



Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	Department of Personnel and Administration
Name of Water Project	State of Colorado Irrigation Audit Training.
Grant Request Amount	\$31,387.00
Primary Category	\$31,387.00
<i>Engagement & Innovation Activities</i>	
Total Applicant Match	\$14,880.00
<i>Applicant Cash Match</i>	\$6,080.00
<i>Applicant In-Kind Match</i>	\$8,800.00
Total Other Sources of Funding	\$14,880.00
<i>Colorado Office of Sustainability</i>	\$6,080.00
<i>Colorado Office of Sustainability</i>	\$8,800.00
Total Project Cost	\$61,147.00

Applicant & Grantee Information

Name of Grantee: Department of Personnel and Administration
Mailing Address: 1525 Sherman St Denver CO 80209

Organization Contact: Caitlin Casassa
Position/Title: Director of Sustainability Email: caitlin.casassa@state.co.us
Phone: (757) 284-4185

Grant Management Contact: Caitlin Casassa
Position/Title: Director of Sustainability Email: caitlin.casassa@state.co.us
Phone: (757) 284-4185

Description of Grantee/Applicant

Colorado Office of Sustainability

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 39.740440
 Longitude -104.985230
 Lat Long Flag Default/Proponent headquarters: If the location cannot be defined with flags above, use location of project proponent headquarters
 Water Source
 Basins Colorado; Arkansas; Metro; Gunnison; North Platte; Rio Grande; South Platte; Southwest; Yampa/Whi...
 Counties
 Districts

Water Project Overview

Major Water Use Type
 Type of Water Project Education
 Scheduled Start Date - Design
 Scheduled Start Date - Construction
 Description
 This will be a three-phase project with an overall goal to reduce water consumption on state owned land. This project is intended to be applied to all state-owned irrigated land.
 Phase 1: Conduct QWEL training for landscape professionals maintaining state owned land. Phase 2: Conduct a certain number of irrigation audits on state owned land. The target would be irrigation audits on 5 of the largest owned pieces of irrigated land. For example, the following locations:
 • State Capitol/Capitol Complex: 2.3 M sq ft
 • DHS Mental Health Facility Pueblo: 2.29 M sq ft
 • Arkansas Valley Correctional Facility: 487,872 sq ft
 • Sterling Correctional Facility: 400,752 sq ft
 • DPA 1881 Pierce: 407,732 sq ft
 Phase 3: Implement upgrades and changes from irrigation audits
 This specific grant is tailored to phase 1 and phase 2 of this project. Based on the results from phase 2, a budget will be built out for phase 3

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)
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)

30,000 Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning

30,000 Number of Coloradans Impacted by Engagement Activity

Other

No additional measurable results provided

Water Project Justification

This water project will ultimately contribute to the goals of the Colorado Water Plan and address the efficiency of state-owned irrigation systems (

https://dnrweblink.state.co.us/CWCB/0/edoc/219188/Colorado_WaterPlan_2023_Digital.pdf PDF pg. 30).

Additionally, this project will impact multiple basins as the intention is to conduct irrigation audits and improvements at state owned land throughout the entire State. For example, the State Capitol sits within the South Platte Basin and the Colorado Mental Health Facility in Pueblo sits in the Arkansas River basin. The South Platte River Implementation Plan, PDF pg. 11 (

https://dnrweblink.state.co.us/cwcbsearch/0/edoc/216719/South_Platte-Metro_BIP_Volume1_2022.pdf) mentions "Improving municipal & industrial water use efficiency will remain a key element of water resource management."

The Arkansas River Basin Implementation plan mentions a goal of "support regional efforts for cost-effective solutions to local water supply gaps" in pdf pg. 14 (

https://dnrweblink.state.co.us/cwcbsearch/0/edoc/216704/Arkansas_BIP_Volume1_2022.pdf).

Training state employees on QWEL and equipping them with the skills they need to conduct irrigation audits will not only contribute to protecting Colorado's water resources but result in less water use by the State overall.

Related Studies

The following EPA study showcases water use savings via irrigation audits:

<https://www.epa.gov/sites/default/files/2021-06/documents/ws-commercial-outdoor-casestudy-harvest-gold-case-study.pdf>

Taxpayer Bill of Rights

None