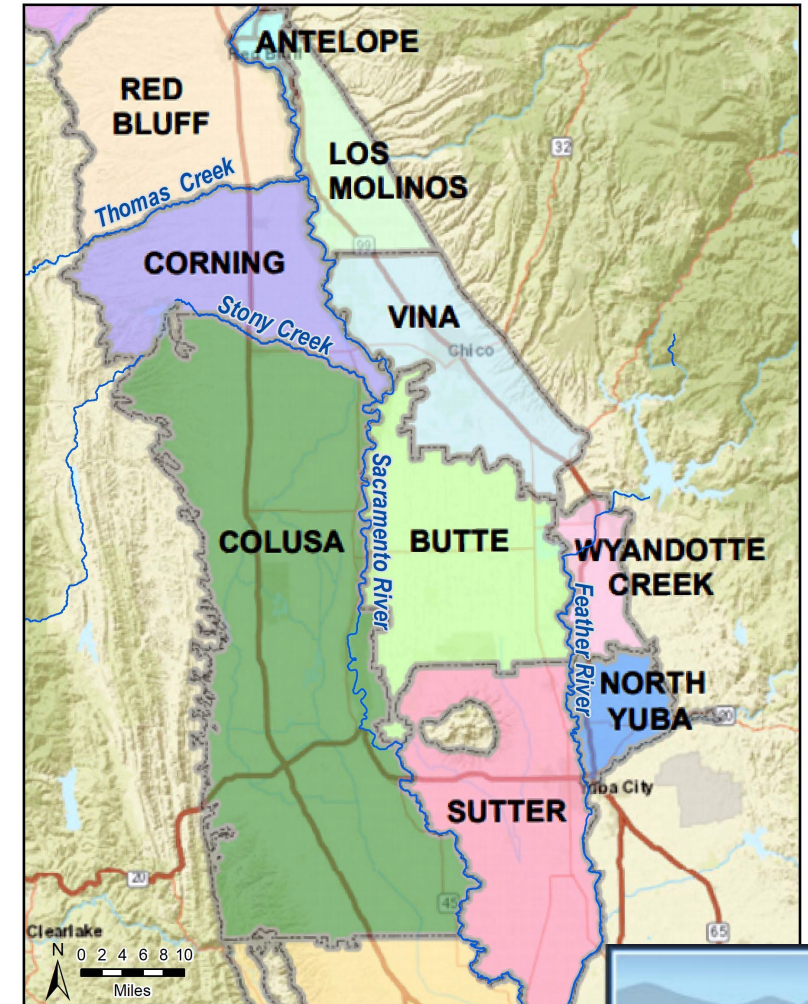
- Gathering relevant data, model files, and reports for review
- Compiling contents of GSPs along Feather River Corridor and review existing available information
- Initial meetings with North Yuba to understand available data
- Evaluating possible model refinements to be made to the Butte Basin Groundwater Model



Inter-basin Coordination Analysis and Modeling

Next Steps

- Meet with Sutter subbasin staff to gather data and understand their current efforts
- Discussion and update to Butte County Technical Advisory Committee on November 19.
- Working on BBGM revisions and evaluating model outputs at boundaries
- Continue pulling together information from GSPs along both North Sacramento River and Feather River Corridors



Questions?

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