



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Supply Reserve Fund

Water Project Summary

Name of Applicant	Agricultural Ditch and Reservoir Company		
Name of Water Project			
Basin Account Request Subtotal			\$100,000.00
Applicant Cash Match			\$25,000.00
Applicant In-Kind Match			\$0.00
Basin Requests			
Sources of Funding			

Applicant & Grantee Information

Name of Grantee: Agricultural Ditch and Reservoir Company
Mailing Address: 12700 W 27th Ave Lakewood CO 80215
FEIN: 840,001,700

Organization Contact: Anthony Cline
Position/Title: Email: anthony@agditch.com
Phone: 706-581-1804

Organization Contact - Alternate: Lucy Harrington
Position/Title: Email: lharrington@geiconsultants.com
Phone: 720-255-3029

Grant Management Contact: Anthony Cline
Position/Title: Email: anthony@agditch.com
Phone: 706-581-1804

Grant Management Contact - Alternate: Anthony Cline
Position/Title: Email: anthony@agditch.com
Phone: 706-581-1804

Agency Information

Agency Type	Ditch Company
Current Assessment	\$80.00
Number of Shareholders or Customers	237
Number of Shares	8,000
Number of Taps	
Average Monthly Water Bill	
Annual Water Delivery (acre-feet)	667

Description of Grantee/Applicant

The Agricultural Ditch and Reservoir Company is a non-profit mutual ditch company on Clear Creek. We are seeking funding and financing support for a number of projects that have been identified to repair and enhance

the infrastructure along the ditch and reservoirs. Additionally, we want to bring the ditch system and operation up to meet evolving state standards and expectations.

Location of Water Project

Latitude 0.000000
 Longitude 0.000000
 Lat Long Flag
 Water Source
 Basins
 Counties
 Districts

Water Project Overview

Major Water Use Type
 Type of Water Project
 Scheduled Start Date - Design 10/23/2022
 Scheduled Start Date - Construction 10/23/2022
 Description

Measurable Results

0 New Storage Created (acre-feet)
 0 New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
 0 Existing Storage Preserved or Enhanced (acre-feet)
 0 New Storage Created (acre-feet)
 0 Length of Stream Restored or Protected (linear feet)
 \$0 Efficiency Savings (dollars/year)
 0 Efficiency Savings (acre-feet/year)
 0 Area of Restored or Preserved Habitat (acres)
 0 Quantity of Water Shared through Alternative Transfer Mechanisms or water sharing agreement (acre-feet)
 0 Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
 0 Number of Coloradans Impacted by Engagement Activity
 Other
 No additional measurable results provided

Executive Summary for South Platte Basin Roundtable

Water Supply Reserve Fund: Category 1- Develop or Advance Multi-Purpose Water Supply

Section 1-Promoting the South Platte Basin Implementation Plan

Our organization, the Agriculture Ditch and Reservoir Company (ADRC), oversees a water delivery system comprised of nine storage reservoirs and numerous delivery ditches. This system incorporates a geographic area ranging from locations over 10,000 feet above mean sea level in Arapaho National Forest to the City of Lakewood, spanning both the South Platte and Metro roundtable basins. The ADRC infrastructure has been providing water to our primary service area in the Denver-Metro area since the 1860's, pre-dating Colorado statehood. During this time, our primary clientele has shifted from traditional agriculture to industrial and residential customers, reflecting the economic and demographic changes along Colorado's Front Range over the past 160 years. The needs of our system have shifted as our end users' needs have adjusted, and the ADRC is now seeking Water Supply Reserve Fund (WSRF) grant funds from the South Platte Basin Roundtable, primarily related to Category 1 funds (Develop or advance multi-purpose water supply) with additional benefits to Category 2 (Improve municipal and industrial water efficiency) and Category 5 (Protect and enhance the environment and water-based recreation), per the August 2020 guidelines. We are currently seeking WSRF grants from the Metro and South Platte basin roundtables and the CWCB, as well as other state and federal sources, to holistically address current system demands and plan for future needs.

The overall goal of our project is to modernize our infrastructure to provide the best service possible to our shareholders, maintain our ability to be good stewards of Colorado water, and enhance our ability to react quickly should issues occur. This work will benefit all stakeholders - our shareholders, the City of Lakewood, and the Arapaho National Forest where our reservoirs reside.

To reach this goal, our 20-year plan includes the implementation of efficiency- and innovative-focused improvements to our water storage and supply system to maximize the use of our native South Platte watershed supplies while promoting multi-purpose storage projects that enhance other South Platte objectives, as specifically identified in goals 2.B and 2.C of the 2022 Basin Implementation Plan (BIP). These improvements to our existing infrastructure may include upgrading existing dams and spillways to incorporate new technologies and/or climate change resiliency measures, the installation of automated headgates, deploying more precise water measurement devices, lining ditches, and identifying and decreasing sources of sedimentation as described in goal 6.A.2 of the BIP. By investing in these improvements, we will increase our ability to utilize our existing water rights and ensure adequate water for the future municipal, industrial, recreational, and environmental demands which we anticipate throughout our service area. Once installed, these gained efficiencies may also allow for additional future storage and/or expansion of existing reservoirs and water delivery infrastructure that can provide alternatives to agricultural dry-up within the Metro and South Platte basins and other regions of the state, including within the Colorado River basin, as prioritized in goal 5.A of the BIP.

In addition to increasing water conservation and capacity directly within our delivery system, we are actively pursuing watershed planning grants through the Natural Resources Conservation Service and the U.S. Forest Service. These grants will aid in wildfire mitigation and flood resiliency efforts to further ensure reliable water delivery and overall watershed resiliency. This will provide advantages to our long-term water operations and have a positive impact on recreation (BIP goal 8.B), the environment, and the communities that rely on sustainably managed forests within the South Platte basin for their health, safety, and economic benefits (BIP goal 6.A.1).

To strategically identify the most pressing needs of our system, our first step is to complete a Comprehensive Dam Safety Evaluation (CDSE) for the dams impounding our two headwater reservoirs, Loch Lomond Dam and Fall River Dam. The CDSE process is intended to evaluate Potential Failure Modes for high and significant hazard dams so that maintenance and safety improvements can be prioritized in a risk-based setting. These technical evaluations will allow for the future creation of a weighted ranking system to prioritize projects with the highest and best value that will allow us to reach our goal.

Section 2- Project Urgency and Readiness

With the ongoing drought conditions in Colorado, it is increasingly imperative to fully utilize our limited water resources both regarding water availability and existing senior municipal and industrial-related water rights. By performing a full examination of our two key headwater reservoirs we will improve our ability to identify where current inefficiencies exist and plan to address future climate-associated challenges such as wildfire (BIP goal 6.A.5), further reduced snowpack, and increased rainstorm severity and frequency. This will allow us to take targeted action in advance of the catastrophic flood or fire events to help protect Front Range water supplies. Additionally, our increased knowledge of the condition of our system may allow us to understand opportunities for additional storage, reducing the demand for agricultural dry-up in the region and environmental impacts resulting from the construction of new dams or in-channel diversions (6.A).

Because of the urgency of these issues within the South Platte basin, we anticipate the Loch Lomond and Fall River CDSEs to be completed within approximately 6-9 months of receiving the initial release of the grand funding. Upon completion of these documents, additional grant applications with project-specific timelines and budgets will be developed targeting the identified priority projects. The finalized assessment of these reservoirs will complement our CDSE for Smith Reservoir, located in Lakewood, which we are currently undertaking entirely out-of-pocket.

Section 3- Matching Funds

The initial project cost is estimated at \$100,000 for both of the CDSE reports. We are prepared to contribute \$25,000 directly to this process as cost share. Should grant funds from the Metro and South Platte basin roundtables be insufficient to cover the report costs, we will seek additional funds from the statewide WSRF process and/or CWCB Water Plan grants. Once the CDSEs are completed, we anticipate the preparation of another round of grant applications to the roundtables as well as to CWCB and other state, federal and non-profit entities to implement the identified priority projects. We may also seek loans from the state to cover these eventual costs.

Section 4- Measurable Outcomes


The CDSEs will be performed by the ADRC in close coordination with our consultant team. We will work closely with the State Engineer's Office (SEO) to review the CDSEs through in-person workshops and revise these documents for final review and approval. This process will provide quality assurance to these planning documents and allow for a solid basis of understanding of current and desired conditions from which we can move forward on assumptions and future project planning.

We appreciate your consideration of our application and look forward to the opportunity to engage fully with the Metro and South Platte basin roundtables to address key priorities throughout the region.

MAPS

ADRC CDSE Reservoirs

Legend

 Reservoir

Loch Lomond Reservoir (WRSF funds sought)

Fall River Reservoir (WRSF funds sought)

Smith Reservoir (out of pocket)

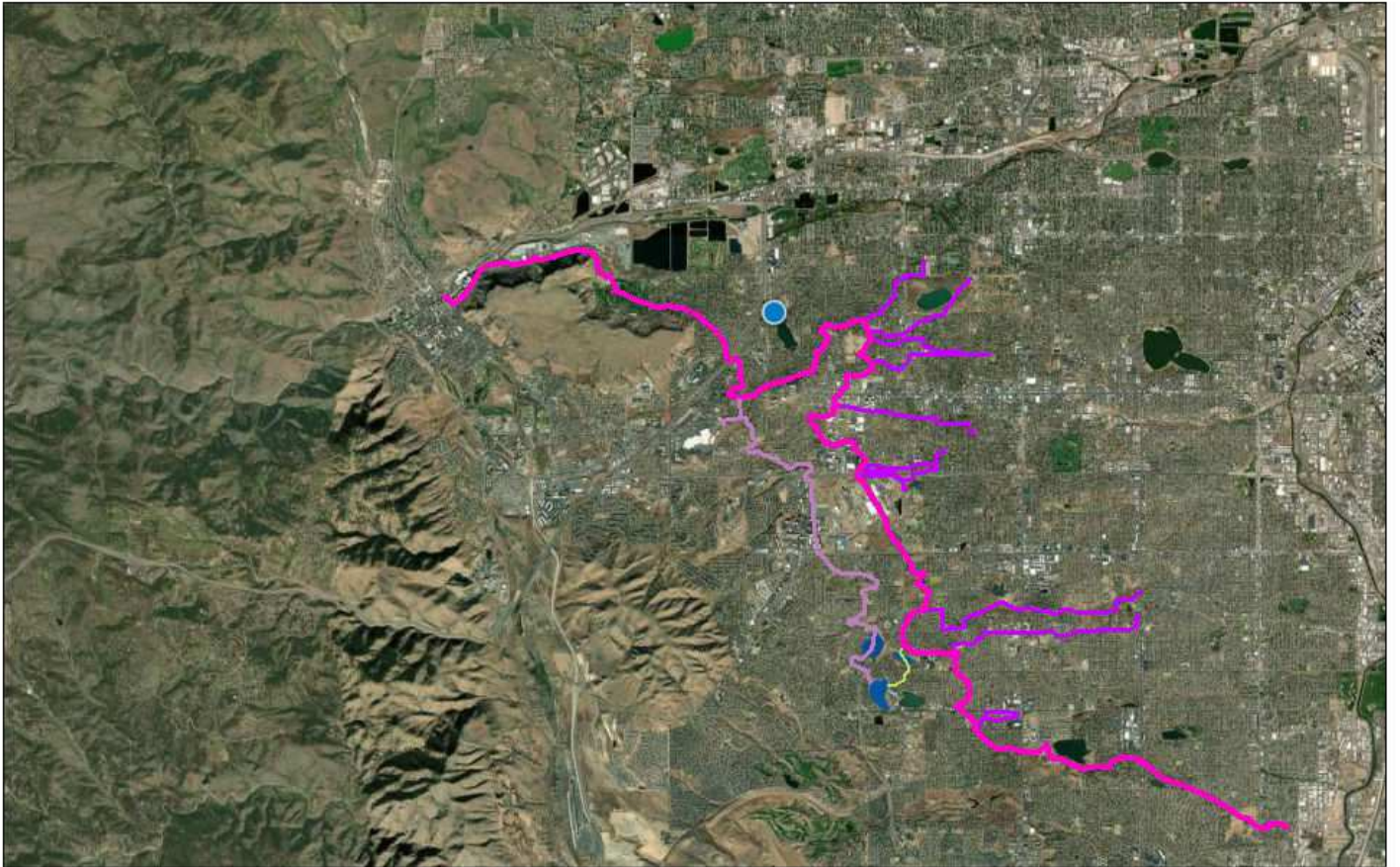
Google Earth

Image Landsat / Copernicus



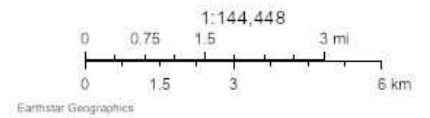
20 mi

ADRC Lower Ditch System



8/19/2022, 10:29:58 AM

- AGD & GLD Ditch Main Line
- Ag Ditch- Main Line
- Smith Res Outfall
- Smith and East Res Outfall
- Welch Ditch Main Line
- Reservoirs
- Ditch Laterals



ArcGIS Web AppBuilder
Earthstar Geographics |

LETTER OF COMMITMENT

THE AGRICULTURAL DITCH AND RESERVOIR COMPANY

THE GOLDEN CANAL AND RESERVOIR COMPANY
12700 W. 27th Avenue, Lakewood, Colorado 80215

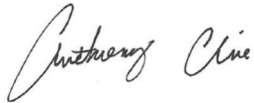
Dear South Platte Basin Roundtable,

We're very grateful for the opportunity to apply for the WRSF grant. As referenced in our application, our reservoirs are extremely important in our efforts to deliver water to our stockholders and serve the local community. Loch Lomond and Fall River are critical storage and distribution infrastructures that allow Agricultural Ditch and Reservoir Company to be good stewards of Colorado water.

If approved for the grant, Agricultural Ditch and Reservoir Company would be happy to commit \$25,000 to the CDSEs. This financial obligation reinforces our commitment to improve and repair critical infrastructure. After the CDSEs are completed and we have a better understanding of the improvements needed, we're fully committed to developing a plan that will propel the company into the next 100 years.

Again, thank you for your consideration, and I look forward to fostering and developing a wonderful partnership with the South Platte Roundtable.

Best Regards,

A handwritten signature in black ink that reads "Anthony Cline". The signature is written in a cursive style with a large initial 'A'.

Anthony Cline, General Manager