

Yuba IRWMP – BVID-04 Project Short Form¹

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	Browns Valley Irrigation District
Name of Primary Contact(s)	Kelly McNally
Mailing Address	PO Box 6, Browns Valley, CA 95918
Email Address	kelly@bvid.org
Phone (###) ###-####	(530) 743-5703
Project Partners/Collaborators	N/A
YWA Liaison	

GENERAL PROJECT INFORMATION

Project Title	Virginia Ranch Dam Hydro Efficiency Upgrade Project
Project Total Budget (Attach detailed budget, if available)	\$3,600,000
Budget Breakdown	Planning/Design Budget: Implementation Budget: \$3,600,000
Project Funding Match, if any	Unknown
Total Project Funding Need	\$3,600,000
Project Location (Attach map if available)	
Watershed/subwatershed	Yuba River/Dry Creek
Groundwater Basin (Select one)	<input checked="" type="checkbox"/> North Yuba Subbasin <input type="checkbox"/> South Yuba Subbasin <input type="checkbox"/> Not Applicable
Supports Yuba Groundwater Sustainability Plan (GSP)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Measurable Objective(s) Benefit (Answer If 'Yes' above) (check <i>all</i> that apply)	<input type="checkbox"/> Chronic lowering of groundwater levels <input type="checkbox"/> Reduction of groundwater storage <input type="checkbox"/> Degraded water quality <input type="checkbox"/> Land subsidence <input type="checkbox"/> Depletions of interconnected surface waters
Project Priority (Select one)	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Project Type (check <i>all</i> that apply)	<input type="checkbox"/> Conceptual <input type="checkbox"/> Feasibility Study <input type="checkbox"/> Study/Assessment <input type="checkbox"/> Planning <input checked="" type="checkbox"/> Engineering/Design <input type="checkbox"/> Permitting <input type="checkbox"/> CEQA/NEPA <input checked="" type="checkbox"/> Facility Construction

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

	<input type="checkbox"/> Restoration <input type="checkbox"/> Monitoring <input type="checkbox"/> Best Management Practices <input type="checkbox"/> Acquisition <input type="checkbox"/> Demonstration/Pilot Project
Legal Authority	

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

CEQA (Select one)	<input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Not Started <input type="checkbox"/> Initial Study <input type="checkbox"/> EIR <input type="checkbox"/> Determination <input type="checkbox"/> Unknown if Required
NEPA (Select one)	<input checked="" type="checkbox"/> Exempt if Required <input type="checkbox"/> Not Started <input type="checkbox"/> Environmental Assessment <input type="checkbox"/> EIS <input type="checkbox"/> Record of Decision <input type="checkbox"/> Unknown
Permitting (Select one)	<input type="checkbox"/> Not Required <input type="checkbox"/> Not started <input type="checkbox"/> Identified <input type="checkbox"/> Consultations Complete <input type="checkbox"/> Application Submitted <input type="checkbox"/> Complete <input checked="" type="checkbox"/> Unknown if Required

PROJECT DESCRIPTION

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

The project would include the design and purchase of a new and more efficient turbine, generator and switchgear package for the Virginia Ranch Dam Hydroelectric Project. Virginia Ranch Dam was constructed in 1963 and in 1983, the dam was modified to allow for hydroelectric generation. The powerhouse includes two (945 Kw and 50Kw) Francis turbine hydroelectric generators with a net output of 1,040 Kw and has been in operation since it was installed in 1984. The proposal is to replace the outdated and inefficient 945Kw equipment with more energy efficient and reliable Canyon Hydro Francis turbine, generator, hydraulic power unit and low voltage switchgear. The estimate also includes removal of the existing equipment, installation of the new equipment and a new generator, governor and switchgear for the small 50Kw unit.

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 Virginia Ranch Dam (VRD) has been in operation since 1984, and the current hydroelectric equipment was manufactured by Hangzhou Electrical Equipment Works in the People’s Republic of China. The 38-year-old system is requiring more maintenance and the periods of when the powerhouse is off-line are becoming longer and more frequent due to the increased difficulty of finding parts. The rationale behind the Virginia Ranch Dam Hydro Efficiency Project would be to improve efficiency of VRD, improve grid resiliency, and continue to provide emission-free electricity.