Merced GSP
Joint Coordination & Stakeholder Advisory Committees Meeting

March 9, 2026

Meeting will begin at 10:00 am or a few minutes after – thank you for joining us!

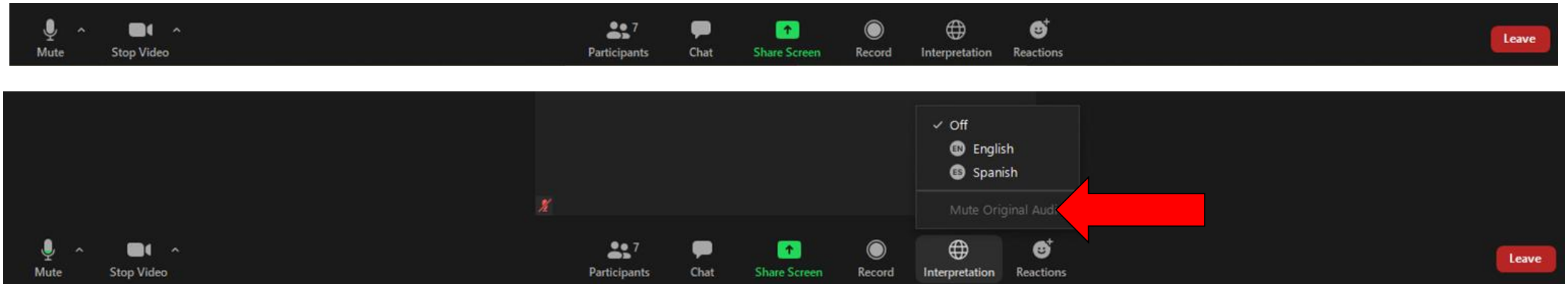
Merced Irrigation-Urban GSA
Merced Subbasin GSA
Turner Island Water District GSA-1

MERCED SGMA

Welcome, Instructions for Zoom
Bienvenidos, Instrucciones para Zoom

We have two language audio channels available. English only speakers, please select English.

Si solamente habla español, debe seleccionar un canal de idioma



The meeting will have simultaneous interpreting, so you are welcome to comment in your native language.
La junta será interpretada simultáneamente, así que le invitamos a que haga comentarios en su lenguaje nativo.

Agenda

1. Call to Order and Welcome
2. Roll Call
3. Approval of Coordination Committee Meeting Minutes
4. Public Comment
5. Reports
6. Water Year 2025 Annual Report Update
7. Merced Managed Aquifer Recharge (MercedMAR) Tool Presentation
8. Domestic Well Mitigation Program Development Update
9. Next Steps and adjourn

Image courtesy: Veronica Adrover/UC Merced

Coordination Committee Roll Call

Bold indicates recent changes

Representative	GSA
Bryan Kelly	Merced Irrigation-Urban GSA
Scott McBride	Merced Irrigation-Urban GSA
Justin Vinson	Merced Irrigation-Urban GSA
Frank Verduzco	Merced Irrigation-Urban GSA
Ken Elwin *(alternate)*	Merced Irrigation-Urban GSA
Mike Gallo	Merced Subbasin GSA
Nic Marchini	Merced Subbasin GSA
Bob Kelley	Merced Subbasin GSA
Gino Pedretti *(alternate)*	Merced Subbasin GSA
George Park *(alternate)*	Merced Subbasin GSA
Chase Hurley	Turner Island Water District GSA #1
Justin Darnell *(alternate)*	Turner Island Water District GSA #1

Stakeholder Advisory Committee Members

Committee Member	Interest/Affiliation	Alternate	Interest/Affiliation
Alvaro Arias	UC Merced	Phillip Woods	UC Merced
Arlan Thomas	MIDAC member	Ben Migliazzo	Live Oak Farms
Bill Eisenstein	River Partners		
Blake Nervino	Stevinson/Merquin		
Breanne Vandenberg	MCFB		
Caitie Diemel	ESJWQC		
Craig Arnold	Arnold Farms		
Daniel Melendrez	City of Merced		
Danielle Serrano	Serrano Farms - Le Grand		
David Belt	Foster Farms		
Eddie Rojas	E&J Gallo Winery		
Emma Reyes	Martin Reyes Farm/Land Leveling		
Jean Okuye	E Merced RCD		
Joe Sansoni	Sansoni Farms/MCFB		
Joe Scoto	Scoto Brothers/McSwain School Dist.		
Scott Menefee	Clayton Water District		
Lisa Kayser-Grant	Sierra Club		
Maxwell Norton	Unincorporated area		
Nav Athwal	TriNut Farms		
Simon Vander Woude	Sandy Mush MWC		
Susan Walsh	City of Merced	Bill Spriggs	Resident City of Merced
Thomas Dinwoodie	Master Gardener/McSwain		
Trevor Hutton	Valley Land Alliance		
Wes Myers	Merced Grassland Coalition	Lou Myers	Benjamin Land LP
Zachary Hamman	Cal Am Water		

Approval of Coordination Committee Meeting Minutes

Image courtesy: Veronica Adrover/UC Merced

Approval of Meeting Minutes

- August 18, 2025
- November 3, 2025

Questions/Comments from Public:

For remote attendees, If you would like to make a comment, please type the comment in the chat or raise your hand to request to be taken off mute

Image courtesy: Veronica Adrover/UC Merced

MERCED SGMA

Reports

Image courtesy: Veronica Adrover/UC Merced

GSA Reports

- Updates from each GSA on activities within their own jurisdiction:
  - Merced Subbasin GSA
  - Merced Irrigation-Urban GSA
  - Turner Island Water District GSA #1

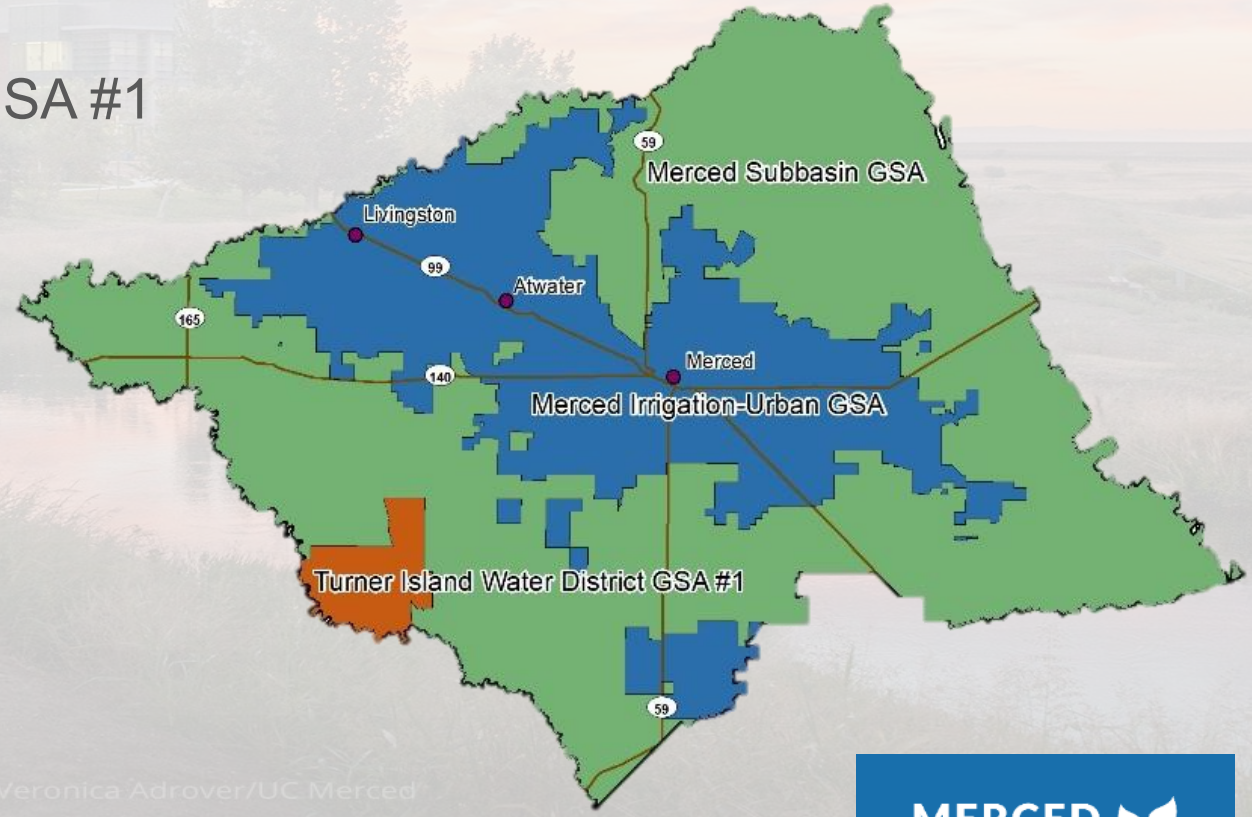


Image courtesy: Veronica Adrover/UC Merced

Water Year 2025 Annual Report

Image courtesy: Veronica Adrover/UC Merced

MERCED SGMA

The WY 2025 GSP Annual Report was recently drafted and is under review by GSA staff

- SGMA requires annual reports on basin conditions and the status of plan implementation every April 1
- Have to report both on:
  - **Basin Conditions**
    - Model update
    - Pumping and surface water diversions
    - Levels, storage, quality, subsidence
  - **Implementation Status**
    - Projects & Management Actions
      - e.g.. MSGSA demand reduction objective
    - Grant funding
    - Other support activities

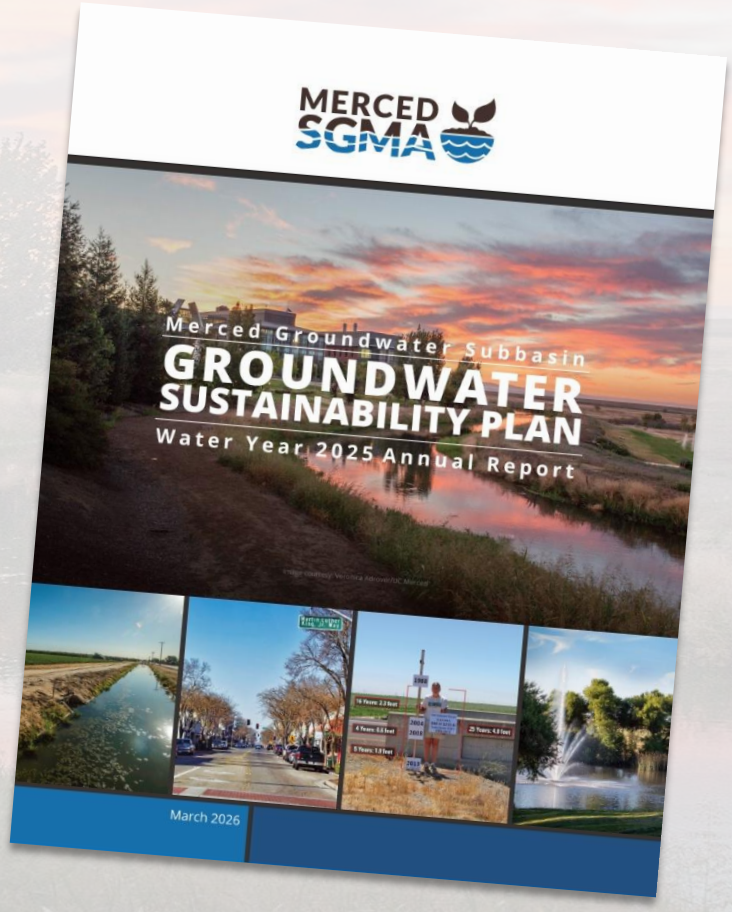
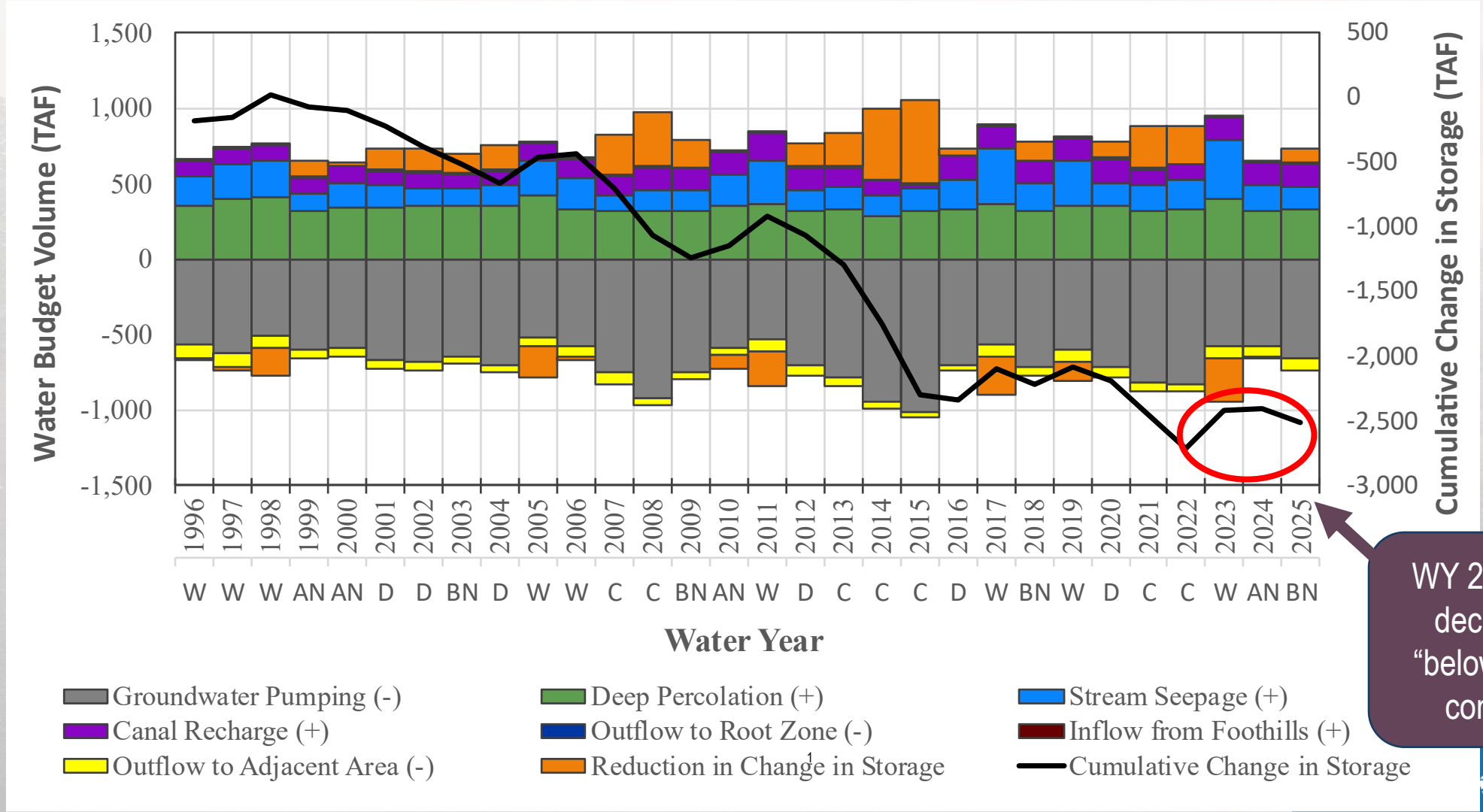


Image courtesy: Veronica Adrover/UC Merced

Change in Storage (-98,000 AF in WY 2025)

Water Entering Subbasin

Water Leaving Subbasin



WY 2025 slight decrease in "below normal" conditions

Sustainable Management Criteria Status

Sustainability Indicator	Minimum Threshold (MT)	Interim Milestone (IM)	Measurable Objective (MO)	Undesirable Result	WY 2025 Annual Report Status
Groundwater Levels	Fall 2015 groundwater elevation	Based on range of projected values that account for hydrologic uncertainty	November or October 2011 groundwater elevation (measured, or estimation if historical record not available)	Greater than 25% of representative wells below MT in 2 consecutive years	10/29 wells (34%) are below MT. 26 of 29 wells are below MO. 3/29 are below 2025 IM. 2 wells not measured.
Groundwater Storage	Groundwater levels used as a proxy for this sustainability indicator				

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Groundwater Storage	Groundwater levels used as a proxy for this sustainability indicator				
Seawater Intrusion	Not applicable - not present and not likely to occur due to the distance between the Subbasin and the Pacific Ocean (and Sacramento-San Joaquin Delta)				
Degraded Water Quality	1,000 mg/L TDS	1,000 mg/L TDS	500 mg/L TDS	At least 25% representative wells exceed MT for 2 consecutive years	No wells exceeded MT. 3 wells exceeded MO.

10 wells (out of 43 representative wells) sampled in WY 2025.

MERCED SGMA

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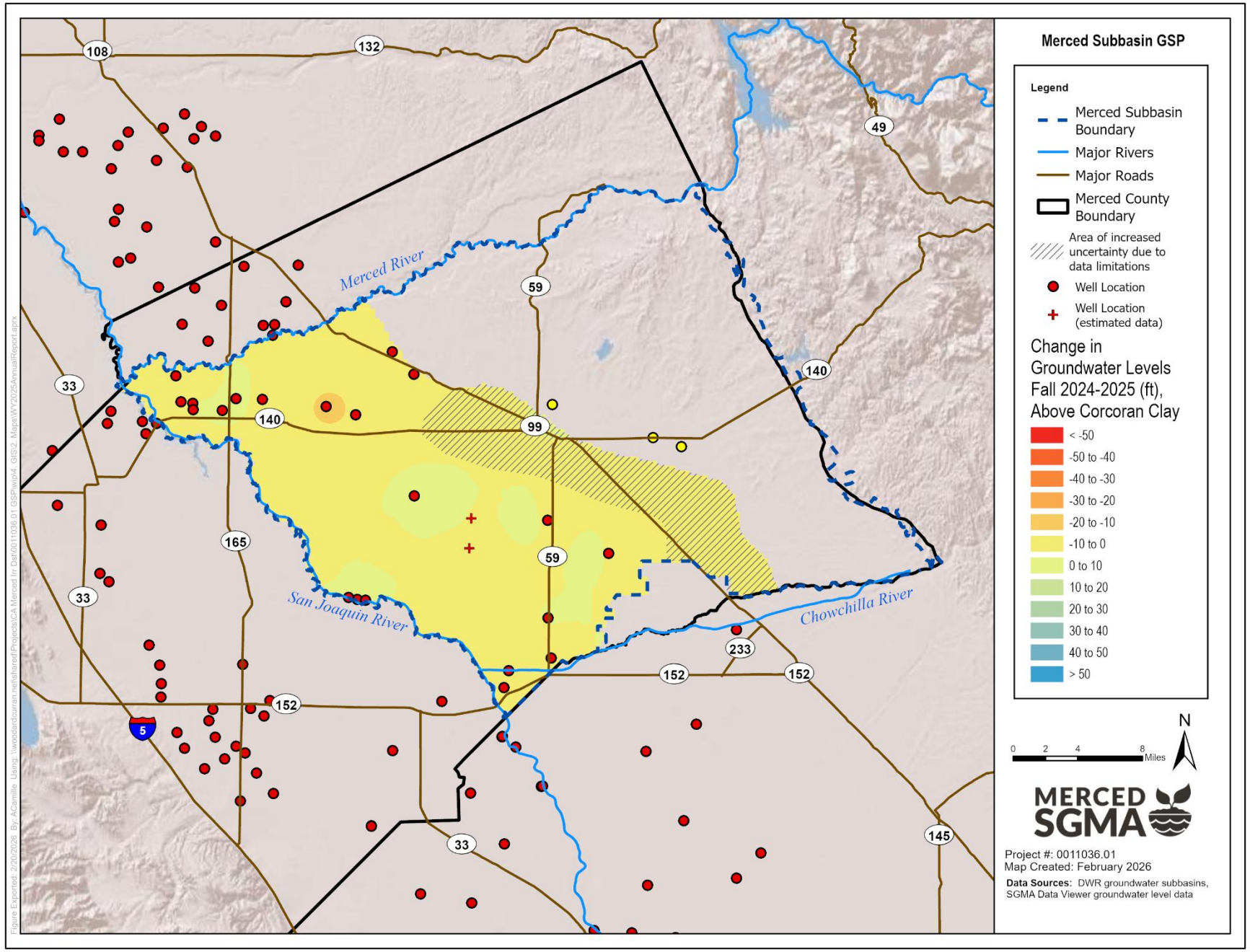
Degraded Water Quality	1,000 mg/L TDS	1,000 mg/L TDS	500 mg/L TDS	At least 25% representative wells exceed MT for 2 consecutive years	No wells exceeded MT. 3 wells exceeded MO.
Land Subsidence	0 ft/year, subject to uncertainty of +/-0.16 ft/year	2025: -0.75 ft/year 2030: -0.5 ft/year 2035: -0.25 ft/year	0 ft/year	Exceedance of MT at 3 or more representative sites for 2 consecutive years	3/4 sites exceed MT. All sites within 2025 IM.
Depletions of Interconnected Surface Waters	Groundwater levels used as a proxy for this sustainability indicator				

10 wells (out of 43 representative wells) sampled in WY 2025.

MERCED SGMA

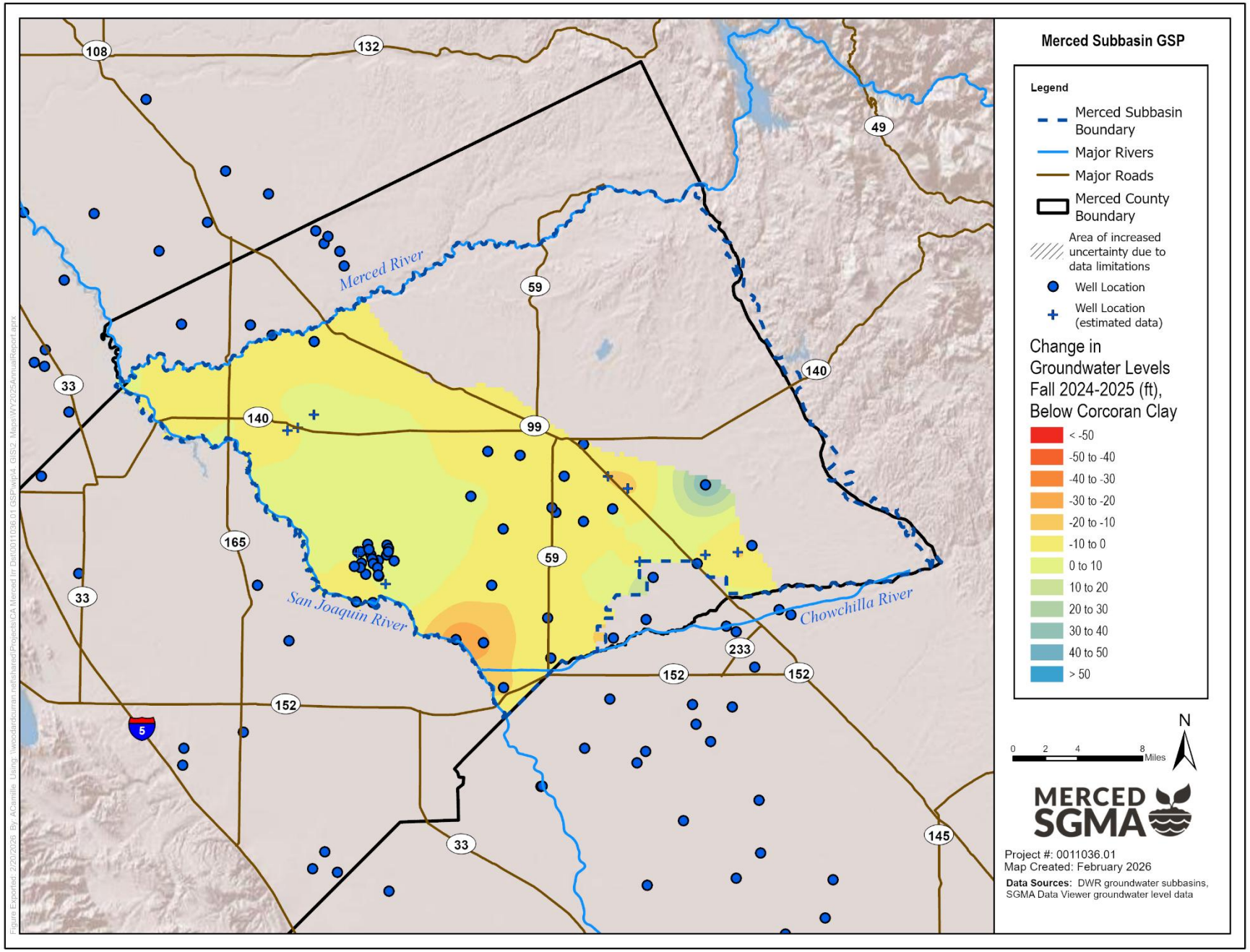
Change in Groundwater Levels

Above Corcoran Clay



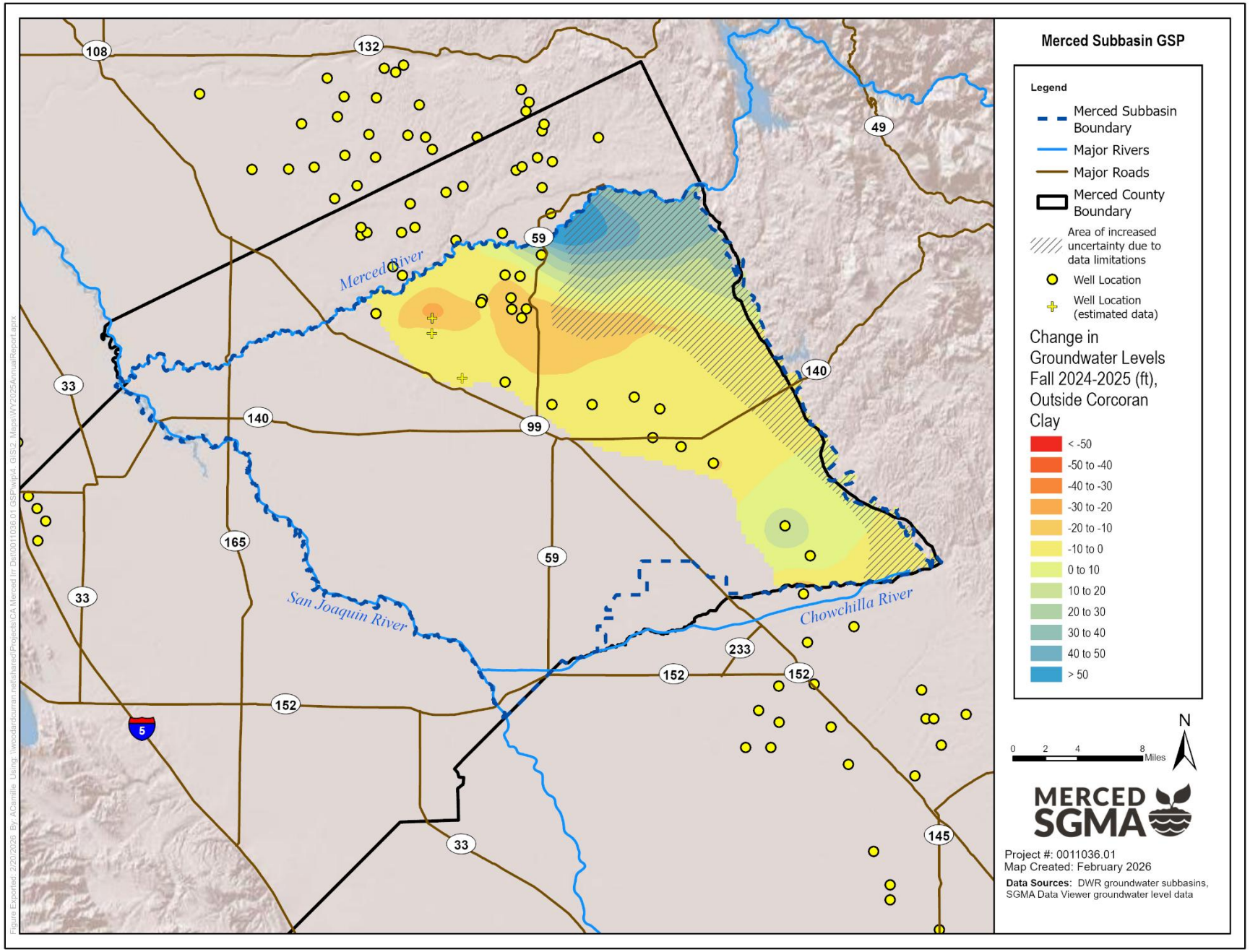
Change in Groundwater Levels

Below Corcoran Clay



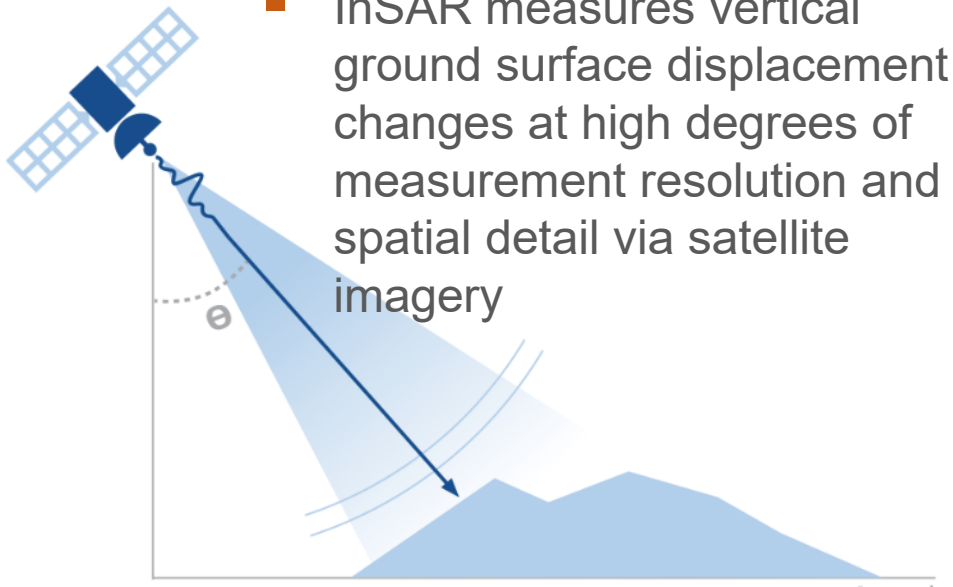
Change in Groundwater Levels

Outside Corcoran Clay

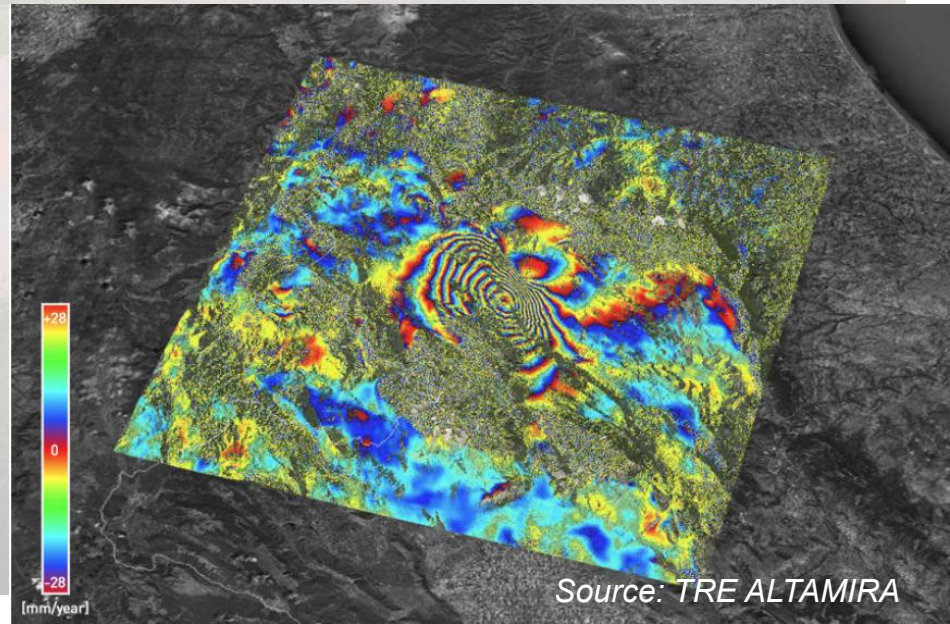


Subsidence Monitoring Update

- Subsidence has been measured through July/December monitoring at static GPS control points by USBR through San Joaquin River Restoration Program (SJRRP)
- Program discontinued July 2025, no longer needed for SJRRP purposes
- GSAs are currently exploring options available for ongoing subsidence monitoring
- Temporarily using Interferometric Synthetic Aperture Radar (InSAR) data collected by DWR



- InSAR measures vertical ground surface displacement changes at high degrees of measurement resolution and spatial detail via satellite imagery

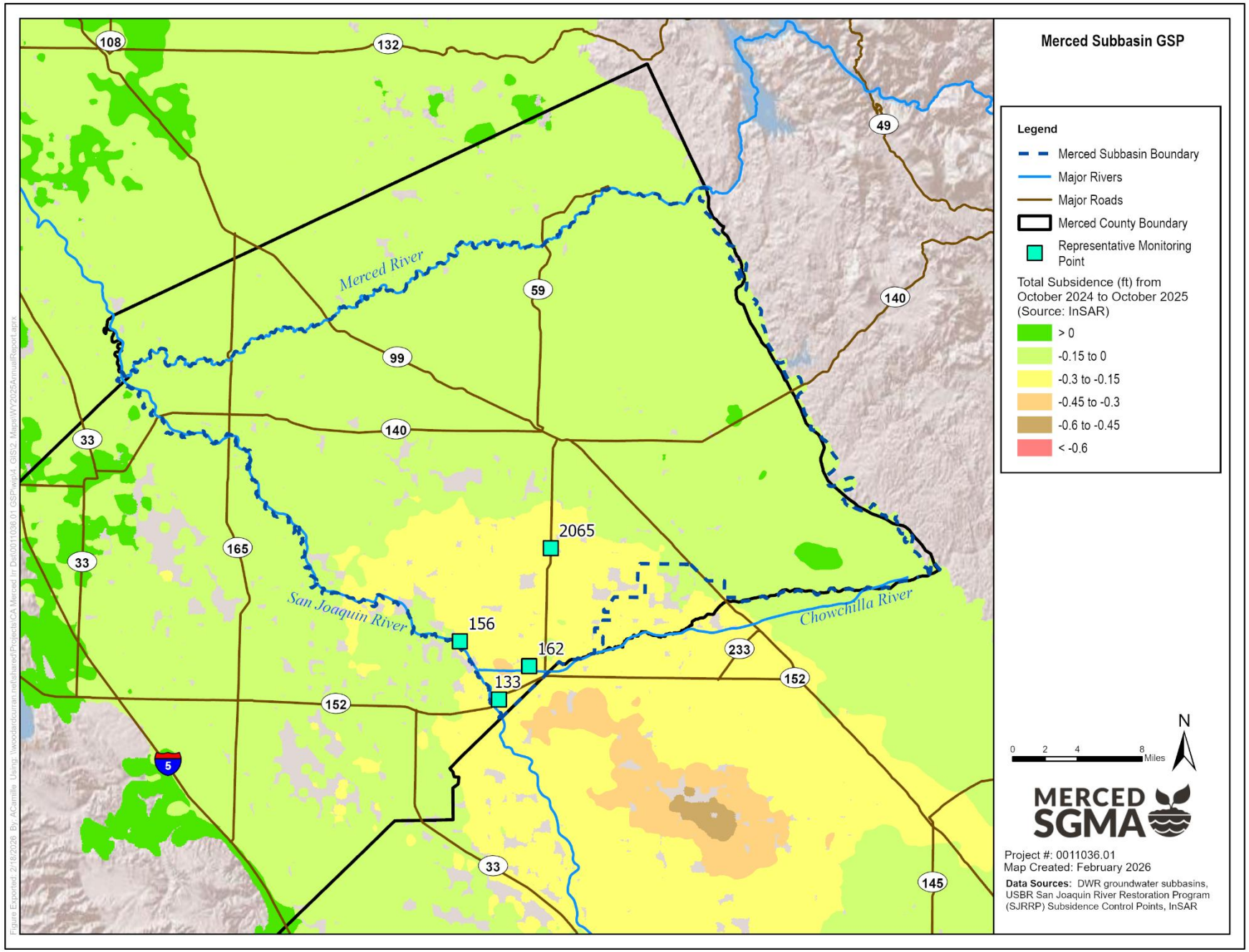


Source: TRE ALTAMIRA

Subsidence Oct 2024 – Oct 2025

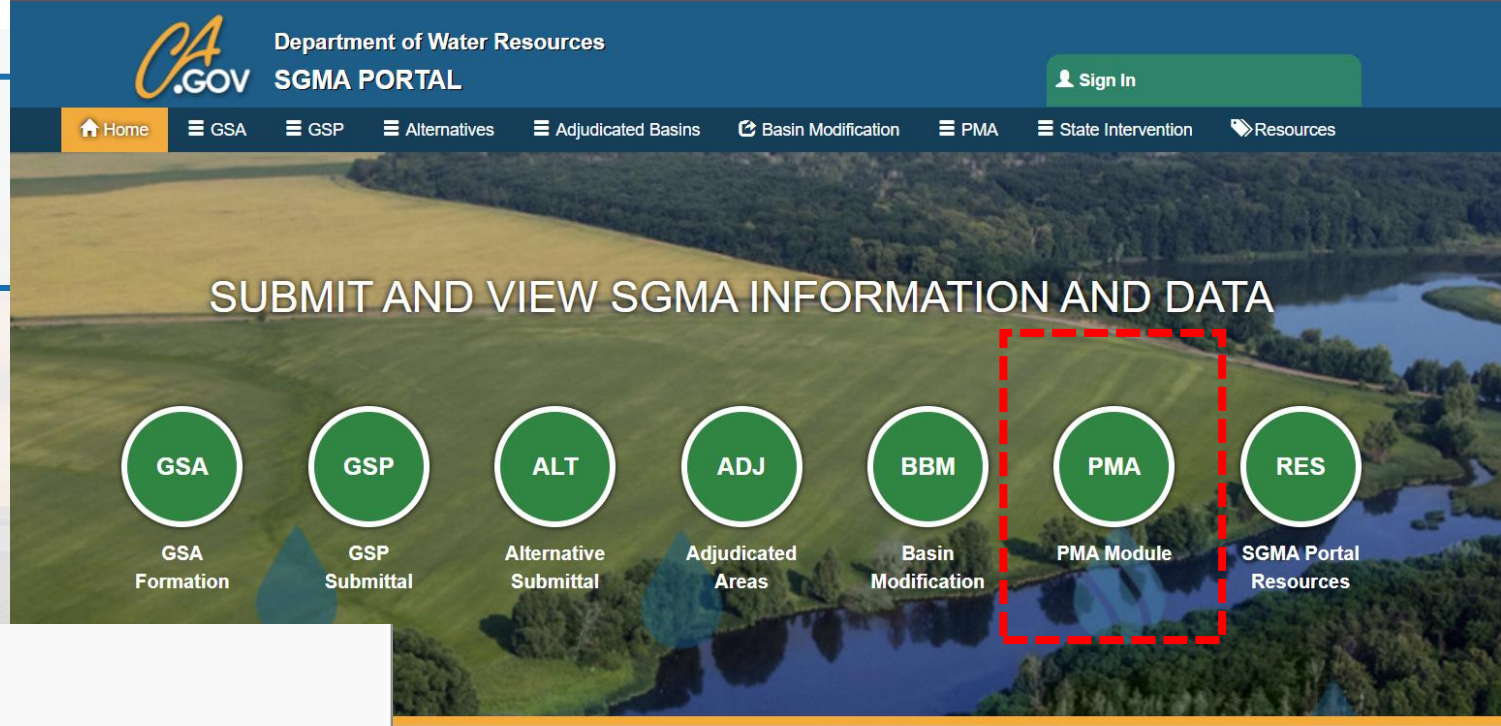
Min. Threshold / Measurable Objective:
0 ft/yr

2025 Interim Milestone:
-0.75 ft/yr



New DWR SGMA Portal PMA Module

- Projects & Management Actions (PMAs) must be updated annually by the GSAs in the SGMA Portal



Home / All PMAs

All Projects / Management Actions

Show 5 entries | Show Columns | PMA Export (Excel) | PMA Export (PDF) | PMA Updates Export (Excel)

PMA Name / Description	Lead GSA(s)	G
Streamlining Permitting for Replacing Sub- Corcoran Wells Local stakeholders are considering shifting groundwater production from deeper wells below the Corcoran Clay to the shallower, unconfined aquifer. Such relocation of groundwater pumping to the shallower aquifer would contribute to reducing the amount of subsidence in the area	Merced Subbasin GSA	5-(
Vander Woude Dairy Offstream Temporary Storage The project consist to take a 50-acre field out of production and build a reservoir on the site. The reservoir would be used temporary off-stream storage of irrigation, and recharge.	Merced Subbasin GSA	5-(
Study for Potential Water System Intertie Facilities from MID to LGAWD and CWD Under this project MID, LGAWD and Chowchilla Water District (CWD) would investigate the feasibility of improving and constructing water conveyance facilities to allow the temporary transfer of water from MID, to LGAWD and CWD	Merced Irrigation-Urban GSA,Merced Subbasin GSA,Turner Island Water District GSA - Merced	5-(
Mini-Big Conveyance Project LGAWD is currently working with Cal Poly's Irrigation Training & Research Center to assess the feasibility of constructing a conveyance facility from MIDs Booster 3 Lateral to Deadman, Little Deadman and Dutchman Creeks in the eastern portion of LGAWD	Merced Subbasin GSA	5-(
Merced Irrigation District to Lone Tree Mutual Water Company Conveyance Canal Lonte Tree Mutual Water Company is seeking to establish a new 2.25 mile long canal connection from an existing Merced Irrigation District canal to an existing canal within the LTMWC system. The capacity of the canal to be constructed would be 60 cubic feet per second and a potential delivery of 20-2 . . .	Merced Subbasin GSA	5-(

Showing 1 to 5 of 16 entries (filtered from 1,645 total entries)

Previous 1 2 3 4 Next

Filters

By Keywords

By Basin — Filter by basin

By GSP — 5-022.04 MERCED

By Lead GSA — Filter by GSA

By Other GSA — Filter by Other (

By Project or Management Action — Filter by P or M

By PMA Type — Filter by PMA T

e to both agencies and the public. **With no account login required**, the public has the ability to view and download information agencies (GSAs), groundwater sustainability plans (GSPs), alternatives to GSPs, adjudicated areas, and basin boundary also be submitted to the Department **without** a login.

sters are required to use the SGMA Portal to submit, modify, and view the information required by the Sustainable Groundwater GSPs. **These actions require a SGMA Portal account. Accounts may be registered here**.

please email them to GSPSubmittal@water.ca.gov. If you have non-SGMA Portal related questions or comments, please email

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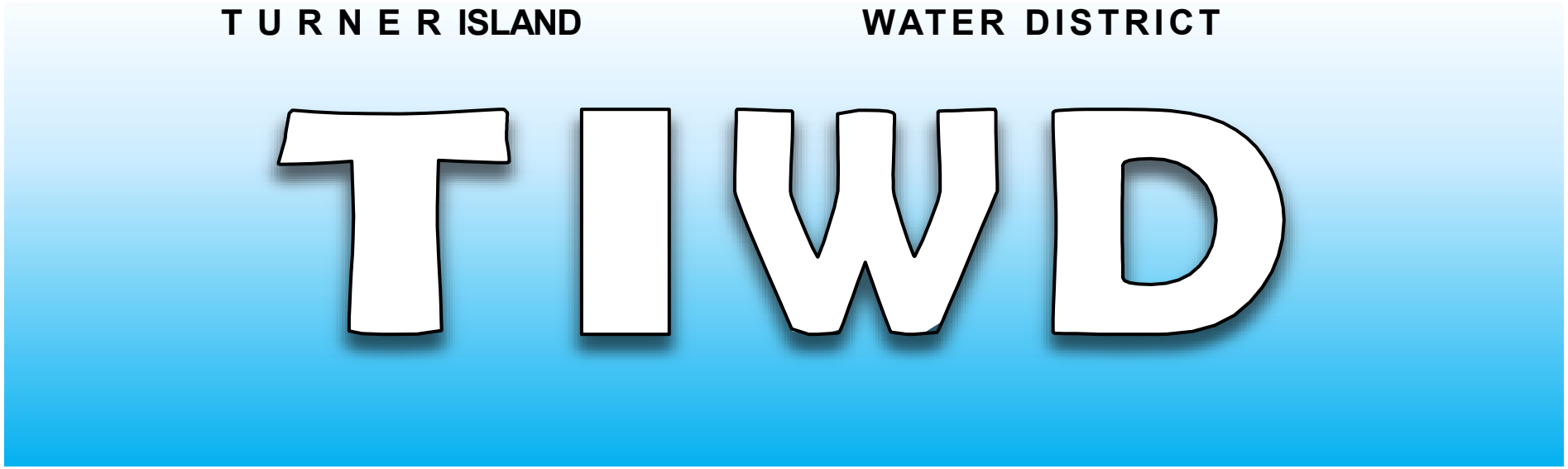
of California

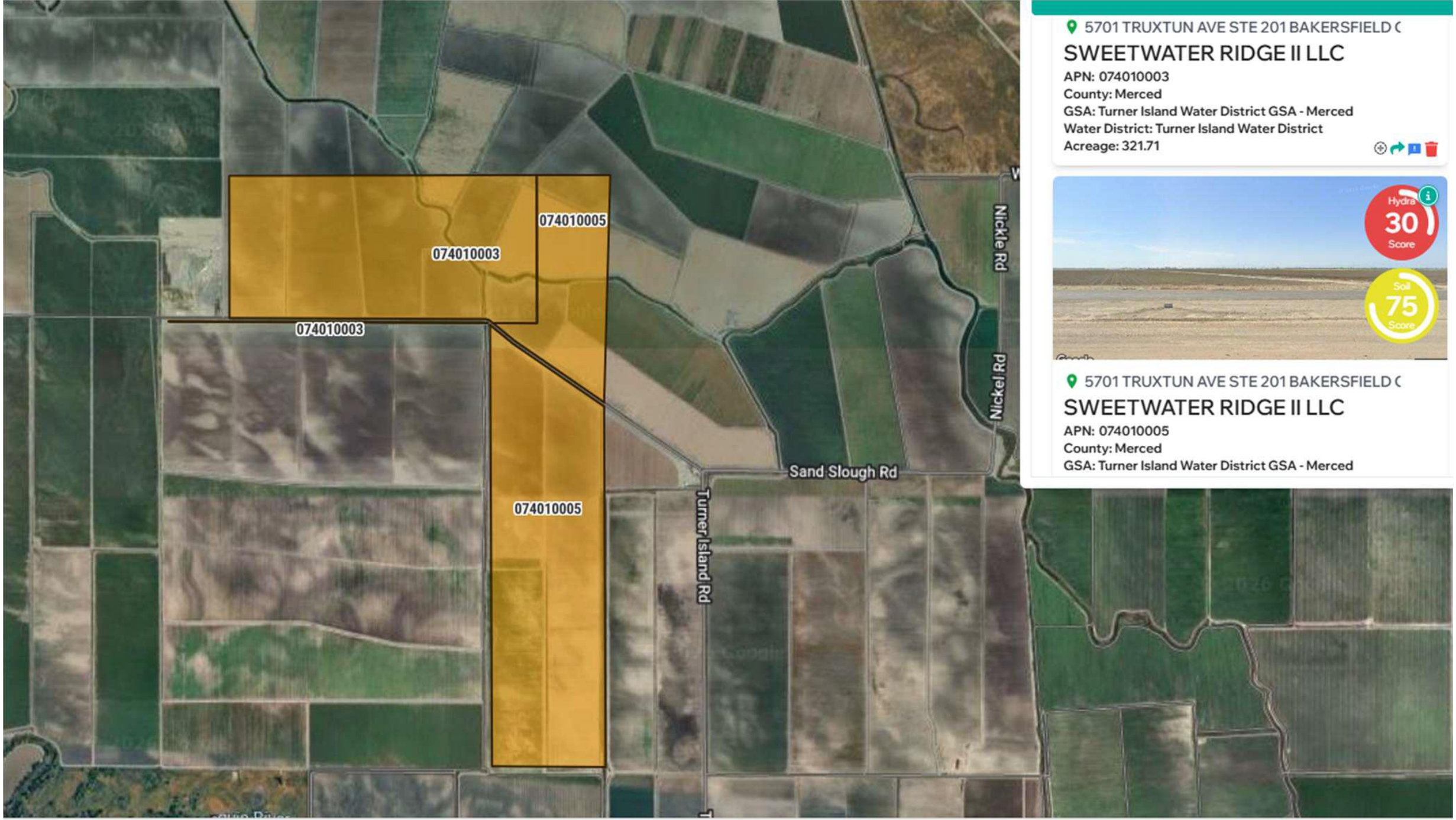
MERCED SGMA



Canal Modernization Project

$820,394

Start Date: March 5, 2026



5701 TRUXTUN AVE STE 201 BAKERSFIELD C

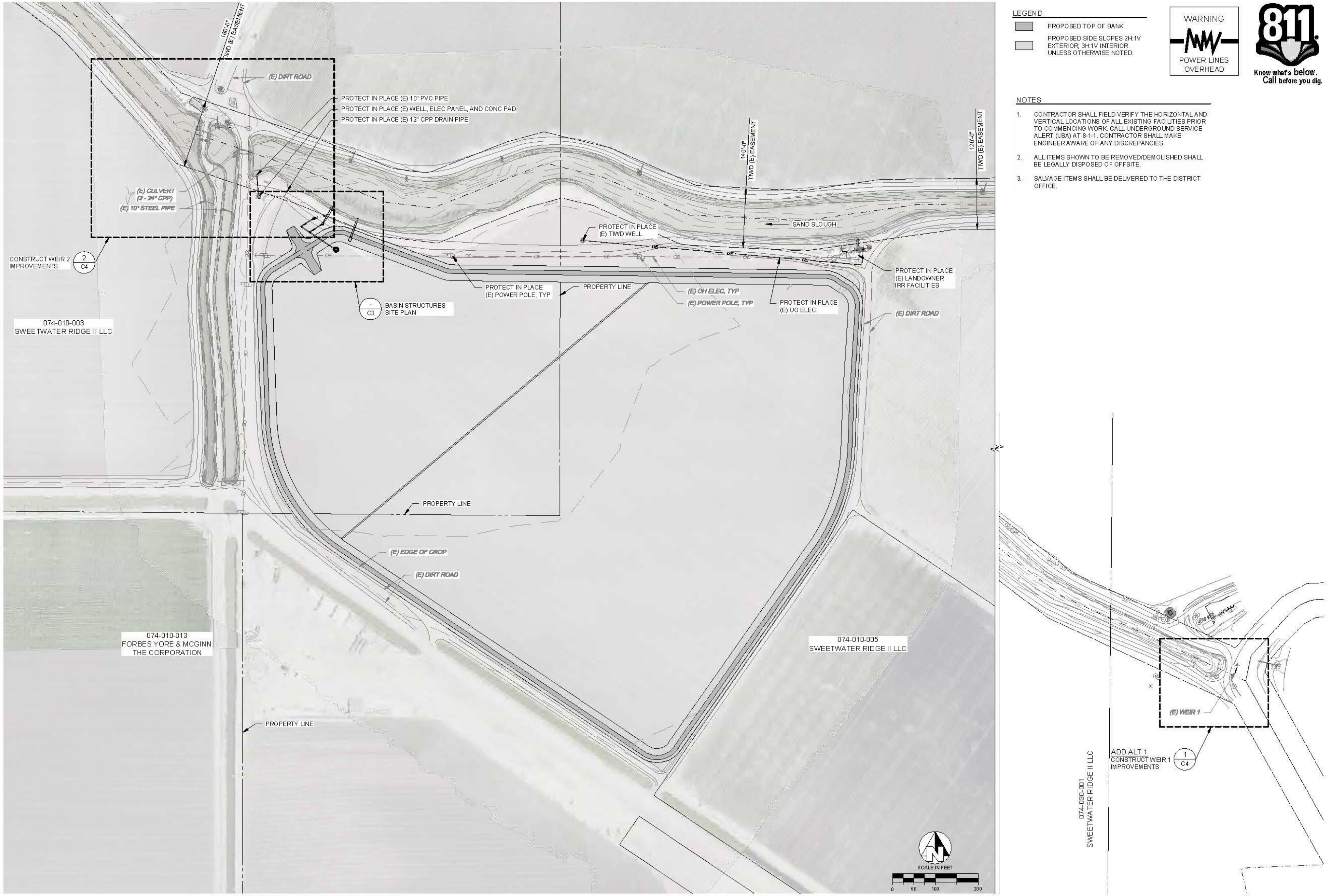
SWEETWATER RIDGE II LLC

APN: 074010003
County: Merced
GSA: Turner Island Water District GSA - Merced
Water District: Turner Island Water District
Acreage: 321.71

5701 TRUXTUN AVE STE 201 BAKERSFIELD C

SWEETWATER RIDGE II LLC

APN: 074010005
County: Merced
GSA: Turner Island Water District GSA - Merced



LEGEND

- PROPOSED TOP OF BANK
- PROPOSED SIDE SLOPES 2H:1V EXTERIOR; 3H:1V INTERIOR. UNLESS OTHERWISE NOTED.

WARNING
POWER LINES OVERHEAD

811
Know what's below. Call before you dig.

NOTES

1. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
2. ALL ITEMS SHOWN TO BE REMOVED/DEMOLISHED SHALL BE LEGALLY DISPOSED OF OFFSITE.
3. SALVAGE ITEMS SHALL BE DELIVERED TO THE DISTRICT OFFICE.

95% DESIGN
NOT FOR CONSTRUCTION
11-14-2025

No.	REVISION	BY	DATE

FOR REVIEW ONLY

WATER CONSERVATION PROJECT
TURNER ISLAND WATER DISTRICT
MERCED COUNTY
CIVIL
OVERALL SITE PLAN

PROVOST & PRITCHARD
455 W FIR AVENUE
CLOVIS, CA 93611-9166
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

DESIGN ENGINEER: JOSEPH D. HOPKINS
LICENSE NO: CE 74955

DRAFTED BY:	CHECKED BY:
LMS, IRC, PD	JDH

DATE: 11-14-2025
JOB NO: 417723002
PROJECT NO:
PHASE:

ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET C2
5 OF 18

Filling Data Gaps

- Funding provided through 2021 SGM Implementation Grant Round 1
- All 4 wells constructed in Fall/Winter 2025.
- All completed monitoring well sites will provide continuous monitoring of groundwater elevation at multiple discrete depths, including above and below the Corcoran Clay formation.
- Telemetry installation and final reports are ongoing.

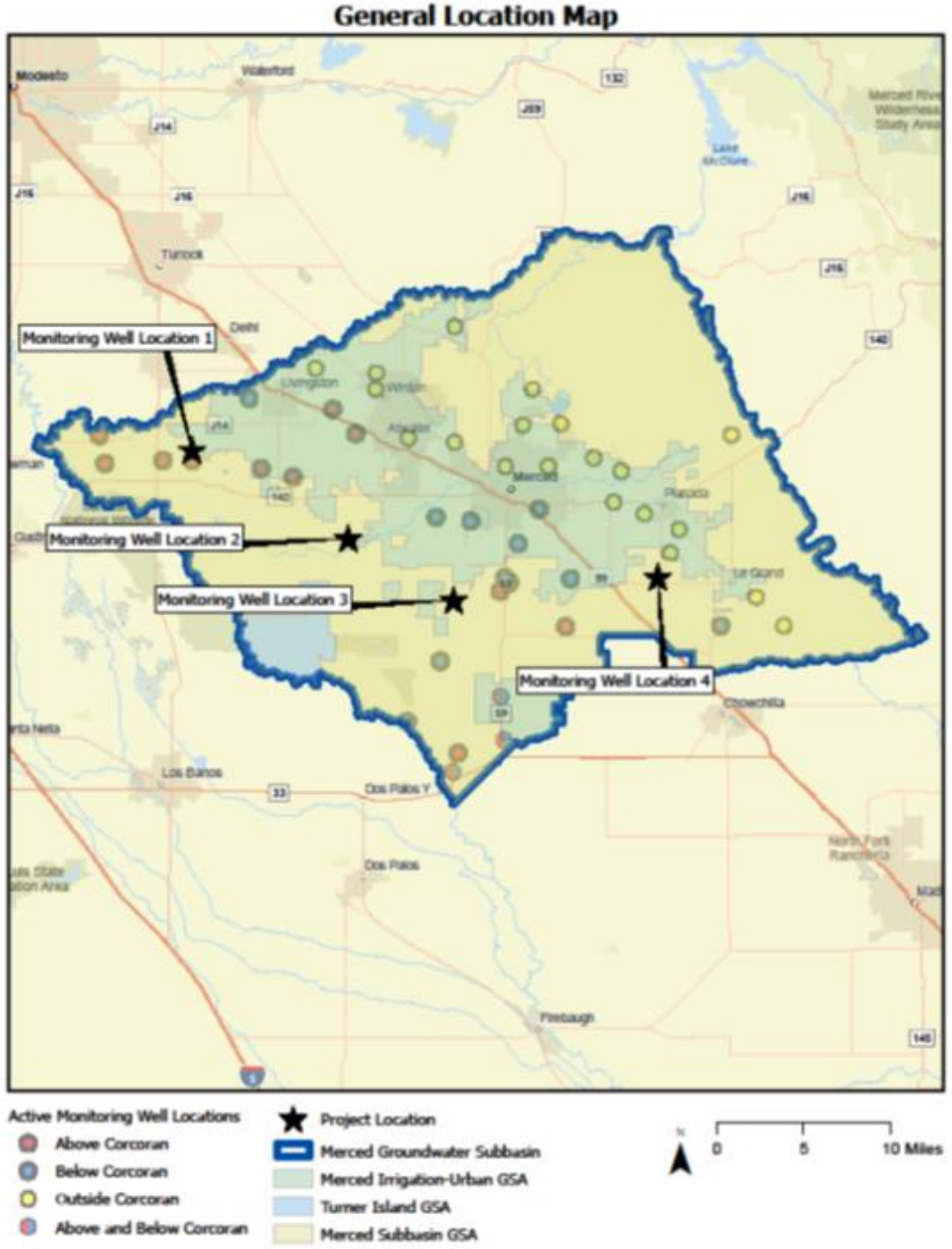
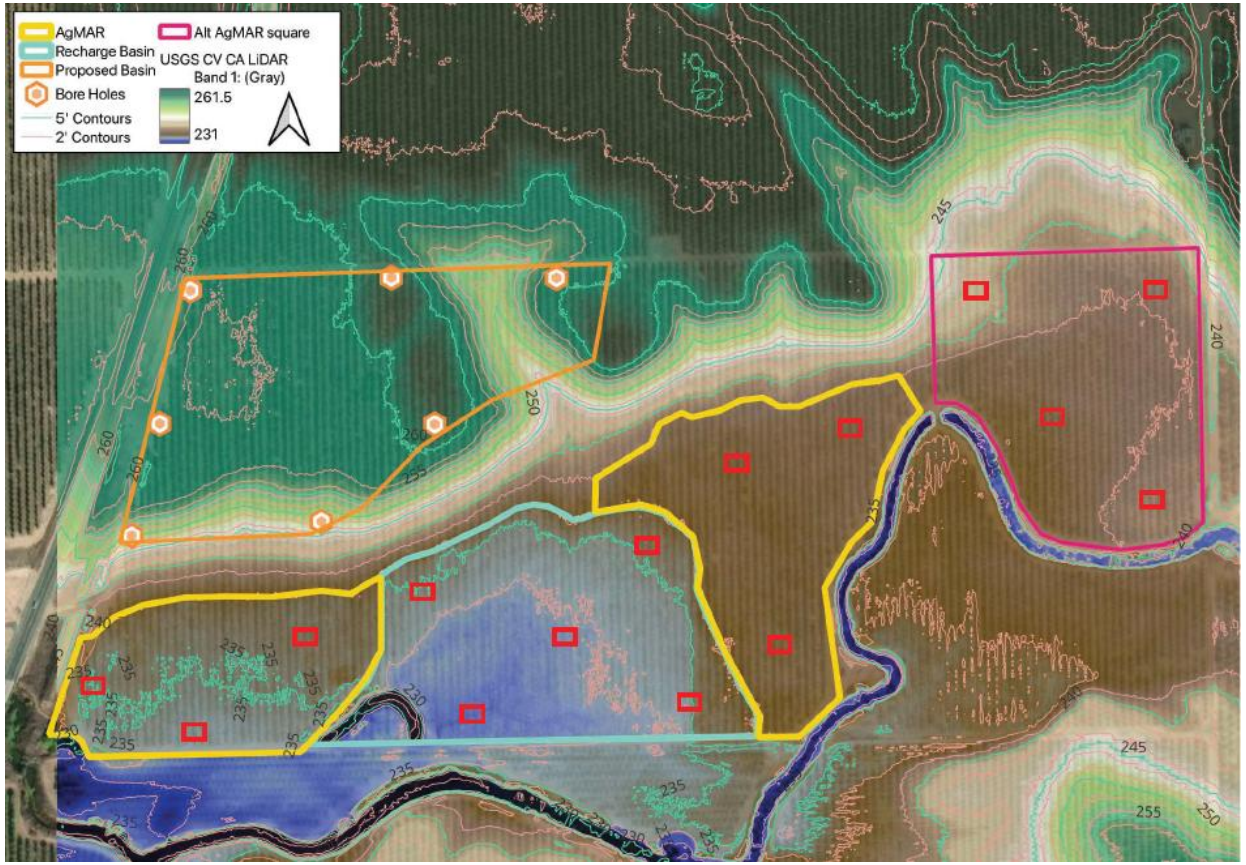
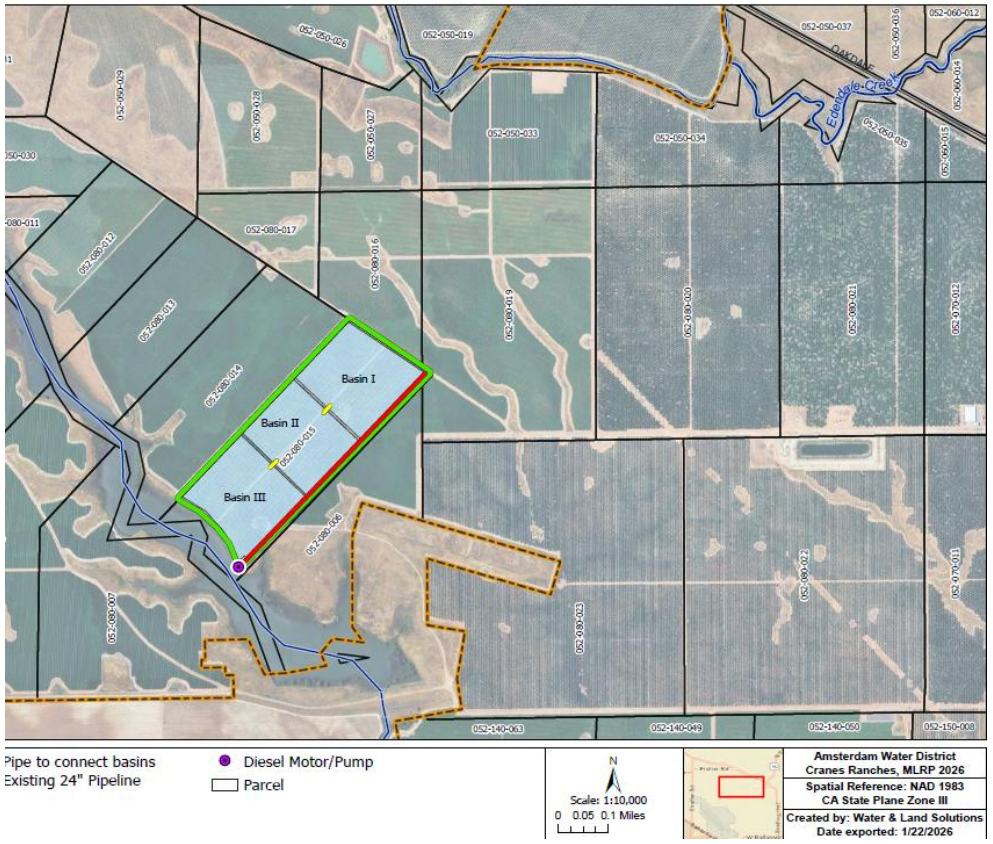


Image courtesy: Veronica Adrover

Amsterdam Water District –Multi-benefit land repurposing

Prop 68 grant $100,000
MLRP Planning grant $125,000
MLRP Implementation grant $559,000





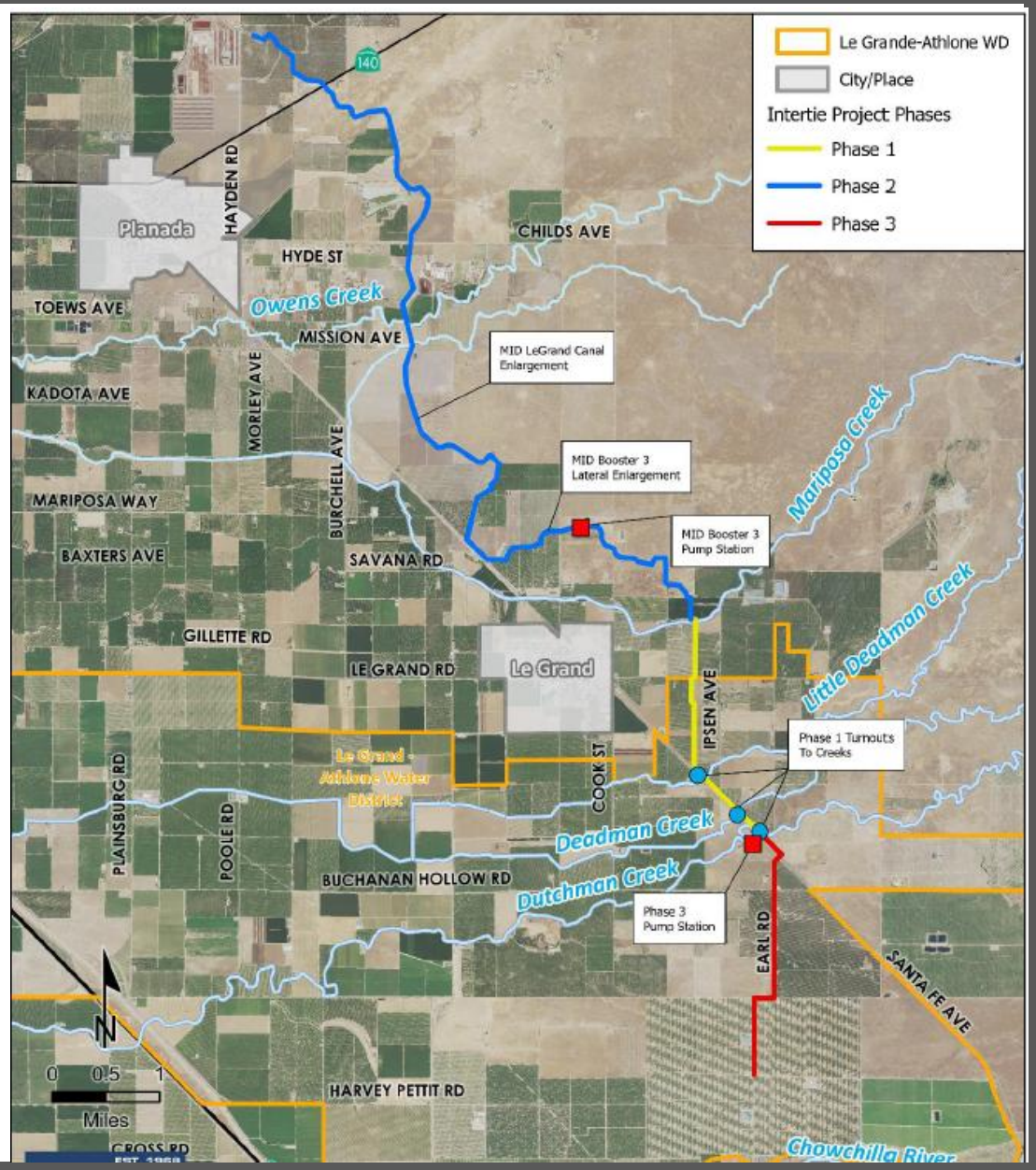
Le Grand-Athlone Water District Intertie Canal

The Intertie Canal is a 125 CFS canal and pipeline that will eventually connect Merced ID to the Chowchilla River. It is planned to be bi-directional.

Phase 1-Prop 68 Rd.1 funding awarded:	**$4,170,800**
Phase 2-Prop 68 Rd.2 funding awarded:	**$1,000,000**
Icarp:	**$1,000,000**
WIFIA loan-	**$29M**
CWD Phase 4	**$1M**

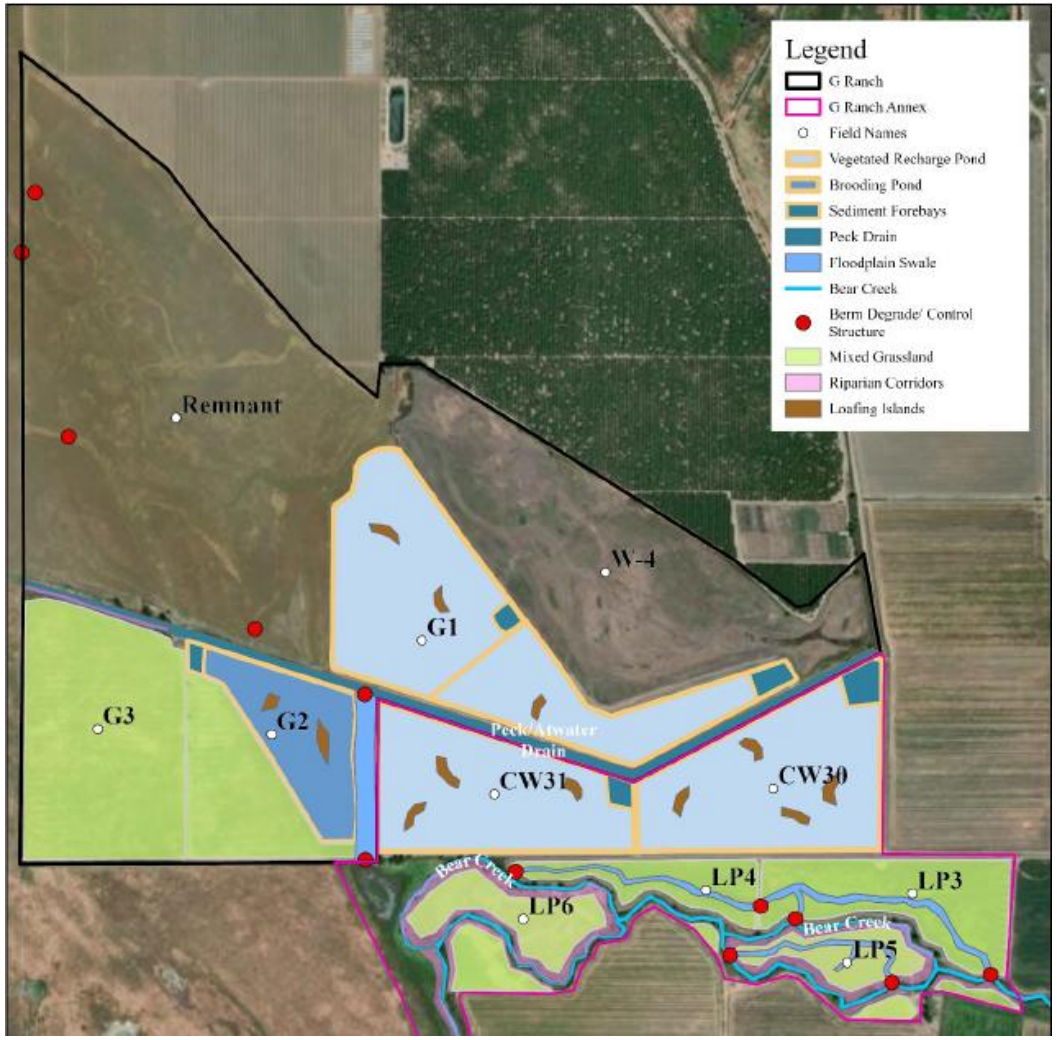
Phase I Complete

Delivered water to over 500-acres that have never received surface water



La Paloma Mutual Water Company

G Ranch Groundwater Recharge, Habitat Enhancement & Floodplain Expansion Project

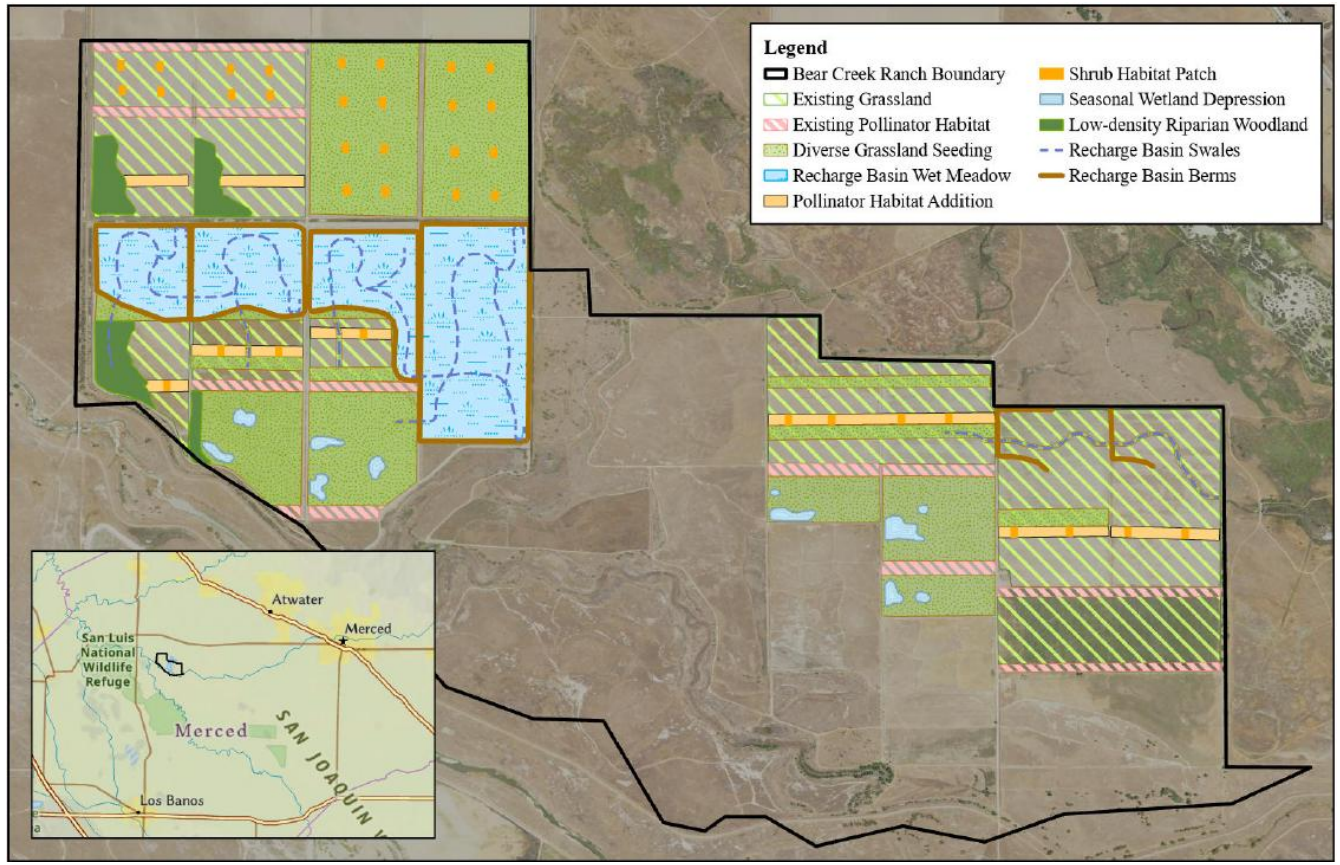


Prop 68 Rd.2 funding awarded:	**$1,000,000**
Prop 68 Rd.3 funding awarded:	**$2,610,000**
River Partners:	**$400,000**
Pollinator Alliance	**$75,000**
	$4,010,000

- This effort is a multi-purpose land repurposing project that provides habitat restoration, reduces flood risk, and promotes groundwater recharge.
- The project will fallow 169-acres of productive farm ground and cover a total of 439 acres.
- Project partners include:
  - Joseph Gallo Farms
  - River Partners
  - Ducks Unlimited
  - USFWS
  - Geosyntec Hydrogeologist Consultants
  - HT Harvey Ecological Consultants
- **Phase I (Fields G1, G2, G3, and CW31) is complete**
- **Phase 2 (Field CW30, LP3-LP6) seeking $2.5M for implementation**

La Paloma Mutual Water Company

Bear Creek Groundwater Recharge, Habitat Enhancement & Floodplain Expansion Project



$1.2M - DOC MLRP transitional seeding
$1M - WCB design, env. & native seed collection
$750K - DWR design, env., monitoring, and outreach
$200K-Pollinator Alliance seed and planting
$1.2M - MLRP see and planting
$170K in-kind landowner donation
$4,520,000

- The project is located on approximately 2,111-acres.
- The Project will re-establish approximately 1,171-acres of irrigated farm ground to floodplains, providing habitat for migrating waterfowl.
- Net benefit of approximately 8,000 acre-feet per year.
- Project partners include:
  - Joseph Gallo Farms
  - River Partners
  - Ducks Unlimited
  - USFWS
  - Geosyntec Hydrogeologist Consultants
  - HT Harvey Ecological Consultants
  - Stanford University
- Seeking $7.5M in implementation funding.

Sandy Mush Mutual Water Company

Vander Dussen Subsidence Priority Area Flood-MAR Project

Prop 68, Rd.2 funding awarded: $798,735

This Flood-MAR project built a 1.25-mile pipeline to divert approximately 3,600 AFY of flood water from Merced Irrigation District's El Nido system to be applied directly to agricultural fields.

Sandy Mush Mutual Water Company

Vander Woude Storage Reservoir

- This project is a 30-acre storage reservoir with a capacity of 250 acre-feet (AF).

- In 2024/25, an average year he was able to fill the reservoir 3 times, thus saving ~700+ AF of GW pumping.

Prop 68, Rd.2 funding awarded: **$300,000**
Prop 1, Rd.2 funding awarded: **$315,296**

Total Project Cost: **$1,000,000**

Project Completed

Merced Managed Aquifer Recharge (MercedMAR) Tool Presentation

Image courtesy: Veronica Adrover/UC Merced

MERCED SGMA

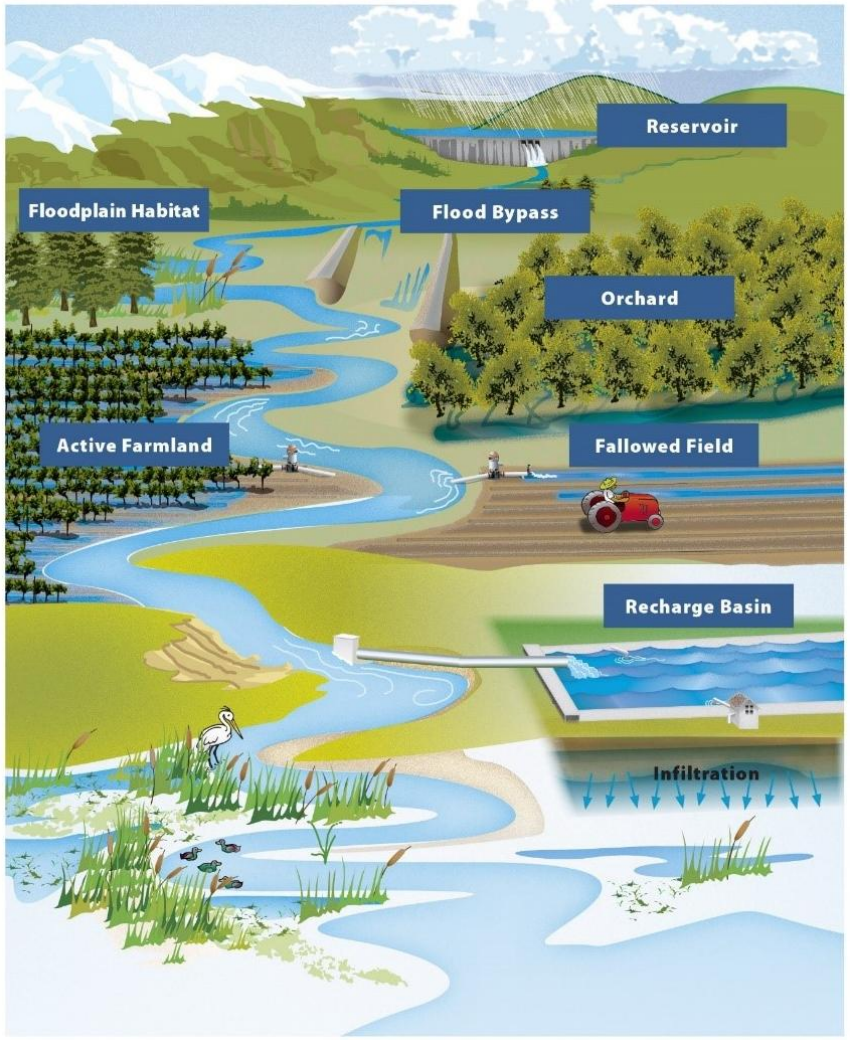
MercedMAR

The **Merced** **M**anaged **A**quifer **R**echarge (**MercedMAR**) program, was administered and funded though DWR's SGMA Implementation Grants, provided from the Budget Act of 2021.

MercedMAR is a regional hydrologic tool designed to optimize the implementation of local recharge programs.

Image courtesy: Veronica Adrover/UC Merced

What is FloodMAR?

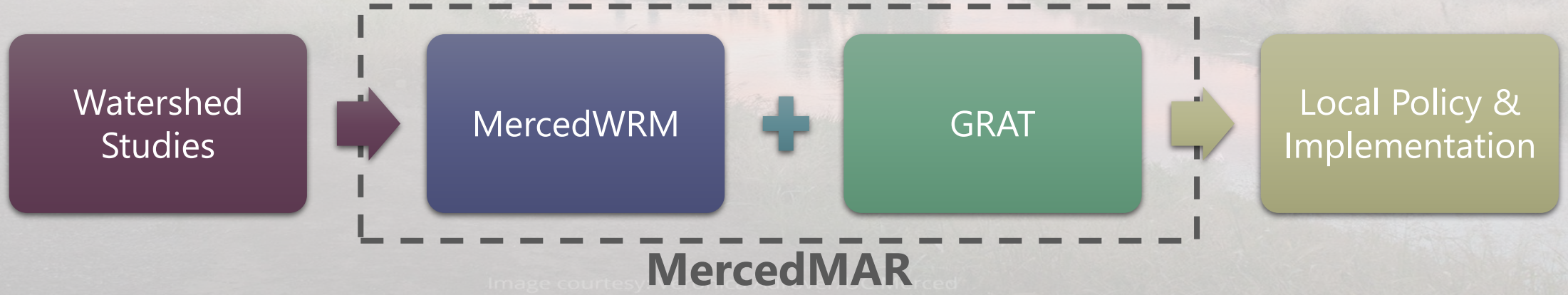


Source: DWR

Source: Agri-Pulse

Overview: MercedMAR

- The project leverages data developed by the DWR Watershed Studies
- The **G**roundwater **R**echarge **A**ssessment **T**ool (**GRAT**) optimizes recharge locations based on local objectives, operational, crop and soil suitability.
- The **Merced W**ater **R**esource **M**odel (**MercedWRM**) simulates the hydrologic conditions and long-term impacts of aquifer recharge.



Overview: Watershed Studies

Integrated Modeling Toolset

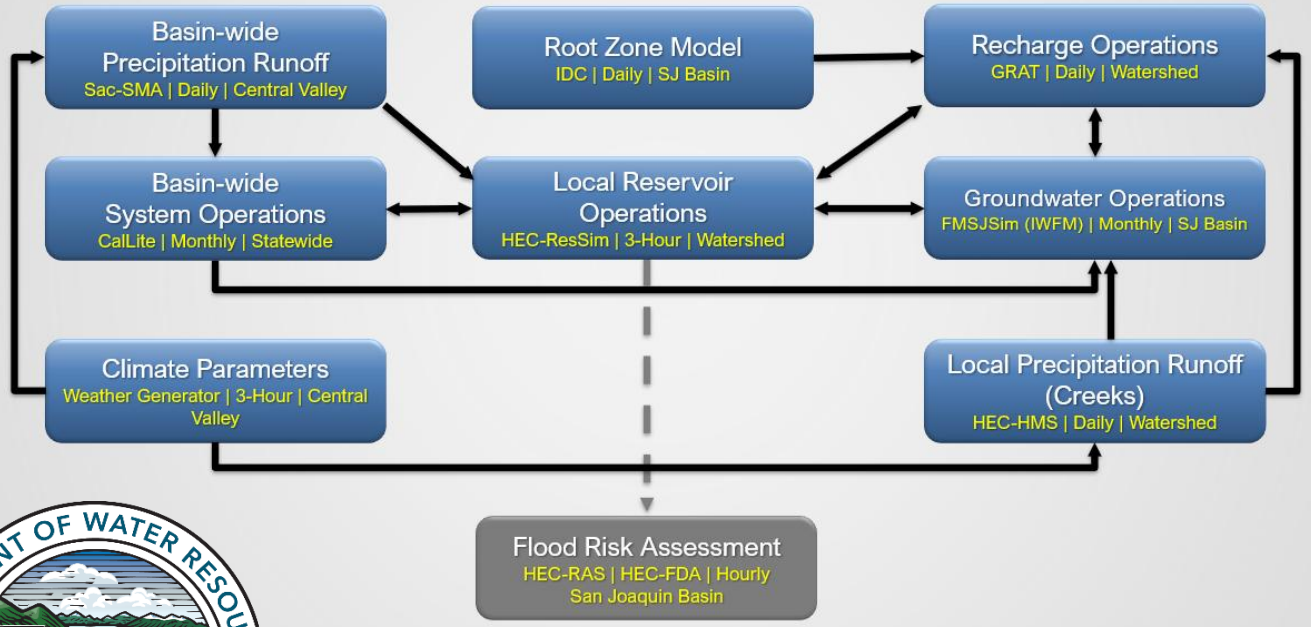


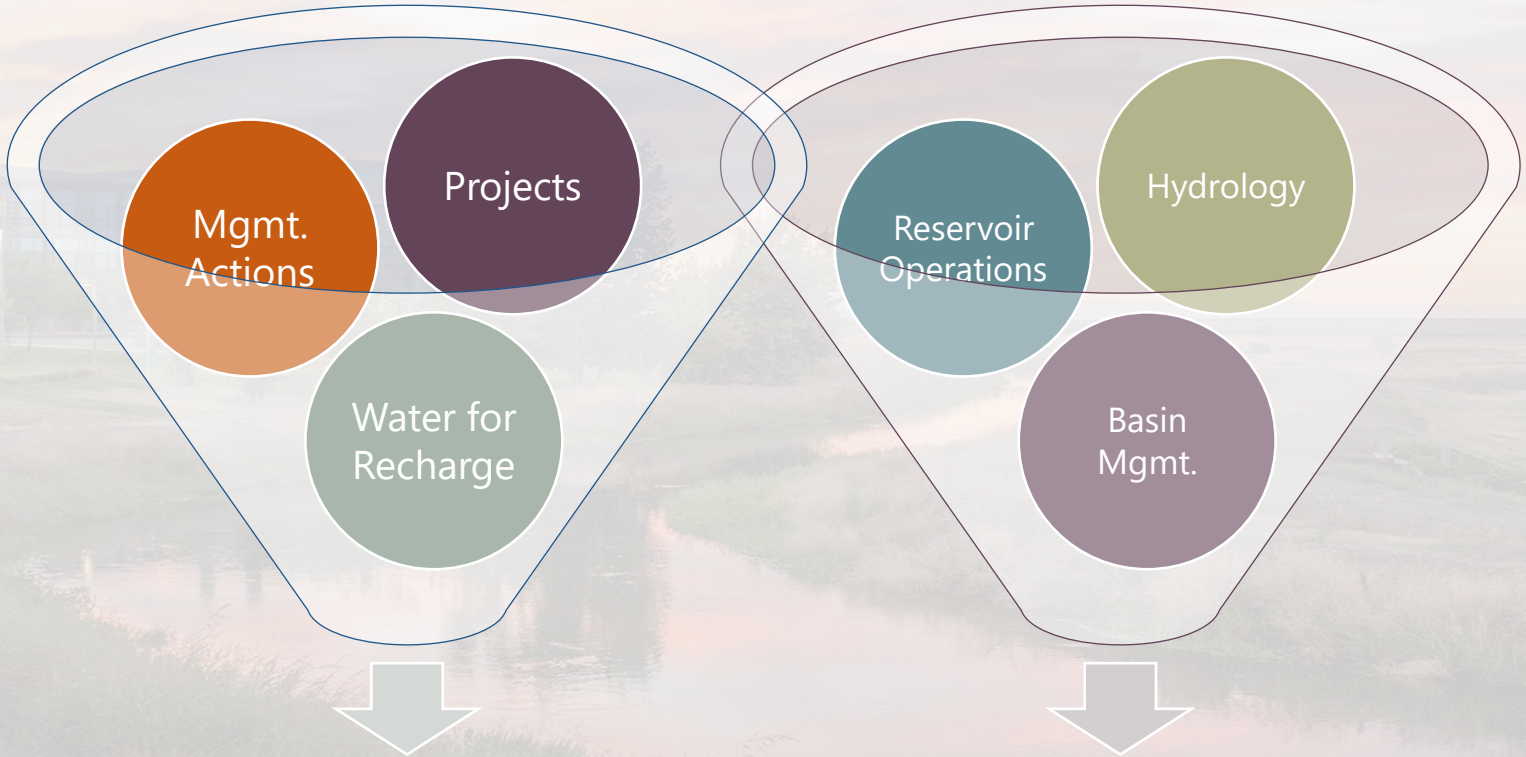
Image courtesy: Veronica Adrover/UC Merced

MercedMAR Integration

Program Goals:

Expand Access
Simplify Analysis
Accelerate Workflow
Increase Transparency

Assess PMAs
Evaluate Conditions
Consider Alternatives



Merced Managed Aquifer Recharge (MercedMAR)

=

Groundwater Recharge & Assessment Tool (GRAT)

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Merced Water Resources Model (MercedWRM)

Modeling Diagram

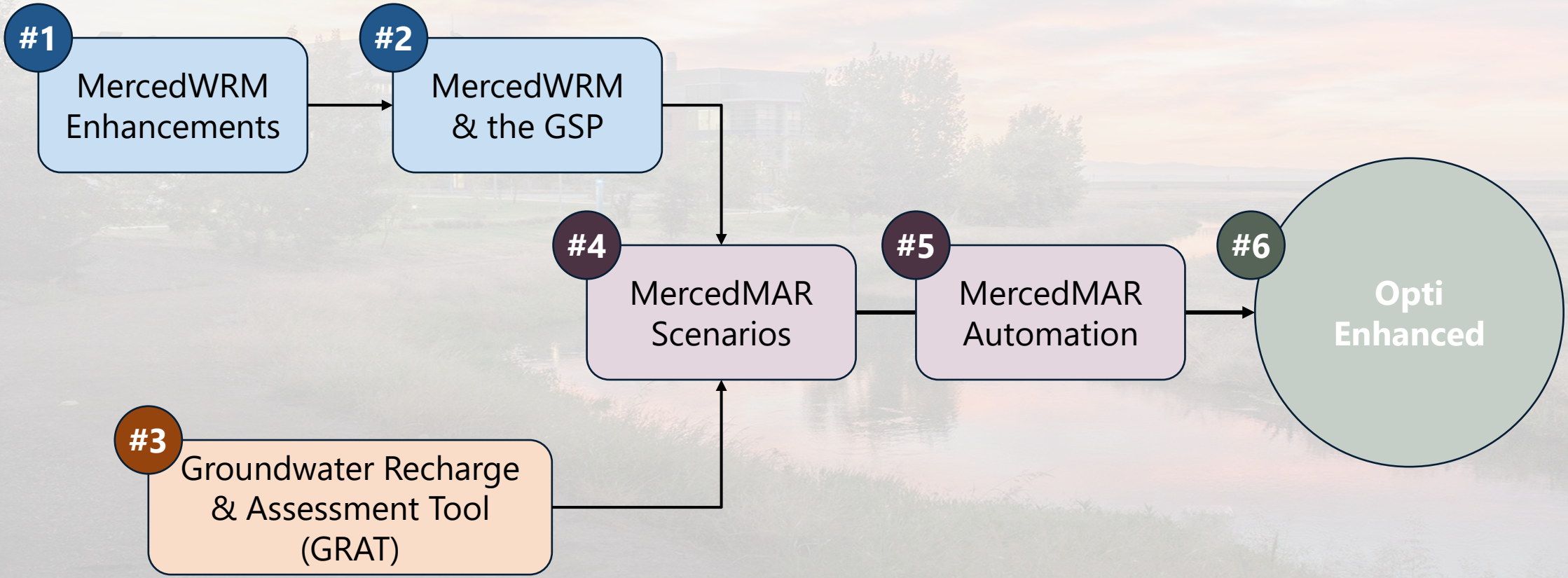


Image courtesy: Veronica Adrover/UC Merced

Land Surface System Overview

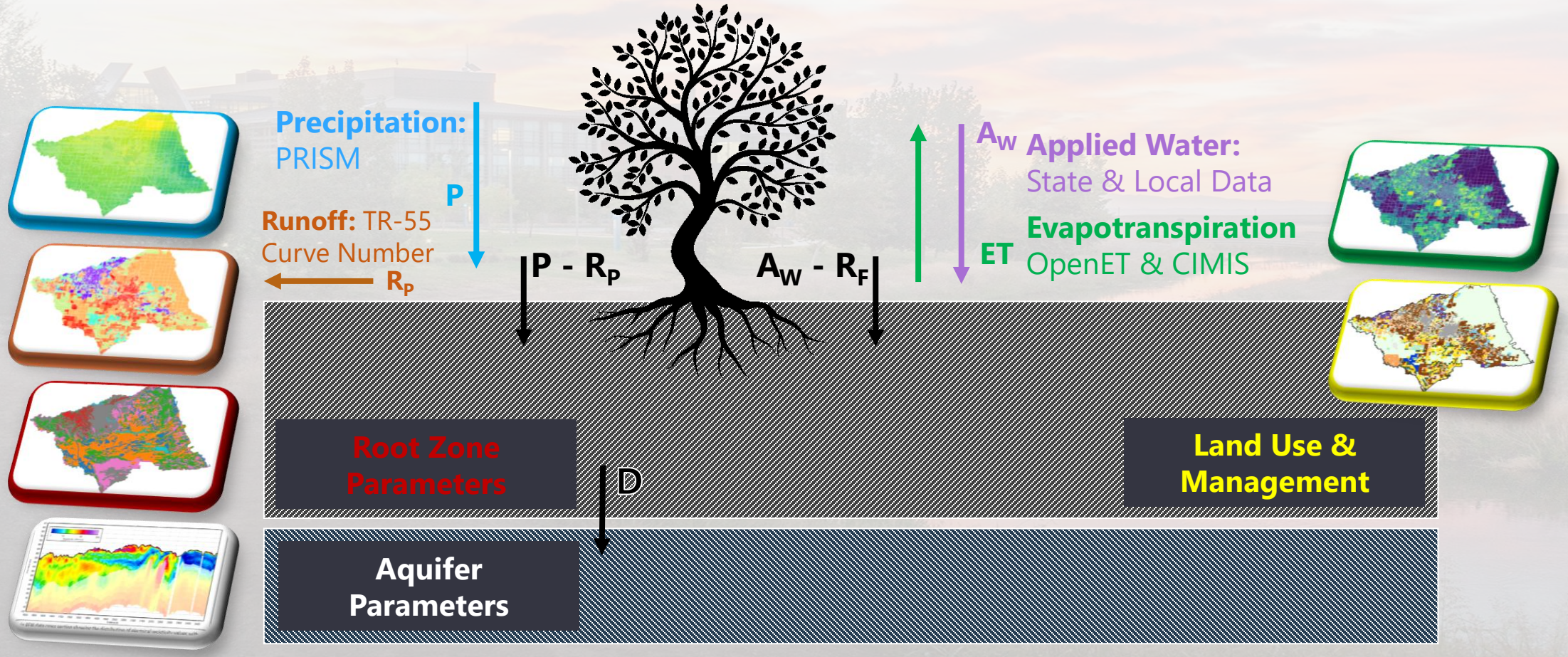


Image courtesy: Veronica Adrover/UC Merced

What is GRAT?

The **Groundwater Recharge Assessment Tool (GRAT)** is a decision support tool to help water managers optimize recharge operations.

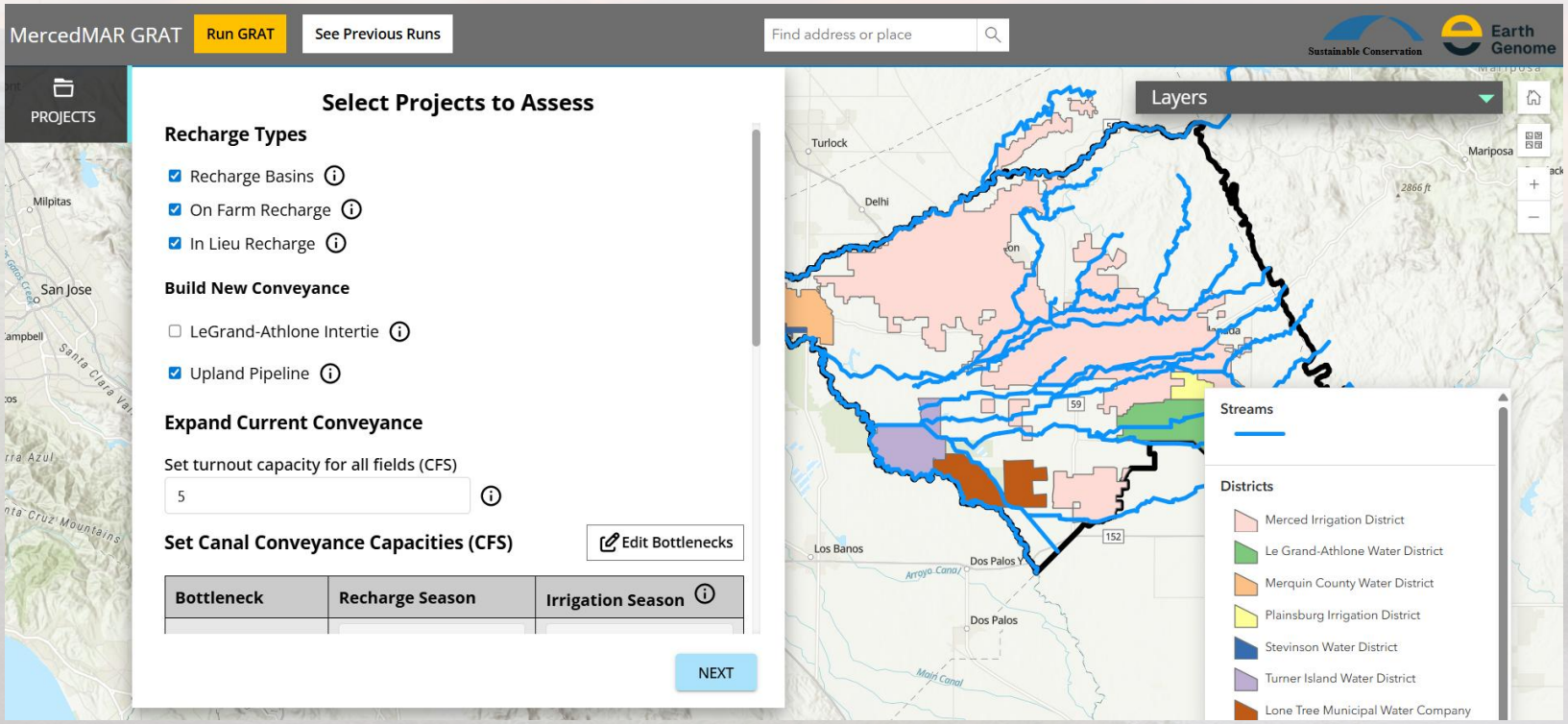


Image courtesy: Veronica Adrover/UC Merced

MERCED SGMA

What can GRAT tell us?

Where
Where can recharge be done?

When
When can crops tolerate recharge?

How much
How much surface water can be diverted and conveyed?

Image courtesy: Veronica Adrover/UC Merced

GRAT: Results

GRAT lets the user specify

- Water availability
- Projects implemented
- Co-benefits considered
- Water transfers

Then shows how they affect recharge potential

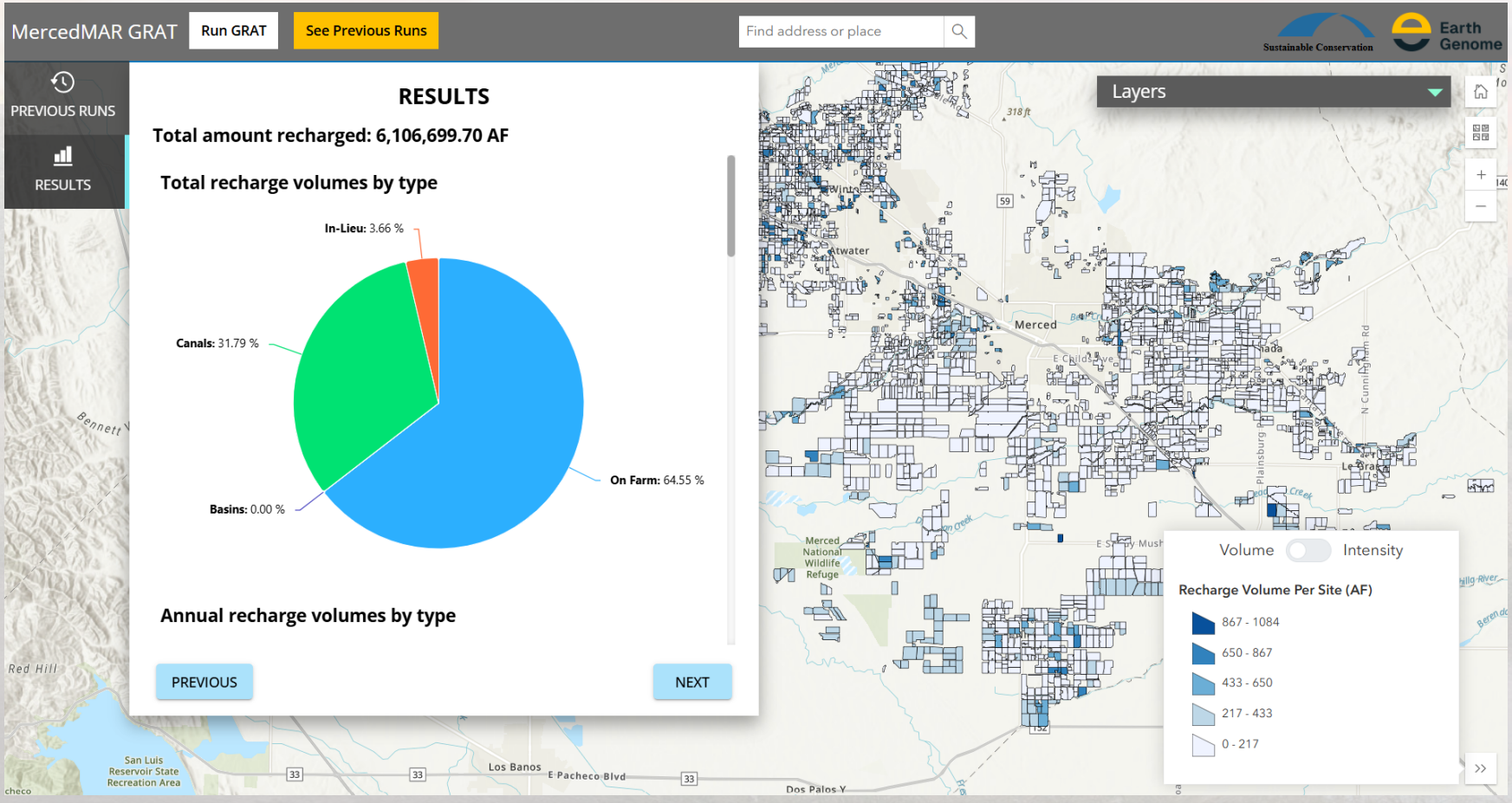
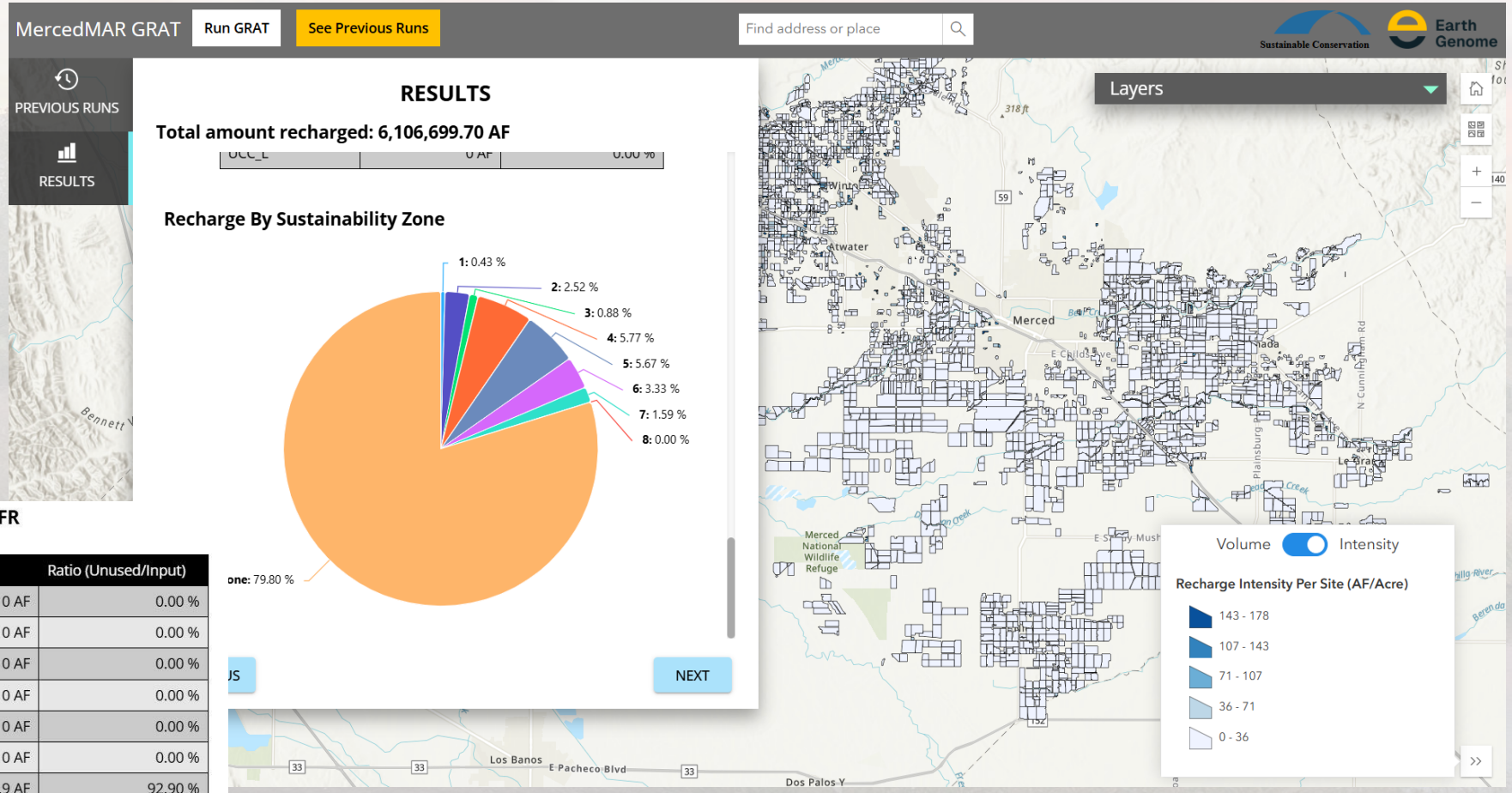


Image courtesy: Veronica Adrover/UC Merced

GRAT: Results



Unplaced WAFR table: Unused WAFR

WAFR Scenarios	Unused WAFR	Ratio (Unused/Input)
Miles	0 AF	0.00 %
Deadman	0 AF	0.00 %
Owens	0 AF	0.00 %
Mariposa	0 AF	0.00 %
MercedRiver	0 AF	0.00 %
UCC	0 AF	0.00 %
Bypass	1,080,825.9 AF	92.90 %
Bear	0 AF	0.00 %
Fahrens	0 AF	0.00 %
Dutchman	0 AF	0.00 %

Image courtesy: Veronica Adrover/UC Merced

MercedMAR - Opti Enhanced

Single Click

- Export GRAT
- Automated Results

Take a Look

- Scenario Review
- Scenario Comparison

Dive Deeper

- Review Input
- Understand Your Model

Image courtesy: Veronica Adrover/UC Merced

MercedMAR Visualization Tool

Display Options

Framework

- **Scenarios**
  - Baseline T2P088
  - Baseline T2P100
  - Baseline T2P113
  - Custom Scenarios
- **Spatial Analysis**
  - Merced Subbasins
  - GSAs
- **Temporal Scale**
  - Annual
  - Monthly
  - Scenario Average

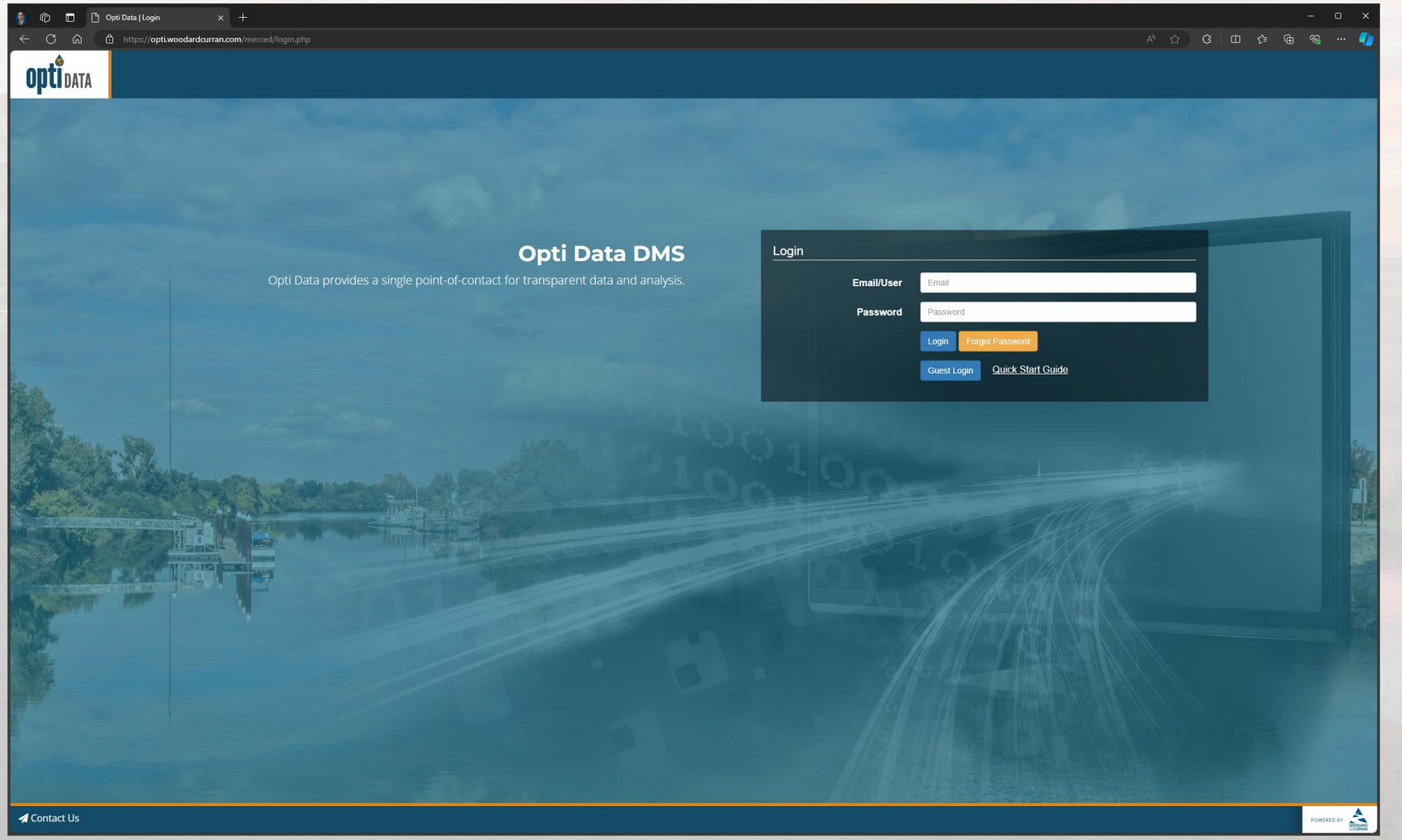
Analysis

- **Water Budgets**
  - Water Use
  - Land Surface
  - Operational
  - Stream
  - Groundwater
  - Fate of Recharge
- **Hydrographs**
  - Monitoring Wells
  - Calibration Wells
  - GWL Contours
  - Stream Flow

Comparison

- **Scenario – Baseline**
  - Water Budgets
  - Hydrographs
  - Contours
  - Heat Maps

MercedMAR - Opti Enhanced



MercedMAR - Opti Enhanced

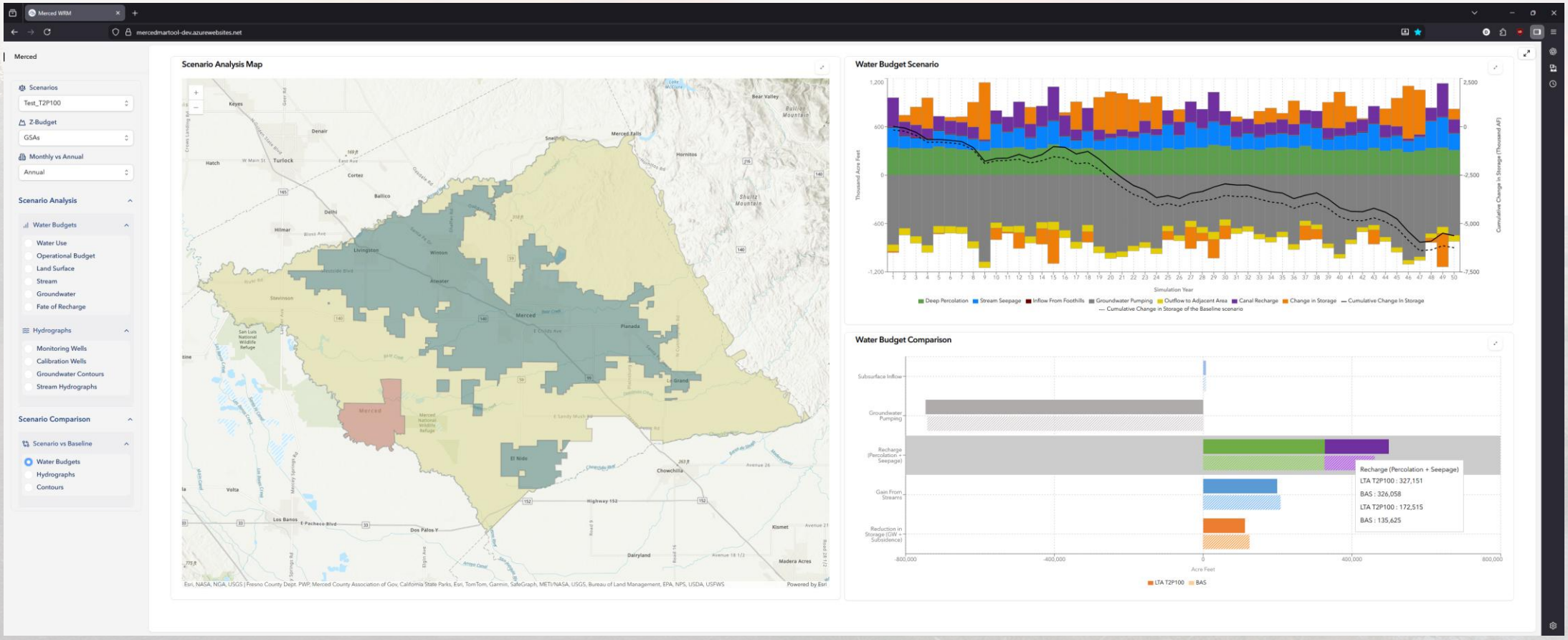


Image courtesy: Veronica Adrover/UC Merced

MercedMAR - Opti Enhanced

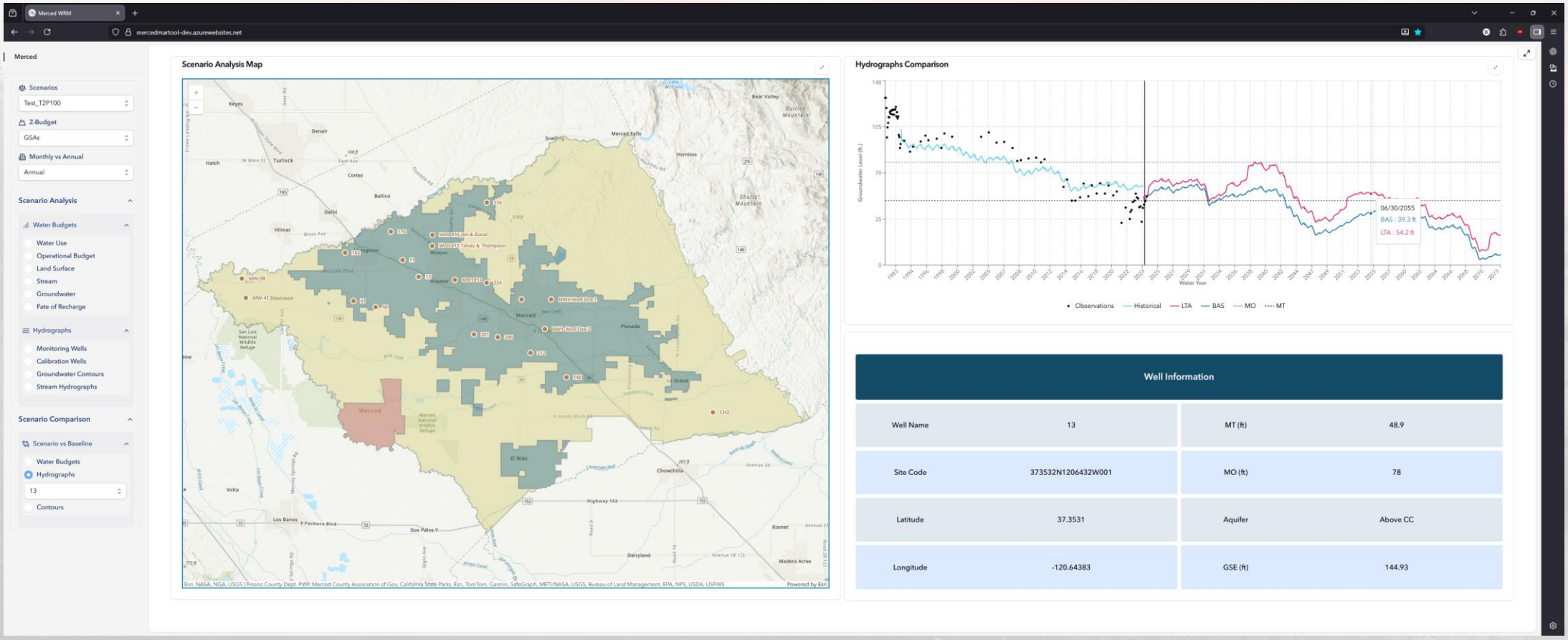


Image courtesy: Veronica Adrover/UC Merced

MercedMAR - Opti Enhanced

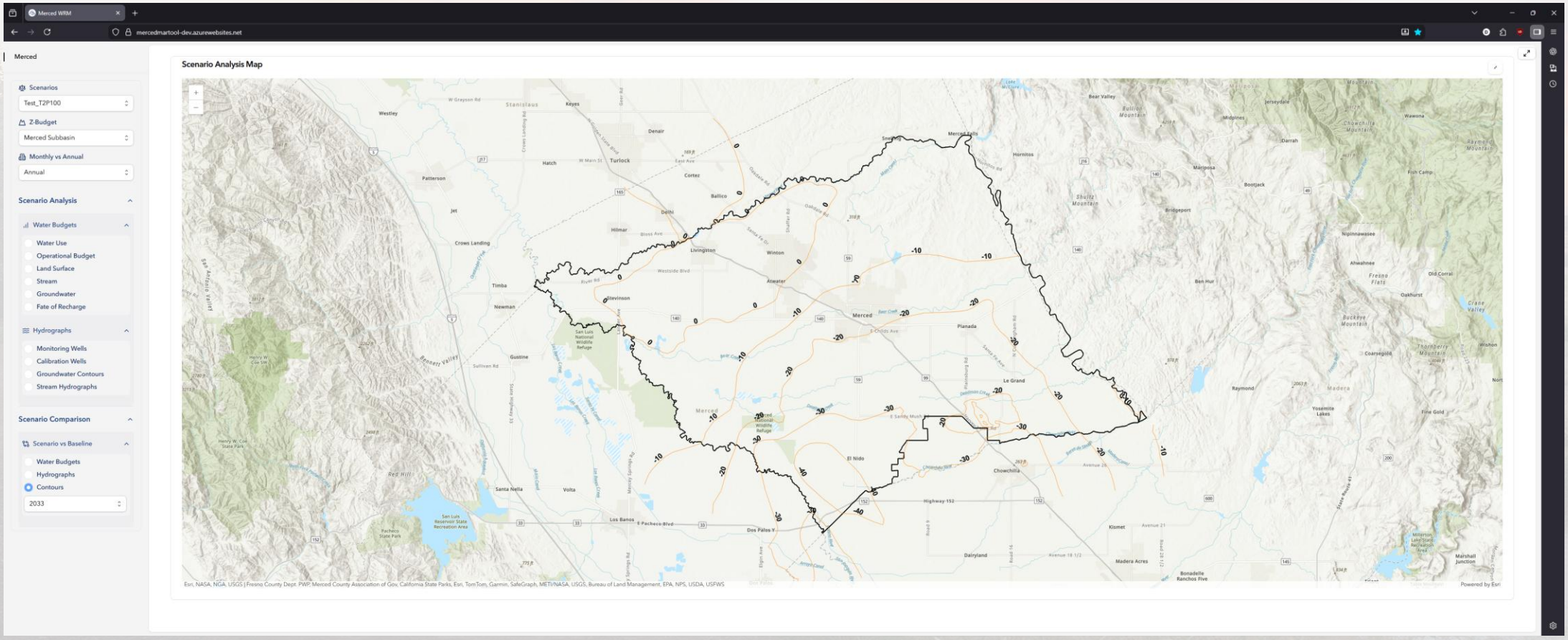


Image courtesy: Veronica Adrover/UC Merced

Domestic Well Mitigation Program Development Update

Image courtesy: Veronica Adrover/UC Merced

MERCED SGMA

Domestic Well Mitigation Program Development Update

- All 3 GSAs adopted the Domestic Well Mitigation program between January and February 2026, ahead of the April 2026 deadline
- GSAs currently developing forms and process for the program

Next Steps

Image courtesy: Veronica Adrover/UC Merced

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What's coming up next?

- Next meeting likely in June-August
- Discuss anticipated DWR Depletion of Interconnected Surface Waters Guidance
- Outcomes from interbasin coordination meeting planned with Delta-Mendota Subbasin

Image courtesy: Veronica Adrover/UC Merced

Merced GSP
Joint Coordination & Stakeholder Advisory Committees Meeting

March 9, 2026

Merced Irrigation-Urban GSA
Merced Subbasin GSA
Turner Island Water District GSA-1

Image courtesy: Veronica Adrover/UC Merced

MERCED SGMA