

Enterprize Canal Company LTD County Line Dive Project:
Area survey and structure planning to increase delivery efficiency and
conserve water

FOA No. R22AS00105 Columbia-Pacific Northwest Region
CATEGORY: Water Management Improvement Design

APPLICANT:

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Background.

We are located in the Columbia Plateau, or the Columbia Intermontane region, in southeast Idaho. The Enterprize Canal began operating circa 1910 to provide water to citizens and farms in the Bonneville and Jefferson counties in Idaho. The head of the canal feeds directly from the Snake River near the Heise area at the base of the Rocky Mountain foothills. The Enterprize Canal borders the city of Ririe, ID in some places, and otherwise is about 1 or 2 miles away from Ririe.

Over the last several years we have put great effort into improving our canal and improving its efficiency. We have used GPS to re-level several miles of the base of the canal as well as straighten and fortify the banks. We are continuing with this project in addition to adding automated headgates in several needed areas (gratefully made possible by a WaterSmart grant).

We have several improvement projects in the works but we are always on the lookout for ways to make our canal more efficient in both water usage and delivery speed. As new technology is introduced, we are eager to implement these systems in our operation.



Technical Description.

One area which has been problematic for many years now is a dive spot near a diversion. The water moves so quickly through this area that it bypasses the diversion point. In order to get sufficient water down the canal before it hits the dive, we have to push more water through which ultimately accomplishes the purpose of more water down the canal before it hits the dive. It works great when trying to get rid of water, but the expense is wasted water. It's just way too

much water too soon in the season. If we could slow the flow down to efficiently divert the water it would conserve approximately 5100 inches of water as well as reduce strain on the structure and canal banks.

We don't know exactly what we need for this problem area, but we are considering a bladder dam, an automated telemetry headgate, and whatever other structures might be recommended to us by our engineer or the Bureau of Reclamation. Below is a picture of the structure in need of improvement. The dive diverts the water under the road and under an intersecting canal before resurfacing on the other side.



We have been working with our regional Bureau of Reclamation officials closely for the last couple of years as we try to improve our canal's efficiency and conserve more water. We do have a water conservation plan that we are working to update and expand. Our canal is located in a desert region and many of the years over the last several decades have been drought years. Climate change seems to have made our water supply increasingly unpredictable. As water is critical to the livelihood of so many of our patrons and other people in the valley, we have sought and continue to seek to conserve water where we can.

As mentioned earlier, we are in the process of installing several automated headgates upstream from this problematic dive. We are installing these headgates with funds granted to us from a WaterSmart grant. Although we have yet to see the conservation from these structures (as our

water season has not quite begun) we are confident that we will see the benefits from having them. If we could improve this dive structure, we feel that the conservation from the headgates combined with this structure would be huge.

Project Schedule.

We anticipate this project taking approximately 5 months or less to compete. Since we have identified the problem area, we will just need to have that location properly surveyed and engineered. Our expected schedule is outlined below.

DATE	FOCUS	Tasks
July	Contracting	Obtain quotes from local engineering firms
August	Surveying	Commit to a firm and begin surveying
September	Engineering	Obtain engineering services from same firm
October	Solution Structure	Obtain plans for potential solution structures
November	Finalize plan	Select solution structure and obtain pricing quotes

Budget Narrative.

We anticipate the cost for complete surveying and engineering for this project will cost approximately \$18,000. We have based this cost off of a quote from a neighboring canal that had a similarly scoped project. The surveying and engineering will include:

- A topographic survey of the proposed area for the improved structure with elevation control design
- Final designs and specifications for construction for the selected solution structure

We estimate that the cost for potential structure mockups in addition to the above engineering will cost \$4500 per structure. Each mockup will include:

- Design drawings for the potential structure
- Pros and cons for each structure in the specified location
- Engineering estimates for construction costs for each structure

Item	Rate	Units	Totals
Area Survey and Engineering	\$18,000	1	\$18,000
Potential Structure Mockup	\$4500	3	\$13,500
Total Cost			\$31,500

With our total estimates listed above, we are requesting a total of \$15,750 in federal grants funds while we provide the remaining \$15,750 from our own funds. We receive an annual assessment of \$60,000 and we have some funds available from our lease contracts. We are confident that we

can easily meet the 50% cost share requirement. Additionally we know we are responsible to cover any additional funds accrued during this project. Below is the table with the requested funds and our own funds displayed in proper cost-sharing amount.

Funds Allocated	Total	Percentage
Federal Funds Requested	\$15,750	50%
Enterprize Funds Contributed	\$15,750	50%
Total Cost	\$31,500	100%

Official Resolution.

ENTERPRIZE CANAL COMPANY LTD
OFFICIAL RESOLUTION NO. 2022-002

We, the Chairman of the Board of Directors, Board Member and Project Manager, and Secretary of the Enterprize Canal Company LTD authorize the submission of this grant proposal to be submitted to the U.S. Bureau of Reclamation for consideration for the Water Conservation Field Services Program: Financial Assistance for Fiscal Year 2022 Funding Opportunity Announcement No. R22AS00105.

We hereby declare that, if selected for FOAN R22AS00105, we will provide the required funding and in-kind contributions specified in our funding plan. We agree to work with the U.S. Bureau of Reclamation to meet all the established deadlines.

This resolution was discussed and unanimously adopted during a board meeting of the Board of Directors of the Enterprize Canal Company LTD on April 27, 2022. This resolution was signed and declared by the participating individuals on April 28, 2022.

Harold Jones — Chairman of the Board

Darrel Ker — Board Member and Project Manager

Utona Garcia — Secretary

Conflict of Interest Disclosure.

- A. *Applicability.* No actual or potential conflicts of interest have been identified in our organization.
- B. *Notification.* Should any conflict of interest arise, the Enterprize Canal Company LTD shall notify the DOI awarding agency or pass-through entity.
- C. *Restrictions on lobbying.* We do not participate in lobbying activities.
- D. *Review procedures.* Should a conflict of interest arise, we agree to work with the proper officials to resolve the conflict(s).
- E. *Enforcement.* We understand the enforcement consequences should we choose not to comply or cannot agree on a way to resolve the conflict of interest.