WaterSMART

Small-Scale Water Efficiency Projects for FY 2024

Funding Opportunity No. **R24AS00059**

Salmon River Canal Company
Piping Lateral 1723 and Lateral 12 Automation

Twin Falls, Idaho

Salmon River Canal Company

John Shetler, General Manager

2700 Highway 93; Twin Falls, ID 83301

Phone: 208-655-4220

January 10, 2024

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Executive Summary

Date: Application due date: January 16, 2024

Applicant: Salmon River Canal Company
Twin Falls, Idaho. Twin Falls County

Project Title: Piping Lateral 1723 and Lateral 12 Automation

Project Summary:

For several years Salmon River Canal Company has been in the process of converting canals to pipeline and installing meters at farmer turnouts for improved efficiency and water conservation. Electromagnetic meters installed will also comply with East Snake Plain Aquifer (ESPA) regulations set forth by the Idaho Department of Water Resources (IDWR).

Salmon River will make use of district and Bureau funds to install 9,170 linear feet of pipeline and meter turnouts for Lateral 1723 and install headgate automation on Lateral 12 in Salmon River Canal Company. SRCC will contract with a pipe supplier and meter manufacturer for the purchase and installation of electromagnetic meters for Lateral 1723 that will satisfy state regulations as well as the district's water measurement and data needs. SRCC will also work with a contractor for purchase and installation of an automated gate for Lateral 12.

Approximate Length: Two Years

Completion Date: May 15, 2026

Background Data

Salmon River Canal Company:

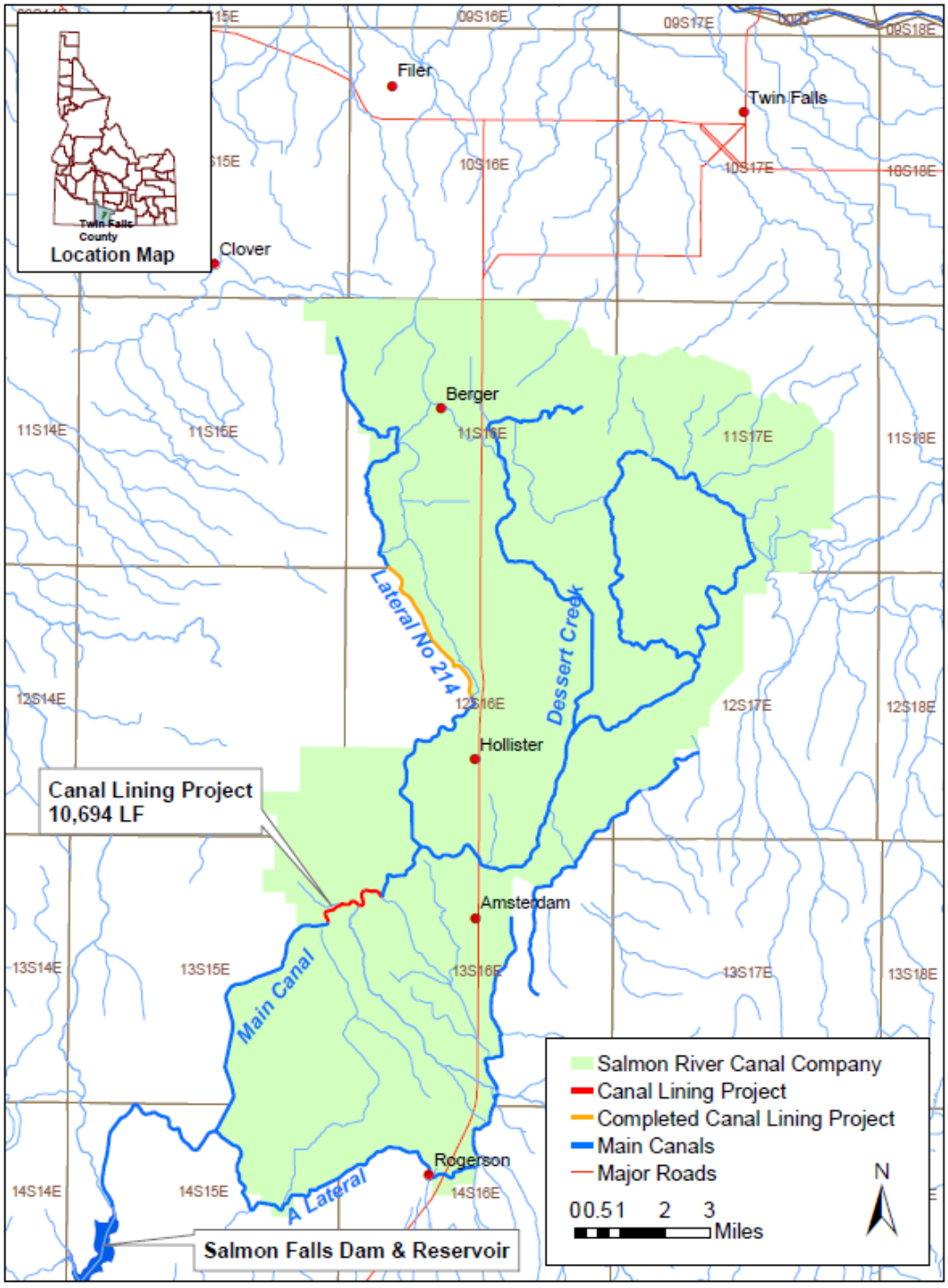
The Canal Company was formed in 1910 to operate the Salmon Falls Dam and Reservoir. The Canal Company is a non-profit company and has 169 shareholders, who hold a total of 60,050.65 shares. The Canal Company's primary purpose is to deliver irrigation water to its shareholders on the irrigation project known as the Salmon Tract. The Salmon Tract is located south of Twin Falls, Idaho, and is known for its fertile soils and excellent crops. Primary crops grown are hay, beans, grains, and corn under a combination of pivots, sprinklers, and gravity irrigation systems.

Salmon Falls Dam is a concrete gravity arch dam 223.5 feet high with a crest length of 450 feet and is owned and operated by the Canal Company. When full, the reservoir has an area of about 3,400 acres and a length of approximately 15 miles. The main purpose of Salmon Falls Dam is for irrigation storage; additional benefits are derived from recreation.

The water conserved by constructing the project will be used to satisfy existing irrigation demands in the northern part of the Canal Company system. The Canal Company serves approximately 35,000 irrigated acres. The Canal Company has not expanded beyond historical service area boundaries and has no intentions to expand.

Project Location

Figure 1- Regional Map (Salmon River Canal Company)



Technical Project Description and Milestones

Salmon River Canal Company (SRCC) plans to convert the open canal for Lateral 1723 to closed pipeline with meters to improve measurement and delivery of surface water within the district with assistance from the WaterSMART Small-Scale Water Efficiency Grant. SRCC owns and operates canals and pipelines which in turn provides irrigation water to approximately 35,000 acres in the district.

The proposed project will convert a canal to pipeline, install electromagnetic meters with no moving parts with datalogging capabilities, and install one automated gate on another lateral. The new meters will also be telemetry-capable if the canal company decides to deploy remote telemetry. Accurate meters with datalogging capabilities will improve water use records at SRCC. The district is proposing to install 9,170 feet of pipeline on Lateral 1723 with electromagnetic meters and an automated gate on Lateral 12 in the next two years. The meters planned to be installed will be the McCrometer DuraMag electromagnetic meter. The DuraMag is a battery-powered flanged full-bore electromagnetic meter. These meters will provide operational advantages to the district as well as improving data collected for water management in the ESPA.

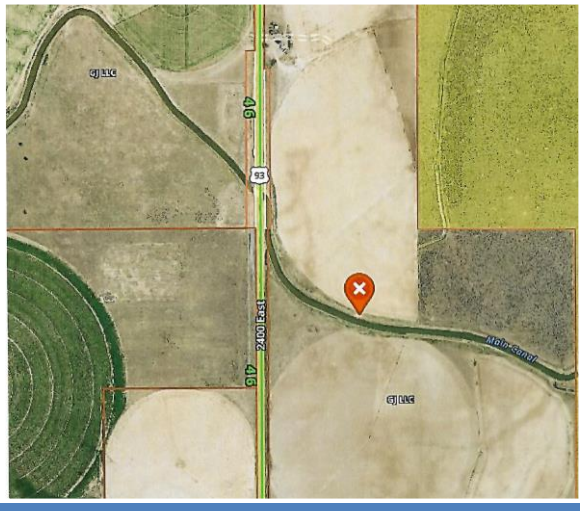
Project Maps

Lateral 1723 Pipeline

The map to the right represents the location of the new buried pipeline for Lateral 1723. The red lines indicate the location of the new buried pipeline while the blue lines represent **2.75 miles** of open ditch laterals that will be eliminated by this project improving not only delivery efficiency, but also safety in the district.

Lateral 12 Automated Gate

The map to the right represents the location of the proposed automated gate on Lateral 12 that will improve deliveries by reducing spills and making releases into Lateral 12 controlled remotely rather than manually as they are currently done.



Upon the successful award of this proposal, equipment will be ordered in winter of 2024/25 and 2025/26 for installation during the off-season of each respective year.

Evaluation Criteria

Evaluation Criterion (A)- Project Benefits: *Up to **35 points** may be awarded based upon evaluation of the benefits that are expected to result from implementing the proposed project. This criterion considers a variety of project benefits, including the significance of the anticipated water management benefits and the public benefits of the project. This criterion prioritizes projects that modernize existing infrastructure in order to address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflict in the region.*

Benefits to the Category A Applicant's Water Delivery System: *Describe the expected benefits to the Category A applicant's water delivery system. Address the following: Clearly explain the anticipated water management benefits to the Category A applicant's water supply delivery system and water customers.*

- *Will the project result in more efficient management of the water supply?*

Yes. The installation of the pipeline will eliminate water losses due to seepage from the canal along Lateral 1723. New meters installed along the new pipeline on Lateral 1723 will enable the district to deliver water to patrons at a rate commensurate with the operators shares. This will not only improve the efficiency at which SRCC delivers water, but also a more equitable distribution across the district. The addition of an automate gate on Lateral 12 will have the benefit of automatic control of water along that canal since currently ditchriders must travel to the gate and manually open and close the gate to control water deliveries.

- *Where any conserved water as a result of the project will go and how it will be used?*

Conserved water will remain in the reservoir behind Salmon Falls Dam for future use in times of shortage for all water users. This will also benefit wildlife conservation since fish, waterfowl, and terrestrial wildlife that utilize the reservoir for habitat will be supported through improved storage in the lake.

Explain the significance of the anticipated water management benefits for the Category A applicant's water delivery system and customers. Consider:

- *Are customers not currently getting their full water right at certain times of year?*

No. This project is necessary in SRCC to accurately appropriate water in current and future drought conditions. Installation of pipeline with meters will improve the delivery efficiency of water within the district by eliminating seepage losses and easing the delivery of water to its patrons. The performance of the meters installed in the field and the accuracy of the data received from the meters will improve water management in the district as well. More accurate readings will improve the distribution of water across the district and ensure that shareholders are receiving the amount of water to which they are entitled.

The automated gate at Lateral 12 will improve deliveries by reducing spills and making releases into Lateral 12 controlled remotely rather than manually as they are currently done. Ditchriders now must travel to the gate and physically open or close the gate which may delay deliveries or cause spills which either restricts use or wastes water. The automated gate will help to ensure that customers will receive their water rights on Lateral 12.

- *Does this project have the potential to prevent lawsuits or water calls?*

Yes. The metered allocation system that the SRCC Board has implemented has safeguards in place to prevent shareholders from taking more water than their share. SRCC plans to avoid situations such as this with the adoption of more accurate meters that will ensure accurate measurement of deliveries.

- *What are the consequences of not making the improvement?*

The consequences of not installing the pipeline on Lateral 1723 will be that the seepage losses along 2.75 miles of canal will continue to occur, and deliveries will not be made accurately without meters being installed. Uniformity of water deliveries in SRCC will be sacrificed without these improvements. Eliminating **2.75 miles** of open ditch would also improve safety concerns in the district.

Without this project controlling the gate at Lateral 12 will remain manual and inefficiencies will occur by causing ditchriders to physically travel to the gate and manually open or close the gate.

- *Are customer water restrictions currently required?*

Yes. The water deliveries in the SRCC requires the installation of meters prior to a water user taking water according to their shares. The installation of accurate and reliable meters is important to the enforcement of water regulation enforced by the Idaho Department of Water Resources.

The meters that are proposed to be installed have an accuracy of +/- 1% compared to the expected accuracy of 5% for mechanical propeller meters used in other portions of the district. This improved measurement will provide for better accuracy for water delivery to patrons of the SRCC. Greater accuracy of water measurement will improve accuracy of water delivery in the district and will reduce inefficiencies of over deliveries.

Improvements in technology will also be realized with the implementation of the new meters. Each of the meters installed will be equipped with internal dataloggers as a standard feature. These internal dataloggers will allow ditch riders to download time-stamped digital records of water pumped or delivered within specified time intervals. This is an improvement of water deliveries for internal purposes such as billing or pumping records for reporting purposes under state requirements.

Electromagnetic meters are also telemetry-ready in case SRCC decides to deploy remote telemetry units for meter reading or other water management sensors in the future which will further the water management efficiencies of the district.

- *Other significant concerns that support the need for the project.*

Since SRCC delivers water to its patrons by volume, the new meters will provide more accurate flow measurements to ensure that the amount delivered is correct. On-farm water management and distribution will improve throughout the district. These meters are more conducive to provide signal outputs for center pivots or other irrigation systems in the district. Farmers will

also be able to quantify the amount of water being used for on-farm irrigation management purposes.

This project supports the continuation of irrigated agriculture in the Snake River Valley and the State of Idaho. The nation continues to depend on agricultural production in the State of Idaho which is even more important now in times of supply chain issues. Lower agricultural production could lead to a scarcity in food resources for the State of Idaho and the nation as a whole.

Broader Benefits: *Describe the broader benefits that are expected to occur as a result of the project. Consider:*

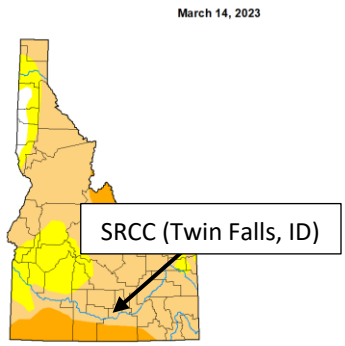
- *Will the proposed project increase collaboration and information sharing among water managers in the region? Please explain.*

Yes. This project will streamline the time expended by SRCC staff by allowing them to spend their time on activities that are vital to the delivery of water to shareholders of the district rather than managing water deliveries in open canals with manual gates. The new pipeline, meters, and automated gate will allow for more expedient water deliveries and collection of water use data for individual members of the district and improve their administration of water allocations and deliveries in SRCC.

The new meters proposed are well-suited to surface water measurement. The short installation distance capable for these electromagnetic meters is conducive to water measurement in SRCC with limited distance between turnouts and existing underground pipelines. These meters also have no moving parts and consequently will not stop due to mechanical wear and tear from surface water with sand and sediment. Standard equipment for the new meters also includes an internal datalogger which the district can use for recording water deliveries to patrons during the irrigation season. The datalogging feature will enable the district to improve data collection on water use in the Snake River Basin consistent with the Idaho State Water Plan.

- *Is the project in an area that is experiencing, or recently experienced, drought or water scarcity? Will the project help address drought conditions at the sub-basin or basin scale? Please explain.*

Yes. SRCC has experienced significant drought as recent as within the past year which brought about the need for improvements including the installation of pipeline, meters, and automated gates. for accurate water deliveries within SRCC. These improvements will allow for accurate and dependable deliveries of water for individual members of the district and improve the administration of water allocations by SRCC staff.



Even though recent rain and snow in 2023 have alleviated the drought in much of Idaho. The entire state was experiencing drought within the past year as seen in the figure to the left from the U.S. Drought Monitor. The area where SRCC lies was in Severe Drought at the beginning of 2023. This project will enable the improved management of water in the district now as well as when the next drought occurs.

- *Will the project benefit species (e.g., federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance)? Please explain.*

No known environmental resources of special value occur, including rivers, streams, lakes, fisheries, threatened plant and animal communities, spawning grounds, or flyways within the SRCC. Nonetheless, precautions will be taken to ensure that impacts to natural resources will be minimized throughout this project.

- *Will the proposed project positively impacts/benefit various sectors and economies within the applicable geographic area (e.g., impacts to agriculture, environment, recreation, and tourism)? Please explain.*

Yes. The improved administration of water allocations to district shareholders will more evenly distribute water across the district and allow SRCC to deliver more to more of its shareholders especially in times of drought since water deliveries will be more accurate and over-deliveries significantly reduced. Accurate and dependable deliveries will support agricultural production in the Snake River Valley which will support the local agricultural economy and related industries that depend on agriculture.

This project will support improved surface water management as well as more uniform water distribution across the district which will mean that more fields will be watered more effectively for better productivity. This in turn will prevent less waste of water resources and conserves water for downstream uses.

- *Will the project complement work being done in coordination with NRCS in the area (e.g., the area with a direct connection to the districts water supply)? Please explain.*

New meters also have pulse-output capability in case farmers want to integrate flow meter data into their irrigation system. Having meters at individual turnouts will facilitate EQIP applications for such practices as soil moisture monitoring, surge valves, pivot nozzle conversions, etc.

Evaluation Criterion (B) Planning Efforts Supporting the Project: *Up to **35 points** may be awarded based on the extent to which the proposed on-the-ground project is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review (SOR), or identified as part of another planning effort led by the applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs.*

***Plan Description and Objectives:** Is your project supported by a specific planning document or effort? If so, describe the existing plan. When was the plan developed? What is the purpose and objective of the plan?*

Yes, SRCC is bound by the *Idaho State Water Plan* which was adopted in November, 2012. The objectives of the State Water Plan are formulated for the conservation, development, management, and optimum use of all unappropriated water resources and waterways of this state in the public interest pursuant to Idaho Code §42-1734A. The first and foremost of these objectives is **Water Management** which encourages the **quantification** of water supplies, water uses, and water demands for all water rights within the state. This encourages integrated, coordinated, and adaptable water resource management and the prudent stewardship of water resources.

Plan Development: *Who developed the planning effort? What is the geographic scope of the plan? If the planning effort was not developed by the Category A applicant, describe the Category A applicant's involvement in developing the planning effort.*

The Idaho Comprehensive State Water Plan (Plan) was developed by the Idaho Water Resources Board to guide the development, management, and use of the state's water and related resources. The wise use and management of the state's water is critical to the state's economy and to the welfare of its citizens. The Plan seeks to ensure that through cooperation, conservation, and good management, future conflicts will be minimized, and the optimum use of the state's water resources will benefit the citizens of Idaho. The Plan is subject to change so as to be responsive to new opportunities and needs.

Support for the Project: *Describe to what extend the proposed project is supported by the identified plan. Address the following:*

- *Is the project identified specifically by name and location in the planning effort?*

While not mentioned specifically by name and location in the planning effort by the *Idaho State Water Plan*, this project is wholly consistent with the planning effort and is a direct result of the planning efforts of the *Idaho State Water Plan* for conservation of water.

- *Is this type of project identified in the planning effort?*

Yes. Section 2A, *Water Use Efficiency* of the *Idaho State Water Plan* states that water conservation and water use efficiency is to be promoted within the state. Idaho Code §42-250(1) determined that voluntary water conservation practices and projects can advance the policy of the state to promote and encourage conservation, development, augmentation, and utilization of Idaho's water resources. "Water conservation practice" means any practice, improvement, project, or management program that results in the diversion of less than the authorized quantity of water while maintaining the full beneficial use(s) of the water right. Idaho Code § 42-250(2). Water conservation practices include, but are not limited to, practices that reduce consumptive use as defined in Idaho Code § 42-220B, reductions in conveyance losses, and reductions in surface and seepage losses occurring at the place of use.

- *Explain whether the proposed project implements a goal, objective, or addresses a need or problem identified in the existing planning effort.*

Section 1H of the *Idaho State Water Plan, Quantification and Measurement of Water Resources*, states that "Quantification and Measurement of Idaho's water supply and use is essential for sound water resource planning, management, and administration". The Director of the Department is required to maintain an inventory of the state's water resources pursuant to Idaho Code §42-1815. The measurement of water availability and use is necessary to administer and regulate existing water uses and to promote optimal water resource planning and management. In addition, Chapters 6 and 7, Title 42, Idaho Code, provide for water use measurement and reporting throughout the state. Implementation strategies for this objective include: assessing existing measurement network and facilities and developing plans for improving data collection and reporting, prioritizing projects for conversion to automated electronic data collection and reporting systems, and providing technical assistance and participating in securing funding for improved measurement and reporting systems.

Water measurements will be taken at a higher degree of accuracy than the propeller meters used previously and will also aid in the implementation of technology such as datalogging water deliveries or remote meter monitoring. This project is consistent with the *Idaho State Water Plan* with respect to each of the above-mentioned objectives and implementation strategies.

- *Explain how the proposed project has been determined as a priority in the existing planning opposed to other potential projects/measures.*

The proposed project complements SRCC's existing FY'19 Water and Energy Efficiency Grant application for canal lining in the district as well as the FY"21 Small-Scale Water Efficiency grant for upgrading meters at farmer turnouts. Surface water will be delivered more efficiently within the district as a result of this project. The next step will be to better quantify deliveries for more accurate water deliveries with improved water measurement at farm turnouts. Consequently, the SRCC Board has voted at previous meetings to dedicate funding for pipeline projects and metering at district turnouts to improve delivery of water in the district.

Despite SRCC's long history of surface water measurement with mechanical propeller meters, the IDWR is enforcing the ESPA measurement order to the SRCC as well as other districts in the basin. In addition, the SRCC Board has prioritized the conversion of open ditches to closed pipeline in the district for improved delivery efficiency. The SRCC Board of Directors has resolved at its **January 3, 2024** board meeting to pursue funding for pipeline conversion, meter installation, and gate automation and authorize staff to apply for the FY' 24 Small-Scale Water Efficiency grant to support this project.

Evaluation Criterion (C) Project Implementation and Results: *Up to **20 points** may be awarded based upon the extent to which the applicant is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.*

- *Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.*

January, 2024	Submit proposal to Bureau
June, 2024:	Successful notification of award from the Bureau
July, 2024:	Sign contract with the Bureau
Oct, 2024:	Initiate Environmental Compliance with local Bureau office. Determine adequate sizing of meters for meter order.
Nov, 2024:	Begin trenching for Pipeline 1723
	Install Automated Gate at Lateral 12.
	Purchase pipeline and meters from vendors
Jan/Feb, 2025:	Install pipeline and meters at farmer turnouts

Nov, 2025: Continue trenching for Pipeline 1723

Purchase pipeline and meters from vendors

Jan/Feb, 2026: Install pipeline and meters at farmer turnouts

May, 2026: Prepare Final Project Report for Bureau

• Proposals with a budget and budget narrative that provide a reasonable explanation of project costs will be prioritized under this criterion.

Please refer to Section D.2.2.3. for a detailed budget and budget narrative.

- *Describe any permits that will be required, along with the process for obtaining such permits.*

No permits will be required for this project.

- *Identify and describe any engineering or design work performed specifically in support of the proposed project. What level of engineering design is the project currently? If additional design is required, describe the planned process and timeline for completing the design.*

SRCC will complete the necessary design work for the diversion points and pipelines. SRCC has extensive experience completing similar projects and will complete the necessary designs for meter installation at each well for this project.

- *Does the applicant have access to the land or water source where the project is located? Has the applicant obtained any easements that are required for the project? If the applicant does not yet have permission to access the project location, describe the process and timeframe for obtaining such permission.*

All work will be performed within existing canal right-of-way.

- *Identify whether the applicant has contacted the local Reclamation office to discuss the potential environmental and cultural resource compliance requirements for the project and the associated costs. Has a line item been included in the budget for costs associated with compliance? If a contractor will need to complete some of the compliance activities, separate line items should be included in the budget for Reclamation's costs and the contractor's costs.*

SRCC staff have spoken with staff of the Bureau of Reclamation in Boise, Idaho. They are prepared to review our project and provide compliance costs, if or when the project is funded. The SRCC estimates the total Environmental compliance costs to be minimal since the project consists of mainly modification of existing systems.

Evaluation Criterion (D) Nexus to Reclamation: *Up to **5 points** may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including:*

- *Is the proposed project connected to a Reclamation project or activity? If so, how?*

Yes. The Salmon River Canal Company has been fortunate to receive funding from the Bureau of Reclamation in recent years for a Canal Lining Project from the Water and Energy Efficiency

Grant program in FY ’19 and a Small-Scale Water Efficiency Grant in FY’21. SRCC has proven effective in managing and implementing such projects.

This project is in the same basin as several irrigation companies including Twin Falls Canal Company. These canal companies divert water from the Snake River at Milner Dam. Many of these companies have storage rights in American Falls Reservoir and Jackson Lake which are both considered Reclamation projects and part of the Minidoka Project.

- *Does the applicant receive Reclamation project water? Is the project on Reclamation project lands or involving Reclamation facilities?*

The district includes BLM lands, but the Canal Company does not have storage rights in any Reclamation facilities; however, the Canal Company' s water conservation mission is consistent with the U.S. Department of the Interior's mission to stretch scarce water supplies and avoid conflicts over water.

- *If the applicant is not a Reclamation contractor, does the applicant receive Reclamation water through a Reclamation contractor or by any other contractual means?*

No. SRCC does not receive Reclamation project water through a Reclamation contractor or by other means. However, the Canal Company’s water conservation mission is consistent with the U.S. Department of the Interior’s mission to stretch scarce water supplies and avoid conflicts over water.

- *Will the proposed work benefit a Reclamation Project Area or activity?*

Yes. This project will conserve water and increase water efficiency for water provided by Reclamation projects within the Snake River Basin. This project is in the same basin as several irrigation companies including Twin Falls Canal Company. These canal companies divert water from the Snake River at Milner Dam. Many of these companies have storage rights in American Falls Reservoir and Jackson Lake which are both considered Reclamation projects and part of the Minidoka Project.

Evaluation Criterion E—Presidential and Department of the Interior Priorities (15 points)

Up to **15 points** may be awarded based on the extent that the project demonstrates support for the Biden-Harris Administration’s priorities, including E.O. 14008: *Tackling the Climate Crisis at Home and Abroad*, E.O. 13985: *Advancing Racial Equity and Support for Underserved Communities Through the Federal Government*, and the President’s memorandum, *Tribal Consultation and Strengthening Nation-to Nation Relationships.* Points will be allocated based on the degree to which the project supports the priorities listed, and whether the connection to the priority(ies) is well supported in the application. Without repeating benefits already described in previous criteria, describe in detail how the proposed project supports a priority(ies) below**.**

E.1.5.1. Sub-criterion No. E1. Climate Change

Points will be awarded based on the extent the project will reduce climate pollution; increase resilience to the impacts of climate change; protect public health; and conserve our lands, waters, oceans, and biodiversity. Address the following as relevant to your project.

Combating the Climate Crisis

E.O. 14008: *Tackling the Climate Crisis at Home and Abroad*, focuses on increasing resilience to climate change and supporting climate- resilient development. For additional information on the impacts of climate change throughout the western United States, see:

https://www.usbr.gov/climate/secure/docs/2021secure/2021SECUREReport.pdf. Please describe how the project will address climate change, including:

- *Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis.*

The proposed electromagnetic meters will be upgradable to remote telemetry. Once this project is completed, district water managers will have the ability to easily upgrade to remote meter reading through their existing SCADA system for water management, reducing overall vehicle use and reducing greenhouse gas emissions. With the reduction of mechanical propeller meters in the district, there will be a reduction in drive time between meter boxes while performing routine maintenance further reducing greenhouse gas emissions.

- *Does this proposed project strengthen water supply sustainability to increase resilience to climate change? Does the proposed project contribute to climate change resiliency in other ways not described above?*

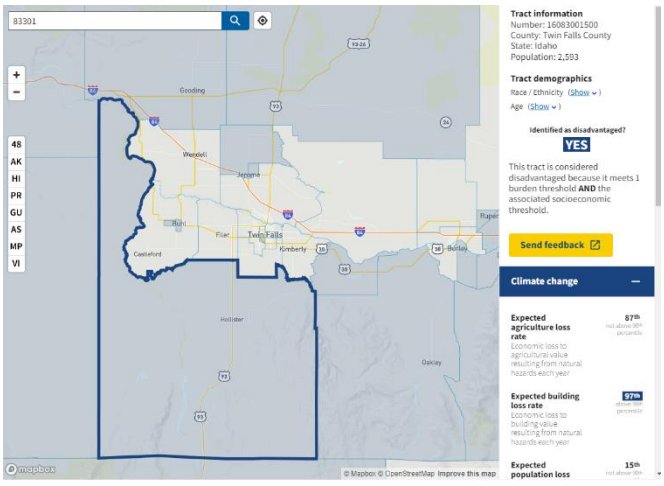
Yes. The proposed project will strengthen water supply sustainability by increasing water measuring efficiency and accuracy and reducing losses due to seepage from open ditches. The Snake River Basin is experiencing long-term drought. Climate changes are causing water shortages and lower than expected water yield within the basin. Responsible water management and accurate water accounting is critical to distribute the limited irrigation water resource properly.

E.1.5.2. Sub-criterion No. E2. Disadvantaged or Underserved Communities

E.O. 14008 and E.O. 13985 affirm the advancement of environmental justice and equity for all through the development and funding of programs to invest in disadvantaged or underserved communities. For the purpose of this criterion, Tribes and insular areas (Guam, American Samoa, the Northern Mariana Islands, and the Virgin Islands) are considered disadvantaged.

- *Please use the White House Council on Environmental Quality's interactive Climate and Economic Justice Screening Tool, available online at Explore the map – Climate & Economic Justice Screening Tool (https://screeningtool.geoplatform.gov) to identify any disadvantaged communities that will benefit from your project.*

Yes. The project area is located within Census Tract #16083001500) which is considered disadvantaged according to the Climate and Economic Justice Screening Tool. (https://screeningtool.geoplatform.gov) Moreover, tract #16083001500 is in the 87th percentile for Economic loss due to agricultural value resulting from natural hazards each year.



Yes. 2022 data from the U.S. Census Bureau reports that the annual median household income for the State of Idaho is $70,214. The median annual income for $61,183 Twin Falls County

where SRCC is located is less than the statewide annual median household level as shown in the table below:

SRCC County	2022 Median Household Income
Twin Falls	$61,183.00

Section 1015 of the Cooperative Watershed Act defines a disadvantaged community as one with an annual median household income that is less than 100 percent of the State's statewide annual median household income. Consequently, both counties in the project area meet the criteria for a disadvantaged community. (https://data.census.gov)

- *If applicable, describe how the project benefits those disadvantaged or underserved communities identified using the tool. For example, does the project increase reliability of water supplies, improve water quality, provide economic growth opportunities, improve or expand public access to natural areas or recreation, or provide other benefits in a disadvantaged or underserved community?*

Agricultural operators in the Salmon River Canal Company have experienced narrow profit margins for several years for many of the commodities that they produce. Despite recent increases in agriculture commodity prices such as corn, soybeans, and beef, profit margins remain to be narrow because of increasing input prices for fuel, fertilizer, herbicides/pesticides, and seeds. More efficient water measurement and data access will reduce spills and over-deliveries and expand the water supply, leaving more water to be used by these farms to generate income. The benefits of irrigation have a direct effect on yields to the benefits of these disadvantaged farmers.

E.1.5.3. Sub-criterion No. E.3. Tribal Benefits

Points will be awarded based on the extent to which the Project will honor the Federal government's commitments to Tribal Nations. The Department of the Interior is committed to strengthening Tribal sovereignty and the fulfillment of Federal Tribal trust responsibilities. The President's memorandum, "Tribal Consultation and Strengthening Nation-to-Nation Relationships," asserts the importance of honoring the Federal government's commitments to Tribal Nations.

- *Does the proposed project directly serve and/or benefit a Tribe? Will the project improve water management for a Tribe?*

No tribes are located within the Salmon River Canal Company Project area.

- *Does the proposed project support Tribal resilience to climate change and drought impacts or provide other Tribal benefits such as improved public health and safety by addressing water quality, new water supplies, or economic growth opportunities?*

No tribes are located within the Salmon River Canal Company Project area.

- *Does the proposed project support Reclamation's Tribal trust responsibilities or a Reclamation activity with a Tribe?*

Although no tribes are located within the Salmon River Canal Company. This project is not inconsistent with Reclamation's Tribal trust responsibilities including:

- Making Reclamation's programs available to Indian tribes.
- Improving on-the-ground water infrastructure to promote Tribal economic development, and municipal and industrial water development.
- Developing and using innovative methods or systems to serve the water needs of small communities and villages.

D.2.2.3. Project Budget and Narrative

Project Budget

Table 1 - Total Project Cost Table

Funding Sources	% of Total Project Cost	Total Cost by Source
Costs to be reimbursed with the requested federal funding	45.6%	$100,000
Costs to be paid by applicant, SRCC	54.4%	$119,422
TOTAL PROJECT COST	100%	$219,422

Table 2 - Budget Proposal

Budget Item Description	Computation $/unit	Computation Quantity	Quantity Type (hours/days)	Total Cost
Salaries and Wages				
Project Manager	$26.00	20	hours	$520
Field Construction Crew Labor	$2.50	9170	lf	$22,925
				$23,445
Fringe Benefits				
	No fringe benefits requested by this project			
Travel				
	No federal funds to be used for travel to install equipment			
Equipment				
6" DuraMag Electromagnetic Meter	$2,599.00	3	ea	$7,797
8" DuraMag Electromagnetic Meter	$2,857.00	3	ea	$8,571
12" DuraMag Electromagnetic Meter	$4,271.00	3	ea	$12,813
15" UltraMag Electromagnetic Meter	$9,522.00	1	ea	$9,522
18" UltraMag Electromagnetic Meter	$10,792.00	1	ea	$10,792
Subtotal				**$49,495**
Supplies and Materials				
6" 80 LB PIP PVC Pipeline	$3.03	700	lf	$2,121
8" 80 LB PIP PVC Pipeline	$5.34	750	lf	$4,005
10" 80 LB PIP PVC Pipeline	$7.92	4540	lf	$35,957
15" 80 LB PIP PVC Pipeline	$ 18.71	3180	lf	$59,498
Subtotal		9170		**$101,581**
Contractual/Construction				
Automated Headgate/Installation	$8,500.00	1	ea	$8,500
JD 130 Excavator	$49.43	125	hr	$6,179
JD 410 Backhoe	$44.73	125	hr	$5,591
Pipeline Trenching:	$1.99	9170	ea	$18,240
Subtotal				**$38,510**
Total Direct Costs				**$213,031**
Indirect Costs		3%		**$6,391**
Total Estimated Costs				**$219,422**

Funding Plan

Funding for our project will be provided by the Small-Scale Water Efficiency WaterSMART grant and fees collected by the Salmon River Canal Company. No expenses are to be incurred prior to the project start date. No funding requests are pending with any other entities. SRCC is requesting **$100,000** from the Bureau or **45.6%** of the cost of the project. The match provided by SRCC would be **$119,422** or **54.4%** is a combination of cash and in-kind services. No outside funding sources are included in this proposal and consequently no letters of commitment are attached.

Budget Narrative

The estimated project cost is **$219,422**. Upon delivery of the supplies, the grant funds from the BOR will help pay for the equipment purchased from the meter distributors. A quote for meters has been obtained from the manufacturer and is included in **Attachment 1**. A quote for the automated gate on Lateral 12 is included in **Attachment 2.** Finally, a quote for pipeline has been obtained from a local supplier and is included in **Attachment 3**

In-kind contributions from SRCC will be a combination of cash required to purchase pipe, meters, and accessories as well as the staff time and services required for the administration and field work to install the meters. This will amount to approximately **$119,422** as noted in the Budget Proposal. In-kind staff time included in the budget is 20 hours of Project Management at a rate of $26/hour and Field Construction Labor at a rate of $2.50/ft for 9,170 for a total of **$23,445** of in-kind staff time. District machinery that will be used for the project will be a JD 130 Excavator for 125 hours at a rate of $49.43/hr and a JD 410 backhoe for 125 hours at a rate of $44.73/hr for a total of **$11,770**. A local contractor will provide pipeline trenching services for **$18,240**. SRCC will be responsible for all the labor, equipment, and the materials needed for pipe and meter installation at the sites. This is reflected in the budget as an in-kind contribution to the project.

In-kind contributions that do not cover our share will be made up by the SRCC Operating fund. The expenditures benefit the project by improving SRCC's ability to monitor and deliver constant water flows to the farmers and to our own canals and laterals.

SRCC board voted at their regular meeting on **Jan 3, 2024** to budget funding each year for the next two years to accomplish the goals of this project.

Total Costs

The district requests **$100,000** from the Bureau's Small-Scale Water Efficiency Grant. The remaining **$$119,422** will come from the SRCC in a combination of cash and in-kind services.

Unique Entity Identifier and System for Award

SRCC is registered on the SYSTEM for Award Management (SAM). The unique entity identifier is **099321572.** The Salmon River Canal Company will maintain an active SAM registration throughout the project.

Section H: Environmental and Cultural Resources Compliance

Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

SRCC plans to accomplish meter upgrades or improvements with this project. The meters will be in the same locations as previous meters and any environmental impacts will be minimal. SRCC has consulted staff of the Bureau of Reclamation in Boise, Idaho. Bureau staff reported the Bureau would be taking the lead on the environmental compliance requirements.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

No, Endangered species will not be affected. No known environmental resources of special value occur, including rivers, streams, lakes, fisheries, threatened plant and animal communities, spawning grounds, or flyways within the SRCC.

Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States?" If so, please describe and estimate any impacts the proposed project may have.

No wetlands or other surface waters that could fall under Clean Water Act jurisdiction exist in the project area.

When was the water delivery system constructed?

Construction of Salmon Falls Dam to supply water for SRCC began in 1908 with the first delivery in 1911. System improvements have been made to the present day.

Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

Discharge pipes of existing turnouts will need slight modifications, but no changes will be made to canals, headgates, or flumes as a result of this project.

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.

No, The land adjacent to this project has been grazed or cultivated in prior years and does not likely represent historic conditions. No aboveground structures are present.

Are there any known archeological sites in the proposed project area?

No identified or known cultural resources of significance exist within the Canal Company service area.

Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?

No. The project will not have a disproportionally high or adverse effect on low income or minority populations. No communities exist adjacent to the project area.

Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?

No. This project will not limit access to ceremonial use of Indian sacred sites.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

No, The project will not contribute to the spread of noxious weeds or non-native invasive species.

Board Resolution

OFFICIAL RESOLUTION OF THE

SALMON RIVER CANAL COMPANY

Resolution NO.2024-01

WHEREAS, the United States Department of Interior, Bureau of Reclamation, has announced the WaterSMART Grants for Small-Scale Water Efficiency Projects for Fiscal Year 2024 to provide financial assistance to water managers.

WHEREAS, Salmon River Canal Company has a present need for funding to implement irrigation water meter upgrades necessary under Idaho Department of Water Resources (IDWR) regulations.

NOW, THEREFORE, BE IT RESOLVED that the Salmon River Canal Company Directors agree to and authorize the following;

- The Salmon River Canal Company Directors have reviewed and support the proposal submitted;
- The Salmon River Canal Company is capable of providing the amount of funding needed for the matching grant from the WaterSMART Grant; and
- If selected for a WaterSMART Grant, Salmon River Canal Company will work with the Reclamation to meet the established deadlines for entering into a cooperative agreement.

DATED: January 3, 2024

Orrin Parrott, President
Salmon River Canal Company

ATTEST:

Alex Joslin, Secretary
Salmon River Canal Company