



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

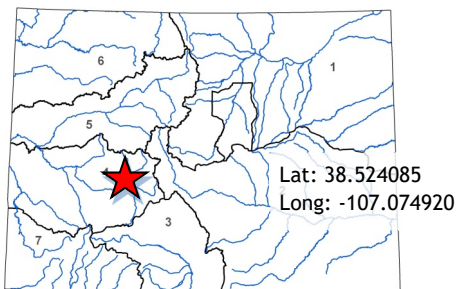
Root

Water Plan Grant Application

Trout Unlimited

Lawrence Ditch Diversion Improvement Project

March 2021 Board Meeting



L O C A T I O N	
County/Countries:	Gunnison
Drainage Basin:	Gunnison

D E T A I L S	
Total Project Cost:	\$63,000
Water Plan Grant Request:	\$20,000
Recommended Amount:	\$0
Other CWCB Funding:	\$0
Other Funding Amount:	\$40,000
Applicant Match:	\$3,000
Project Type(s):	Construction
Project Category(Categories):	Agricultural
Measurable Result:	Agricultural efficiency (\$500/year), restoration benefits

Lawrence Ditch diverts water from Steuben Creek, a tributary, to the Gunnison River west of Gunnison, Colorado. The existing diversion structure requires tarps, hay bales, and other debris to divert water during low flow periods. The existing headgate is made out of wood, is challenging to operate, and prone to leaking. Through this project, the water rights owner will work with Trout Unlimited to update the Lawrence Ditch diversion and headgate. The new diversion will be designed to accommodate high flows to use stop boards during low flow periods to dam the creek and divert decreed water rights. A new water-tight ditch headgate will be installed in the wing-wall of the structure. The CWCB holds an instream flow water right on Steuben Creek. This project will allow the water right owner more precise control of irrigation water and provide water management opportunities to bolster instream flows in Steuben Creek during low flow periods.

The proposal scored well on multiple grant criteria, including utilizing collaborative partnerships between environmental and agricultural interests, supporting infrastructure projects with multi-benefits, improving water management, and furthering the use of integrated planning to identify and implement priority projects.

Unfortunately, the available funding, the application score, and feedback from the review committee resulted in a no funding recommendation for this application. In particular, the application received below-average scores on overall impact to regional and state water challenges compared to other projects. For example, project benefits are limited in scope to the immediate sub-watershed, and there are few project beneficiaries compared to projects with interstate and statewide application/benefits. Staff has been in touch with the applicant and have encouraged them to consider funding to complete the project through the United States Department of Agriculture Environmental Quality Incentives Program or other funding sources. Staff encourages the applicant to reapply in subsequent rounds.



Last Updated: June 2020

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Water Storage Projects
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation
Projects

Matthew.Stearns@state.co.us
Kevin.Reidy@state.co.us
Ben.Wade@state.co.us
Alexander.Funk@state.co.us
Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to

waterplan.grants@state.co.us

in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

Water Project Summary

Name of Applicant	Trout Unlimited	
Name of Water Project	Lawrence Ditch Diversion Improvement Project	
CWP Grant Request Amount		\$ 20,000
Other Funding Sources <u>Water Right owners</u> (secured) in-kind and cash		\$ 15,000
Other Funding Sources <u>UGRWCD (will request)</u>		\$ 25,000
Applicant Funding Contribution in-kind (secured)		\$ 3000
Total Project Cost		\$ 63,000



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Applicant & Grantee Information	
Name of Grantee(s)	Trout Unlimited
Mailing Address:	1777 North Kent Street, Suite 100 Arlington VA, 22209
FEIN:	38-161215
Organization Contact:	Danielle Typinski
Position/Title:	Grant Compliance Coordinator
Email:	danielle.typinski@tu.org
Phone:	(703)284-9429
Grant Management Contact:	Jesse Kruthaupt
Position/Title:	Upper Gunnison Project Manager
Email:	jesse.kruthaupt@tu.org
Phone:	970-209-0976
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	
Description of Grantee/Applicant	
Provide a brief description of the grantee's organization (100 words or less).	
Trout Unlimited (TU), the nation's largest coldwater conservation organization, representing more than 150,000 members and volunteers nationwide, including 10,000 in Colorado, has a program in the Gunnison Basin focused on water use solutions that will benefit agricultural operations as well as protect and improve cold water trout habitat. Jesse Kruthaupt works for Trout Unlimited as the upper Gunnison project manager.	

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Type of Eligible Entity (check one)

	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
X	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

Type of Water Project (check all that apply)

	Study
X	Construction
	Identified Projects and Processes (IPP)
X	Other - Engineering

Category of Water Project (check the primary category that applies and include relevant tasks)

	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and



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	Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap.. <i>Applicable Exhibit A Task(s):</i>
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>
x	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s): task 2</i>
x	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>
	Other Explain:

Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Countries	Gunnison County
Latitude	38.524085°
Longitude	-107.074920°

Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.

The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.



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Lawrence Ditch diverts water from Steuben Creek, tributary to the Gunnison River west of Gunnison, Colorado. Four water rights are decreed to Lawrence ditch totaling 5 cfs: 3 cfs appropriated on 6/1/1878, 1.25 cfs appropriated on 5/31/1888, .5 cfs appropriated on 4/30/1898, and .25 cfs appropriated on 6/1/1901. These water rights were adjudicated on 9/14/1906.

The existing diversion structure requires the use of tarps, hay bales and other debris to divert water during low flow periods. The existing headgate is made out wood, is difficult to operate and prone to leaking. Through this project, the water right owner will work with Trout Unlimited to update the Lawrence Ditch diversion and headgate. The new diversion will be designed to accommodate high flows with the option to use stop boards during low flow periods to dam the creek and divert decreed water rights. A new water-tight ditch headgate will be installed in the wing-wall of the structure.

The CWCB holds a 1 cfs instream flow water right on Steuben Creek. This project will allow the water right owner more precise control of irrigation water and provide water management opportunities that will bolster instream flows in Steuben Creek during low flow periods.

Measurable Results

To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:

	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
300	Length of Stream Restored or Protected (linear feet)	
\$500/year	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
	Number of Coloradans Impacted by Engagement Activity	
	Other	Explain:



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Water Project Justification

Provide a description of how this water project supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the applicable Roundtable [Basin Implementation Plan](#) and [Education Action Plan](#). The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)

This project will support Gunnison BIP Goal 1: Protect Existing Uses; Goal 2: Discourage the conversion of productive agricultural land to other uses within the context of private property rights; and Goal 8: Restore, maintain, and modernize critical water infrastructure, including hydropower (Gunnison BIP, pp 30-31). Updating the Lawrence Ditch diversion will to improve water management of pre-compact agricultural water rights.

The Colorado Water Plan frequently references collaboration and multiple use projects. In section 6.6, page 6-157, the third goal listed is "Support the development of multipurpose projects and methods that benefit environmental and recreational water needs as well as water needs for communities or agriculture". This project will involve coordination between Trout Unlimited, private landowners, state and local agencies to update antiquated irrigation infrastructure, improve agricultural production, reduce labor, and result in improved instream flows during low flow periods.

As mentioned on page 15 of Chapter 5, Water Demands of the Water Plan, scientists predict that increasing temperatures, as a result of climate change, will reduce cold-water habitat for trout. Updated this diversion improve water management flexibly and willingness to coordinate with the CWCB to protect minimum stream flows and cold-water trout habitat on approximately 9 miles of Steuben Creek.

Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

Upper Gunnison Watershed Management Planning.

Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.



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Taxpayer Bill of Rights
The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.
None

Submittal Checklist	
x	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
x	Statement of Work ⁽¹⁾
x	Budget & Schedule ⁽¹⁾
	Engineer's statement of probable cost (projects over \$100,000)
x	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
x	Map (if applicable) ⁽¹⁾
x	Photos/Drawings/Reports
	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application ⁽¹⁾

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(1) Required with application.

(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.



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Colorado Water Conservation Board	
Water Plan Grant - Exhibit A	

Statement Of Work	
Date:	11/19/2020
Name of Grantee:	Trout Unlimited
Name of Water Project:	Lawrence Ditch Diversion Improvement Project
Funding Source:	Agricultural Category
Water Project Overview:	
<p>Lawrence Ditch diverts water from Steuben Creek, tributary to the Gunnison River west of Gunnison, Colorado. Four water rights are decreed to Lawrence ditch totaling 5 cfs: 3 cfs appropriated on 6/1/1878, 1.25 cfs appropriated on 5/31/1888, .5 cfs appropriated on 4/30/1898, and .25 cfs appropriated on 6/1/1901. These water rights were adjudicated on 9/14/1906.</p> <p>The existing diversion structure requires the use of tarps, hay bales and other debris to divert water during low flow periods. The existing headgate is made out wood, is difficult to operate and prone to leaking. Through this project, the water right owner will work with Trout Unlimited to update the Lawrence Ditch diversion and headgate. The new diversion will be designed to accommodate high flows with the option to use stop boards during low flow periods to dam the creek and divert decreed water rights. A new water-tight ditch headgate will be installed in the wing-wall of the structure.</p> <p>The CWCB holds a 1 cfs instream flow water right on Steuben Creek. This project will allow the water right owner more precise control of irrigation water and provide water management opportunities that will bolster instream flows in Steuben Creek during low flow periods.</p>	
Project Objectives:	
<ul style="list-style-type: none">• Update antiquated irrigation infrastructure• Improve water management and control of pre-compact water rights• Maintain minimum instream flow in Steuben Creek	



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Tasks
Task 1 – Survey, Engineering and Design
Description of Task: This task will involve hiring an engineering firm to design a new diversion structure and headgate that will accommodate peak stream flows, minimize scour and bank erosion, and improve access to water rights during low flow periods.
Method/Procedure: The engineering firm will perform a site visit and do a level survey, set a local benchmark for construction and provide construction specifications on the planset.
Deliverable: Completed Design.



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Tasks
Task 2 – Construction
Description of Task: A contractor will be selected to complete the rehabilitation work in accordance with the project design documents and under the supervision of Trout Unlimited, water right owner and engineer. This task will involve excavating the area for new diversion. Once excavation is completed concrete will be poured and headgate installed. Rock riprap will be used to armor banks upstream and downstream of the diversion.
Method/Procedure: 1. Bidding 2. Construction <ul style="list-style-type: none">• Excavation• Concrete pour headgate installation• Bank and channel grading.• Place geotextile fabric• Backfill and place riprap• Site clean-up, revegetation
Deliverable: <ul style="list-style-type: none">• Photo points of construction progress and completion

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Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

Reporting Requirements

Progress Reports: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be

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Performance Measures

submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



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Water Plan Grant - Exhibit B

Budget Template Instructions

**** Please select the most appropriate budget template for your project from the worksheet tabs below. A general budget template is provided, as well as templates for studies, construction, and engineering projects.****



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**Water Plan Grant - Exhibit B
Budget and Schedule**

Prepared Date: 11/29/20

Name of Applicant: Trout Unlimited

Name of Water Project: Lawrence Ditch Diversion Improvement

Project Start Date: March 2021

Project End Date: March 2024

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
1	Engineering/Design	3/1/2021	3/1/2023	\$ -	\$ 8,000.00	\$ 8,000.00
2	Construction diversion and headgate	8/1/2021	3/1/2023	\$ 20,000.00	\$ 35,000.00	\$ 55,000.00
Total				\$20,000	\$43,000	\$63,000

November 27, 2020

Colorado Water Conservation Board

Colorado Water Plan Grants

Agricultural Category

RE: Lawrence Ditch Diversion Improvement Project

Dear Mr. Funk,

As the sole owner of Robbins Ranch and the Lawrence Ditch I am writing this letter to offer my support to the Lawrence Ditch Diversion Improvement Project.

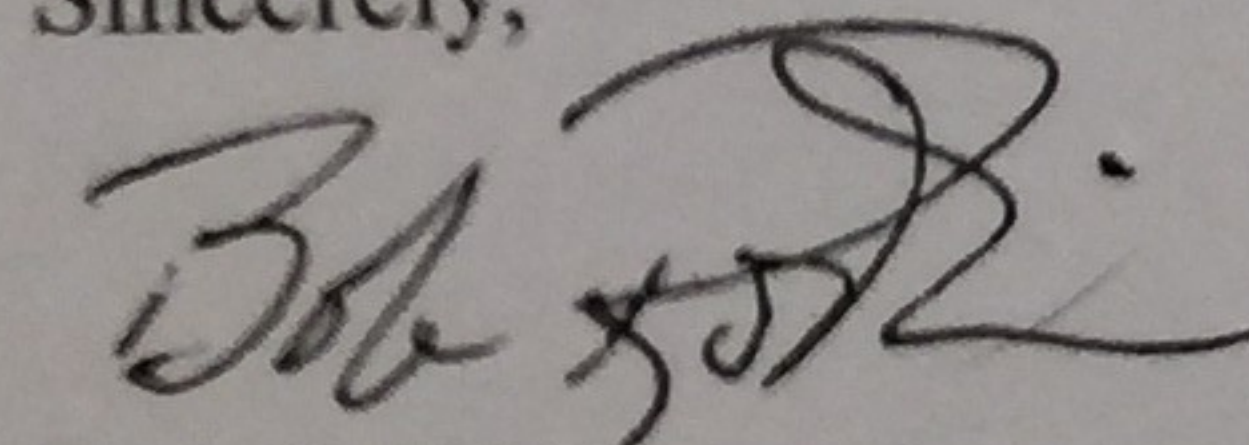
The Lawrence Ditch diversion is difficult to operate and requires the use of tarps, hay and other debris to divert water when Steuben Creek drops below 15 cfs. The structure requires regular maintenance which has led to erosion near the existing dam and ditch inlet.

During the last two years I have evaluated strategies to upgrade the diversion in a way that will reduce labor, reduce channel erosion near the site, and allow full utilization of the water rights decreed to the ditch. Working with Trout Unlimited and the CWCB to reconstruct the diversion will improve the use of pre-compact agricultural water rights and provide an opportunity to improve stream flows on 9 miles of Steuben Creek upstream of the diversion. Once the in stream flow drops to 4.5 cfs or less a water call can be administered from this diversion point that would cause the water being diverted into Rainbow lake to be added to the upper reaches of West Steuben that is home to a strain of Colorado river Cutthroat Trout.

I encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Lawrence Ditch Improvement Project. The Robbins Ranch is offering to provide \$5000 dollars in-kind backhoe and up to \$10000 cash toward the project.

Thank you for your time and consideration.

Sincerely,


Bob Robbins

Owner Lawrence Ditch

Address:

Phone:



Map Viewer



Legend

- Surface Water
- County

Location



Notes

1,169 0 585 1,169 Feet

1: 7,016



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review and consult the primary data and information sources to ascertain the usability of the information.

Date Prepared: 12/1/2020 11:31:04 AM