



Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	Terrace Irrigation Company
Name of Water Project	Terrace Irrigation Water Efficiency Project
Grant Request Amount	\$463,094.00
Primary Category	\$463,094.00
<i>Agricultural Projects</i>	
Total Applicant Match	\$56,405.00
<i>Applicant Cash Match</i>	\$40,000.00
<i>Applicant In-Kind Match</i>	\$16,405.00
Total Other Sources of Funding	\$499,300.00
<i>NRCS</i>	\$499,300.00
Total Project Cost	\$1,018,799.00

Applicant & Grantee Information

Name of Grantee: Terrace Irrigation Company
Mailing Address: PO Box 109 Monte Vista CO 81144
FEIN: 840,412,531

Organization Contact: Nikita Cooper
Position/Title: Email: nikita@notes-numbers.com
Phone: (719) 849-8710

Organization Contact - Alternate: Virginia Christensen
Position/Title: Secretary/Treasurer Email: forage1@gojade.org
Phone: 719-5802562

Grant Management Contact: Nikita Cooper
Position/Title: Email: nikita@notes-numbers.com
Phone: (719) 849-8710

Grant Management Contact - Alternate: Virginia Christensen
Position/Title: Secretary/Treasurer Email: forage1@gojade.org
Phone: 719-5802562

Description of Grantee/Applicant

No description provided

Type of Eligible Entity

- ☐ Public (Government)
☐ Public (District)
☐ Public (Municipality)
☐

- ☒ Ditch Company
- ☐ Private Incorporated
- ☐ Private Individual, Partnership, or Sole Proprietor
- ☐ Non-governmental Organization
- ☐ Covered Entity
- ☐ Other

Category of Water Project

- ☒ Agricultural Projects
Developing communications materials that specifically work with and educate the agricultural community on headwater restoration, identifying the state of the science of this type of work to assist agricultural users among others.
- ☐ Conservation & Land Use Planning
Activities and projects that implement long-term strategies for conservation, land use, and drought planning.
- ☐ Engagement & Innovation Activities
Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website.
- ☐ Watershed Restoration & Recreation
Projects that promote watershed health, environmental health, and recreation.
- ☐ Water Storage & Supply
Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap.

Location of Water Project

Latitude	37.302143
Longitude	-106.147974
Lat Long Flag	Ditch diversion structure location: Coordinates based on ditch's diversion structure
Water Source	Alamosa River and Terrace Reservoir
Basins	Rio Grande
Counties	Rio Grande; Conejos
Districts	21-Alamosa La Jara

Water Project Overview

Major Water Use Type	Agricultural
Type of Water Project	Construction
Scheduled Start Date - Design	
Scheduled Start Date - Construction	11/1/2023

Description

This project is to increase water efficiency through the Terrace Irrigation system as the area continues to find new solutions to decrease pumping and mitigate pumping effects on the confined aquifer. Increased system wide efficiency and increased on-farm efficiency throughout the area is important to the stakeholders involved. Water efficiency will be improved through two sites: Site 1 (Alamosa Creek Canal) and Site 2 (Lateral on Terrace Main Canal). Site 1 will have 3,050 feet of 36", 80 psi PVC Pipe installed and Site 2 will have 2,820 feet of 21", 80 psi PVC Pipe installed. Preliminary cost estimates have been provided by NRCS engineers and planners. Engineering and planning costs will be provided as an in-kind match by NRCS. NRCS EQIP funding will be used for 50% of the pipeline project. CWP funding is being requested for the remaining 45% of total project costs. 4%

of the funding would be applicable Cash Match and 1% Inkind Match.

These two sites carry direct flow water and storage water from the Terrace Reservoir on the Alamosa River. These sites need to be modernized and upgraded to meet current demands and drought pressure. This project will decrease water loss and improve agricultural efficiency in an over pumped basin. The economy of this basin is directly supported with agriculture with the majority of crops being alfalfa, barley, seed canola, oats, and other small grains and forage crops.

Measurable Results

	New Storage Created (acre-feet)
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
	New Storage Created (acre-feet)
	Length of Stream Restored or Protected (linear feet)
	Efficiency Savings (dollars/year)
1,450	Efficiency Savings (acre-feet/year)
	Area of Restored or Preserved Habitat (acres)
	Quantity of Water Shared through Alternative Transfer Mechanisms or water sharing agreement (acre-feet)
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
	Number of Coloradans Impacted by Engagement Activity
Other	
No additional measurable results provided	

Water Project Justification

Terrace Irrigation Company was incorporated in the 1940's. The company is a 501-C-12 nonprofit irrigation corporation with approximately 24 shareholders and about 9,000 acres of farmland under irrigation. Terrace Irrigation Company, Inc. is the owner of Terrace Reservoir which was built in the early 1900's on the main stem of the Alamosa River. At that time, it was the largest earthen dam in the U.S. Terrace Irrigation Company delivers surface water to the shareholders from two sources: 1.) direct flow from the Alamosa River with various priorities; and 2.) stored winter flows and peak runoff during the irrigation season. This stored water is appropriated to each shareholder according to their number of shares. Each shareholder can call for their water as needed for each individual farming operation. This project supports the Rio Grande Basin Implementation Plan in the following ways. Rio Grande Basin Implementation Plan and Education Action Plan (rgbirt.org/funding-opportunities)

Number 3. Sustain the confined and unconfined aquifers in accordance with Senate Bill 04-222 and operate within the State Engineer's new Rules and Regulations for the San Luis Valley. The Terrace Irrigation system lays within the boundary of Sub-District 6 which is continuing their efforts to decrease pumping and mitigate effects on the confined aquifer. This project will increase surface water delivery efficiency allowing farms to better utilize their surface water to decrease pumping. Higher priorities are used at very low efficiency currently as those priorities are delivered through a dirt ditch system. This project would allow the system to better utilize higher priorities during high water run off periods.

Number 4. Operate, maintain, rehabilitate, and create necessary infrastructure to meet the Basin's long-term water needs, including storage. The basin's primary water needs are agriculture irrigation. This project helps to improve water efficiency to deliver water to the farms.

Number 5. Manage water use to sustain optimal agricultural economy through the Basin's communities. The basin's current economy and communities are extremely stressed due to drought conditions that persist. These types of new solutions are needed to sustain the aquifer and meet Ground Water rules in order to keep farms in business and agricultural support-businesses operating.

This water activity supports the goals of the Colorado Water Plan:

D. Agriculture: Maintain Agricultural Viability: Maintain Colorado's agricultural productivity, support of rural economies, and food security.

CRITICAL AGRICULTURE ACTIONS

3. Provide grants, loans, and technical support to update and improve Colorado's aging agricultural infrastructure, especially where improvements provide multiple benefits. 6.5, 6.3.4 CWCB, BRTs, agricultural partners, other stakeholders.

Related Studies

Under contract to the Colorado Water Conservation Board, the Alamosa River Watershed Restoration Master Plan Environmental Assessment Final Report was produced. The incentive for the Master Plan was provided by a legal settlement over impacts of the Summitville Mine Superfund Site. That settlement also provided funding for the study and mitigation measures to be developed by the Master Plan. The scope of the Master Plan includes the entire watershed and covers a broad array of natural resources and watershed functions and values. The result is a multi-disciplinary approach to watershed assessment that has produced a prioritized plan for watershed restoration and enhancement. Specific projects are identified, along with potential financing sources, including funds from the Summitville legal settlement. The Master Plan is available at:

<http://mountainprairie.fws.gov/nrda/summitvilleColo/Summitville.htm>

Taxpayer Bill of Rights

No Tabor issues