COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	LRE Water
Name of Water Project	Donala Reuse and Alternative Transfer Method GoldSIM Modeling Study
Grant Request Amount	**$345,000.00**
Primary Category	$345,000.00
Water Storage & Supply	
Total Applicant Match	**$115,000.00**
Applicant Cash Match	$115,000.00
Applicant In-Kind Match	$0.00
Total Other Sources of Funding	**$0.00**
Total Project Cost	**$460,000.00**

Applicant & Grantee Information

Name of Grantee: LRE Water
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Engineering Contact: Kelsey Briggs
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Description of Grantee/Applicant

LRE Water is an engineering consulting firm that provides surface water, groundwater, environmental, and data management services, with an emphasis on water rights.

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	39.056270
Longitude	104.815700
Lat Long Flag	
Water Source	Denver Basin Aquifers reusable return flows, Arkansas River, and Fountain Creek
Basins	Arkansas
Counties	El Paso
Districts	10-Fountain Creek

Water Project Overview

Major Water Use Type	Municipal
Type of Water Project	Planning (e.g. watershed)
Scheduled Start Date - Design	10/3/2022
Scheduled Start Date - Construction	

Description

Donala is seeking funding to develop a GoldSIM model (“Model”) to simulate how the increased storage created using ASR is best incorporated into Donala’s existing water rights portfolio, existing and conceptual infrastructure, and future collaborative conveyance projects that are in the feasibility and planning stages. The

primary objective of this comprehensive model is give Donala an accurate representation of their existing system and the tools to simulate and determine their best operating practices by evaluating:
a variety of supply and storage options;
the variability in future hydrologic and climatic conditions;
the addition of potential new supplies including indirect potable reuse; and
supply variability, operational flexibility, and the impact of restrictions and constraints, including interruptible supplies.

Measurable Results

1,000	New Storage Created (acre-feet)
324	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)
1,000	New Storage Created (acre-feet)
	Length of Stream Restored or Protected (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)
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
	Number of Coloradans Impacted by Engagement Activity

Other

Approximately 2,655 households will be impacted by this model; the amount of storage preserved and efficiency savings will be quantified by this study; and the 1,000 AF of new storage created is a projection based on 1 af/day of recharge over an approximate 3 year period.

Water Project Justification

Colorado Water Plan Focus Areas
• Supply
1. Water Supply Planning,
2. Storage Projects, and
3. Reuse
Arkansas Basin Roundtable BIP Goals & Actions
• Storage Goals
1. Support new storage both within and outside the Arkansas Basin to help meet the Arkansas Basin water supply gap, mitigate water supply risks, optimize water resources, and provide multi-purpose benefits;
2. Support funding, including grant contributions where appropriate, for storage restoration and expansion projects;
3. Investigate storage needs on a sub-regional basis and align with planned projects
4. Promote more flexible ways to store fully consumable water.
• Municipal & Industrial Goals
1. Meet the Projected Municipal Supply Gap in each subregion within the Basin.
a. Characterize current water supplies by subregion and future supply vulnerabilities;
b. Support projects within and outside the Basin that will help meet the Arkansas Basin M&I water supply gap, maintain existing supplies, better manage vulnerable supplies, and maximize utilization of water users' entitlements.
2. Support regional efforts for cost-effective solutions to local water supply gaps.
a. Provide the opportunity to build partnerships to support the ability of all Arkansas Basin communities –

especially small rural communities – to pursue projects and address infrastructure challenges.
b. Support projects that increase efficiency on current supplies, and the ability to move water to where it is needed
3. Reduce groundwater dependence on unsustainable aquifers for municipal users.
a. Promote tools to help manage groundwater resources.
b. Characterize groundwater supply vulnerabilities in the future with respect to both quantity and quality.
c. Develop strategies to address groundwater vulnerabilities, including identifying emergency supplies.

Related Studies

Donala and Triview Collaborative ASR Concept Design performed by LRE Water, currently underway; El Paso County Water Loop Study ("Loop Project") performed by Forsgren Associates, Inc. in May 2022; Pikes Peak Regional Water Authority ("PPRWA"), Regional Reuse Study performed by Forsgren Associates, Inc. in 2022; Upper Monument Creek Regional Wastewater Treatment Facility Indirect Potable Reuse Treatment Evaluation, Conceptual Alternative Analysis performed by Merrick & Company in February 2022; Environmental Assessment including hydrologic modeling for a Contract between the U.S. Bureau of Reclamation and Donala for the use of Excess Capacity in the Facilities of the Fryingpan-Arkansas Project

Taxpayer Bill of Rights

Donala has no TABOR issues that would affect this application.