

## Welcome!

- This Open House is divided in two sections:
  - Full-group presentation and information-sharing, including online participants
  - Self-guided stations and one-on-one conversations with staff
- We are broadcasting and recording the informational portion of this open house!
  - Those joining us live are invited to type questions into the Zoom chat feature.
  - Individuals watching this asynchronously are encouraged to reach out to the Groundwater Sustainability Agency (GSA) managers with their questions directly via email.
  - The webinar will be posted on both the Tehama County and Glenn County websites.





## Introductions

- Conveners: GSAs in the Corning Subbasin
  - Lisa Hunter, Glenn County staff, support to the Corning Sub-basin GSA.
  - Justin Jenson, Tehama County Flood Control and Water Conservation District staff, support to the Tehama County GSA.

### GSP Implementation Consultant

- Eddy Teasdale, Luhdorff & Scalmanini Consulting Engineers (LSCE)
- Will Anderson, LSCE
- Facilitation Support
  - Marisa Perez-Reyes, Stantec Consulting Services
  - Stephanie Horii, Consensus Building Institute

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GSA

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**.uhdorff** &

Scalmanini

Consulting Engineer

## Agenda

### 6:00 – 6:45 Informational Overview

- Sustainable Groundwater Management Overview
- Corning Subbasin Conditions & the Revised GSP
- Data Gaps and Monitoring
- Overview of Recharge Projects
- Open House Station Overview
- Questions & Answers

### 6:45 – 7:30 **Open House Stations**

- General SGMA Questions and Getting Involved
- Groundwater Conditions and Data Gaps/ Monitoring
- Recharge Projects and In-Lieu Surface Water Use
- Management Actions and Funding





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### Sustainable Groundwater Management Basics



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## The Purpose of SGMA

- Promote sustainable management of groundwater basins
- Enhance local management to protect our groundwater; the State will step in if necessary
- Improve data collection and understanding of groundwater resources and management
- Avoid or minimize undesirable results to groundwater



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Degraded Surface Water Seawater Quality Depletion Intrusion



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## SGMA in the Corning Subbasin

2 GSAs jointly manage the Subbasin through 1 GSP.

Tehama County Flood Control and Water Conservation District (FCWCD) acts as **GSA** for the Tehama **County portion** of Corning Subbasin

Corning Sub-basin GSA (CSGSA) – MOU between:

- Glenn County
- Glenn-Colusa Irrigation District
- Monroeville Water District

Acts as **GSA for the** Glenn County portion

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### SGMA in the Corning **Subbasin**



Related to Tehama County side **†** Related to Glenn County side

- The GSAs in the Corning Subbasin each have their own decision-making authority:
  - The Tehama County FCWCD Board of Directors
  - + The CSGSA Committee
- The GSAs are jointly advised by the Corning Subbasin Advisory Board (CSAB).
  - Tehama County FCWCD is also advised separately by the Tehama County Groundwater Commission. They also manage the Antelope, Bowman, Los Molinos, and Red Bluff Subbasins.
- The advisory groups can form ad hoc working groups on specialized topics (relevant later in presentation)





## The Corning Subbasin is classed as "High Priority" for management



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### The Initial Corning GSP was Determined to be Incomplete

- October 2023: DWR determined that the Corning Subbasin GSP was incomplete and needed to be revised to address to the following issues:
  - Correct Overdraft by addressing excessive groundwater withdrawals.
  - Revise certain Sustainable Management Criteria to meet sustainability goals.
  - Mitigate domestic wells going dry as a result of the GSAs' management approach and develop a means to manage groundwater demand.
- April 2024: The Revised GSP was submitted to DWR.
- **December 2024**: Feedback from DWR is anticipated on the Revised GSP.





### Features of the Revised GSP: Focus Areas

- Focus Areas (*shown on next slide*) were identified through "dry well" reports, and areas where declining groundwater levels were observed.
- Focused efforts will be made to address the regions that are experiencing critical water shortages.



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### Features of the Revised GSP: Focus Areas

### **Aggressive Sustainable Management Criteria (SMC)**

- Implementing stricter SMC guidelines within these high-priority areas.
- Aims to mitigate overdraft risks and promote sustainable groundwater levels more effectively.

### **Enhanced Future Monitoring Capabilities**

- Future improvements include deploying refined groundwater level and water quality monitoring systems.
- Enhanced data collection will enable more precise management and proactive response to potential issues.

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### Recent, Current, and Forthcoming Activities

### **GSP Implementation Grant Funded Work Underway**

 Tasks include developing annual reports, enhancing monitoring network, and supporting recharge projects and in-lieu surface water efforts

#### **Demand Management Program in Development**

- Must be in place by January 2027
- Working groups/ad hoc committees to both GSAs have been formed.

#### Well Mitigation Program in Development

- Must be in place by January 2026
- Working groups/ad hoc committees to both GSAs have been formed.

### **Funding Efforts**

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### Potential Options for Projects and Management Actions (PMAs)

#### Projects

- Direct Recharge
- In-lieu Recharge
- Reduce Non-beneficial ET

#### **Demand Management**

- Multi-benefit land repurposing
- Incentivized land use changes
- Dryland farming
- Fallowing

#### Well Management

- Well Inventory
- Education and Outreach
- Well Incident Reporting System
- Well Mitigation Program

**Note:** <u>Underlined Items</u> were identified as high priority PMAs during GSP development

#### Policy and Ordinances that Control Pumping Growth

- Land Use Ordinances
- Well Permitting Revisions

#### Water Transfers / Contracting

 <u>Full use of Surface Water</u> <u>Allocations</u>

#### Grower Education / Best Management Practices

- Water Use Efficiency
- Conjunctive Use





## **Data Gaps and Monitoring**

- Installation of Multi-Completion Monitoring Wells
- Installation of Surface Water/Groundwater Wells
- Stream Gauging
- Biological Investigations
- Develop Community Domestic Monitoring Programs
- Groundwater Level and Quality Monitoring



## **Data Map Viewer**



https://bit.ly/Tehama GlennSGMADataMap Viewer

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## **Installing New Monitoring Wells**



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## **Installing New Monitoring Wells**

- The Subbasin received funds to install **five** new multi-completion monitoring wells
- Each location includes three wells at varying depths, between 100 and approx. 1,200 ft depending on conditions encountered while drilling
- Installation starts in January

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### Identifying/ Mapping Groundwater Dependent Ecosystems



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### Identifying/ Mapping Groundwater Dependent Ecosystems

- Groundwater Dependent Ecosystems (GDEs) are a protected type of groundwater user under SGMA, and their needs must be considered in groundwater planning.
- Currently, the Subbasin has only been able to identify the locations of GDEs by reviewing satellite maps, which is **limited** and **may not be an accurate representation**.
- The GSAs received funds to **conduct field surveys** to verify and update the locations of GDE in the Subbasin, so their needs can be adequately planned for. Initial surveys have been conducted with more planned in the next year. Initial results will be reported in a **progress report planned for December**.

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## **Community Domestic Well Monitoring Program: Why is it useful?**

- Dry well reports need to be confirmed
- **Data gaps** need to be filled so the GSAs can make **informed management decisions**. Particularly in regards to:
  - The focus areas
  - Ensuring domestic well users are protected
- This approach has worked well in other Subbasins, such as Sonoma County Subbasins and the Yolo Subbasin



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## **Community Domestic Well Monitoring Program: Why is it useful?**



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## What does the program involve?

- Purchase and installation of non-invasive monitoring equipment on 25 volunteers' wells starting as early as mid-March 2025. The grant funds the program for five years. Well Intel provides and installs the equipment and manages the data.
- Well owners can see their groundwater levels via an online data viewer. Recorded water levels will be publicly available, but the <u>location and property data is kept</u> <u>private.</u>
- Enables the GSAs can **see whether groundwater levels are affected** due to their management actions. Data and progress will be reported annually.
- Feedback and communication with the domestic well user community will be facilitated through meetings and workshops such as this one.





## **Community Domestic Well Monitoring Program: Benefits**

- Supports, protects, and minimizes risks to shallow well users and domestic beneficial users of groundwater.
- Tracks changes in water levels across the network to understand where and when domestic wells are being impacted
- Allows users to customize their experience, track groundwater levels and well efficiency over time, and set notifications and alerts on their dashboard





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### Community Domestic Well Monitoring Program: Benefits

- Tracks the effects of PMAs on domestic groundwater levels
- Gathers additional data points for the GSAs to draw on to make adaptive groundwater management decisions.





## How does the monitoring equipment work?



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### **Community Domestic Monitoring Program: Get Involved**

- Minimum requirements to participate:
  - Have WiFi within 2,000 ft of the well
  - Have an available opening on the well **cap** for the equipment

#### November

- Public workshops
- Draft monitoring plan

#### December

- Contact interested parties and select candidates
- Finalize participants by end of the year

### January 2025

 Communicate with selected volunteer participants

#### March

- Install and calibrate systems. Begin monitoring.
- Public workshop and overview of dashboard
- Integrate data into current online map viewer

#### Sign up here:

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bit.ly/DomesticWell Monitoring-**InterestForm** 







### **Recharge Projects and In-Lieu Surface** Water Use



## **Recharge StoryMap**



Prospective recharge projects are detailed in an interactive web-based Story Map.

Come by the **Recharge Station** during the Open House to peruse a draft version of the site: <u>bit.ly/Recharge-</u> <u>StoryMap</u>



## **Multi-Benefit Recharge Pilot Project**



- Recharged **271 acre-feet** between September 3 and November 15
- Provided habitat for shorebirds and other wildlife
- Made possible in part through funding from The Nature Conservancy

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## **Recharge Project Interest Form**



Recharge Opportunities bit.ly/Recharge-InterestForm

### We want to hear from you!

If you are a **landowner interested in participating in a recharge project or using surface water in lieu of pumping groundwater**, please sign up by scanning the QR code, typing the bit.ly link into your internet browser, or connecting with us during the Open House.





## **Open House Stations**

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General SGMA Questions, Getting Involved – Stantec, CBI General SGMA background Outreach and Engagement Opportunities



Groundwater ConditionsExplore the Data Map Viewerand Data Gaps/Information on the domestic wellMonitoring – LSCEmonitoring network



Recharge Projects and In-Lieu Surface Water Use – LSCE

**Actions and Funding** 

monitoring network Recharge and in-lieu surface water use opportunities Explore the StoryMap

Demand Management and Dry Well Mitigation Program development Long-term funding considerations Well Registration (Tehama side)

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Management

– GSA Managers

# **Questions & Answers**

Are there any questions, before we break for the open house segment? Online users, feel free to type your question(s) into the chat.

If you have questions after the presentation, please feel free to engage with us at the open house stations, or after the meeting:

- Contact Justin Jenson at jjenson@tcpw.ca.gov or 530-690-0700 with questions about groundwater management in Tehama County or to receive email notices from Tehama County.
- Contact Lisa Hunter at <u>lhunter@countyofglenn.net</u> with questions about groundwater management in the Glenn County portion of the Corning Subbasin or to receive email notices from Glenn County.





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## Staying Involved



A Related to Tehama County side Related to Glenn County side

### **Upcoming Meetings:**



- Corning Subbasin Advisory Board (CSAB), 1<sup>st</sup> Wednesdays bimonthly at 1:30p, 794 Third Street, Corning | Dec 4
  - ▲ Tehama County **Groundwater Commission**, 2<sup>nd</sup> Wednesdays at 8:30a, 727 Oak St., Red Bluff | Dec 11
  - Corning Sub-basin GSA (CSGSA), 4<sup>th</sup> Thursdays at 2p, 7854 County Road 204, Orland Dec 12
  - Tehama County Flood Control Board of Directors, 3rd Mondays at 10a, 727 Oak St., Red Bluff | Dec 16
  - Tehama County Groundwater Commission Demand Management Working Group, listen-in at (530) 212 – 8376, conference code 142001 | Dec 2 • Dec 18

#### **Interested Parties Lists**

 Contact Lisa Hunter or Justin Jenson directly to be added to the email notification list for either County.

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The presentation slides and a recording of the webinar will be posted to:

- https://tehamacountywater.org/public-workshops/
- + <u>https://www.countyofglenn.net/corning-sub-basin-</u> gsa or https://www.countyofglenn.net/corningsubbasin-open-house-nov-2024





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## **Open House Stations**

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Recharge Projects and In-Lieu Surface Water Use – LSCE Recharge and in-lieu surface water use opportunities Explore the StoryMap

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Management Actions and Funding – GSA Managers Demand Management and Dry Well Mitigation Program development Long-term funding considerations Well Registration (Tehama side)

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