

BUREAU OF RECLAMATION
WaterSMART
Water and Energy Efficiency Grant

NOFO No. R23AS00008

FY23

CO-OP FARM
PIPING AND PRESSURIZATION
PROJECT

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TECHNICAL PROPOSAL AND EVALUATION CRITERIA.....	1
EXECUTIVE SUMMARY	1
<i>Applicant Info</i>	1
<i>Project Summary</i>	1
<i>Length of Time and Estimated Completion Date</i>	2
<i>Federal Facility</i>	2
PROJECT LOCATION.....	2
TECHNICAL PROJECT DESCRIPTION.....	2
EVALUATION CRITERIA	3
<i>Evaluation Criterion A – Quantifiable Water Savings (28 Points)</i>	3
(1) Canal Lining/Piping.....	5
<i>Evaluation Criterion B – Renewable Energy (20 Points)</i>	6
Subcriterion No. B.1: Implementing Renewable Energy Projects Related to Water Management and Delivery	6
Subcriterion No. B.2: Increasing Energy Efficiency in Water Management	7
<i>Evaluation Criterion C – Sustainability Benefits (20 Points)</i>	9
(1) Combating the Climate Crisis.....	12
(2) Disadvantaged or Underserved Communities.....	13
(3) Tribal Benefits	14
(4) Other Benefits.....	14
<i>Evaluation Criterion D – Complementing On-Farm Irrigation Improvements (10 Points)</i>	15
<i>Evaluation Criterion E – Planning and Implementation (8 Points)</i>	18
Subcriterion E.1 – Project Planning	18
Subcriterion E.2 – Readiness to Proceed	19
<i>Evaluation Criterion F – Collaboration (6 Points)</i>	21
<i>Evaluation Criterion G – Additional Non-Federal Funding (4 Points)</i>	21
<i>Evaluation Criterion H – Nexus to Reclamation (4 Points)</i>	22
PERFORMANCE MEASURES.....	22
PROJECT BUDGET	23
FUNDING PLAN AND LETTERS OF COMMITMENT	23
BUDGET PROPOSAL	24

BUDGET NARRATIVE.....	25
ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE.....	26
REQUIRED PERMITS OR APPROVALS	27
LETTERS OF PROJECT SUPPORT AND LETTERS OF PARTNERSHIP.....	28
OFFICIAL RESOLUTION	28
OVERLAP OR DUPLICATION OF EFFORT STATEMENT.....	28
CONFLICT OF INTEREST DISCLOSURE STATEMENT.....	28
UNIFORM AUDIT REPORTING STATEMENT.....	29
CERTIFICATION REGARDING LOBBYING	29

ATTACHMENTS

- Attachment A – Project Location and Project Detail Maps
- Attachment B – Landowner Signatures and Associated Acreage Map
- Attachment C – Water Management Plan and System Modeling
- Attachment D – Funding Commitment and Project Support Letters
- Attachment E – SAM Registration Status

Technical Proposal and Evaluation Criteria

Executive Summary

Applicant Info

Date: July 27, 2022

Applicant Name: CO-OP Farm Irrigation CO. INC. (CO-OP)

City, County, State: Huntsville, Weber County, Utah

Project Manager:

Greg Graves

Project Manager

801-648-6822

Ghgraves42@gmail.com

Applicant Category: Category A

Project Funding Request: \$1,123,442 *Total Project Cost:* \$2,342,585

Funding Group: Funding Group II

Project Summary

A one-paragraph project summary that provides the location of the project, a brief description of the work that will be carried out, any partners involved, expected benefits, and how those benefits relate to the water management issues you plan to address.

The CO-OP Farm Piping and Pressurization Project will conserve 469 acre-feet of water per year by installing 20,800 feet of HDPE pressurized pipe. The pressurized system will eliminate 235,220 kWh of annual energy consumption as more than 20 shareholders who are currently pumping water from the ditch will now have pressurized water delivered to their turnouts and will no longer need pumps. The proposed project will also install an 11.8 kW solar system that will produce 16,381 kWh of renewable energy annually.

CO-OP Farm Irrigation CO. INC. (CO-OP) diverts water from the South Fork of the Ogden River into the CO-OP Ditch, which then feeds into the South Bench Ditch (together referred to in this application as the ditch) to supply irrigation water to 58 shareholders and 631 acres near Huntsville, Utah, located in the Ogden Valley near Pineview Reservoir. The 55-year-old ditch is experiencing significant water seepage losses as water seeps through the broken-up and deteriorated concrete liner. These conveyance system deficiencies have drastically limited agricultural production in the area while also negatively impacting streamflow and water quality in both the South Fork of the Ogden River (a Blue-Ribbon Fishery) and Pineview Reservoir (a Reclamation Project).

Length of Time and Estimated Completion Date

*State the length of time and estimated completion date for the proposed project. **Note: proposed projects should not have an estimated construction start date that is prior to May 2023.***

This project is ready to move forward as soon as it is awarded. Final design and the environmental report will coincide and are estimated to take six to twelve months to complete. Construction is proposed to begin in fall 2024, with a completion date of summer 2025. The project will be accomplished within the three-year allowance.

Federal Facility

Whether or not the project is located on a Federal facility.

The project is not directly located on a Federal facility; however, CO-OP Farm is located in the same basin as Pineview Reservoir. The water that will be conserved from the proposed project can contribute to flows in the South Fork of the Ogden River which flows directly into Pineview Reservoir.

Project Location

Provide detailed information on the proposed project location or project area including a map showing the specific geographic location. For example, {project name} is located in {state and county} approximately {distance} miles {direction, e.g., northeast} of {nearest town}. The project latitude is {###°##'N} and longitude is {###°##'W}.

The CO-OP Farm Piping and Pressurization Project is located in Weber County Utah, in and around the town of Huntsville which is situated near Pineview Reservoir within the Ogden Valley. The project latitude is 41°14'32" N and the longitude is 111°44'11" W. See **Attachment A – Project Location and Project Detail Maps.**



Figure 1 Ogden Valley, Utah

Technical Project Description

Provide a more comprehensive description of the technical aspects of your project, including the work to be accomplished and the approach to complete the work. This description should provide detailed information about the project including materials and equipment and the work to be conducted to complete the project.

The Ogden Valley is a hub for recreational activities, attracting visitors from all over the world to enjoy three different ski resorts, the Ogden River Scenic Byway, the Monte Cristo recreation

area, snowmobile complex, and various new developments, including Club Med's first-ever 5-star resort in the U.S. set to be completed in 2024. As this recreational destination continues to grow in popularity, new development and its associated water demands have put added stress on limited water supplies available in the region. Several agricultural water users within the Ogden Valley are deeply concerned about the additional growth impacts on their livelihoods. In preliminary data from the Ogden Valley Water Master Plan currently being prepared, the Ogden Valley would reach buildout years sooner than previously anticipated. The final report is due in February 2023. Drought has had significant impacts on the water resources in the Ogden Valley. In August 2021, Pineview Reservoir had shrunk to 24 percent of its normal size due to extreme drought.

CO-OP Farm Irrigation CO. INC. (CO-OP) diverts water into the CO-OP Ditch from the South Fork of the Ogden River, on the east side of the Ogden Valley. The CO-OP Ditch is a 2.9-mile-long open concrete lined ditch owned and operated by CO-OP. The CO-OP Ditch feeds directly into the South Bench Ditch, which is owned and operated by the Huntsville South Bench Canal Company (South Bench); thus, the CO-OP Ditch carries the water for both ditches from the diversion. The CO-OP Ditch has 39 shareholders and irrigates 345 acres, and the South Bench Ditch has 19 shareholders and provides water to 286 acres.

The existing ditch was originally constructed in 1967 with non-reinforced concrete lining and is in very poor condition. Several factors, including catastrophic irrigation erosion and ditch bank settlement, have broken up and deteriorated much of the lining, and vegetation growth and seepage have significantly reduced the ditch's capacity. The ditch has experienced several failures over the years and forced emergency repairs to replace failed sections of pipe and liner.

The project includes piping and pressurization of the CO-OP Ditch, the Silver Summit Lateral, and the remaining South Bench Ditch open section. The project will require the installation of approximately 21,000 feet of 4-inch to 24-inch HDPE pipe, which will connect to the existing river diversion, a system meter, individual user metered turnouts for every user, and a 15-horsepower pump for the Silver Summit Lateral.

Most of the South Bench Ditch was previously piped in anticipation of when the CO-OP Ditch might be piped so both ditches could then be pressurized. The South Bench Ditch was piped with pressure rated pipe, but currently delivers to users through concrete boxes without pressure. The bottom 1,700 feet of the South Bench Ditch is still open ditch and will be piped with this project.

Evaluation Criteria

Evaluation Criterion A – Quantifiable Water Savings (28 Points)

1. Describe the amount of estimated water savings: For projects that conserve water, please state the estimated amount of water expected to be conserved (in acre-feet per year) as a direct result of this project.

This project is estimated to conserve **469 acre-feet of water annually.**

2. Describe current losses: Please explain where the water that will be conserved is currently going and how it is being used. Consider the following:

a. Explain where current losses are going (e.g., back to the stream, spilled at the end of the ditch, seeping into the ground)?

Current losses can be attributed to evaporation and seepage through cracks in the concrete ditch liner or directly into the earth in the unlined sections of ditch.

b. If known, please explain how current losses are being used. For example, are current losses returning to the system for use by others? Are current losses entering an impaired groundwater table becoming unsuitable for future use?

These losses seep into the ground and are likely entering the underground shallow aquifer in the area and eventually back into the river system.

c. Are there any known benefits associated with where the current losses are going? For example, is seepage water providing additional habitat for fish or animal species?

Existing seepage losses are lost to the surface water associated with the river system in the Ogden Valley. They are likely entering the shallow aquifer in the area.

3. Describe the support/documentation of estimated water savings. Please provide sufficient detail supporting how the estimate was determined, including all supporting calculations.

The losses include 453 acre-feet annually for CO-OP Ditch and 16 acre-feet annually for South Bench Ditch. Most of the losses included here are associated with the section of the CO-OP Ditch between its diversion from the South Fork of the Ogden River and the delivery point to the South Bench Ditch. Both of these locations have permanently installed Parshall Flumes. Flow measurements were taken at each flume on a day when no users were taking water, so the difference in flow rates between the upstream and downstream flumes can be assumed to be ditch loss.

- CO-OP Ditch Inlet 30-inch Parshall Flume – 5.2 cfs
- CO-OP Ditch Outlet 18-inch Parshall Flume – 3.9 cfs

The total ditch loss was 1.3 cfs or 25 percent. The 5-year average annual volume diverted at the 30-inch flume is 1,830 acre-feet. A 25 percent ditch loss represents 453 acre-feet annually.

Flows in the lower section of the South Bench Ditch were measured using an Acoustic Doppler Current Profiler (ADCP). The measure losses were approximately 30 percent. The average annual flows to the single user on this ditch segment are 52.6 acre-feet. This user gets 3 cfs for 10.5 hours 20 times per year, which calculates to 52.6 acre-feet. The 30 percent of this volume is 16 acre-feet.

(1) Canal Lining/Piping

- a. *How has the estimated average annual water savings that will result from the project been determined? Please provide all relevant calculations, assumptions, and supporting data.*

The water losses were measured in the open ditch sections, which will now be piped. All of these losses are assumed to be from seepage or evaporation, both of which will be eliminated with the piping of the ditch.

- b. *How have average annual canal seepage losses been determined? Have ponding and/or inflow/outflow tests been conducted to determine seepage rates under varying conditions? If so, please provide detailed descriptions of testing methods and all results. If not, please provide an explanation of the method(s) used to calculate seepage losses. All estimates should be supported with multiple sets of data/measurements from representative sections of canals.*

Flow measurements were taken at each flume on a day when no users were taking water, so the difference in flow rates between the upstream and downstream flumes can be assumed to be ditch loss.

- CO-OP Ditch Inlet 30-inch Parshall Flume – 5.2 cfs
- CO-OP Ditch Outlet 18-inch Parshall Flume – 3.9 cfs

The total ditch loss was 1.3 cfs or 25 percent. The 5-year average annual volume diverted at the 30-inch flume is 1,830 acre-feet. A 25 percent ditch loss represents 453 acre-feet annually.

Flows in the lower section of the South Bench Ditch were measured using an Acoustic Doppler Current Profiler (ADCP). The measured losses were approximately 30 percent. The average annual flows to the single user on this ditch segment are 52.6 acre-feet. This user gets 3 cfs for 10.5 hours 20 times per year, which calculates to 52.6 acre-feet. The 30 percent of this volume is 16 acre-feet.

- c. *What are the expected post-project seepage/leakage losses and how were these estimates determined (e.g., can data specific to the type of material being used in the project be provided)?*

The ditch will be completely piped, enclosed, and pressurized with solid wall fused HDPE pipe. There will be no losses.

- d. *What are the anticipated annual transit loss reductions in terms of acre-feet per mile for the overall project and for each section of canal included in the project?*

Loss per mile for the overall project are 119 acre-feet per mile. The CO-OP section is 158 acre-feet per mile. The lower section of South Bench Ditch is 50 acre-feet per mile.

- e. *How will actual canal loss seepage reductions be verified?*

Flows into the system will be measured through a new system meter. Those system meter measurements can be checked against user meters that will be installed with this project.

f. *Include a detailed description of the materials being used.*

The system will be piped using 20,800 feet of fused HDPE pipe.

System Meter – 1

Turnout Meters and Box – 23

Foundation Type A5 – 160 Tons

Imported Fill – 200 Cubic Yards

15 Horsepower Pump – 1

Pump Screen – 1

Utility Markers – 45

Evaluation Criterion B – Renewable Energy (20 Points)

For projects that include constructing or installing renewable energy components, please respond to Subcriterion No. B.1: Implementing Renewable Energy Projects Related to Water Management and Delivery. If the project does not implement a renewable energy project but will increase energy efficiency, please respond to Subcriterion No. B.2. Increasing Energy Efficiency in Water Management. If the project has separate components that will result in both implementing a renewable energy project and increasing energy efficiency, an applicant may respond to both.

Subcriterion No. B.1: Implementing Renewable Energy Projects Related to Water Management and Delivery

***Describe the amount of energy capacity:** For projects that implement renewable energy systems, state the estimated amount of capacity (in kilowatts) of the system and the estimated amount of energy that the system will generate (in kilowatt hours per year). Please provide sufficient detail supporting the stated estimate, including all calculations in support of the estimate. Please explain how the power generated as a result of this project will be used, including any existing or planned agreements and infrastructure.*

The proposed project includes the installation of an 11.8 kW solar array that will produce an estimated 16,381 kWh of new renewable energy annually, which CO-OP Farm will use within their system to help offset their energy consumption and reduce their carbon footprint. The estimated increase in renewable energy generated is based on an estimate provided by Gardner Energy, which has installed several similar solar arrays.

***Describe any other benefits of the renewable energy project:** Please describe and provide sufficient detail on any additional benefits expected to result from the renewable energy project, including:*

- *How the system will combat/offset the impacts of climate change, including an expected reduction in greenhouse gas emissions*

It is estimated that the proposed solar project will save 330,070 pounds of coal by offsetting 16,381 kWh of annual energy consumption. The proposed solar project's

anticipated lifespan is 25 years, and over that 25 years, will produce an estimated 409,521 kWh.

- *Expected environmental benefits of the renewable energy system*

The proposed solar project will have a positive environmental impact equivalent to:

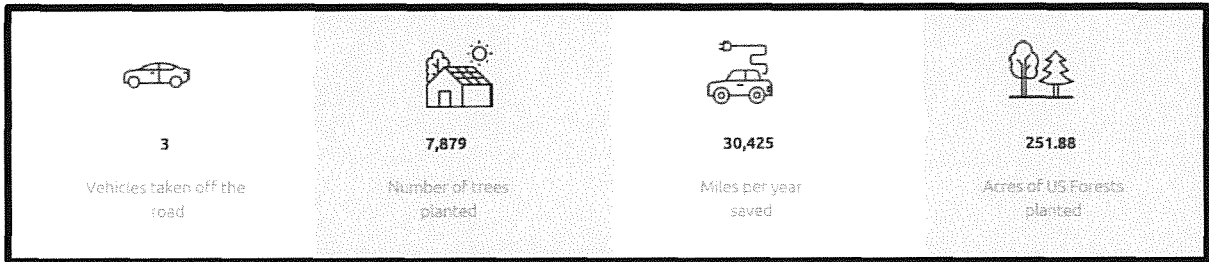


Figure 2 Equivalent Environmental Impact

- *Any expected reduction in the use of energy currently supplied through a Reclamation project*

The solar power supplied by the proposed solar array will reduce CO-OP Farm's reliance on power provided by Reclamation's Causey Reservoir via the Causey Hydro Power Plant by 16,381 kWh per year. Weber Basin Water Conservancy District operates the Causey Hydro Power Plant.

- *Anticipated benefits to other sectors/entities*

N/A.

- *Expected water needs, if any, of the system*

N/A.

Subcriterion No. B.2: Increasing Energy Efficiency in Water Management

Describe any energy efficiencies that are expected to result from implementation of the water conservation or water efficiency project (e.g., reduced pumping).

- *If quantifiable energy savings is expected to result from the project, please provide sufficient details and supporting calculations. If quantifying energy savings, please state the estimated amount in kilowatt hours per year.*

The proposed project will also significantly reduce the cost and use of pumps for those currently sprinkling their lands. Presently, 217 acres of the CO-OP Ditch and 110 acres of the South Bench Ditch service area are sprinkled using pumps. The proposed project will eliminate those pumps. The 327 acres represent an average annual flow rate of 2,345 gpm. The current electrical load on these pumps is 94.7 kWh. This project will save 235,220 kWh per year, as represented in the following calculations:

$$(2,345 \text{ gpm} \times 150 \text{ feet}) / (3,960 \times 70\%) \times 0.746 = 95 \text{ kW}$$

$$95 \text{ kW} \times 2,476 \text{ hours/season} = 235,220 \text{ kWh}$$

- *How will the energy efficiency improvement combat/offset the impacts of climate change, including an expected reduction in greenhouse gas emissions.*

The energy efficiency improvements will result in 167 metric tons of carbon dioxide saved annually. This is equivalent to greenhouse gas emissions from 36 gasoline-powered passenger vehicles driven for one year or 413,387 miles driven by an average gasoline-powered passenger vehicle.

This is also equivalent to greenhouse gas emissions avoided by:

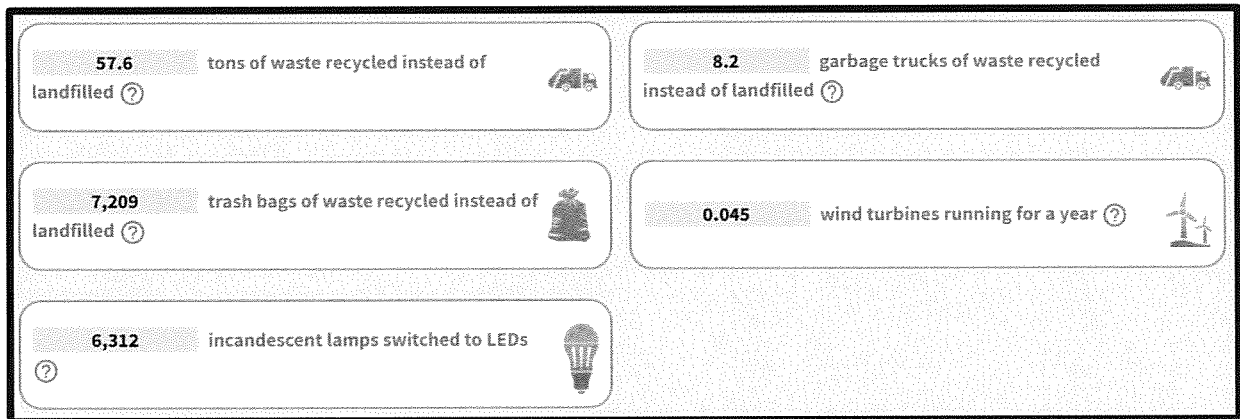


Figure 3 Equivalent Greenhouse Gas Emissions Avoided

- *If the project will result in reduced pumping, please describe the current pumping requirements and the types of pumps (e.g., size) currently being used. How would the proposed project impact the current pumping requirements and energy usage?*

There are two large water users who pump from the Canal to center pivots. One user on the CO-OP Farm system uses a 75-hp pump and another user on the South Bench system uses a 40-hp pump. There are 5 to 10 other smaller users who use 2 hp to 5 hp pumps. The proposed project will eliminate the need for any of these water users to pump, as the project will result in a pressurized system available to all shareholders.

- *Please indicate whether your energy savings estimate originates from the point of diversion or whether the estimate is based upon an alternate site of origin.*

The energy estimates are based on actual ongoing pumping from the existing open ditch at each user's turnout location and pump.

- *Does the calculation include any energy required to treat the water, if applicable?*

NA.

- *Will the project result in reduced vehicle miles driven, in turn reducing greenhouse gas emissions? Please provide supporting details and calculations.*

NA.

- *Describe any renewable energy components that will result in minimal energy savings/production (e.g., installing small-scale solar as part of a SCADA system).*

Solar panels will be installed with the system meter and the 23 individual turnouts and meters. These solar panels will be in addition to the 11.8 kW solar array that will be installed as part of this project and will provide enough power to charge the batteries of the meters.

Evaluation Criterion C – Sustainability Benefits (20 Points)

Enhancing drought resiliency: This NOFO places a priority on projects that enhance drought resiliency, through this section and other sections above, consistent with the SECURE Water Act. Please provide information regarding how the project will enhance drought resilience by benefitting the water supply and ecosystem, including the following:

- *Does the project seek to improve ecological resiliency to climate change?*

The South Fork of the Ogden River between Causey Reservoir and Pineview Reservoir (where CO-OP Farm's diversion is located) is considered a Blue-Ribbon Fishery. Fish Species found in this stretch of the River include Brown Trout, Cutthroat Trout, Rainbow Trout, Mountain Whitefish, Yellow Perch, Smallmouth Bass, and Tiger Musky. The proposed project will improve ecological resiliency to climate change in two ways:

Improved Streamflow – As the climate changes, early snowmelt and stream runoff have caused significant stress on late-season streamflow. According to the Ogden City water manager, as of May 2022, the Ogden River's water surface index was only 9 percent. The rating reflects a combination of soil moisture, snowpack, precipitation, and temperatures. For comparison purposes, an index rating of 1 percent would be the lowest in a 30-year-period. The proposed project will dramatically improve conveyance efficiency for CO-OP Farm and result in 469 acre-feet of water savings annually. The water conserved will remain in-stream and in Causey Reservoir later in the year when streamflow is low, and water demand is peaking.

Increased Water Quality – In addition to the conserved water that will remain in the River and the reservoirs, we also anticipate decreased nutrient loading into Pineview Reservoir, a drinking water source for Ogden City. In many areas, increased water temperatures due to climate change have caused eutrophication and excess algal growth, which reduce drinking water quality. The quality of drinking water sources may also be compromised by increased sediment or nutrient inputs due to extreme storm events. The proposed project will eliminate nearly 4 miles of the open ditch running through fields and pastures where sediment and nutrients from fertilizers and livestock waste are picked up and carried downstream. At the bottom of the system, much of the water that is not used or absorbed makes its way into Pineview Reservoir. This water is rich in sediment and nutrients from the fields. CO-OP Farm is unaware of any water quality studies specific to this area and cannot quantify estimated pollutant load reductions. The environmental

review process is scheduled to begin in Spring 2023, and a better understanding of the potential impacts will result.

- *Will water remain in the system for longer periods of time? If so, provide details on current/future durations and any expected resulting benefits (e.g., maintaining water temperatures or water levels).*

The proposed project will drastically improve the conveyance efficiency of the CO-OP Ditch and the South Bench Ditch, which could result in reduced diversions from the South Fork of the Ogden River. The reduced diversions would then remain in the river system and within Causey Reservoir during periods of drought and low streamflow to benefit aquatic species and other wildlife that rely heavily on the South Fork of the Ogden River for survival.

Although the amount of reduced diversions is unknown, it will become apparent in future years as the project benefits are monitored and reported. This project has meters within the system that will be used to measure water use within the main diversion system. An inflow/outflow test over the irrigation season will be done to determine what water enters and leaves the system. The water will be metered to account for the volume/flow rates. These will be compared with the historical volumes and flow rates diverted from the river and will give a comparison to verify water savings.

- *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 describe the relationship of the species to the water supply, and whether the species is adversely affected by a Reclamation project or is subject to a recovery plan or conservation plan under the Endangered Species Act (ESA).*
- The water conserved as a result of the ditch piping will benefit all species in the area by allowing more water to stay in the river rather than being lost to seepage and evaporation. This conserved water then remains in the river system and in Causey and Pineview Reservoirs, benefiting its respective fish and wildlife species.

The following are the Federally Listed and Endangered (E), Threatened (T), and Candidate (C) species that could be affected by water supply. The U.S. Fish and Wildlife Service identifies these species as known or believed to have habitats in and around the project area.

(T) Canada Lynx (*Lynx canadensis*)

(T) Yellow Billed Cuckoo (*Coccyzus americanus*)

(T) Ute Ladies'-tressus (*Spiranthes diluvialis*)

(C) Monarch Butterfly (*Danaus plexippus*)

- *Please describe any other ecosystem benefits as a direct result of the project.*

N/A.

- *Will the project directly result in more efficient management of the water supply? For example, will the project provide greater flexibility to water managers, resulting in a more efficient use of water supplies?*

The proposed project will significantly improve conveyance efficiency in the system by reducing 469 acre-feet of seepage losses annually. In addition, the installation of 20,800 feet of HDPE pipe will completely enclose and pressurize the system, allowing for a much more efficient use of the available water supply.

Addressing a specific water and/or energy sustainability concern(s): Will the project address a specific sustainability concern? Please address the following:

- *Explain and provide detail of the specific issue(s) in the area that is impacting water sustainability, such as shortages due to drought and/or climate change, increased demand, or reduced deliveries.*

Severe drought conditions in the project area have significantly impacted water availability for CO-OP and South Bench shareholders. In 2022, the lack of storage supply throughout Northern Utah forced Weber Basin Water Conservancy District to reduce irrigation water deliveries by 40 percent!

Most of CO-OP's water is supplied from storage rights in Causey Reservoir. Roughly 10 percent of their water rights are natural water rights from the South Fork of the Ogden River, but drought conditions have also significantly impacted surface water flows, and it is estimated that those too were reduced by about 40 percent this year. These reduced deliveries, coupled with an inefficient delivery system, have resulted in severe water shortages in the area and are threatening the sustainability of many agricultural producers.

- *Explain and provide detail of the specific issue(s) in the area that is impacting energy sustainability, such as reliance on fossil fuels, pollution, or interruptions in service.*

N/A.

- *Please describe how the project will directly address the concern(s) stated above. For example, if experiencing shortages due to drought or climate change, how will the project directly address and confront the shortages?*

The proposed project will reduce water losses by 469 acre-feet per year. The conserved water will reduce shareholders' reliance on storage supply and streamflow, making them much more resilient to the impacts of drought and climate change.

- *Please address where any conserved water as a result of the project will go and how it will be used, including whether the conserved water will be used to offset groundwater pumping, used to reduce diversions, used to address shortages that impact diversions or reduce deliveries, made available for transfer, left in the river system, or used to meet another intended use.*

The proposed project will replace the open ditch with 20,800 feet of HDPE pipe to pressurize the entire system and reduce water losses by 469 acre-feet annually. The conserved water will be moved down the ditch and delivered to the shareholder's turnouts,

where the water will be applied for its intended use instead of being lost to seepage before delivery. This will decrease the reliance of irrigators and agricultural producers on storage supply and streamflow, making them much more drought resilient and ready to embrace the impacts of climate change. The increase in efficiency could also result in increased flows during low flow periods in the river, typically occurring in July and August. This will also help improve water quality by lowering water temperatures in the Ogden River, which is listed as a Blue-Ribbon Fishery.

- *Provide a description of the mechanism that will be used, if necessary, to put the conserved water to the intended use.*

An estimated 469 acre-feet of water currently being lost to seepage will instead be conveyed through the highly efficient HDPE piped ditch, where it will be delivered to the agricultural fields in and around the town of Huntsville. The project will pressurize the system allowing shareholders to get rid of the pumps they have been using to irrigate their fields. There are 631 acres of agricultural fields that are ready and willing to put the water to its intended use but are not receiving adequate water due to the inefficiencies of the aging delivery system infrastructure.

- *Indicate the quantity of conserved water that will be used for the intended purpose(s).*

All 469 acre-feet of conserved water will be used for the intended purpose as a result of this project.

Other Project benefits: *Please provide a detailed explanation of the project benefits and their significance. These benefits may include, but are not limited to, the following:*

(1) 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 the following:

- Please provide specific details and examples on how the project will address the impacts of climate change and help combat the climate crisis. Does this proposed project strengthen water supply sustainability to increase resilience to climate change?*

Yes, the project will result in 469 acre-feet of conserved water annually. The conserved water will reduce shareholders' reliance on storage supply and streamflow, as more of the water that is diverted will make it to the fields instead of being lost to seepage premature to its intended use. This will make irrigators much more resilient to drought and climate change impacts. Some of the water conserved can also remain in the river system and in Causey and Pineview Reservoirs to benefit other users as the total available water supply continues to be limited due to the effects of climate change. As temperatures continue to rise, Utah is especially susceptible to decreasing water supplies due to a heavy reliance on snowpack. The reservoirs are designed to capture mountain

runoff from winter snowpack, but as temperatures have continued to rise, early season runoff limits the State's ability to capitalize on the snowpack provided during the winter season.

- b. *Will the proposed project establish and utilize a renewable energy source?*

Yes, the proposed project includes installing an 11.8 kW solar array that will produce an estimated 16,381 kWh of new renewable energy annually, which CO-OP Farm will use within their system to help offset their energy consumption and reduce their carbon footprint.

- c. *Will the project result in lower greenhouse gas emissions?*

As stated in section Subcriterion No. B.1: Implementing Renewable Energy Projects Related to Water Management and Delivery, the proposed project will result in 167 metric tons of carbon dioxide saved annually. This is equivalent to greenhouse gas emissions from 36 gasoline-powered passenger vehicles driven for one year or 413,387 miles driven by an average gasoline-powered passenger vehicle.

(2) Disadvantaged or Underserved Communities

E.O. 14008 and E.O. 13985 support environmental and economic justice by investing in underserved and disadvantaged communities and addressing the climate-related impacts to these communities, including impacts to public health, safety, and economic opportunities. Please describe how the project supports these Executive Orders, including:

- a. *Does the proposed project directly serve and/or benefit a disadvantaged or historically underserved community? Benefits can include, but are not limited to, public health and safety through water quality improvements, new water supplies, new renewable energy sources, or economic growth opportunities.*

CO-OP Farm Irrigation CO. INC. is located in Huntsville, Utah, in the Ogden Valley, a rural, high mountain valley and ski resort community in Weber County with a very high housing cost burden. Statewide, the average rent in Utah for a two-bedroom unit was \$1,710 in February 2021, according to Rent.com's rent report released in May 2022. That's up over 44 percent from an average rent of \$1,185 in 2020. There has also been a significant disparity between wage increases over the last several years and housing cost increases in Utah. According to Federal data, nearly 1 in 5 Utahns are spending half or more of their income on housing. Experts advise that no one should pay more than 30 percent on housing costs. In the current market, though, paying 30 percent or less of income on housing is increasingly unattainable for the third of Utahns with leases, as well as those aspiring to buy a home, especially in the Ogden Valley. Adjusted for inflation, Utah's median incomes have not seen substantial increases since 2002.

Many new single-family residential homes are being built in the Ogden Valley. This reduces the number of affordable housing options for residents with lower annual incomes and pushes them further into poverty as they are forced to pay higher rental rates.

- b. *If the proposed project is providing benefits to a disadvantaged community, provide sufficient information to demonstrate that the community meets the disadvantaged community definition in Section 1015 of the Cooperative Watershed Act, which is defined as a community with an annual median household income that is less than 100 percent of the statewide annual median household income for the State, or the applicable state criteria for determining disadvantaged status.*

N/A.

- c. *If the proposed project is providing benefits to an underserved community, provide sufficient information to demonstrate that the community meets the underserved definition in E.O. 13985, which includes populations sharing a particular characteristic, as well as geographic communities, that have been systematically denied a full opportunity to participate in aspects of economic, social, and civic life.*

N/A.

(3) Tribal Benefits

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. Please address the following, if applicable:

There are no known tribal benefits that will result from the proposed project.

(4) Other Benefits

Will the project address water and/or energy sustainability in other ways not described above? For example:

- a. *Will the project assist States and water users in complying with interstate compacts?*

N/A.

- b. *Will the project benefit multiple sectors and/or users (e.g., agriculture, municipal and industrial, environmental, recreation, or others)?*

Yes, the project will benefit municipal, industrial, and agricultural users by making more water available during drought and providing increased water efficiency in the area. The Ogden Valley attracts visitors from all over the world. There are three ski resorts, National Parks, the Ogden River Scenic Byway, the Monte Cristo recreation area, snowmobile complex, and various new developments, including Club Med's first-ever 5-star resort in the U.S. set for completion in 2024. Along with all of these recreation opportunities has come new development and increased water demand. As the demand on already limited supplies continues to increase, it will become more and more essential for water providers to improve their delivery systems to maximize efficiency. The proposed project will conserve 469 acre-feet of water and reduce the reliance of 58 shareholders and 631 acres on the limited storage supplies and streamflow in the area.

These improvements will benefit multiple sectors that all rely on the same sources for water.

c. *Will the project benefit a larger initiative to address sustainability?*

Yes. Weber Basin Water Conservancy District is currently conducting the Ogden Valley Water Supply and Master Plan Study. The purpose of that study is to catalog all the water systems and water suppliers in the Ogden Valley and consider how to use the water supply more efficiently in the Ogden Valley. Projects such as the one being proposed will likely result from that study.

d. *Will the project help to prevent a water-related crisis or conflict? Is there frequently tension or litigation over water in the basin?*

The project will help prevent water-related crisis in the area by drastically improving the efficiency with which available water is used. There will only continue to be increasing demand on available storage and streamflow as new developments flow to the Ogden Valley. More efficient use of available supply becomes the solution to avoid crisis and conflict. Many ski resorts have planned to expand residential and commercial development and build multiple golf courses; all of which need more water. Over the past ten years, lawsuits to try and stop the ski resorts from drilling more wells and impacting those who live in the Ogden Valley below them have occurred. A group called Valley Citizens for Responsible Development (VCRD) has gone on record in opposition to the new wells and the development.

By August 2021, Pineview Reservoir had shrunk to 24 percent of its normal size. The Wolf Creek Water & Sewer Improvement District imposed a moratorium on new water connections, halting service to new home construction until another water source is found. However, new homebuyers keep arriving, some who discovered during the COVID-19 pandemic that their jobs could be done remotely; but preliminary data from the Ogden Valley Water Supply and Master Plan study, being prepared by Bowen Collins & Associates, projected the valley would reach buildout years sooner than previously anticipated. Their final report is due February 2023.

Evaluation Criterion D – Complementing On-Farm Irrigation Improvements (10 Points)

If the proposed project will complement an on-farm improvement eligible for NRCS assistance, please address the following:

- *Describe any planned or ongoing projects by farmers/ranchers that receive water from the applicant to improve on-farm efficiencies.*
 - *Provide a detailed description of the on-farm efficiency improvements.*

Planned on-farm efficiency improvements include eliminating flood irrigation and implementing sprinkler irrigation. This is directly supported by the proposed project, which will pipe and pressurize CO-OP/South Bench Ditch; the first step to realizing this on-farm irrigation improvement.

BOR WaterSMART Grants: Water and Energy Efficiency Grants for FY 2023 – R23AS00008

- *Have the farmers requested technical or financial assistance from NRCS for the on-farm efficiency projects, or do they plan to in the future?*

The Jensen-Fowers Farm (approximately 40 acres) is currently working with NRCS to design a new high-efficiency irrigation system including pivots. The system is being designed based on the Huntsville South Bench Canal Company providing pressurized water to the farm. Upon completion of the proposed WaterSMART project, other farmers have expressed interest in and will be able to request technical or financial assistance from NRCS for implementing sprinkler irrigation. Many farmers have already contacted NRCS regarding eligibility for EQIP funding for the construction of laterals and on-farm sprinkler systems.

- *If available, provide documentation that the on-farm projects are eligible for NRCS assistance, that such assistance has or will be requested, and the number or percentage of farms that plan to participate in available NRCS programs.*

A number of farmers have already contacted NRCS and several others have expressed interest in pursuing on-farm improvements. Please see **Attachment B – Landowner Signatures and Associated Acreage Map**.

- *Applicants should provide letters of intent from farmers/ranchers in the affected project areas.*

See **Attachment B – Landowner Signatures and Associated Acreage Map** for the signatures and acreage.

- *Describe how the proposed WaterSMART project would complement any ongoing or planned on-farm improvement.*

- *Will the proposed WaterSMART project directly facilitate the on-farm improvement? If so, how? For example, installation of a pressurized pipe through WaterSMART can help support efficient on-farm irrigation practices, such as drip-irrigation.*

The proposed WaterSMART project will directly facilitate the on-farm improvements mentioned previously. Sprinkler irrigation will be made possible by the piping and pressurization of the CO-OP/South Bench Ditch. The irrigators will then be responsible for seeking NRCS funding to implement this on-farm irrigation practice.

OR

- *Will the proposed WaterSMART project complement the on-farm project by maximizing efficiency in the area? If so, how?*

Yes, all of the irrigators that are currently using sprinkle irrigation have significant costs to pump out of the existing ditch. However, with the development of this project, the system will be fully pressurized and allow all the water users to install sprinkling systems run by gravity-fed, pressurized pipes without any required pumping equipment or expenses. This will drastically improve irrigation efficiency

while eliminating 235,220 kWh of annual electrical energy use and \$14,800 in pumping costs.

- *Describe the on-farm water conservation or water use efficiency benefits that are expected to result from any on-farm work.*
 - *Estimate the potential on-farm water savings that could result in acre-feet per year. Include support or backup documentation for any calculations or assumptions.*

Greater water savings will be realized when irrigation practices are changed from flood irrigation to sprinkler irrigation, as farmers and ranchers take advantage of the newly piped and pressurized delivery system. Application efficiency for flood irrigation is approximately 50 percent, while sprinkler irrigation application efficiency is around 75 percent. The following table summarizes water loss associated with irrigation application inefficiencies.

2021 IRRIGATION INEFFICIENCIES

Annual Volume Diverted	1809 AF
*Annual Volume Lost (1809 x 25% + 16 AF)	469 AF
Annual Volume Delivered	1340 AF
Assumed Flood Irrigation Efficiency	50%
Assumed Sprinkler Irrigation Efficiency	75%
Flood vs Sprinkler Efficiency Difference	25%
Total Acres Irrigated	631
Total Acres Flooded	331
% Acres Flooded	52%
Water Lost to Inefficient Application (1340 x 52% x 25%)	174 AF

* Includes 16 AF from South Bench Ditch

- *Please provide a map of your water service area boundaries. If your project is selected for funding under this NOFO, this information will help NRCS identify the irrigated lands that may be approved for NRCS funding and technical assistance to complement funded WaterSMART projects.*

See Attachment A – Project Location and Project Detail Maps and Attachment B – Landowner Signatures and Associated Acreage Map

Evaluation Criterion E – Planning and Implementation (8 Points)

Subcriterion E.1 – Project Planning

Does the applicant have a Water Conservation Plan and/or System Optimization Review (SOR) in place? Does the project address and adaptation strategy identified in a completed WaterSMART Basin Study? Please self-certify or provide copies of these plans where appropriate to verify that such a plan is in place. Including a specific excerpt or a link to the planning document may also be considered where appropriate.

CO-OP Farm Irrigation CO. INC. (CO-OP) does not have a Water Conservation Plan nor a SOR but has continually participated in planning with the larger districts around them, including the Weber Basin Water Conservancy District's ongoing Ogden Valley Water Supply and Master Plan Study. CO-OP Farm has attended planning meetings and takes advantage of other opportunities that allow them to be part of understanding the needs for the future. Huntsville South Bench Canal Company (Project Partner) completed a Water Management and Conservation Plan in 2001 that identified water management issues and goals that helped pave the way for the proposed project. Please see **Attachment C – Water Management Plan and System Modeling**

- 1) *Identify any district-wide, or system-wide, planning that provides support for the proposed project. This could include a Water Conservation Plan, SOR, Drought Contingency Plan or other planning efforts done to determine the priority of this project in relation to other potential projects.*

CO-OP recently prepared an evaluation of their system that assessed the water losses and opportunities to pressurize the system and make it more efficient. Their system was modeled, mapped, and project and cost estimates were developed. The Board prioritized the projects. Because of the simplicity of their system, they chose to prepare an evaluation of the system that would allow them to have projects that could be phased or taken on all at once. The Board prioritized the projects according to what they thought they could afford to build, based on funding and shareholder fees. This project was a combination of phases and listed as their highest priority. See **Attachment C – Water Management Plan and System Modeling**

- 2) *Describe how the project conforms to and meets the goals of any applicable planning efforts and identify any aspect of the project that implements a feature of an existing water plan(s).*

Huntsville South Bench Canal Company has already piped most of their portion of the ditch in preparation for when CO-OP would complete the piping and allow for pressurization of the system. South Bench also completed a Water Management and Conservation Plan in 2001 that identified water management goals, including improving the efficiency of the water delivery system. CO-OP has also recently completed system modeling and water loss studies to identify and prioritize projects that would make the system more efficient. The proposed project has been identified as the highest priority project of both companies and will meet the goals of these previous planning efforts.

BOR WaterSMART Grants: Water and Energy Efficiency Grants for FY 2023 – R23AS00008

- 3) *If applicable, provide a detailed description of how a project is addressing an adaptation strategy specifically identified in a completed WaterSMART Basin Study or Water Management Options Pilot (e.g., a strategy to mitigate the impacts of water shortages resulting from climate change, drought, increased demands, or other causes)*

N/A.

Subcriterion E.2 – Readiness to Proceed

Applications that include a detailed project implementation 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.

- *Identify and provide a summary description of the major tasks necessary to complete the project. Note: please do not repeat the more detailed technical project description provided in Section D.2.2.2.; this section should focus on a summary of the major tasks to be accomplished as part of the project.*

CO-OP anticipates a notice of award and a signed agreement to be completed by Spring 2022. Upon completion of the signed agreement, the environmental process will begin, which is expected to take six to twelve months to complete. The final design will begin in November 2023 and be completed by June 2024, with advertising and bidding in the July 2024 timeframe. Construction is proposed to start in fall 2024, with a completion date in summer 2025. The Project can be completed within the three-year timeframe, with final reports expected in fall 2025.

The project's primary tasks include contracting, environmental assessment, design, advertising and bidding, construction, and project closeout.

- Contracting includes executing agreements between Reclamation and CO-OP. It also includes the necessary time for CO-OP to secure contracts for engineering, environmental, cultural, and solar design.
 - Environmental assessment includes the necessary surveys and assessments to meet the NEPA requirements for the project area and review by Reclamation.
 - Design includes a topographic survey, design review and stakeholder coordination, 50 percent design review, 90 percent design review, and final preparation of bidding documents.
 - Advertising and bidding include advertising the project, distribution of bid documents, pre-bid meetings, bid opening, and contract award.
 - Construction includes preparation of construction documents, preconstruction meeting, construction of the pipeline, water-ready project walk-through, final grading and surface restoration, substantial completion walk-through, and construction.
- *Describe any permits that will be required, along with the process for obtaining such permits.*

Weber County Excavation Permit

State of Utah Stream Alteration Permit

Excavation permits – All Excavation Permit applications must be submitted online through frontier.co.weber.ut.us.

Stream Alteration Permit – The U.S. Army Corps of Engineers issued Programmatic General Permit 10 (PGP-10) which allows an applicant to obtain both state approval and authorization under Section 404 of the Clean Water Act through a single application process. Although not all stream alteration activities qualify for approval under PGP-10, many minimal impact projects can be approved under this joint permit agreement.

- *Identify and describe any engineering or design work performed specifically in support of the proposed project.*

CO-OP has completed a hydraulic water model of the system and a water loss study to identify ways to improve the system overall, but also to identify projects to help with the current drought and the risks associated with the lack of supply available. Huntsville South Bench Canal Company has already piped most of their portion of the ditch in preparation for when CO-OP would complete the piping and allow for pressurization of the system. South Bench has also completed a Water Management and Conservation Plan that identified and prioritized projects, including piping of the ditch. A 30 percent design of the ditch piping and pressurization has also been completed.

- *Describe any new policies or administrative actions required to implement the project.*

There are no new policies or administrative actions required to implement the project.

- *Please also include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates. Milestones may include, but are not limited to, the following: complete environmental and cultural compliance; mobilization; begin construction/installation (50% complete); and construction/installation (100% complete)*

Project Award – *Spring 2023*

NEPA – *March 2023 – December 2023*

Ditch Piping and Pressurization 30 Percent Design – *Complete*

Ditch Piping and Pressurization Final Design – *November 2023 – June 2024*

Contracting/Bidding – *July 2024*

Construction – *August 2024 – March 2025*

Final Reporting/Closeout – *May 2025*

BOR WaterSMART Grants: Water and Energy Efficiency Grants for FY 2023 – R23AS00008

- *Was the expected timeline for environmental and cultural compliance discussed with the local Reclamation Regional or Area Office?*

Evaluation Criterion F – Collaboration (6 Points)

Please describe how the project promotes and encourages collaboration. Consider the following:

- *Is there widespread support for the project? Please provide specific details regarding any support and/or partners involved in the project. What is the extent of their involvement in the process?*

Yes. This project is important to all the shareholders, Weber Basin Water Conservancy District, and many other stakeholders in the Ogden Valley who rely on the limited amount of water. The main purpose for the collaboration is because of the large amount of water savings and the increased efficiency to an inefficient system.

- *What is the significance of the collaboration/support?*

Weber Basin Water Conservancy District, shareholders, residents, and others are in support of this long-overdue project. The impact that this project will have on the rural community of Huntsville and the irrigators is significant because of the large amount of water that is being lost from the ditch that could be used to water crops and produce hay and feed for livestock in the area. This area has experienced economic hardships in the form of increased overhead costs due to the need to buy feed for their livestock at much higher prices than if they could have produced their own feed.

- *Will this project increase the possibility/likelihood of future water conservation improvements by other water users?*

Absolutely, 19 landowners accounting for 988 irrigated acres have expressed interest in pursuing irrigation efficiency upgrades upon completion of the proposed project which will provide them the opportunity for pressurized sprinkle irrigation without having to pump. These landowners are very likely to convert to more efficient methods of irrigation which could result in an estimated 174 acre-feet of additional water conservation.

- *Please attach any relevant supporting documents (e.g., letters of support or memorandum of understanding).*

Please see **Attachment B – Landowner Signatures and Associated Acreage Map**

Evaluation Criterion G – Additional Non-Federal Funding (4 Points)

State the percentage of non-Federal funding provided using the following calculation

$$\frac{\text{NonFederal Funding } \$1,219,143}{\text{Total Project Cost } \$2,342,585} = 52\%$$

Evaluation Criterion H – Nexus to Reclamation (4 Points)

Describe the nexus between the proposed project and a Reclamation project or Reclamation activity. Please consider the following:

- *Does the applicant have a water service, repayment, or O&M contract with Reclamation?*

No.

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

CO-OP diverts water out of the South Fork Ogden River which comes from Causey Reservoir, a Reclamation Project operated by Weber Basin Water Conservancy District. Tailwater from the South Bench Ditch eventually enters Pineview Reservoir, a Reclamation Project.

- *Will the proposed work benefit a Reclamation project area or activity?*

The proposed project will directly benefit two Reclamation Reservoirs, Causey and Pineview, by conserving 469 acre-feet of water that can remain in Causey later into the irrigation season and by improving the quality of tailwater that enters Pineview.

- *Is the applicant a Tribe?*

No, the applicant is not a Tribe.

Performance Measures

Provide a brief summary describing the performance measure that will be used to quantify actual benefits upon completion of the project (e.g., water saved or better managed, energy generated or saved).

This project has meters within the system that will be used to measure water use within the main diversion system. An inflow/outflow test over the irrigation season will be done to determine what water enters the system and what water leaves the system. The water will be metered to account for the volume/flow rates. These will be compared with the historical volumes and flow rates diverted from the river and will give a comparison by which to verify water savings. After the pipe is installed, it will be filled with water and all of the turnouts closed. The system meter will be checked to verify that it is reading “zero” and that there are no losses in the closed system.

A reading of the meter will be made monthly and recorded. Then, a calculation and comparison will be established to show the performance measures. These monthly reports will be summarized annually and reported to the CO-OP Farm board members.

Project Budget

Funding Plan and Letters of Commitment

Describe how the non-Federal share of project costs will be obtained.

CO-OP Farm Irrigation CO. INC. (CO-OP) and Huntsville South Bench Canal Company (South Bench) are in the process of preparing applications for funding through the Utah Department of Food and Agriculture's Water Optimization Grant Program for \$500,000 and \$383,205, respectively. Additional matching funds will consist of cash contributions from; CO-OP - \$92,021; Silver Summit Estates - \$127,838 and South Bench - \$116,079. These contributions make up the \$1,219,143 non-Federal share of the project costs. See **Attachment D – Funding Commitment and Project Support Letters**

Identify the sources of the non-Federal cost-share contribution for the project, including:

- *Any monetary contributions by the applicant towards the cost-share requirement and source of funds (e.g., reserve account, tax revenue, and/or assessments).*

CO-OP plans to contribute \$92,021 towards project costs from their reserve account.

- *Any costs that will be contributed by the applicant.*

CO-OP plans to contribute \$92,021 towards project costs. CO-OP has also spent significant time planning for the project, and they will continue to do so in oversight and record keeping.

- *Any third-party in-kind costs (i.e., goods and services provided by a third party).*

There are no in-kind costs included in this project.

- *Any cash requested or received from other non-Federal entities.*

N/A.

- *Any pending funding requests (i.e., grants or loans) that have not yet been approved and explain how the project will be affected if such funding is denied.*

CO-OP Farm Irrigation Company and Huntsville South Bench Canal Company are in the process of preparing applications for funding through the Utah Department of Food and Agriculture's Water Optimization Grant Program for \$500,000 and \$383,205 respectively. These grant applications are due by September 1, 2022, and applicants should be notified by late Fall 2022 if either of these funding applications are unsuccessful. In that case, the entities will work with the Utah Division of Water Resources (DWRe) to obtain a loan for the remaining portion of project costs.

BOR WaterSMART Grants: Water and Energy Efficiency Grants for FY 2023 – R23AS00008

In addition, identify whether the budget proposal includes any project costs that have been or may be incurred prior to award. For each cost, describe:

- The project expenditure and amount.
N/A.
- The date of cost incurrence.
N/A.
- How the expenditure benefits the Project.
N/A.

Budget Proposal

Table 1 – Total Project Cost Table

Source	Amount
Costs to be reimbursed with the requested Federal funding	\$1,123,442
Costs to be paid by the applicant	\$92,021
Value of third-party contributions	\$1,127,122
Total Project Cost	\$2,342,585

Table 2 – Budget Proposal

Budget Item Description	Computation		Quantity Type	Total Cost
	\$/Unit	Quantity		
Salaries and Wages				\$0
Fringe Benefits				\$0
Travel				\$0
Equipment				\$0
Supplies and Materials				\$0
Contractual				\$383,000
Design	\$153,000	1	EA	\$153,000
NEPA Compliance	\$77,000	1	EA	\$77,000
Construction Management	\$153,000	1	EA	\$153,000
Construction				\$1,959,585
Mobilization	\$124,000	1	EA	\$124,000
4" HDPE DR 17 PIPE	\$20	3,800	LF	\$76,000
16" HDPE DR 32.5 PIPE	\$43	1,700	LF	\$73,100
20" HDPE DR 32.5 PIPE	\$49	8,900	LF	\$436,100
24" HDPE DR 41 PIPE	\$57	6,400	LF	\$364,800
System Meter	\$20,000	1	EA	\$20,000

BOR WaterSMART Grants: Water and Energy Efficiency Grants for FY 2023 – R23AS00008

Residential Service Connections	\$2,300	13	EA	\$29,900
Turnout Meters & Box	\$20,000	23	EA	\$460,000
Remove Existing Boxes	\$1,000	19	EA	\$19,000
Highway Crossing	\$5,000	5	EA	\$25,000
Connect to Existing Pipe Under Highway	\$25,000	2	EA	\$50,000
Connect to Existing Pipe	\$5,000	2	EA	\$10,000
Connection to Diversion Structure	\$7,500	1	EA	\$7,500
Furnish Imported Trench Backfill Type A1	\$25	2,500	TON	\$62,500
Furnish Foundation Type A5	\$25	160	TON	\$4,000
Imported Fill	\$50	200	CY	\$10,000
Final Grading	\$3	20,800	LF	\$62,400
15 HP Pump	\$15,875	1	EA	\$15,875
Pump Screen	\$14,750	1	EA	\$14,750
Furnish and Install Above Ground Utility Markers	\$150	45	EA	\$6,750
Restoration of Landscape Improvements	\$20,000	1	EA	\$20,000
Reseeding	\$15,000	1	EA	\$15,000
11.8kW Solar Array	\$52,140	1	EA	\$52,910
Other				\$0
Total Direct Costs				\$2,342,585
Indirect Costs				\$0
Type of rate	Percentage	\$base		\$0
Total Estimated Project Costs				\$2,342,585

Budget Narrative

Salaries and Wages

No CO-OP salaries or wages will be included. All services will be contracted. CO-OP's staff time will be over and above the cost of the project and will not be counted toward the project cost.

Fringe Benefits

No fringe benefits are required.

Travel

No travel will be required.

Equipment

Equipment will be part of the contracted portion of the project.

Materials and Supplies

Materials and supplies will be part of the contracted portion of the project and will be documented as required.

Contractual

In order to determine unit costs, which were included in the cost estimate for this project, CO-OP relied upon contract unit prices from similar projects recently completed. CO-OP will follow the State of Utah procurement process for procuring a contractor for this project. They will bid the construction portion of the project to several prequalified construction companies. The contractual costs shown are estimates for each of the components to furnish and install all of the pipe and equipment. Generally, the low bidder will be selected based on a determination of acceptable qualifications.

The Engineering fees have been evaluated to ensure that they are fair and reasonable, based on the Bureau of Labor Statistics wage rates for engineers.

Third-Party In-Kind Contributions

No third-party in-kind contributions will be included in this project.

Environmental and Regulatory Compliance Costs

The total environmental review cost is \$77,000. The estimate is based on similar projects in the Northern Utah area and accounts for the permitting requirements and associated public involvement standards.

Other Expenses

There are no other anticipated expenses.

Indirect Costs

No indirect costs will be part of the project.

Total Costs

Non-Federal Portion:	Fed Portion:	Total:
\$1,219,143	\$1,123,442	\$2,342,585

Environmental and Cultural Resources Compliance

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

Impacts will be those associated with constructing a pipeline. In the past, similar projects have had minimal impacts. The surface vegetation will be restored upon completion of the project.

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?

CO-OP is not aware of any threatened or endangered species or critical habitat within the project area.

BOR WaterSMART Grants: Water and Energy Efficiency Grants for FY 2023 – R23AS00008

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.

CO-OP is not aware of any impacts to wetlands in the project boundaries.

When was the water delivery system constructed?

The water delivery system was originally constructed in 1967.

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.

N/A. The proposed project will enclose 20,800 feet of old, open concrete-lined ditch through and around the town of Huntsville with HDPE pressurized pipe. The project will also install an 11.8 kW solar array and a cultural resource study will be completed as part of the NEPA process.

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.

A cultural resource inventory will be completed as part of the submitted environmental document.

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

CO-OP is not aware of any archeological sites in the proposed project area.

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

No.

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

No.

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.

Required Permits or Approvals

Applicants must state in the application whether any permits or approvals are required and explain the plan for obtaining such permits or approvals.

Excavation permits – All Excavation Permit applications must be submitted online through frontier.co.weber.ut.us.

Stream Alteration Permit – The U.S. Army Corps of Engineers issued Programmatic General Permit 10 (PGP-10) which allows an applicant to obtain both state approval and authorization under Section 404 of the Clean Water Act through a single application process. Although not all stream alteration activities qualify for approval under PGP-10, many minimal impact projects can be approved under this joint permit agreement.

Letters of Project Support and Letters of Partnership

Include letters from interested stakeholders supporting the proposed project.

See **Attachment D – Funding Commitment and Project Support Letters**

Official Resolution

Include an official resolution adopted by the applicant's board of directors or governing body, or, for State government entities, an official authorized to commit the applicant to the financial and legal obligations associated with receipt of a financial assistance award under this NOFO. The official resolution may be submitted to bor-sha-fafoa@usbr.gov up to 30 days after the application deadline.

An Official Resolution for CO-OP Farm Irrigation CO. INC. will be submitted within 30 days of the application deadline.

Overlap or Duplication of Effort Statement

Applicants must provide a statement that addresses if there is any overlap between the proposed project and any other active or anticipated proposals or projects in terms of activities, costs, or commitment of key personnel. If any overlap exists, applicants must provide a description of the overlap in their application for review.

There is no overlap or duplication of efforts for the proposed project.

Conflict of Interest Disclosure Statement

Conflict of Interest Disclosure Per the Financial Assistance Interior Regulation (FAIR), 2 CFR §1402.112, you must state in your application if any actual or potential conflict of interest exists at the time of submission.

There are no actual or potential conflicts of interest.

Uniform Audit Reporting Statement

All U.S. states, local governments, federally recognized Indian Tribal governments, and nonprofit organizations expending \$750,000 in U.S. dollars or more in Federal award funds in your organization's fiscal year must submit a Single Audit report for that year through the Federal Audit Clearinghouse's Internet Data Entry System in accordance with 2 CFR §200 subpart F.

U.S. state, local government, federally recognized Indian Tribal governments, and non-profit applicants must state if your organization was or was not required to submit a Single Audit report for the most recently closed fiscal year. If your organization was required to submit a Single Audit report for the most recently closed fiscal year, provide the Employer Identification Number (EIN) associated with that report and state if it is available through the Federal Audit Clearinghouse website.

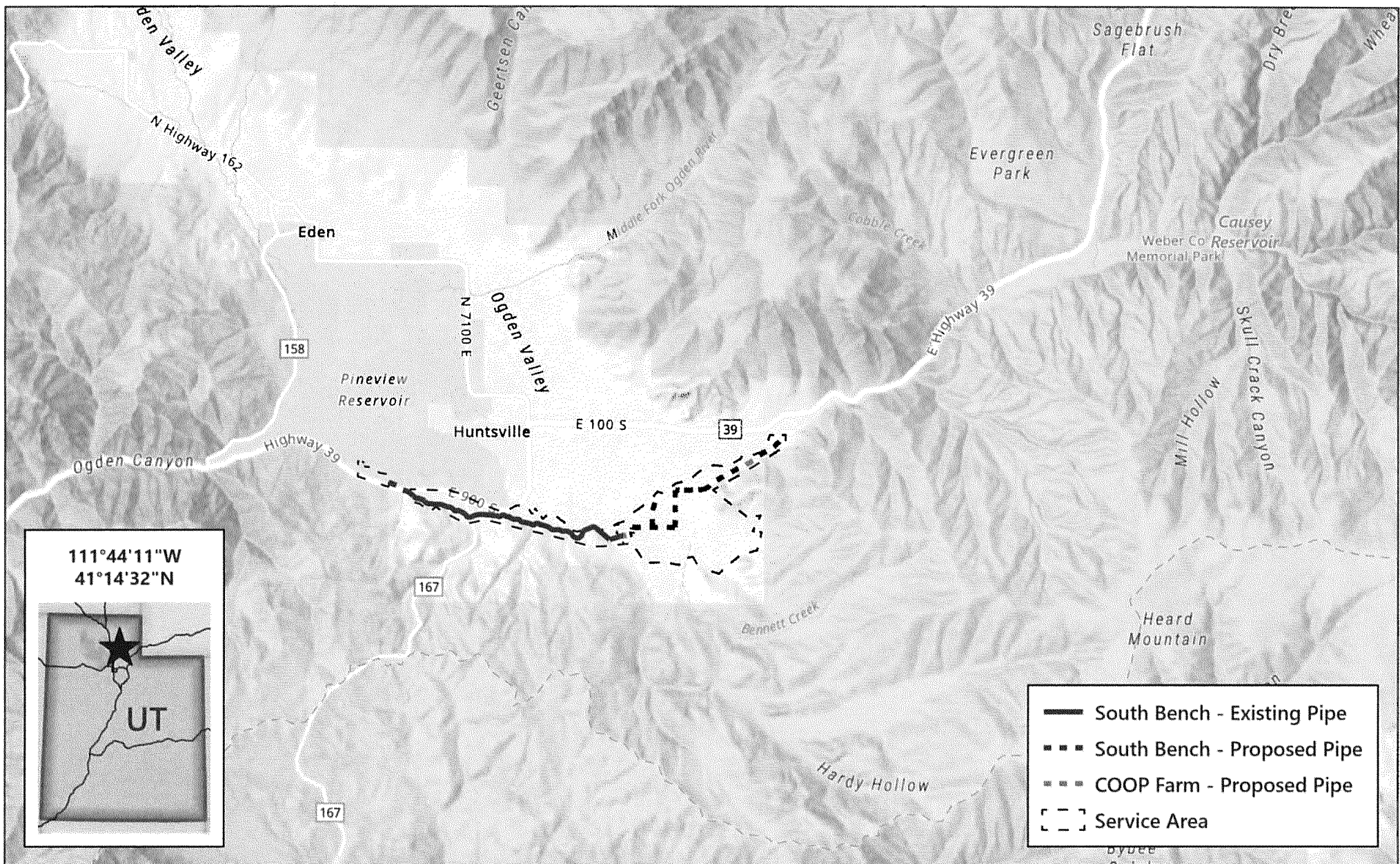
CO-OP has not received or expended more than \$750,000 in Federal awards in any fiscal year.

Certification Regarding Lobbying

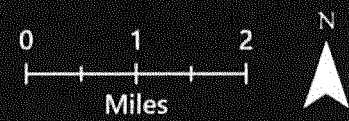
Non-Federal entities are strictly prohibited from using funds under a grant or cooperative agreement for lobbying activities and must provide the required certifications and disclosures pursuant to 43 CFR §18 and 31 USC §1352.

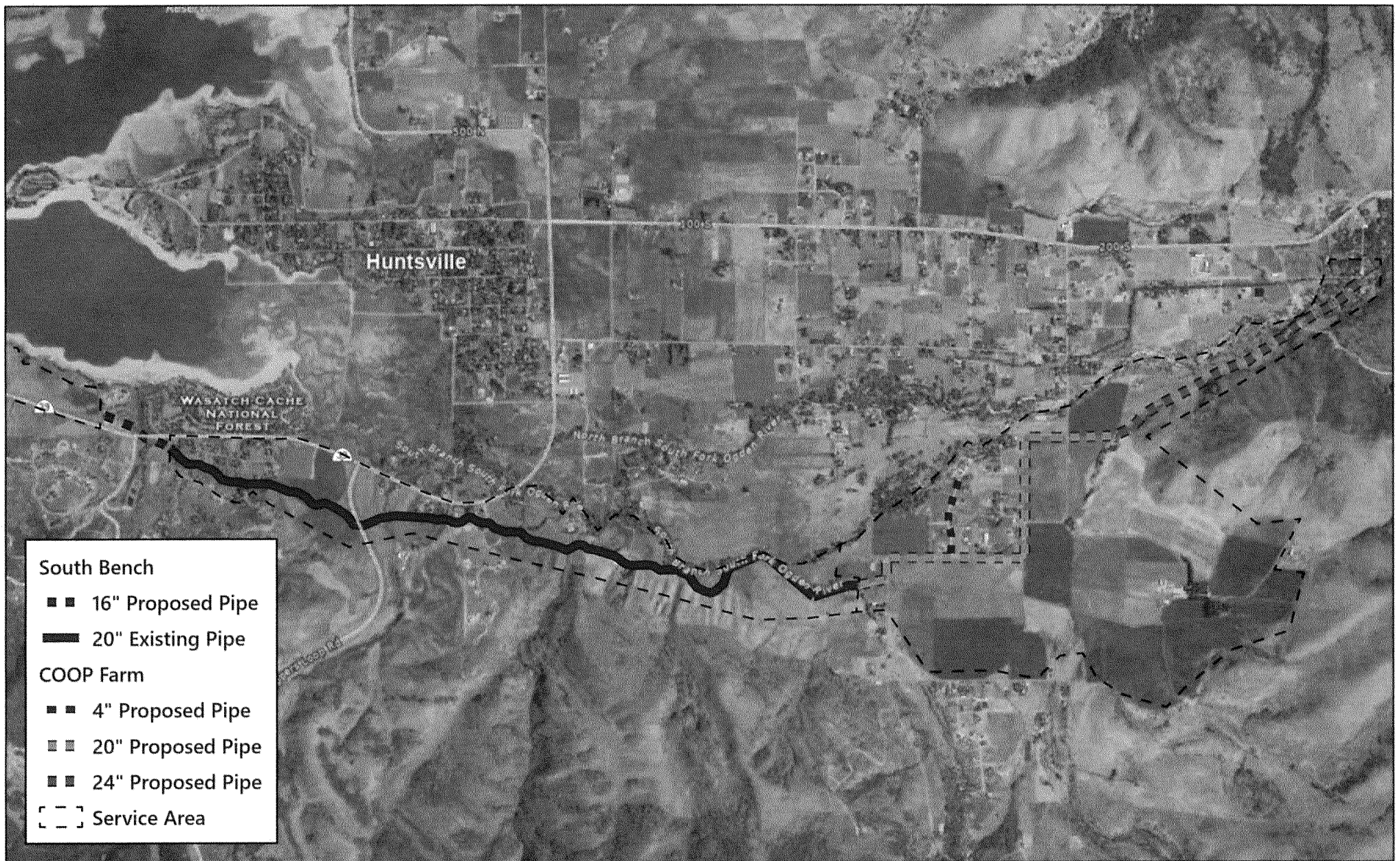
The Lobbying form GG has been attached as part of the completed application.

**Attachment A - Project Location and Project
Detail Maps**

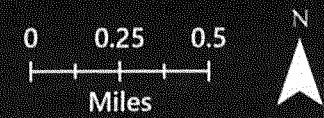


PROJECT LOCATION

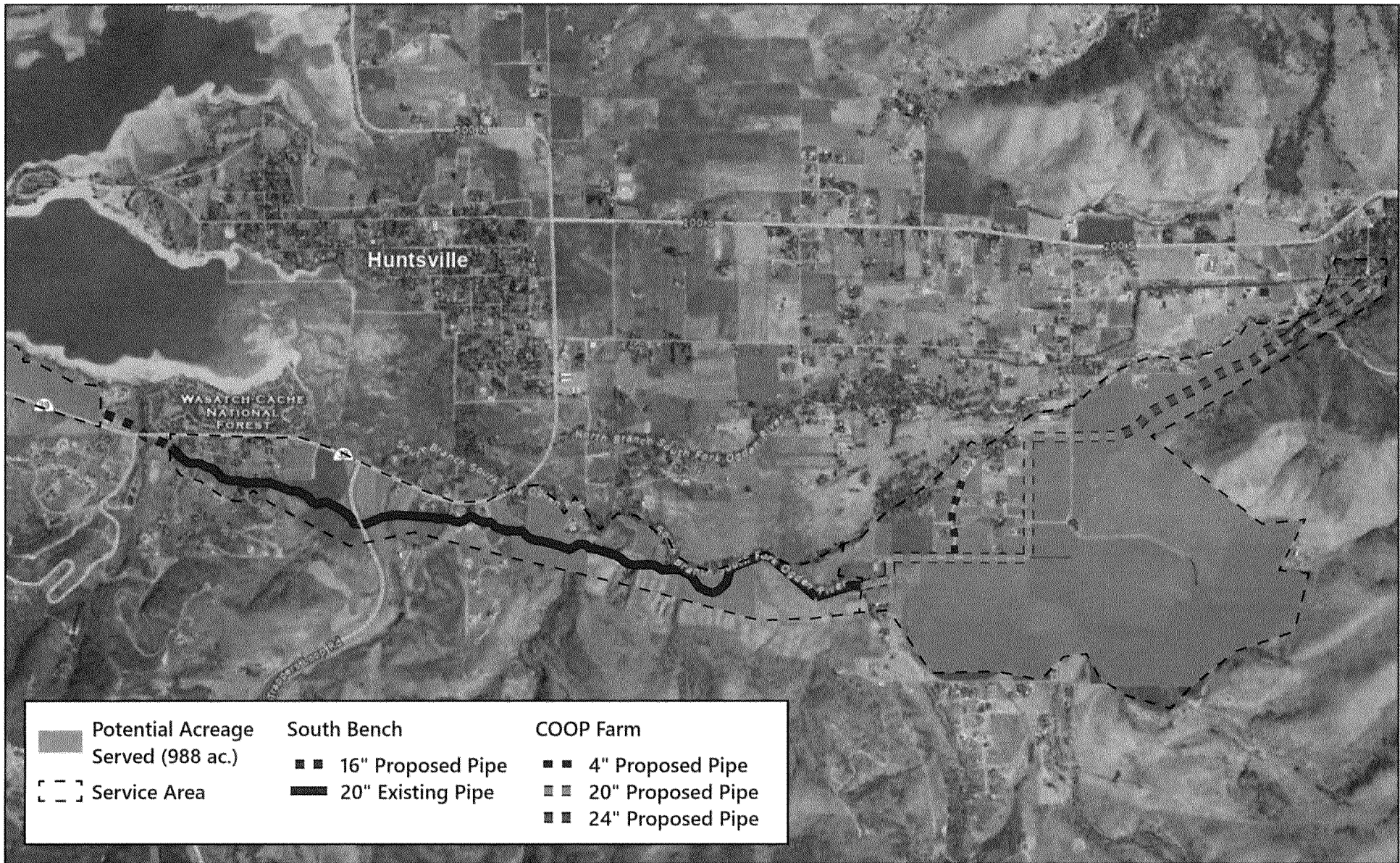




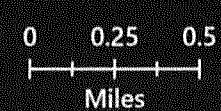
PROJECT DETAIL



**Attachment B - Landowner Signatures and
Associated Acreage**



INTERESTED LAND OWNERS AND ASSOCIATED ACREAGE



South Bench - LAND OWNER SIGNATURES & ACREAGE SUMMARY

SHAREHOLDER NAME	# of Acres
Melissia Porterfield	8.00
Jeff Harrison	21.00
Justin Bennett	1.93
Laura Kramer	1.04
Marian Martin	40.00
Ray Walker	6.00
Ron Buhrley	20.00
TOTAL ACRES	97.97

Huntsville South Bench Canal Company

Landowner Signature Form | July 2022

I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.

Shareholder Name: MARIAN F. MARTIN FOR JENSEN-FOWERS FARM

Number of Acres Irrigated APPROXIMATELY 40

Shareholder Signature Marian F. Martin

Please note:

The Jensen-Fowers Farm, in conjunction with NRCS, is currently in the process of designing a new high efficiency irrigation system including pivots. This system is being designed based on the South Bench Canal Company providing pressurized water to our farm for this system, which will provide the needed water pressure and consistent water quantity with minimized water wasted. This system is a long term irrigation solution for our farm as it is under a Conservation Easement so it will always remain in agricultural production. We appreciate and strongly support pressurizing the irrigation system.

Sincerely,

Marian F. Martin

Marian F. Martin

Huntsville South Bench Canal Company

Landowner Signature Form | July 2022

I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.

Shareholder Name: Justin Bennett

Number of Acres Irrigated 1.93

Shareholder Signature 

Huntsville South Bench Canal Company

Landowner Signature Form | July 2022

I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.

Shareholder Name: Laura Kramer

Number of Acres Irrigated 1.04

Shareholder Signature Laura Kramer

Huntsville South Bench Canal Company

Landowner Signature Form | July 2022

I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.

Shareholder Name: Jeffrey D. Harrison / J+M Real Properties, LLC

Number of Acres Irrigated 21 Shares

Shareholder Signature J D H

Huntsville South Bench Canal Company

Landowner Signature Form | July 2022

I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.

Shareholder Name: Ray Walker

Number of Acres Irrigated 6

Shareholder Signature Ray Walker

Huntsville South Bench Canal Company

Landowner Signature Form | July 2022

I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.

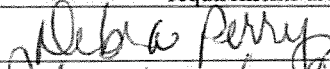
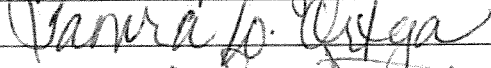
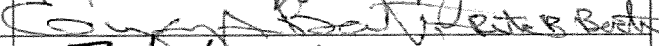


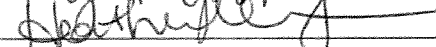


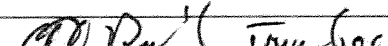


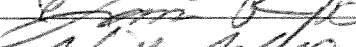







Shareholder Name: Buhrley South Fork Ranch, LLC

Number of Acres Irrigated 20 (?)

Shareholder Signature Tom Buhrley (for Buhrley South Fork Ranch LLC)

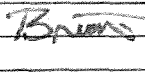
COOP - Landowner Signatures and In-Farm Locations

Name of Canal/Lateral/Ditch Company:

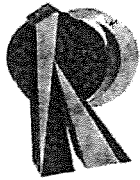
Landowner Name	Claimable Acreage	Landowner Signature I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.
Debra Perry	2.43	
Tamra Ortega	3.0	
GREGORY & RITA BOSICK	4.9	
Paul Wright	2	
Taylor Yonney	1.5	
Heathrow Lovel	3.0	
I do not agree to pipe replacement w/o monies appropriated to repair land to current condition	2.0	 
Edward Thoma RICHT TRUST	96. acres	
Elizabeth and Jeremiah Riley	4.65 acres	
JAMES & TERI BOSICK	3.24 acc	
Huntsville Abbarfarm, LLC	730	
Marianne Welch	1.00	
Scott Whiteber	10.5	
Martin F. Bertram	6	
Jessica Hennig	3	
Paul Joyce	5	
JOHN JACKSON	3	
Gary Kunkel	6	
		See next page
Total Acres		

Landowner Signatures and In-Farm Locations

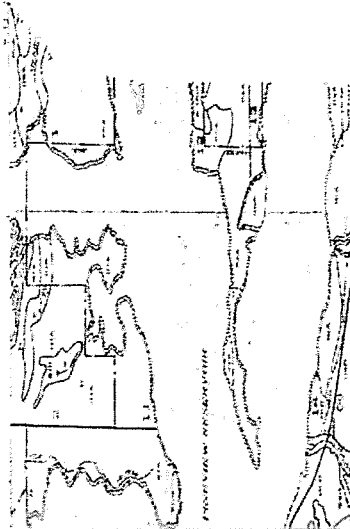
Name of Canal/Lateral/Ditch Company:

<u>Landowner Name</u>	<u>Claimable Acreage</u>	<u>Landowner Signature</u> I am interested in installing a high-efficiency irrigation system and/or upgrading my current technology when sufficient water quantity, quality, and application requirements are met.
Ronald Brian Dean	3.00	 Dean (801) 209 6809
Total Acres		

**Attachment C - Water Management Plan
and System Modeling**



Water Management and Conservation Plan

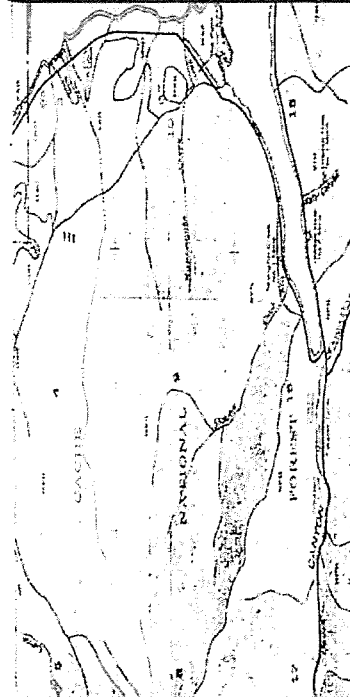


Prepared for:

South Bench Canal Company

Prepared by:

Reeve & Associates, Inc.



3670 Quincy Avenue, Suite 1
Ogden, Utah 84403

801-621-3100
Fax-621-2666

Submitted:

April 5, 2001

Solutions You Can Build On

Section VI - Water Management Issues and Goals

In general, the District has experienced water shortages and canal construction problems since 1969. The water users are trying to deal with the unsafe canal and lack of water as best as possible. The following is a list of water management issues that need to be addressed to improve the overall efficiency and work ability of the project.

Problem - Improve Efficiency

- **Water Measurement**
- **Canal Degradation**
- **Bally Watts and Bennett Creeks Water Supply**
- **Diversion and Siphon Structures**

Water Measurement - Some water measurement structures are needed. The one measurement device that the District has, needs to be closely looked at, making sure that it is in working order and calibrated properly. Measurement structures need to be installed on the South Fork of the Ogden River, Bennett and Bally Watts creeks, and intermittently on the canal.

Canal Degradation - All 3.5 miles of the canal are in dire need of replacement. Degradation of the canal has resulted in most of the water users not receiving adequate water, and the dangerous blow-outs create unpredictable situations. In addition, the soils under and around the canal are not suitable for a concrete canal. **Piping of the canal with joint tight pipe would be an alternative.**

Bally Watts and Bennett Creeks Water Supply - The South Bench Canal Company has water rights to water from the two creeks, due to the crop season and water seepage, the District cannot use any of the water from the creeks. Both of them are dry before they reach the diversion structure during the needed water months. A storage facility and a diversion structure at a different location would supply more water to the users.

Diversion and Siphon Structures - The South Bench Canal's life line, the diversion and siphon structures are currently located at a point of conflict that require attention. The Diversion structure has to be continually cleaned of debris so as to not plug the siphon. The water that comes from the South Fork of the Ogden River is causing serious erosion to take place on the banks, and thus causing the creek to shift south and erode an access road to the diversion and siphon structures and a single family residence. The siphon is in need of repair, and with no grates, poses a potential safety hazard. There is a concern that the siphon may become plugged due to debris and may fail in the near future. This may jeopardize the irrigated crops and may flood out the nearby residents.

Goal 1 - Improve the Efficiency of the District's Water Delivery System

- **Objective** - The District would like to be able to optimize the use of a water delivery system by enabling it to carry their full water right in a safe and efficient manner. The District would eventually like to be able to use the water rights contained within the Bennett and Bally Watts creeks as well as rights from the South Fork of the Ogden River. It is the District's intention to fully utilize all their water rights. The water delivery system needs to be easily accessible for repair and maintenance and the diversion and siphon

structures need to be brought up to acceptable standard.

Measure - The District would like to conduct a thorough evaluation of the canal and complete a feasibility study outlining improvement alternatives and costs. The District would like to have a new diversion structure constructed, the unsafe canal removed, and the water delivery system properly piped to at least the Buhrey farm so they can deliver water to all the water users. The District is also looking at the feasibility of developing a pumping station, accessible for maintenance, a short amount of pressurized pipe, a reservoir, and a pipeline to gravity feed the water to the users. By creating a reservoir the District would be able to use their water rights contained within Bennett and Bally Watts creeks.

The District is continually trying to improve the efficiency and safe manner of the water conveyance system. Starting in the winter of 2000, the District has obtained liability insurance, have manufactured and installed new grates in the pipe, and on the siphon. In the spring of 2001, the entire length of the canal banks will be mowed and cleared of vegetation, and the District is pursuing easements for the length of the canal.

- **Objective** - The District's goal is to implement a new diversion structure from the South Fork of the Ogden River, Bennett and Bally Watts creeks that are reliable, controllable, maintainable, and manages water in a prudent fashion.

Measure - Obtain necessary funding through grants, loans, and possible additional assessments so that a safe and practical diversion can be installed to feed the water delivery system. The District would like to implement the plan of having a new diversion structure very soon, and having it installed in a more suitable location for the District and the adjacent property owners. Funding for the project could be obtained from the Bureau of Reclamation, Weber County Soil Conservation District, Agriculture Resource Development Loan, and the State of Utah Division of Water Resources.

- **Objective** - Provide accurate and fair water delivery to the users within the District. This will allow a more equitable distribution of water, improve accounting, and more efficiently use District water.

Measure - Enabling the District to do this, water measuring devices will have to be installed and maintained. The District will seek additional funding from different agencies and the water users. Technical assistance will also be requested from the different agencies. The District will provide a list of water measurement devices that will be needed, and what location will be the most influential.

Goal 2 - Instigate & Continually Stay Updated and Involved in an Education Program

- **Objective** - All water users should be educated in water conservation practices in keeping with this report and the Bureau of Reclamation.

Measure - The District staff would obtain training from the Bureau of Reclamation and consequently pass the training on to the water users. The water users would be educated and assisted in implementing good water management practices. This would include programs on when it is best to water, and how to conserve water and still obtain optimum results.

Section VII - Identification and Evaluation of Candidate Water Management Measures

Technical Evaluation

The water management measures being considered were investigated to determine what effect they would have on the water supply and at what cost. In the Technical Evaluation Table (next page), water supply “amount,” “efficiency,” and “equity” refer to the effects of the measure on District supplies, efficiency of water use and the fairness water service to the water users. A plus sign means an increase, and a negative sign means a decrease.

Water Delivery System - Improving the canal system will directly benefit the Districts capability of delivering water to it’s users. The deteriorated concrete canal that is currently being used is unsafe with low efficiency. The current canal does not deliver water to many of it’s users. Redoing the entire canal, or piping the canal seems to be the only alternative.

Diversion Structure - Improving diversion will reduce the maintenance necessary and will reduce erosion on the road and flooding to property owners. A new diversion structure will directly benefit the unsafe siphon from accidents and debris clogging. Removing the siphon, installing a new diversion structure appears to be an acceptable alternative for the District and it’s users. The District is also planning ahead for a pumping station to be added to the new diversion structure when necessary funds have been obtained. This will enable the District to promote sprinkler use and water conservation..

Education - This measure would be accomplished by the District receiving training from the Bureau of Reclamation so it can be passed down to the water users. Reclamation will also assist in this measure by providing information in the way of handouts and/or presentations. It is difficult to measure or predict the effect education of water users will have on the District’s water supply; however, any program that provides accurate information should have a positive impact.

Water Measurement - Water measurement is a critical factor in managing water. There is one existing weir in operation that the District has in place on the South Fork. The device is not functioning and monitoring has not been taking place. The District needs to have installed additional water measurement devices installed as discussed previously. They can then properly monitor water usage and water conveyance to the District. Reclamation may be approached for technical and financial assistance in implementing this measure.

District Improvement Study - This Conservation Study is looking at a wide range of alternatives, including piping the canal to the Buhrley farm, piping the entire canal, installing a new diversion structure, and installing a reservoir and pumping system in the future. It appears that the best alternative at this time would be constructing a new diversion structure at a different location, and piping the canal to at least the Buhrley farm.



COOP Ditch & Huntsville South Bench

Pressure Irrigation System Map

COOP Ditch

- 24" Proposed Pipe
- 20" Proposed Pipe

Legend

Huntsville South Bench

- - - 20" Existing Pipe
- 16" Proposed Pipe

- Head Gate
- ⌋ Diversion Structure



**Attachment D - Funding Commitment and
Project Support Letters**

Co-op Farm Irrigation Company, Inc

P.O. Box 404
Huntsville, UT 84317

July 26, 2022

Dear Program Administrator,

The COOP Farm Irrigation Co. Inc. wishes to increase the efficiency of it's water system to conserve valuable water by piping and pressurizing the COOP/South Bench Ditch.

We, the Company, are committed to bringing \$92,021 in cash to meet our portion of the proposed matching project costs referenced in the grant application being submitted to The Bureau of Reclamation for a WaterSMART: Environmental Water Resources Project Grant.

The Company recognizes the importance of water preservation and reliability within our often water-short basin. The water saved through these improvements will benefit water users and the regional environment and will create more drought resilient water delivery systems and help to secure water rights.

Sincerely,



Bill White
Vice-President

July 26, 2022

Bill White, Vice President
COOP Farm Irrigation Co., Inc.
285 S 7200 E
Huntsville, UT 84317

Dear Bill,

Huntsville South Bench Canal Company (HSBCC) is pleased to write in support of the COOP Farm Irrigation Co. Inc. grant application being submitted to The Bureau of Reclamation for a WaterSMART: Environmental Water Resources Project Grant.

We appreciate your efforts to increase the efficiency of your system to conserve valuable water by piping and pressurizing the COOP/South Bench Ditch. We commit to providing our share of the funding, which is approximately 33% of the overall cost of the project. That amount is estimated at approximately \$116,100.00 at this point. It includes upgrades on our current system to make it pressurization compatible, our share of the solar component, plus our 30% share of the 10% not covered by grants that COOP will be paying. We also understand that costs may vary as the project is fully developed and engineering is completed.

HSBCC recognizes the importance of water preservation and reliability within our often water-short basin. The water saved through these improvements will benefit water users and the regional environment and will create more drought resilient water delivery systems and help to secure water rights. Since we receive our water from Weber Basin Conservancy District at the same diversion point as the COOP, we use their canal to convey our water to our specific diversion point. This relationship is crucial to us, and to cooperate with COOP in improving our delivery system is a great boon to our company and shareholders. Without this cooperation, pressurized delivery and its inherent benefits to our water conservation efforts would not be possible.

We strongly support your grant application and appreciate the advancements it will make in water savings and improving water efficiencies in the area.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregory H. Graves". The signature is fluid and cursive, with the first name "Gregory" being the most prominent.

Gregory H. Graves
President
Huntsville South Bench Canal Company

7/26/22

Bill White, Vice President
COOP Farm Irrigation Co Inc
285 S 7200 E
Huntsville, UT 84317

Dear Mr White,

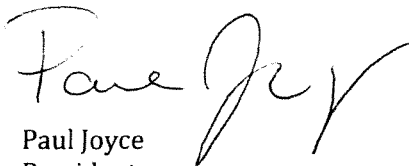
Silver Summit Estates is pleased to write in support of the COOP Farm Irrigation Co. Inc. grant application being submitted to The Bureau of Reclamation for a WaterSMART: Environmental Water Resources Project Grant.

We appreciate your efforts to increase the efficiency of your system to conserve valuable water by piping and pressurizing the COOP/South Bench Ditch. Silver Summit is also willing to commit to bringing \$127,838 in cash to meet our portion of the proposed matching project costs.

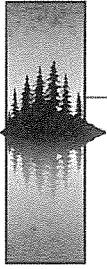
Silver Summit Estates recognizes the importance of water preservation and reliability within our often water-short basin. The water saved through these improvements will benefit water users and the regional environment and will create more drought resilient water delivery systems and help to secure water rights.

We strongly support your grant application and appreciate the advancements it will make in water savings and improving water efficiencies in the area.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Joyce". The signature is fluid and cursive, with a large initial "P" and "J".

Paul Joyce
President
Silver Summit Estates



WEBER BASIN WATER CONSERVANCY DISTRICT

2837 EAST HIGHWAY 193 • LAYTON, UTAH • PHONE (801)771-1677 • SLC (801) 359-4494 • FAX (801) 544-0103

July 26, 2022

Scott W. Paxman, PE
General Manager/CEO

Board of Trustees:

Marlin K. Jensen
President
Weber County

Jared A. Andersen
Morgan County

Mark D. Anderson
Davis County

Kym O. Buttschardt
Weber County

Randy B. Elliott
Davis County

Scott K. Jenkins
Weber County

Angie Osguthorpe
Weber County

Christopher F. Robinson
Summit County

Paul C. Summers
Davis County

Bill White, Vice President
COOP Farm Irrigation Co Inc
285 S 7200 E
Huntsville, UT 84317

Dear Mr. White:

Weber Basin Water Conservancy District is pleased to write in support of COOP Farm Irrigation Co. Inc. application being submitted to the Bureau of Reclamation for a WaterSMART Environmental Water Resources Project Grant. We applaud your efforts to increase the efficiency of your system to conserve valuable water by piping and pressurizing the COOP/South Bench Ditch.

The District recognizes the importance of water preservation and reliability within our service area. This opportunity to collaborate and plan with other water users will help in your efforts to install infrastructure that will create a more efficient and reliable water delivery system that helps provide security to water rights.

We support your grant application and offer our support in the planning process as needed.

Sincerely,

Brad D. Nelson, PE
Assistant General Manager/CTO

Attachment E - SAM Registration Status

CO-OP Farm Irrigation Co Inc began their SAM registration process in March 2022 and has been working on completing the registration since, experiencing several delays with the Federal Service Desk along the way. CO-OP has successfully submitted the entity registration and received a UEI as of 7/25/2022 and is awaiting validation of the IRS and the Defense Logistics Agency (DLA)
Attached is the documentation to back this claim



COOP FARM IRRIGATION CO. INC.

Unique Entity ID PVJ5VGH6J671	CAGE / NCAGE (blank)	Purpose of Registration Federal Assistance Awards Only
Registration Status Work In Progress Registration	Expiration Date Jul 25, 2023	
Physical Address 285 S. 7200 E Huntsville, Utah 84317-9632 United States	Mailing Address PO Box 404 Huntsville, Utah 84317-0404 United States	

Business Information

Doing Business as (blank)	Division Name (blank)	Division Number (blank)
Congressional District Utah 01	State / Country of Incorporation Utah / United States	URL (blank)
MPIN *****arm1		

Registration Dates		
Activation Date (blank)	Submission Date Jul 25, 2022	Initial Registration Date Jul 20, 2022

Entity Dates	
Entity Start Date Mar 28, 1913	Fiscal Year End Close Date Dec 31

Immediate Owner	
CAGE (blank)	Legal Business Name (blank)

Highest Level Owner	
CAGE (blank)	Legal Business Name (blank)

Executive Compensation

In your business or organization's preceding completed fiscal year, did your business or organization (the legal entity to which this specific SAM record, represented by a Unique Entity ID, belongs) receive both of the following: 1. 80 percent or more of your annual gross revenues in U.S. federal contracts, subcontracts, loans, grants, subgrants, and/or cooperative agreements and 2. \$25,000,000 or more in annual gross revenues from U.S. federal contracts, subcontracts, loans, grants, subgrants, and/or cooperative agreements?

No

Does the public have access to information about the compensation of the senior executives in your business or organization (the legal entity to which this specific SAM record, represented by a Unique Entity ID, belongs) through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986?

Not Selected

Proceedings Questions

Is your business or organization, as represented by the Unique Entity ID on this entity registration, responding to a Federal procurement opportunity that contains the provision at FAR 52.209-7, subject to the clause in FAR 52.209-9 in a current Federal contract, or applying for a Federal grant opportunity which contains the award term and condition described in 2 C.F.R. 200 Appendix XII?

No

Does your business or organization, as represented by the Unique Entity ID on this specific SAM record, have current active Federal contracts and/or grants with total value (including any exercised/unexercised options) greater than \$10,000,000?

Not Selected

Within the last five years, had the business or organization (represented by the Unique Entity ID on this specific SAM record) and/or any of its principals, in connection with the award to or performance by the business or organization of a Federal contract or grant, been the subject of a Federal or State (1) criminal proceeding resulting in a conviction or other acknowledgment of fault; (2) civil proceeding resulting in a finding of fault with a monetary fine, penalty, reimbursement, restitution, and/or damages greater than \$5,000, or other acknowledgment of fault; and/or (3) administrative proceeding resulting in a finding of fault with either a monetary fine or penalty greater than \$5,000 or reimbursement, restitution, or damages greater than \$100,000, or other acknowledgment of fault?

Not Selected

Exclusion Summary

Active Exclusions Records?

No

SAM Search Authorization

I authorize my entity's non-sensitive information to be displayed in SAM public search results:

Yes

Entity Types

Business Types

Entity Structure Corporate Entity (Tax Exempt)	Entity Type Business or Organization	Organization Factors (blank)
Profit Structure Non-Profit Organization		

Socio-Economic Types

Check the registrant's Reqs & Certs, if present, under FAR 52.212-3 or FAR 52.219-1 to determine if the entity is an SBA-certified HUBZone small business concern. Additional small business information may be found in the SBA's Dynamic Small Business Search if the entity completed the SBA supplemental pages during registration.

Financial Information

Accepts Credit Card Payments No	Debt Subject To Offset No
---	-------------------------------------

EFT Indicator 0000	CAGE Code (blank)
------------------------------	-----------------------------

Electronic Funds Transfer

Account Type Checking	Routing Number *****7516	Lock Box Number (blank)
Financial Institution AMERICA FIRST FEDERAL CREDIT UNION	Account Number *****49	

Automated Clearing House

Phone (U.S.) 8019993961	Email (blank)	Phone (non-U.S.) (blank)
Fax (blank)		

Remittance Address

**COOP Farm Irrigation CO INC
285 S 7200 E
Huntsville, Utah 84317
United States**

Taxpayer Information

EIN *****3150	Type of Tax Applicable Federal Tax	Taxpayer Name COOP Farm Irrigation CO INC
Tax Year (Most Recent Tax Year) 2022	Name/Title of Individual Executing Consent Vice President	TIN Consent Date (blank)
Address 285 S 7200 E Huntsville, Utah 84317	Signature Bill White	

Points of Contact

Accounts Receivable POC

Debra Perry, Secretary/Treasurer

deb.perry@cbrealty.com
8017457531

Electronic Business

ⓘ Tyson Cunningham tcunningham@jub.com 8015470393	466 N 900 W Kaysville, Utah 84037 United States
--	---

Government Business

ⓘ Tyson Cunningham tcunningham@jub.com 8015470393	466 N 900 W Kaysville, Utah 84037 United States
--	---

Security Information

Company Security Level (blank)	Highest Level Employee Security Level (blank)
-----------------------------------	--

Service Classifications

NAICS Codes

Primary	NAICS Codes	NAICS Title
---------	-------------	-------------

Size Metrics

IGT Size Metrics

Annual Revenue (from all IGTs)
(blank)

Worldwide

Annual Receipts (in accordance with 13 CFR 121) (blank)	Number of Employees (in accordance with 13 CFR 121) (blank)
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Location

Annual Receipts (in accordance with 13 CFR 121) (blank)	Number of Employees (in accordance with 13 CFR 121) (blank)
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Industry-Specific

Barrels Capacity (blank)	Megawatt Hours (blank)	Total Assets (blank)
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Electronic Data Interchange (EDI) Information

This entity did not enter the EDI information

Disaster Response

This entity does not appear in the disaster response registry.

From: donotreply@sam.gov
To: [Tyson Cunningham](#)
Subject: [EXTERNAL] CONFIRMATION: Registration Submitted for COOP FARM IRRIGATION CO. INC. / PVJ5VGH6J671 in the U.S. Government's System for Award Management (SAM)
Date: Monday, July 25, 2022 8:40:35 AM

External Email - This Message originated from outside J-U-B ENGINEERS, Inc.

This email was sent by an automated administrator. Please do not reply to this message.

Dear Tyson Cunningham,

You successfully submitted the entity registration for COOP FARM IRRIGATION CO. INC. / PVJ5VGH6J671 in the U.S. federal government's System for Award Management (SAM). This registration record will remain in Submitted status until all external validations are complete.

What happens next?

1. If you provided a Taxpayer Identification Number (TIN), the Internal Revenue Service (IRS) will conduct a validation of your TIN and Taxpayer Name. This step can take two business days. You will get an email from [SAM.gov](#) when that review is complete.
2. Your registration will then be sent to the Defense Logistics Agency (DLA) Commercial and Government Entity (CAGE) Code system for assignment or validation of your CAGE Code. This step averages two business days, but the DLA CAGE team can take up to ten business days, or longer, in peak periods. You will get an email from [SAM.gov](#) when that review is complete.
3. If the DLA CAGE team has any questions, they will contact the individual you listed as the Government Business Point of Contact (POC) via email. The email will come from a [dla.mil](#) address. Please tell your Government Business POC to respond right away to any requests from a [dla.mil](#) email. If a timely response is not received, your registration will be returned to SAM and your registration status changed to Work in Progress. You will have to resubmit and provide the requested information to DLA CAGE to continue.
4. You will get an email from [SAM.gov](#) when your registration passes these external validations and becomes Active. Until then, use the Check Registration Status link at [SAM.gov](#) to see where your registration is in the review process.
5. If you have not previously submitted a notarized letter formally designating the Entity Administrator for your entity, you must do so now. Failure to do so within 60 days of activation may result in the registration no longer being active. NOTE: You are not required to provide a notarized letter for a federal entity registration.

Remember, this process is entirely FREE to you. It is FREE to register and maintain your registration in SAM. It is FREE to get help with your registration from the Federal Service Desk at www.fsd.gov or by telephone at 866-606-8220 (toll free) or 334-206-7828 (internationally).

In addition, if you are located in the U.S. and its outlying areas, you can get FREE support

from your local Procurement Technical Assistance Center (PTAC), an official resource for government contracting assistance. Go to <http://www.aptac-us.org/> to find your closest PTAC.

Thank you,
The System for Award Management (SAM) Administrator
<https://sam.gov>