

# Merced GSP Coordination Committee

**Coordination Committee Meeting – December 22, 2021**

Meeting will begin at 1 pm – thank you for joining us!

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

Image courtesy: Veronica Adrover/UC Merced

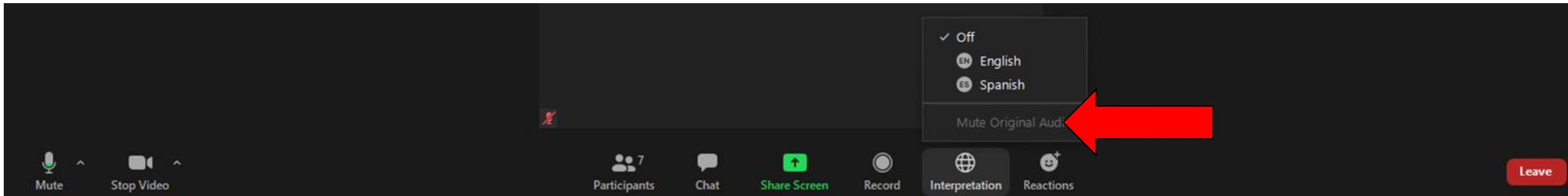
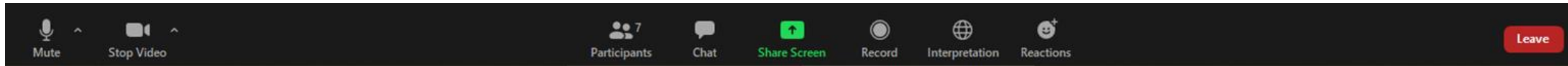


# Welcome, Instructions for Zoom

## 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
2. Roll Call
3. Consent Calendar
  - a) Consider Approval of Resolution Authorizing Remote Teleconference Meetings Pursuant to AB 361 for the Merced Subbasin Coordination Committee During Next 30 Days
  - b) Approval of July 26, 2021 Meeting Minutes
  - c) Approval of October 25, 2021 Meeting Minutes
4. Public Comment
5. Reports
  - a) None
6. Actions
  - a) None
7. Discussion Items
  - a) Overview of Round 1 SGM Implementation Planning and Projects Grant Application Process
  - b) Informational item: Overview of Round 2 IRWM Implementation Grant Program
  - c) Scoring Criteria Review for Round 1 SGM Implementation Planning and Projects Grant
  - d) Review Projects to Be Scored for Round 1 SGM Implementation Planning and Projects Grant
8. Next Steps and Adjourn

Image courtesy: Veronica Adrover/UC Merced

# Roll Call

Representative	GSA
Hicham ElTal	Merced Irrigation-Urban GSA
Stephanie Dietz	Merced Irrigation-Urban GSA
Justin Vinson	Merced Irrigation-Urban GSA
Daniel Chavez	Merced Irrigation-Urban GSA
Ken Elwin ( <i>alternate</i> )	Merced Irrigation-Urban GSA
Mike Gallo	Merced Subbasin GSA
Nic Marchini	Merced Subbasin GSA
Eric Swenson	Merced Subbasin GSA
George Park ( <i>alternate</i> )	Merced Subbasin GSA
Kel Mitchel	Turner Island Water District GSA #1
Tim Allan ( <i>alternate</i> )	Turner Island Water District GSA #1

Image courtesy: Veronica Adrover/UC Merced



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# Consent Calendar

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Image courtesy: Veronica Adrover/UC Merced



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# Teleconferencing Resolution (selected text, emphasis added)

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- Proclamation of Local Emergency. The Committee members hereby proclaims that a local emergency now exists throughout the Merced Subbasin, and full in-person meetings could cause an imminent risk to the Committee members, staff and public.
- Ratification of Governor's Proclamation of a State of Emergency. The Committee members hereby ratify the Governor of the State of California's Proclamation of State of Emergency, effective as of its issuance date of August 16, 2021.
- Remote Teleconference Meetings. The staff and legislative bodies of the Committee are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.
- Effective Date of Resolution. This Resolution shall take effect on December 22, 2021, and shall be effective until the earlier of (i) January 20, 2022, or (ii) such time the Committee members adopt a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of the Committee may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

Image courtesy: Veronica Adrover/UC Merced

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# Approval of Meeting Minutes

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- July 26, 2021
- October 25, 2021

Image courtesy: Veronica Adrover/UC Merced



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## Questions/Comments from Public:

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

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Image courtesy: Veronica Adrover/UC Merced







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# Sustainable Groundwater Management (SGM) Implementation Grants

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Image courtesy: Veronica Adrover/UC Merced



# SGM Implementation – Planning and Projects Grant (Round 1) Overview

- Up to \$152M is available for projects in eligible Critically Overdrafted (COD) groundwater basins.
  - Total amount will be split evenly to provide **\$7.6M per COD basin**.
  - Minimum \$3.96M per COD basin if other San Joaquin Valley subbasins do not submit applications
- **Round 1 is not competitive** between basins. Round 2 is open to all medium and high priority basins not receiving money in Round 1.
- A Spending Plan and self-evaluation of projects for at least \$10 million are due **February 18<sup>th</sup>**

Image courtesy: Veronica Adrover/UC Merced

# SGM Implementation – Planning and Projects Grant (Round 1) Overview

- DWR must award a minimum of \$40 million of the \$57 million granted by the Budget Act of 2021 to COD basins within the San Joaquin Valley for activities related to:
  - Geophysical investigations (**AEM**);
  - Early implementation of existing regional **flood management plans that incorporate groundwater recharge**; or
  - Projects that would complement efforts of a local GSP, that provide for **floodplain expansion to benefit groundwater recharge or habitat** (e.g., basin recharge using peak flows from a river, creek, or stream).
- A minimum of 30% of future solicitations must be used to address the needs, risks, and/or vulnerabilities in Underrepresented Communities

Image courtesy: Veronica Adrover/UC Merced

# Tentative Grant Program Schedule

<b>Program Schedule and Key Dates</b>	
<b><i>Milestone or Activity</i></b>	<b><i>Tentative Schedule</i></b>
SGM Grant Program's Final Guidelines and PSP Published	December 17, 2021
COD Basin - Round 1 Grant Solicitation Opens	December 17, 2021
COD Basin - Round 1 Grant Application Workshop	January 5, 2022
COD Basin - Round 1 Grant Solicitation Closes	February 18, 2022
Final Awards	March/April 2022
Execute Agreements	May 2022
Medium & High Priority- Round 2 Grant Solicitation Opens	September 2022
Draft Award List Posted for Public Review	April/May 2023
Final Award List Posted	June 2023
Execute Agreements	July/August 2023

# Informational item: Overview of Integrated Regional Water Management (IRWM) Implementation Grant Program

- Round 1 (2020) resulted in \$2.3M for 5 projects in Merced IRWM Region
- DWR released Round 2 draft Proposal Solicitation Package (PSP) on 12/10/21
- At least \$674,348 available to Merced Region for Round 2 (applications likely due March/April 2022), but Merced IRWM Authority already has projects lined up:

Project Description	Agency	Total Project Cost
Merced River Water Sampling	City of Livingston	\$ 70,000
Sandy Mush Reservoir Pilot Project	Merced Subbasin GSA	\$ 300,000
Lower Merced River Stewardship	East Merced Resource Conservation District	\$ 60,000
Diversion Project	Clayton Water District	\$ 300,000
	<b>Total</b>	<b>\$ 730,000</b>

Image courtesy: Veronica Adrover/UC Merced

# SGM Implementation – Planning and Projects Grant (Round 1) Selection and Application Process

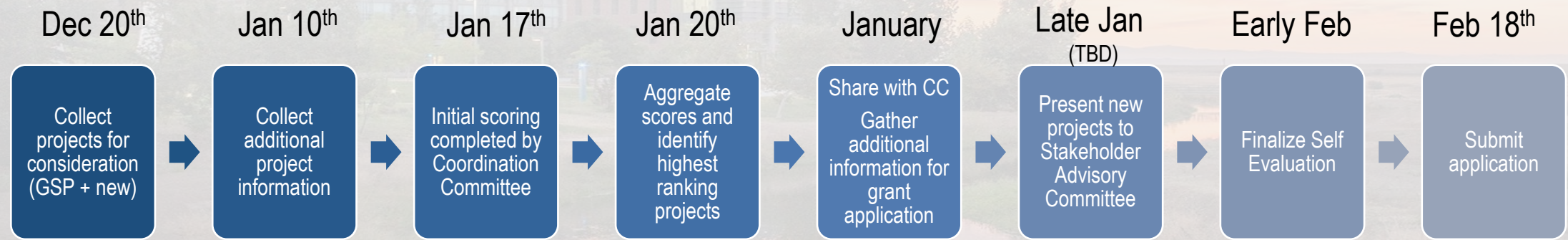


Image courtesy: Veronica Adrover/UC Merced

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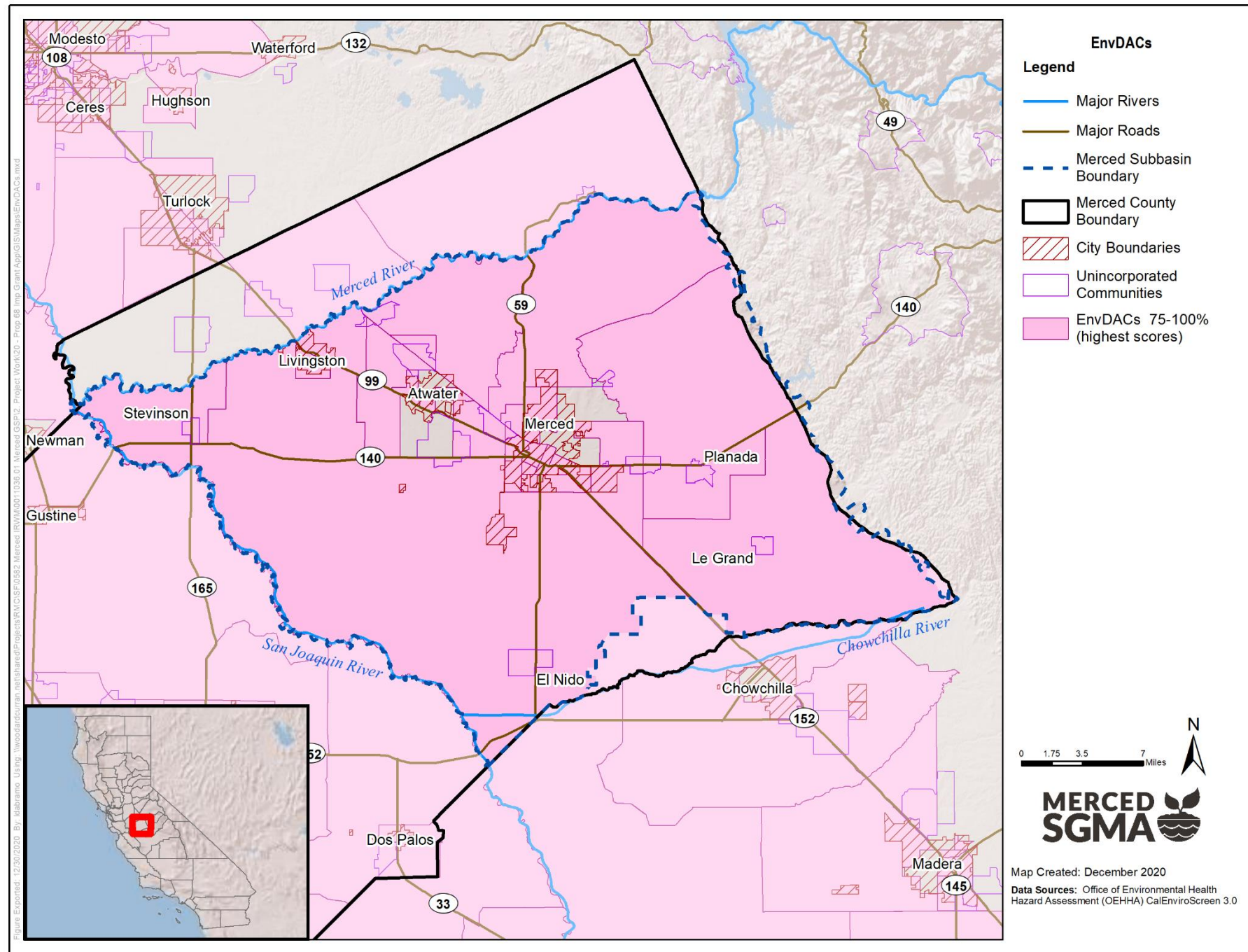
# DWR Application Evaluation Criteria (updated by DWR 12/17)

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1. **Description** and clear justification (4 points)
2. Description of quantifiable **benefits** (implementation) **OR** description of subbasin-wide **coordination** (planning) (4 points)
3. Outline of community **outreach and engagement** plan (3 points)
4. Project **maps** (2 points)
5. Does the project benefit **Underrepresented Communities**? Maps provided? (3 points)
6. Does the project positively impact **small water systems**/private domestic wells? (3 points)
7. Does the project address **Human Right to Water**? (4 points)
8. Description of **tasks/subtasks**? (3 points)
9. Is a reasonable **budget** table provided? (3 points)
10. Is a **schedule** provided and consistent with the budget/tasks? (1 point)

Image courtesy: Veronica Adrover/UC Merced

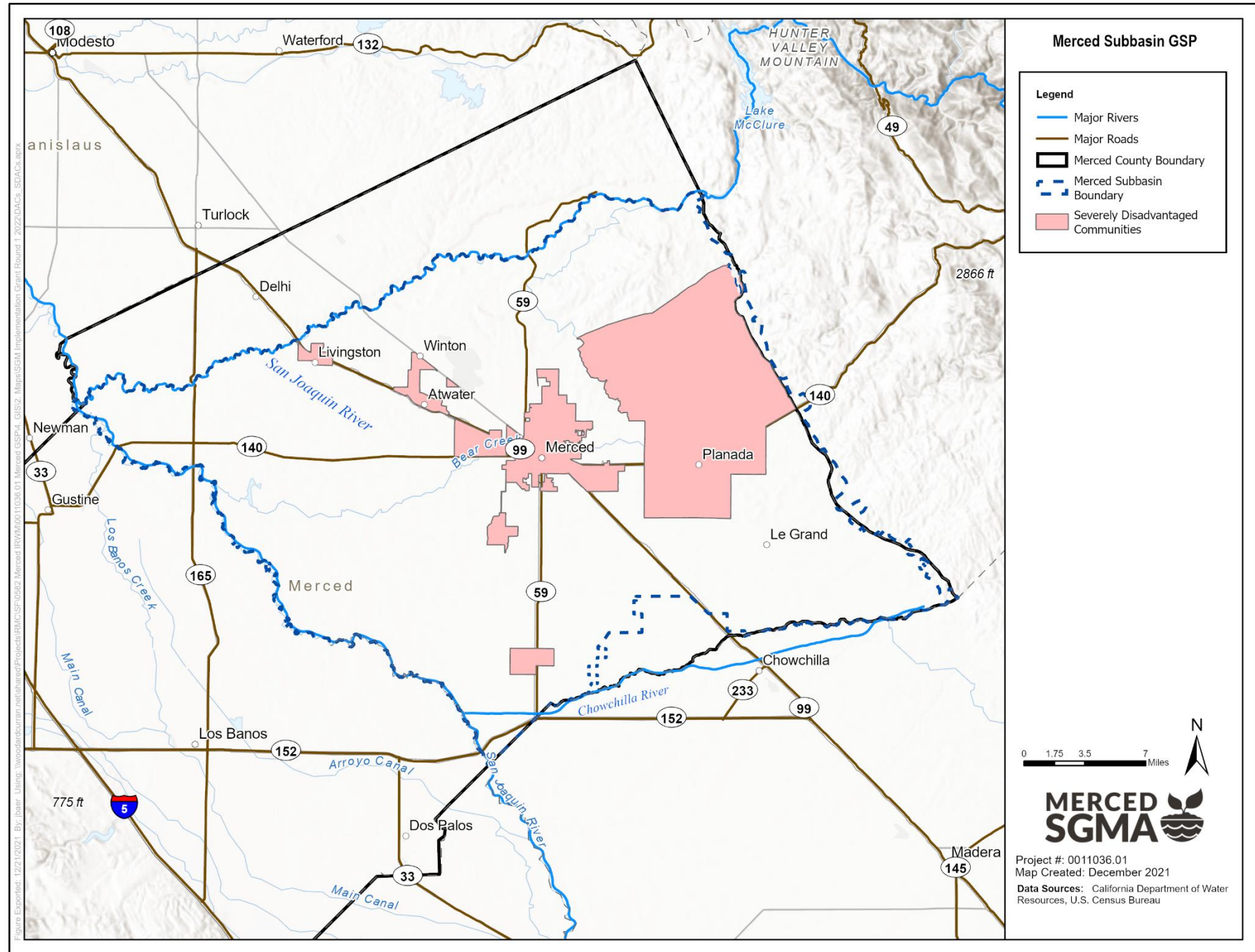
# Under-represented Communities (EnvDACs)



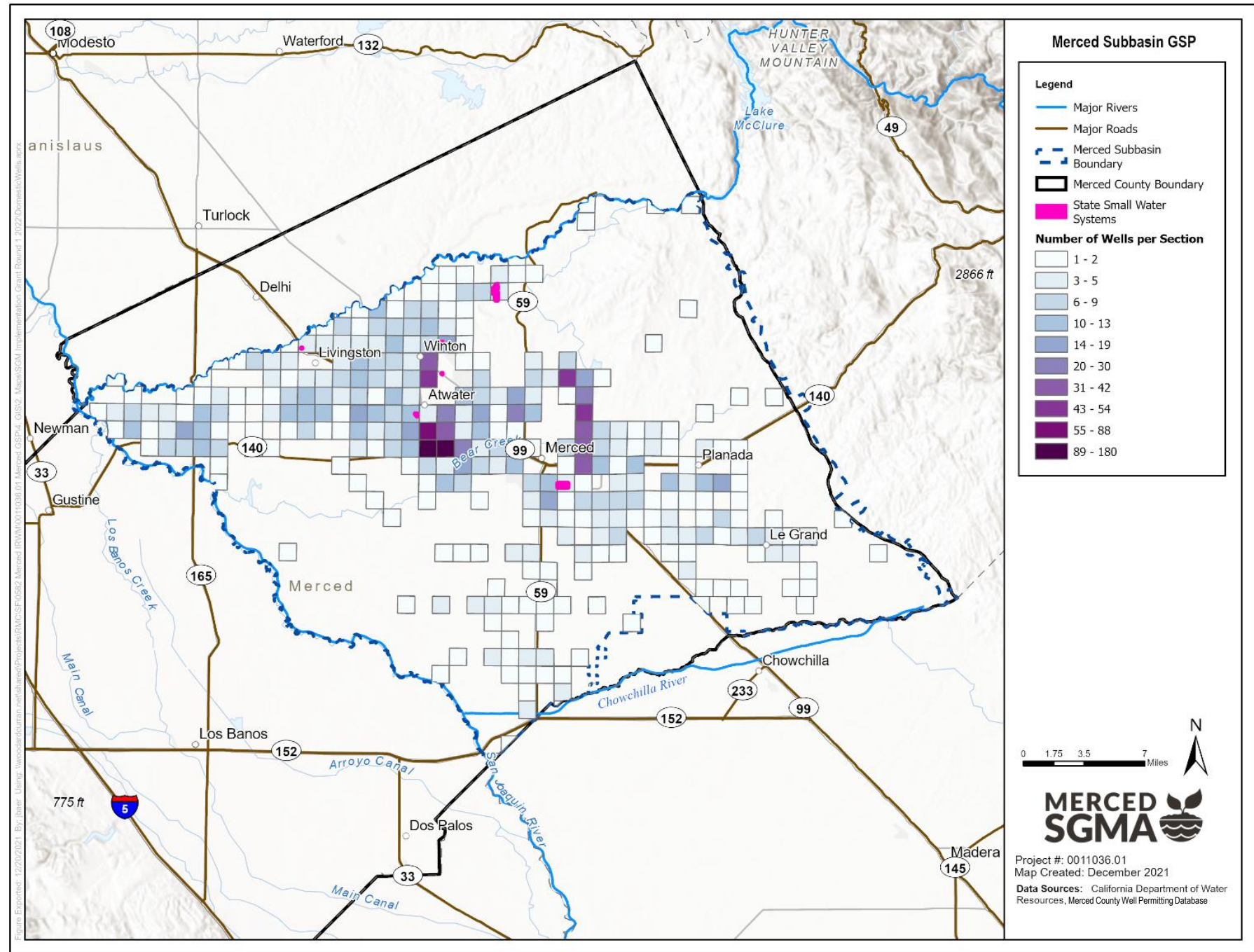


# Severely Disadvantaged Communities (SDACs)

*Tracts, block groups, and places combined*



# Domestic Well Users and Small Water Systems



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# Review Scoring Spreadsheet

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- *(W&C will walk through Excel workbook on screenshare)*

Image courtesy: Veronica Adrover/UC Merced

# Projects Currently Being Considered for SGM Grant Funding



# Projects Currently Being Considered for SGM Grant Funding (1 of 2)

Project Name	Submitting Agency	Project Cost
Amsterdam Water District Surface Water Conveyance and Recharge Project	Amsterdam Water District	\$2,081,175
Filling Data Gaps Identified in Data Gaps Plan	Basinwide Project	\$40K-\$80K per well
Merced Water Resources Model Enhancement	Basinwide Project	\$500,000
Merced Subbasin Recharge Project Decision-Support and Implementation Tools	Basinwide Project	\$150,000
Merced Subbasin Integrated Managed Aquifer Recharge Evaluation Tool (MercedMAR)	Basinwide Project	\$250,000
Buchanan Hollow Mutual Water Company Floodwater Recharge Project	Buchanan Hollow Mutual Water Company	\$1,157,980
▲ Purdy Project (E. Purdy, W. Purdy, and Kevin Recharge Basins) (Project No. 38)	Flying H Partners LLC	\$110,400
▲ Purdy Project (East Pike Recharge Basin) (Project No. 37)	GBRK LLC	\$73,750
G Ranch Groundwater Recharge, Habitat Enhancement & Floodplain Expansion Project	La Paloma Mutual Water Company	\$5,336,650
◆ LeGrand-Athlone Water District Intertie Canal - Phase 2	LeGrand-Athlone Water District	\$7,600,000
◆ Deadman Creek Canal Off Stream Storage and Recharge	Lone Tree Mutual Water Company	\$3,410,000

◆ Project or component of project from GSP short list

▲ Project or component of project from GSP running list

# Projects Currently Being Considered for SGM Grant Funding (2 of 2)

Project Name	Submitting Agency	Project Cost
Merquin County Water District (MCWD) Sustainable Yield Management Plan and Plan Implementation	Merquin County Water District	\$66,000
▲ GSP Project 31: Crocker Dam Modification	MID	\$1,240,000
MIUGSA Groundwater Extraction Measurement Program	MIUGSA	\$4,000,000 total \$2,000,000 from SGM grant
Tri City's Water Recharge/Underground Storage Feasibility	MSGSA, MIUGSA	\$3,500,000
◆ Vander Woude Storage Reservoir	Sandy Mush Mutual Water Company	\$852,589
Vander Dussen Subsidence Priority Area Flood-MAR Project	Sandy Mush Mutual Water Company	\$873,735
Turner Island Water District (TIWD) Water Conservation	TIWD	\$2,000,000
TIWD Surplus Water Conveyance	TIWD	\$3,000,000
TIWD Shallow Well Drilling	TIWD	\$500,000 per well
<b>New Projects Total</b>		<b>\$34,702,279</b>

◆ Project or component of project from GSP short list

▲ Project or component of project from GSP running list

# Merced Subbasin GSP Shortlist Projects

IN PROGRESS

FUNDING RECEIVED  
OR COMPELTE

Project Name	Project Status from Water Year 2020 Annual Report	Cost
Project 1: Planada Groundwater Recharge Basin Pilot Project	Pursuing alternative approaches to a traditional recharge basin, like installation of dry well(s).	\$400K
Project 4: Merquin County Water District Recharge Basin	This basin has not been constructed nor have design documents been completed. Dependent on grant funding.	\$1.4M
Project 5: Merced Irrigation District to Lone Tree Mutual Water Company Conveyance Canal	Currently in conceptual stage, working on obtaining agreements for easements.	\$3-6M
Project 6: Merced IRWM Region Climate Change Modeling	No update	\$250K
Project 7: Merced Region Water Use Efficiency Program	No update	\$500K
Project 10: Vander Woude Dairy Offstream Temporary Storage	This project is not being actively pursued due to funding constraints	\$750K
Project 2: El Nido Groundwater Monitoring Wells	Complete	
Project 3: Meadowbrook Water System Intertie Feasibility Study	Study complete	
Project 8: Merced Groundwater Subbasin LIDAR	Funding for this project was awarded under the Proposition 1 Round 1 IRWM Implementation Grant in 2020	
Project 9: Study for Potential Water System Intertie Facilities from MID to LGAWD and CWD and Project 11: Mini-Big Conveyance Project	Study complete. Grant funding received.	
Project 12: Streamlining Permitting for Replacing SubCorcoran Wells	Study complete	

# Merced Subbasin GSP Running Project List (1 of 4)

Project Name	Submitting Agency	GSA	Current Status	Estimated Cost
<b>Project 13: Planada Northwest 2019 Water System Improvement Project</b>	Planada Community Services District (2018 IRWMP)	MIUGSA	Design	\$2,184,198
<b>Project 14: Water Efficiencies Rebate Program</b>	City of Merced (2018 IRWMP)	MIUGSA	Conceptual	\$100,000
<b>Project 15: Merced Irrigation Flood-MAR Canal Automation</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA	Conceptual	\$6,500,000
<b>Project 16: Livingston Canal Lining Project</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA	Construction	\$3,100,000
<b>Project 17: Well 20 TCP Treatment</b>	City of Atwater (2018 IRWMP)	MIUGSA	Conceptual	\$3,000,000
<b>Project 18: Cash for Grass Pilot Program to Eliminate Wasteful Pollution Containing Water Run-off</b>	City of Merced (2018 IRWMP)	MIUGSA	Design	\$65,680
<b>Project 19: Black Rascal Creek Flood Control Project</b>	Merced Streams Group (County of Merced, City of Merced, Merced Irrigation District) (2018 IRWMP)	MIUGSA, MSGSA	Design	\$35,761,703
<b>Project 20: Black Rascal Creek Flood Control Bypass/ Supplemental Groundwater Supply Improvements</b>	Merced Streams Group (County of Merced, City of Merced, Merced Irrigation District) (2018 IRWMP)	MIUGSA, MSGSA	Planning	\$1,000,000
<b>Project 21: Study or a pilot recharge basin project on Canal Creek</b>	Amsterdam Water District	MSGSA	Planning	NA
<b>Project 22: Permitting and Characterization of Merced River Water for Potable Water Supply</b>	City of Livingston (2018 IRWMP)	MIUGSA	Conceptual	\$325,000
<b>Project 23: Weather Based Irrigation Controllers</b>	City of Merced (2018 IRWMP)	MIUGSA	Ongoing Program	\$540,000



# Merced Subbasin GSP Running Project List (2 of 4)

Project Name	Submitting Agency	GSA	Current Status	Estimated Cost
<b>Project 25: Mariposa Reservoir Enlargement and Downstream Levee and Channel Improvements</b>	Merced Streams Group (County of Merced, City of Merced, Merced Irrigation District) (2018 IRWMP)	MIUGSA	Planning	\$15,000,000
<b>Project 26: Owens Reservoir Enlargement and Downstream Levee and Channel Improvements</b>	Merced Streams Group (County of Merced, City of Merced, Merced Irrigation District) (2018 IRWMP)	MIUGSA	Planning	\$15,000,000
<b>Project 27: Atwater-McSwain Regulating/Recharge Basin</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA	Planning	\$3,300,000
<b>Project 28: Rice Field Pilot Study Monitoring Wells</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA	Planning	\$250,000
<b>Project 29: Water Meter Conservation Project</b>	City of Atwater (2018 IRWMP)	MIUGSA	Design	\$800,000
<b>Project 30: Real Time Simulation Flood Control Modeling - Bear Creek</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA	Conceptual	\$100,000
<b>Project 31: Crocker Dam Modification</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA, MSGSA	Conceptual	\$1,240,000
<b>Project 32: East Pike Recharge Basin</b>	GBRK LLC & Stevinson Water District	MSGSA	Planning/Initial Study & Conceptual Design	\$50,000
<b>Project 33: East Purdy Recharge Basin</b>	Flying H Partners LLC & Stevinson Water District	MSGSA	Planning/Initial Study & Conceptual Design	\$50,000
<b>Project 34: TIWD GSA-1 Merced GSP Projects Reservoir</b>	Larry Harris, TIWD GSA-1	TIWD GSA-1	Planning/Initial Study	\$1,500,000
<b>Project 35: University of California Merced Surface Water Augmentation</b>	Merced Irrigation District and the University of California Merced (2018 IRWMP)	MIUGSA	Planning	\$800,000

# Merced Subbasin GSP Running Project List (3 of 4)

Project Name	Submitting Agency	GSA	Current Status	Estimated Cost
<b>Project 37: Exchange Recycled Water for Surface Water in Parks</b>	City of Merced (2018 IRWMP)	MIUGSA	Conceptual	\$80,000
<b>Project 38: Marguerite Water Retention Facility</b>	Brad Robson	MSGSA	Planning/Initial Study	NA
<b>Project 39: Le Grand-Athlone Water District Surface Water Extension</b>	2018 IRWMP	MSGSA	Conceptual	\$20,000,000
<b>Project 40: Bear Reservoir Enlargement and Downstream Levee and Channel Improvements</b>	Merced Streams Group (County of Merced, City of Merced, Merced Irrigation District) (2018 IRWMP)	MIUGSA	Planning	\$20,000,000
<b>Project 42: Lake Yosemite Booster Pump Station</b>	Merced Irrigation District (2018 IRWMP)	MIUGSA	Conceptual	\$100,000
<b>Project 43: Various Storm Basin Improvements</b>	City of Livingston (2018 IRWMP)	MIUGSA	NA	\$650,000
<b>Project 44: Burns Reservoir Enlargement and Downstream Levee and Channel Improvements</b>	Merced Streams Group (County of Merced, City of Merced, Merced Irrigation District) (2018 IRWMP)	MIUGSA, MSGSA	Planning	\$15,000,000
<b>Project 45: Fairfield Canal/ El Nido Superhighway</b>	2018 IRWMP	MIUGSA, MSGSA	Conceptual	\$3,000,000
<b>Project 46: Mariposa Dam Gate Modification</b>	Brad Robson	MSGSA	Planning	NA
<b>Project 47: Infiltration Basin, Clayton Water District</b>	Clayton Water District	MSGSA	Planning/Initial Study	\$3,250,000
<b>Project 48: Storage Basin, Clayton Water District</b>	Clayton Water District	MSGSA	Planning/Initial Study	\$10,000,000

# Merced Subbasin GSP Running Project List (4 of 4)

Project Name	Submitting Agency	GSA	Current Status	Estimated Cost
<b>Project 50: Eastside By-Pass Diversions, Clayton Water District</b>	Clayton Water District	MSGSA	Conceptual Design phase	\$200,000
<b>Project 51: Merced Groundwater Basin Subsidence Area and Supplemental Supply - Phase 1</b>	Clayton Water District	MSGSA	Planning	\$100,000

Image courtesy: Veronica Adrover/UC Merced

# Amsterdam Water District Surface Water Conveyance and Recharge Project

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Amsterdam Water District Surface Water Conveyance and Recharge Project	Amsterdam Water District	Merced Irrigation District, Merced Subbasin GSA	The Amsterdam Water District Project is composed of 4 project components with an estimated benefit of 6,580 acre-feet per year (AFY). The first component would build approximately 1-mile of 21" PVC pipeline to convey surface water from Canal Creek to an existing 125 acre-foot irrigation reservoir. The project would also build 3 recharge ponds totaling approximately 53-acres.	Complete by January 2024	\$2,081,175

Image courtesy: Veronica Adrover/UC Merced



# Filling Data Gaps Identified in Data Gaps Plan

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Filling Data Gaps Identified in Data Gaps Plan	Basinwide Project	MSGSA, MIUGSA, Turner Island Water District GSA #1	The Merced GSP identifies areas of data gaps in the Merced Subbasin in regard to a lack of understanding of groundwater levels in poorly monitored portions of the subbasin, partially due to unequal spatial representation of monitoring wells and a lack of understanding of shallow groundwater conditions near groundwater dependent ecosystems and rivers, mainly due to a lack of monitoring wells near such areas. Filling these gaps will help to improve scientific understanding, support ongoing basin management and policy making and can be used in developing future updates to the GSP.	Rough estimate: 1 year (9 months to identify sites, 3 months to permit, schedule, install)	Rough estimate \$40K (shallow well) to \$80K (deep well, potentially w/shallow well)

# Merced Water Resources Model Enhancement

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Merced Water Resources Model Enhancement	Basinwide Project	MSGSA, MIUGSA, Turner Island Water District GSA #1	The Merced WRM extends throughout the entire Merced Subbasin and supports comprehensive understanding and assessment of the surface water and groundwater conditions in the Subbasin. The Merced WRM is the primary analysis tool for assessment of sustainability plan in the Subbasin, development of detailed water budgets for historical and projected conditions, and water accounting framework and water allocation among the GSAs, throughout the Subbasin. The goal of this project is to enhance the Merced WRM to include the latest state of information subsequent to the submission of the GSP in January 2020, and to enable the Merced WRM to integrate with the GRAT tool that is being developed for the Subbasin. The resultant tool will be the Integrated Groundwater Managed Aquifer Recharge Evaluation Tool. Collectively, the project will support evaluation of vulnerabilities and benefits to DACs/SDACs, shallow well users, and other water users. Additionally, refined stratigraphic layers will support evaluation of Groundwater Dependent Ecosystems (GDEs).	12 months	\$500,000

Image courtesy: Veronica Adrover/UC Merced

# Merced Subbasin Recharge Project Decision-Support and Implementation Tools

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Merced Subbasin Recharge Project Decision-Support and Implementation Tools	Basinwide Project	MSGSA, MIUGSA, Turner Island Water District GSA #1	As an integrated, user-friendly recharge project implementation tool for the multi-stakeholder Merced Subbasin, GRAT and the Merced WRM can provide an objective platform to facilitate stakeholder evaluation and discussion of a portfolio of recharge opportunities that span multiple locations, time horizons, and climate change scenarios. The goal of this project is to inform sustainable groundwater management decisions in the Merced Subbasin by linking and geographically expanding the recharge and groundwater models developed in the Flood-MAR study. As a planning and operational tool, GRAT will provide GSAs, and water and flood managers with a “where, when, how much, and at what cost” understanding of recharge that can aid in evaluation of GSP targets as well as monitoring of progress towards SGMA objectives.	Complete by January 2023	\$150,000

# Merced Subbasin Integrated Managed Aquifer Recharge Evaluation Tool (MercedMAR)

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Merced Subbasin Integrated Managed Aquifer Recharge Evaluation Tool (MercedMAR)	Basinwide Project	MSGSA, MIUGSA, Turner Island Water District GSA #1	The Integrated Groundwater Managed Aquifer Recharge (MAR) Evaluation Tool (“MercedMAR”) is an extension and integration of existing Merced models, including the Merced WRM and GRAT, to support exploration of groundwater recharge in the Merced Subbasin. The goal of the tool is to provide a one-stop shop tool and resources for decision makers (including Groundwater Sustainability Agency representatives, surface water operators, growers, and other stakeholders) to implement and optimize MAR to benefit disadvantaged communities (DACs), growers, the ecosystem, GDE, and the Subbasin’s groundwater health. Additionally, MercedMAR will be used to support benefits and impacts of recharge to the shallow domestic well owners. The integrated tool can also enable the GSAs to account for allocation of recharge credits appropriately.	12 months	\$250,000



# Buchanan Hollow Mutual Water Company Floodwater Recharge Project

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Buchanan Hollow Mutual Water Company Floodwater Recharge Project	Buchanan Hollow Mutual Water Company	Merced Subbasin GSA	The Project would build three recharge ponds utilizing floodwater from Dutchman Creek. The recharge ponds would be 25.2-acres, 5.8-acres, and 16.4-acres, respectively. The land is currently farmed with figs and almonds with a current crop demand of 130 acre-feet per year (AFY). The floodwater would be diverted using two 5 cubic feet per second (CFS) pumps generating approximately 900 AFY. The total yield of the Project would be approximately 1,030 AFY.	Complete by June 2023	\$1,157,980

Image courtesy: Veronica Adrover/UC Merced

# Purdy Project (E. Purdy, W. Purdy, and Kevin Recharge Basins) (Project No. 38)

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Purdy Project (E. Purdy, W. Purdy, and Kevin Recharge Basins) (Project No. 38)	Flying H Partners LLC	Stevinson Water District (SWD)	Project No. 38 will recharge stormwater on 157 acres of farmland which includes three adjacent areas, the 85-acre East Purdy Recharge Area, the 37-acre West Purdy Recharge Area, and the 35-acre Kevin Recharge Area. The project will have the capacity to recharge up to 1,300 acre-feet/year of storm event run off captured during above normal and wet hydrologic year types by SWD distribution facilities and the East Side Canal assuming a two-month period of operation when stormwater is available for recharge.	6 months	\$110,400

Image courtesy: Veronica Adrover/UC Merced

# Purdy Project (East Pike Recharge Basin) (Project No. 37)

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Purdy Project (East Pike Recharge Basin) (Project No. 37)	GBRK LLC	Stevinson Water District (SWD)	Project No. 37 will recharge stormwater on 130 acres of farmland, the East Pike Recharge Area. The project will have the capacity to recharge up to 1,080 acre-feet/year of storm event runoff captured during above normal and wet hydrologic year types by SWD distribution facilities and the East Side Canal assuming a two-month period of operation during years when storm water is available for recharge.	6 months	\$73,750

Image courtesy: Veronica Adrover/UC Merced

# G Ranch Groundwater Recharge, Habitat Enhancement & Floodplain Expansion Project

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
G Ranch Groundwater Recharge, Habitat Enhancement & Floodplain Expansion Project	La Paloma Mutual Water Company	Merced Irrigation District, US Fish & Wildlife, Merced Irrigation District, Merced Subbasin GSA & Ducks Unlimited	La Paloma Mutual Water Company (LPMWC) proposes the Groundwater Recharge & Ecosystem Enhancement Project. The project would consist of the planning, design, and construction of the combination of groundwater recharge ponds and floodplain re-establishment. The ponds would be designed to enhance the Pacific Flyway wetland habitat. The project would be located on approximately 439 acres within the G-Ranch property. Of the 439 acres, 270 acres are existing wetlands. This project would enhance those wetlands and re-establish the remaining 169 acres of double-cropped farmland to floodplains. The entire project would be utilized for habitat enhancement and groundwater recharge, providing additional wetland habitat for migrating waterfowl.	Complete by January 2023	\$5,336,650

Image courtesy: Veronica Adrover/UC Merced

# LeGrand-Athlone Water District Intertie Canal - Phase 2

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
LeGrand-Athlone Water District Intertie Canal - Phase 2	LeGrand-Athlone Water District	Merced Irrigation District	The proposed Le Grand-Athlone Water District (LGAWD) Intertie and Recharge Project Component (Project Component) completes Phase 2 of the LGAWD Intertie Canal. The LGAWD Intertie Canal would capture and store floodwaters by constructing an approximately 2-mile canal to connect MID's Booster Lateral 3 to Dutchman Creek northeast of Santa Fe Road. The new Intertie Canal would be built to convey 125 cubic feet per second (cfs) of floodwater for Flood Managed Aquifer Recharge (Flood-MAR) on approximately 40,000 acres of productive farmland in the Merced Subbasin.	Construction to start July 1, 2023	\$7,600,000

# Deadman Creek Canal Off Stream Storage and Recharge

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Deadman Creek Canal Off Stream Storage and Recharge	Lone Tree Mutual Water Company		A 675-acre-foot storage and regulating reservoir situated on 160 acres (gross) and an 80-acre Recharge project which will be built in stages following the separate estimated Spring 2022 completion of the 2-mile-long 100 CFS Deadman Creek Canal linking Deadman Creek and the terminus ends of MID's Benedict and CaseBeer canals with Lone Tree MWC's Fenceline Canal. The project will allow for acceptance of MID in-season flows when available.	Reservoir complete by Fall 2024, Full-scale recharge by Fall 2022	\$3,410,000

Image courtesy: Veronica Adrover/UC Merced

# Merquin County Water District (MCWD) Sustainable Yield Management Plan and Plan Implementation

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Merquin County Water District (MCWD) Sustainable Yield Management Plan and Plan Implementation	Merquin County Water District		<p>The Sustainable Yield Management Plan will provide an average of up to 666 AF per year of groundwater recharge outside the normal irrigation season (April through September). The management plan would also include:</p> <ul style="list-style-type: none"> <li>• Study of groundwater gradients and determination of optimal locations for recharge facilities.</li> <li>• Irrigation season water routing of surface water and groundwater to minimize salinity of delivered water.</li> <li>• Evaluation of optimal location for installation of replacement groundwater pumping wells to operate during seasons with little or no surface water.</li> <li>• Evaluation of need for pipeline interconnects between laterals to optimize water operations when minimal surface water is available.</li> <li>• Estimation of long-term groundwater recharge needed for MCWD to be sustainable.</li> </ul>	6 months	\$66,000

# GSP Project 31: Crocker Dam Modification

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Project 31: Crocker Dam Modification	MID	MIUGSA, MSGSA	This project encompasses installation of automatic gates at MID's Crocker Dam, located just west of Merced at the bifurcation of Black Rascal Creek and Bear Creek. The automatic gates would allow for MID to remotely operate the dam and adaptively manage the flows in Bear Creek/Black Rascal Creek. This would provide improved flood control downstream, water storage, and be a supply for groundwater recharge from stormwater (Flood-MAR).		\$1,240,000

Image courtesy: Veronica Adrover/UC Merced



# MIUGSA Groundwater Extraction Measurement Program

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
MIUGSA Groundwater Extraction Measurement Program	MIUGSA		Within MIUGSA, the total number of active production wells, and related extraction is currently estimated through modeling and water budget calculations. This project would include in the installation of flow measurement devices throughout MIUGSAs, with the primary goal of collecting accurate groundwater extraction data from within the GSA. As part of the 2021 SGMA Implementation Grant, MIUGSA is proposing the installation of up to 100 flow meters on production wells within MIUGSA's boundaries	Complete in 2025	\$4,000,000 total \$2,000,000 from SGM grant

Image courtesy: Veronica Adrover/UC Merced



# Tri City's Water Recharge/Underground Storage Feasibility

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Tri City's Water Recharge/Underground Storage Feasibility	MSGSA, MIUGSA		Tri City's Project will perform geotechnical analysis to determine floodmar recharge feasibility and aquifer conditions to determine if a suitable aquifer or geological feature exists beneath the surface to store recharged water. Also the study will analyze the ability to recharge outside of Corcoran clay to benefit sub Corcoran water levels further west in the basin.	Fourth quarter of 2023	\$3,500,000

Image courtesy: Veronica Adrover/UC Merced

# Vander Woude Storage Reservoir

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Vander Woude Storage Reservoir	Sandy Mush Mutual Water Company	Merced Integrated Regional Water Management Authority	The project will build a 30-acre storage reservoir with a capacity of 250 acre-feet (AF). The project will divert flood water from Mariposa and Owens Creeks and store it or later use to meet crop demand. It's estimated the reservoir would be filled 3 times per year for an estimated yield of 750 AFY. In addition, the project would permanently fallow 30-acres of productive farmland that has a crop demand of 150 AFY. The total project yield is 900 AFY.	Complete January 2023	\$852,589

Image courtesy: Veronica Adrover/UC Merced

# Vander Dussen Subsidence Priority Area Flood-MAR Project

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Vander Dussen Subsidence Priority Area Flood-MAR Project	Sandy Mush Mutual Water Company	Merced Irrigation District, Madera County GSA, Interbasin Coordination Committee (Delta-Mendota, Madera, Merced, and Chowchilla Subbasins)	The Vander Dussen Subsidence Priority Area Project (Project) will build a 1.25 mile earthen canal from Merced Irrigation District's El Nido Canal to and 685-acres of agricultural fields, of which approximately 325-acres are located within Sandy Mush Mutual Water Company and 333-acres in the Madera County GSA. With 90 days of flood flows, the 20 cubic feet per second (CFS) canal will yield ~3,600 acre-feet (AF) of recharge.	Complete Spring 2023	\$873,735

Image courtesy: Veronica Adrover/UC Merced



# Turner Island Water District (TIWD) Water Conservation

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
Turner Island Water District (TIWD) Water Conservation	TIWD		This project would consist of the construction of a surface water reservoir and installation of pumps/piping to return water to the head of the TIWD system. This would reduce strain on our growers' operations and allow us to limit the pumping of wells. Based on this limited pumping, it is believed that this storage/return system could save 1,500 AF or more per year in groundwater extractions. This number does not reflect the ability for this reservoir to capture wet year water and stored for later use, which could be incredibly beneficial in further reducing demand on TIWD wells, potentially to the tune of an additional 750-1,000 AF per year.	Complete in 2023	\$2,000,000

# TIWD Surplus Water Conveyance

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
TIWD Surplus Water Conveyance	TIWD	Open to regional partnerships	This project would consist of the expansion of water conveyance from Owens Creek and other potential sources. It is anticipated that such water expansions could allow for the delivery of up to 50cfs in extra flows to the district. Over the course of 30 days, this may yield up to 3,000 AF to TIWD. In combination with TIWD efforts to create storage and landowner efforts to pursue further storage opportunities, this is water that may directly offset reliance on groundwater resources.	Complete in 2025	\$3,000,000

Image courtesy: Veronica Adrover/UC Merced

# TIWD Shallow Well Drilling

Project Name	Entity	Participating Agencies	Description	Schedule	Cost
TIWD Shallow Well Drilling	TIWD		Many of TIWD's wells are screened below the Corcoran Clay. Pumping from this aquifer is more likely to result in land subsidence issues, compared to pumping from the aquifer above the Corcoran Clay. This project would entail the construction of wells, screened above the Corcoran Clay to minimize subsidence impacts. This would require the scoping of the locations of the wells to ensure good production, followed by the drilling and installation of new wells at those desired locations. These shallow wells would be intended to replace existing deeper wells.		\$500,000 per well

Image courtesy: Veronica Adrover/UC Merced



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## Next Steps

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Image courtesy: Veronica Adrover/UC Merced





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# What's coming up next?

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- *Project proponents* to provide additional information (**January 10<sup>th</sup>**)
- *Coordination Committee members* to complete project scoring template (**January 10<sup>th</sup> - January 17<sup>th</sup>**)
- *Woodard & Curran* to aggregate scores and identify highest ranking projects. Results to be emailed to the CC (**January 20<sup>th</sup>**)
- Adjourn to next meeting: TBD in April 2022

Image courtesy: Veronica Adrover/UC Merced

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# Merced GSP Coordination Committee

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**Coordination Committee Meeting – December 22, 2021**

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

Image courtesy: Veronica Adrover/UC Merced

