



Colorado Water Conservation Board

Water Plan

Water Project Summary

Name of Applicant	Louviers Water and Sanitation District
Name of Water Project	Louviers Water and Sanitation - Water Service Meter Replacement
Grant Request Amount	\$62,500.00
Primary Category	\$62,500.00
<i>Conservation & Land Use Planning</i>	
Total Applicant Match	\$62,500.00
<i>Applicant Cash Match</i>	\$62,500.00
<i>Applicant In-Kind Match</i>	\$0.00
Total Other Sources of Funding	\$0.00
Total Project Cost	\$125,000.00

Applicant & Grantee Information

Name of Grantee: Louviers Water and Sanitation District
Mailing Address: 1100 W Littleton Blvd #101 Littleton CO 80120
FEIN: 300,524,040

Organization Contact: Sarah Shepherd
Position/Title: District Manager Email: sees@ccrider.us
Phone: 303-482-1002 ext 700

Organization Contact - Alternate: Michael Gerstner
Position/Title: District Engineer Email: mgerstner@tstinfrastucture.com
Phone: 303.799.5197

Grant Management Contact: Sarah Shepherd
Position/Title: District Manager Email: sees@ccrider.us
Phone: 303-482-1002 ext 700

Grant Management Contact - Alternate: Michael Gerstner
Position/Title: District Engineer Email: mgerstner@tstinfrastucture.com
Phone: 303.799.5197

Description of Grantee/Applicant

The Louviers Water and Sanitation District supplies water and sanitation services to 113 and 110 taps, respectively, in Louviers, Douglas County, Colorado. The District is the sole local government entity representing the residents in this community, and is in need of assistance with regard to its water supply, treatment system and internal delivery, storage and metering systems.

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	39.477800
Longitude	105.007200
Lat Long Flag	Water district centroid: Coordinates based on centroid of water district boundary
Water Source	Groundwater supply in the Denver Basin, Arapahoe Aquifer
Basins	Metro
Counties	Douglas
Districts	8-South Platte Cheesman to Denver Gage

Water Project Overview

Major Water Use Type	Municipal
Type of Water Project	Construction
Scheduled Start Date - Design	9/30/2022
Scheduled Start Date - Construction	10/31/2022

Description

The project would replace water meters that are an unknown age. It is assumed most meters are greater than 20 years old and some water meters may be 30-40 years old. New meters would improve accuracy of current water use in support of customers better understanding their ongoing use as well as the District better understanding the condition and water losses from its' distribution system. In addition to meter replacement, the project includes update to meter reading hardware and software, as well as billing software, which will serve to reduce administrative costs to the District and provide better usage information to customers of the District in service of

reduction in use, as much as possible and reduction of water losses. This project is the culmination of the CWLI New Learner program loss validation audit completed in 2022.

Measurable Results

0	New Storage Created (acre-feet)
0	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
0	Existing Storage Preserved or Enhanced (acre-feet)
0	New Storage Created (acre-feet)
0	Length of Stream Restored or Protected (linear feet)
\$6,780	Efficiency Savings (dollars/year)
2	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)
300	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
0	Number of Coloradans Impacted by Engagement Activity
Other	
The other efficiency savings will be annual administrative costs for meter reading and billing, estimated at \$6780 (\$5,780 administrative and reading costs + \$1,000 loss in water revenue), as readings and billings will be automated after setup, compared to the current costs.	

Water Project Justification

This project reduces overall future water needs through cost-effective water efficiency measures by reducing water loss through improved updated meters and billing software that will allow better tracking and more quick detection of leaks, better water efficiency use by customer though more real-time billing for usage versus estimated use over billing periods and water-saving communication via the new billing system.

1 acre-feet of savings for a small community is a big gain for a small population toward the overall goal of 400,000 acres feet of conservation by 2050. The project is also a gain for the Colorado Water Plan's 2025 goal to achieve 75% participation of Coloradans who live in communities that have incorporated water-saving actions.

This meets 2 of the 12 South Platte Basin Implementation Plan's goals: [pp 2, "Maintaining and improving municipal and industrial conservation and efficiency" and "Broadening communications, outreach, and education" through improved billing system communications to customers for better usage communication and water-saving education activities through those improved bill documents.]

Page 27 of the South Platte BIP best describes this initiative in the Goal #3: "3.C: Encourage innovation and efficiency improvements...Supported funding requests for continuation and expansion of existing water efficiency programs, particularly in under-resourced communities.

Louviers estimates nearly \$12M of Capital Improvement needs for a small 113 tap community, as detailed in the attached Capital expense and project overview infographic in the attachments, which includes need to remedy a water violation and future wastewater treatment system upgrade. Every bit of funding and project improvement helps the Louviers Water and Sanitation District better serve its community with a safe and efficient system, allows the community to thrive better, to participate as a regional member of the watershed planning in Douglas County's South Santa Fe corridor, and to be an example as a small community participant in the Colorado Water Plan's conservation efforts.

Goal #11 (pp. 39 South Platte BIP) will also be addressed by way of the new billing software allowing for the inclusion of better real-time meter use through improved readings, as well written communication on invoices, with new opportunities to share BIP and CWP goals through website links and conservation and water loss savings goals of the District and State contained in those invoices: 11.F: Expand communication of the goals, strategies, and measurable outcomes of the South Platte BIP. Developed and implemented a marketing plan to support BIP implementation.

Related Studies

The District's leadership team completed the Level 1 Water Loss New Learner Group training and water loss validation audit in 2022 (CWLI). The result of the audit was a recommendation to replace the aged existing meters and pair these with supporting billing software to reduce water loss and increase water use awareness amongst water customers. The result of the audit was a 4% water loss estimate, with metering as the highest priority initiative to reduce loss. The District's team plans to continue to the intermediate and advanced level trainings and complete other validation activities as well, which includes meter meter auditing.

This study clearly informed the District in moving forward with this grant project as a high value and need. The District's team and its Board of Directors will be happy to share the value of the training process, recommendations and goals that resulted from the training process. It is a wonderful opportunity for water providers in Colorado!

The validation worksheet is included as an attachment to the grant application.

Taxpayer Bill of Rights

There is no limitation set upon the District that would limit its receipt of grant funding related to this request.