

Yuba IRWMP – WTLD 07-08

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	City of Wheatland
Name of Primary Contact(s)	Dane Schilling, City Engineer
Mailing Address	111 C Street, Wheatland, CA
Email Address	schilling@coastlandcivil.com
Phone (###) ###-####	530-633-2761
Project Partners/Collaborators	N/A

General Project Information

Project Title	Wheatland Comprehensive Water Project - WTLD-07 and WTLD-08
Project Total Budget, based on current knowledge	\$995,000
Project Funding Match, if any	
Total Project Funding Request	\$995,000
Can a detailed cost estimate be provided upon request?	
Project Location (map if available)	
City/Community	Wheatland, CA
Watershed/subwatershed	
Groundwater Basin	
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 City currently operates aging infrastructure - some components are as old as the City. The project would address system-wide issues in these three areas:

- **RELIABLE WATER SYSTEM:** New ground mounted pressure tanks, booster pumps and associated SCADA upgrades will provide reliable water pressure supply to the entire City and eliminate reliance on the old elevated tank. Old pumps & motors will be replaced with variable frequency drive (VFD) motors to reduce energy consumption.
- **WATER TOWER:** The tower will be removed from service, structurally rehabilitated and painted. It will be beautified to restore its status as a historic icon in the City and used for water awareness.
- **WATER ACCOUNTING:** System-wide water meter automation upgrades including AMI "radio reads", cell providers and associated operational & billing software. Updated software will improve water conservation and water efficiency because it will allow the City to detect and address leaks, and it will allow the City to automate data sharing with the Yuba Water Agency (YWA).

I. Project Rationale/Issues Statement

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

- The water tower has noticeable corrosion including bent and loose turnbuckles. The City completed a structural analysis of the tower in October 2010 that showed the tower cannot withstand 60% of the lateral force required by the California Building Code. Since that time, the City has operated the tower at reduced capacity to manage the risks associated with a seismic event.
- Failure of the tank would disrupt water service to the entire City because it is single-zone system.
- The current tank is operating under capacity due to its structural limitations. The proposed ground mounted hydro-pneumatic tanks, two booster pumps and associated SCADA upgrades will supply water pressure much more efficiently and reduce energy required to pressurize the system.
- The City has dated water meters and billing software, making it difficult to quickly and accurately detect leaks. Most leaks go undetected until after monthly reads resulting in substantial water loss. The system-wide water meter automation upgrades with associated software will improve water conservation and water use efficiency significantly.
- Automated data sharing of groundwater levels with YWA will benefit the entire sub-basin.