

Yuba IRWMP – NYWD-02

Project Short Form¹

Please fill out the following information to the best of your ability/knowledge. Once the project has been received and a preliminary review completed, the project team will work with you to develop additional information.

Project Sponsor Contact Information

Lead Agency/Organization	North Yuba Water District (NYWD)
Name of Primary Contact(s)	Jeff Maupin, General Manager
Mailing Address	PO Box 299, Brownsville, CA 95919
Email Address	jmaupin@nywd.org
Phone (###) ###-####	530-675-2567
Project Partners/Collaborators	

General Project Information

Project Title	Dobbins Oregon House Canal Improvement Project
Project Total Budget, based on current knowledge	\$6,778,000
Project Funding Match, if any	0% - Disadvantaged Community
Total Project Funding Request	\$6,778,000
Can a detailed cost estimate be provided upon request?	Yes
Project Location (map if available)	Yuba County foothills
City/Community	Brownsville, Frenchtown, Dobbins and Oregon House
Watershed/subwatershed	Project is located in the Yuba river Watershed, but project water is diverted from the Feather River.
Groundwater Basin	Hard Rock Aquifer
Project Type (highlight in gray all that apply)	Conceptual Feasibility Study Study/Assessment Planning Engineering/Design Permitting CEQA/NEPA Facility Construction Restoration Monitoring Best Management Practices Acquisition Demonstration/Pilot Project

¹ Completed Project Short Forms should be sent via email to Katie Burdick at admin@burdico.net **and** Elizabeth Herrera at Elizabeth.herrera@fishsciences.net

Project Description

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

The North Yuba Water District currently diverts 3,840 acre-feet per year for use for agricultural water supply to its customers in Butte and Yuba Counties. The agricultural water is supplied primarily through the Dobbins Oregon House Canal, a 17-mile hillside canal with four piped inverted siphons, providing water to the Disadvantaged Communities in the vicinity of Brownsville, Frenchtown, Dobbins and Oregon House.

The existing canal is deteriorated and experiences significant water losses. The canal has reaches where weed removal and annual maintenance requirements has resulted in reduced bank height and reduced freeboard, and reaches where flows are slow, contributing to the high-water losses of the system, which average approximately 60%. The project will improve the existing diversion structure and rehabilitate portions of the canal to reduce water losses by 50%. It will also increase the diversion capacity and capacity of the canal, with a decrease in water loss, allowing for an increase in agricultural water supplied to customers.

The project will include the following upgrades:

1. Diversion Structure Improvements – Increase diversion structure capacity.
2. Canal Restoration - Removal of debris accumulation including sediments, plant growth and reshaping approximately 20% of the canal length to restore the canal cross section and minimum freeboard.
3. Canal Improvements – Identification of segments of the canal with the highest water losses and identification of methods for minimizing water loss including consideration of which portions will be lined or piped. It is assumed that mitigating actions will result in a reduction in water losses to 30% of the diversion. Initial consideration assumed that 30% of the canal invert and 60% of the canal wall will be lined.
4. Siphon Replacement – Replacement of the four siphons to improve siphon condition and increase siphon capacity to match the restored canal capacity.

I. Project Rationale/Issues Statement

Briefly describe the need for the project and the desired outcomes/deliverables (maximum of 200 words).

The project addresses three (3) identified issues in the Region. How each issue is addressed is described below.

1. Infrastructure: This project will rehabilitate a 17-mile agricultural supply canal to provide an adequate and reliable water supply to the District's customers.
2. Water Use Efficiency/Water Conservation: Currently the ditch loses approximately 60% of the water delivered to the diversion structure. These losses include seepage from the ditch, surge flows that are unable to be used and are passed downstream in the ditch, spills caused by failures of the ditch banks or other facility failures. This is expected to be reduced to 30% after ditch improvements.

3. Climate Change: This project responds to projected climate change impacts on water supply reliability.