



Mokelumne Integrated Conjunctive Use Program Update

Advisory Water Commission

Agenda Item III A

July 16, 2025



Groundwater Setting

- Eastern San Joaquin Groundwater Subbasin (ESJGSB) is considered a critically-overdrafted basin by the Sustainable Groundwater Management Act (SGMA)
- The 2024 ESJGSB Groundwater Sustainability Plan (GSP) Amendment estimated a 95,000 acre-feet per year sustainability deficit
- MICUP is a Category B Project in the 2024 GSP

MICUP Background

- Mokelumne River Water and Power Authority (JPA) Water Rights Application 29835
 - Develop Facilities to Capture Unappropriated Flows on the Mokelumne River
 - Provide New Surface Water Supply for Groundwater Recharge Operations
- Funded by a \$3.3M Sustainable Groundwater Management Act Grant
- Estimated project completion date is fall 2025
- Goal to Support a Water Right Permit Petition to Amend Application 29835

Water Availability Analysis (1 of 2)

- Simulation Period is 1953 to 2021
- Diversion Period is December 1 to June 30
- Seasonal Diversion Amount of 110,000 acre-feet to direct use or underground storage
- Maximum Diversion Rate = 620 cubic feet per second
- Current WAA averages about 43,000 acre-feet per year (nearly half of the annual ESJGSB sustainability estimate), 84,000 acre-feet in non-zero years
- EBMUD Protest Dismissal Agreement includes 48,000 acre-feet in the July-October Diversion Period

Water Availability Analysis (2 of 2)

- Ongoing WAA analysis has been coordinated with EBMUD and WID
- WAA accounts for senior upstream and downstream water rights holders, flood control, and channel losses
- Includes environmental flows (Voluntary Agreements and Joint Settlement Agreement)
- Operations Working Group Established to account and report diversions by users under a future water right

Remaining Activities

- Complete Modeling in Support of CEQA and Water Rights
 - Eastern San Joaquin Water Resources Model (ESJWRM) Version 3.0
 - California Department of Water Resources Delta Simulation Model 2 (DSM2)
- Finalize and Circulate Draft EIR for Public Review
- Complete SGMA Grant Activities by 10/31/25 and Final Closeout by 12/31/25
- Prepare Final EIR for Board of Supervisors Adoption
- Submit Water Rights Petition to Amend Application 29835

An aerial photograph of a large, winding lake with several green islands and surrounding land. The water is a deep blue, and the land is a mix of green and brown. The text "THANK YOU!" is overlaid in large, white, bold letters with a slight shadow.

THANK YOU!

If you have questions or comments, contact:

Robert Granberg