Yuba IRWMP – YWA-31

Project Short Form[1]

Please fill out the following information to the best of your ability/knowledge. Contact Keri Rinne with questions: keri.rinne@gmail.com

PROJECT SPONSOR INFORMATION

Lead Agency/Organization	Yuba Water Agency
Name of Primary Contact(s)	Charles Johnck
Mailing Address	1220 F Street, Marysville, CA 95901
Email Address	cjohnck@yubawater.org
Phone (###) ###-####	(530) 740-7032
Project Partners/Collaborators	
YWA Liaison	n/a

GENERAL PROJECT INFORMATION

Project Title	AgASR – Using Canal Water to Recharge Through Wells for Resilient Water Supplies
Project Total Budget (Attach detailed budget, if available)	$665,000
Budget Breakdown	Planning/Design Budget: $25,000
	Implementation Budget: $640,000
Project Funding Match, if any	
Total Project Funding Need	
Project Location (Attach map if available)	
Watershed/subwatershed	HUC 8-18020125 (Upper Yuba), HUC 8-18020126 (Upper Bear), and HUC 8-18020159 (Honcut Headwaters-Lower Feather)
Groundwater Basin (Select one)	☐ North Yuba Subbasin ☒ South Yuba Subbasin ☐ Not Applicable
Supports Yuba Groundwater Sustainability Plan (GSP)?	☒ Yes ☐ No
Measurable Objective(s) Benefit (Answer If 'Yes' above) (check *all* that apply)	☒ Chronic lowering of groundwater levels ☒ Reduction of groundwater storage ☐ Degraded water quality ☐ Land subsidence ☒ Depletions of interconnected surface waters
Project Priority (Select one)	☐ High ☒ Medium ☐ Low
Project Type (check *all* that apply)	☐ Conceptual ☒ Feasibility Study ☐ Study/Assessment ☐ Planning ☒ Engineering/Design ☒ Permitting

[1] Completed Project Short Forms should be sent via email to Keri Rinne at keri.rinne@gmail.com

	☐ CEQA/NEPA ☒ Facility Construction ☐ Restoration ☒ Monitoring ☐ Best Management Practices ☐ Acquisition ☒ Demonstration/Pilot Project
Legal Authority	

Please select the *status* of the CEQA/NEPA/Permitting for this project:

CEQA **(Select one)**	☐ Exempt ☐ Not Started ☐ Initial Study ☐ EIR ☐ Determination ☒ Unknown if Required
NEPA **(Select one)**	☐ Exempt ☐ Not Started ☐ Environmental Assessment ☐ EIS ☐ Record of Decision ☒ Unknown if Required
Permitting **(Select one)**	☐ Not Required ☒ Not started ☐ Identified ☐ Consultations Complete ☐ Application Submitted ☐ Complete ☐ Unknown if Required

PROJECT DESCRIPTION

Write a narrative briefly describing the project components and/or characteristics (Suggest ~ 300 words).

This pilot project would build knowledge regarding opportunities for direct recharge in the Yuba Subbasins. More specifically, it would inform a potential larger-scale project, which if needed, could capture more wet-winter flows or reduce losses from transfers. This pilot effort would focus on the central South Yuba Subbasin where groundwater levels are slower to recover.

The pilot project would have multiple phases: 1) feasibility study, 2) permitting, and 3) construction. These phases could be implemented as one project or split into separate efforts. The primary implementation effort of the project would be to use a turn-out from a canal to feed a dry well or pressurized well in order to recharge water below surficial clays. Treatment needs would be determined based on the recharge method. Permits are expected to be required from Yuba County for the recharge well, either dry well or pressurized well.

PROJECT RATIONALE/ISSUES STATEMENT

Briefly describe the need for the project and the desired outcomes/deliverables (Suggest ~ 200 words). Include an explanation of benefits and how they would be evaluated.

The Yuba Subbasins have few opportunities for direct recharge due to the shallow clays that make the region ideal for growing rice. Aquifer Storage and Recovery (ASR) allows for recharge below these clays, either through pressured injection through wells or passive flow through dry wells. These mechanisms allow for recharge during winter and during wet years when water is available in excess of agricultural demands. The additional water supplies could support sustainable water supplies, ecosystems, or streamflow and would contribute to a more resilient water supply in the face of climate change and drought. This project would build upon projects recently completed or in progress in Westlands Water District, Eastside Water District, Sacramento Area Flood Control District, Merced Irrigation District, and others.

The project benefits would be evaluated as a volume of recharged groundwater. The ultimate use of that recharged groundwater would be considered in the feasibility phase of the project.

ATTACHMENTS:

None