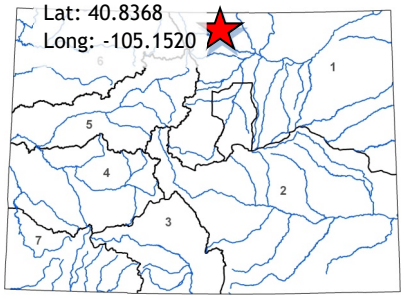
COLORADO
Colorado Water Conservation Board

Water Plan Grant Application

The Park Creek Enlargement Modification
North Poudre irrigation Company

September 2022 Board Meeting



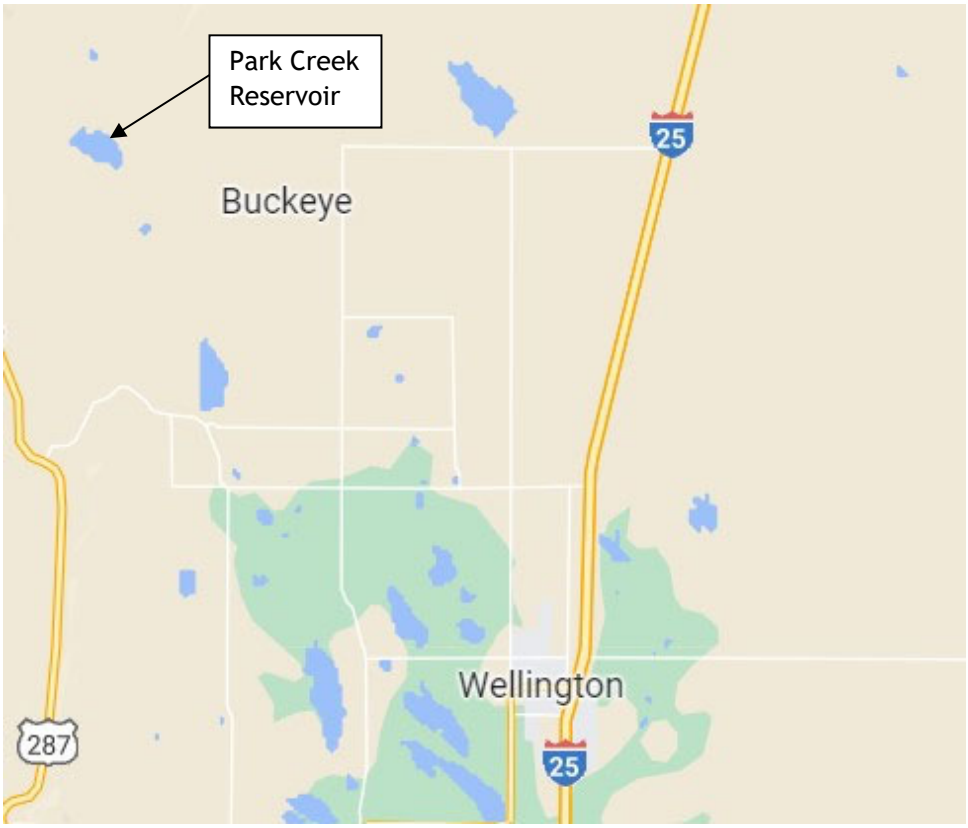
LOCATION	
County/Counties:	Larimer
Drainage Basin:	South Platte

DETAILS	
Total Project Cost:	$200,000
Water Plan Grant Request:	$100,000
Other CWCB Funding:	$100,000 (CWCB loan)
Other Funding Amount:	$0
Applicant Match:	$100,000 (CWCB loan)
Project Type(s):	Construction
Project Category:	Water Storage and Supply
Measurable Result:	3,050 AF created

The North Poudre Irrigation Company (Company) is a mutual ditch company that was incorporated in 1901. The Company provides water to 250,000 residents and 23,000 acres of agricultural land in north-central Colorado through a system of 21 reservoirs and 200 miles of canals, ditches and laterals.

This project will design the rehabilitation and enlargement of Park Creek Reservoir. The enlargement will consist of installing a wall along the length of the existing dam crest along with a 10 foot buttressed concrete overflow weir in the spillway. This will allow the normal water storage level to be raised by 10. The project will be funded in conjunction with a CWCB loan for the remainder of the design cost and the total cost of construction (September 2022 Board Meeting agenda item 10e.)

Funding Recommendation: Staff recommends approval of the full request in the amount of $100,000 from the Water Storage and Supply Category. This is approximately 50% of the total project cost. This project aligns with the Water Plan's measureable goal of creating 400,000 AF of water storage by 2050 by providing new storage in the South Platte basin



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Department of Natural Resources

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Water Plan

Water Project Summary

Name of Applicant	North Poudre Irrigation Company	
Name of Water Project	The Park Creek Enlargement Modification	
Grant Request Amount		**$100,000.00**
Primary Category		$100,000.00
Water Storage & Supply		
Total Applicant Match		**$100,000.00**
Applicant Cash Match		$100,000.00
Applicant In-Kind Match		$0.00
Total Other Sources of Funding		**$0.00**
Total Project Cost		**$200,000.00**

Applicant & Grantee Information

Name of Grantee: North Poudre Irrigation Company
Mailing Address: 3729 Cleveland Avenue Wellington CO 80549
FEIN: 840,281,680

Organization Contact: Cali Gunter
Position/Title: Corporate Secretary
Phone: 970-568-3612
Email: cgunter@npicwater.com

Organization Contact - Alternate: Tad Moen
Position/Title:
Phone: 970-568-3612
Email: tmoen@npicwater.com

Grant Management Contact: Cali Gunter
Position/Title: Corporate Secretary
Phone: 970-568-3612
Email: cgunter@npicwater.com

Grant Management Contact - Alternate: Tad Moen
Position/Title:
Phone: 970-568-3612
Email: tmoen@npicwater.com

Engineering Contact: Tara Schutter
Position/Title: President
Phone: 3037109108
Email: tara@tessarawater.com

Description of Grantee/Applicant

North Poudre Irrigation Company is a mutual ditch company that supplies water to an area of northeasters Larimer County and western Weld County in north-central Colorado. We have a long history of serving this part of the state and we're proud of the role our Company has played over the years in supporting the work of local farmers and ranchers and growing municipalities. The North Poudre Irrigation Company officially came into being

in August 1901. The NPIC system includes 19 reservoirs and about 200 miles of delivery canals, ditches, and laterals. Our intent is to keep an agricultural core, serve our current shareholders, and adapt to the water situation of the 21st century.

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	40.836750
Longitude	105.152000
Lat Long Flag	Reservoir location: Coordinates based on location of reservoir
Water Source	North Fork of the Cache La Poudre
Basins	South Platte
Counties	Larimer
Districts	3-Cache La Poudre River

Water Project Overview

Major Water Use Type	Agricultural
Type of Water Project	Construction
Scheduled Start Date - Design	7/1/2022
Scheduled Start Date - Construction	9/1/2022

Description

The proposed rehabilitation and expansion will raise the normal water storage level ten (10) feet. providing approximately 3050 ac-ft of additional water storage. The dam crest is raised five (5) feet. The construction of an MSE Wall on the dam crest provides the necessary freeboard. The Park Creek Dam water storage expansion project will also include improved risk reduction features to improve the safety of Park Creek Dam and reduce the risk of a dam failure incident.

Measurable Results

3,050	New Storage Created (acre-feet)
3,050	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
3,050	Existing Storage Preserved or Enhanced (acre-feet)
3,050	New Storage Created (acre-feet)
0	Length of Stream Restored or Protected (linear feet)
	Efficiency Savings (dollars/year)
3,050	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)
250,000	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
250,000	Number of Coloradans Impacted by Engagement Activity

Other

Efficiency savings - Early construction of the upstream berm has a projected construction cost savings of $164,000.

Water Project Justification

Increased storage at Park Creek Reservoir provides many advantages including improved water management for agricultural use, increased water storage capacity when water is physically available, additional shoreline wetland and riparian habitat and recreational benefits. The project also provides additional drought carryover water storage and improves the overall water resource management. The proposed rehabilitation and expansion will raise the normal water storage level ten (10) feet. providing approximately 3050 ac-ft of additional water storage. The Park Creek Dam water storage expansion project will also include improved risk reduction features to improve the safety of Park Creek Dam and reduce the risk of a dam failure incident. The early design and construction of the upstream stability berm is consistent with the Park Creek Expansion Project and is time sensitive. The current water supply and water management projections indicate the reservoir will be at or near dead pool during the fall of 2022. The rapid design and construction of the upstream berm would preserve valuable water if the 2023 water year would not require unnecessary draining of the reservoir in 2023 and potential loss of the water resource. The construction of the upstream berm in 2022 is cost effective and consistent with the construction of the reservoir water storage expansion modification project. The slope stability berms are required for the expansion and are also a dam safety risk reduction modification to meet acceptable slope stability risk criteria. The Park Creek Reservoir Expansion Project provides economic benefit to over 250,000 people in northeastern Larimer County and western Weld County. The social benefits include a more robust water storage and supply system for northeastern Larimer County and western Weld County in north-central Colorado. The expansion of Park Creek Reservoir will have a positive impact on the NPIC service area which encompasses approximately 300 square miles and additional service area covering 14 communities and municipal water providers that own NPIC shares. The NPIC infrastructure is important to North Central Colorado economy. NPIC provides water to the cities of Fort Collins and Greeley, and the towns of Ault, Eaton, Nunn, Pierce, Severance, Wellington, and Windsor. Water district stockholders include the North Weld County, East Larimer County, and Fort Collins-Loveland water districts. Over 250,000 people in northeastern Larimer

County and western Weld County get their water from our company. About 23,000 acres of agricultural land are irrigated with NPIC water.

Related Studies

"Park Creek and Dam Feasibility Study For Water Storage and Expansion NPIC June 2022" - The study is uploaded with this application.

Taxpayer Bill of Rights

None