COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	Pikes Peak Regional Water Authority
Name of Water Project	El Paso County Indirect Potable Reuse Project (IPR Project)
Grant Request Amount	**$249,900.00**
Primary Category	$249,900.00
Conservation & Land Use Planning	
Total Applicant Match	**$100,025.00**
Applicant Cash Match	$57,500.00
Applicant In-Kind Match	$42,525.00
Total Other Sources of Funding	**$0.00**
Total Project Cost	**$349,925.00**

Applicant & Grantee Information

Name of Grantee: Pikes Peak Regional Water Authority
Mailing Address: 27 E Vermijo Avenue Colorado Springs CO 80903

Organization Contact: Jenny Bishop
Position/Title: Project Engineer, IV
Email: jbishop@csu.org
Phone: 719-668-8575

Grant Management Contact: Jenny Bishop
Position/Title: Project Engineer, IV
Email: jbishop@csu.org
Phone: 719-668-8575

Description of Grantee/Applicant

The Pikes Peak Regional Water Authority is made up of special districts and municipalities in El Paso County and is sponsored by El Paso County Commissioners.

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	38.713613
Longitude	-104.720964
Lat Long Flag	
Water Source	Reusable water supplies would be diverted off of Fountain Creek at the Chilcott Ditch.
Basins	Arkansas
Counties	El Paso
Districts	10-Fountain Creek

Water Project Overview

Major Water Use Type	Municipal
Type of Water Project	Study
Scheduled Start Date - Design	9/23/2024
Scheduled Start Date - Construction	

Description

Pikes Peak Regional Water Authority (PPRWA) desires to leverage existing infrastructure to promote efficient use and reuse of water supplies for at least 11 different water providers in El Paso County. The Indirect Potable Reuse Project (IPR Project) is contemplated to divert water from Fountain Creek, a tributary of the Arkansas River, via the Chilcott Ditch for use and reuse by regional water providers. IPR Project participants would use locally available water supplies including waters converted from agricultural and irrigational use to municipal use, Denver Basin groundwater supplies, wastewater return flows, including consumptive reuse, to run through the IPR Project and provide each system potable water. The project would initially be sized to accommodate 5 million gallons per day (mgd) to satisfy water supply needs of entities with fewer than 20,000 customers. Potential future scale up to deliver 15 mgd would enable Colorado Springs Utilities to increase local water efficiency.

This IPR Project feasibility study builds upon previous work completed by IPR Project participants to develop the overall project and evaluate specific items including requirements for existing and new infrastructure, raw water reservoir storage sizing analysis, qualitative water quality analysis, phasing options, and conceptual designs and drawings for infrastructure.

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)
Length of Pipe, Canal Built or Improved (linear feet)
Efficiency Savings (dollars/year)
5,600 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

This project would leverage existing infrastructure to maximize the efficient use and reuse of water supplies of at least eight different water providers in El Paso County.

Water Project Justification

The IPR Project supports numerous 2023 Colorado Water Plan goals. It supports Vibrant Communities and Resilient Planning by including thoughtfully planned, locally available storage to help meet growth and future uncertainty by storing supplies needed for reliable and safe drinking water. The IPR Project maximizes the efficient use and reuse of legally available water supplies for multiple participants and therefore meets the Meeting Future Water Needs goal of optimizing investments in infrastructure and increasing efficiency. By being downstream of the majority of wastewater treatment plant outfalls in El Paso County, the IPR Project supports Wise Water Use by diverting reusable return flows that are legally and physically available for use in El Paso County. The IPR Project leverages integrated planning by collaborating with both PPRWA participants and Colorado Springs Utilities to leverage existing infrastructure and projects to benefit multiple participants in the Pikes Peak Region. Resiliency will be improved by providing redundancy and diversifying water supplies and water supply systems for multiple participants.

Related Studies

TM 6-E.2.2 Geotechnical Data Report for Williams Creek Reservoir
TM 6-E.4.1 Williams Creek Dam and Reservoir – Dam and Appurtenant Facilities Concept
TM 6-E.4.2 Williams Creek Dam and Reservoir Construction Operations Evaluations
TM 6-E.6.6 Williams Creek Dam and Reservoir – Flood Inundation Evaluation
TM 6-E.4.4 Williams Creek Dam and Reservoir Opinion of Probable Cost
TM 6-H.1B Williams Creek Reservoir Exchange Conveyance – Best Technical Alternatives Selection and Conceptual Improvements
Pkes Peak Regional Water Authority: Regional Reuse Study. Forsgren Associates Inc., April 2022

Taxpayer Bill of Rights

No known TABOR issues.