



Last Updated: July 2019

**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	Anna.Mauss@state.co.us Kevin.Reidy@state.co.us Ben.Wade@state.co.us Alexander.Funk@state.co.us Chris.Sturm@state.co.us
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**FINAL SUBMISSION:** Submit all application materials in one email to [waterplan.grants@state.co.us](mailto: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	Upper Gunnison Multiple Diversion Improvement Project
CWP Grant Request Amount	\$ 59,559
Other Funding Sources <u>Partners for Fish and Wildlife</u> – committed	\$ 6,500
Other Funding Sources <u>Eagle Ridge Ranch</u> committed	\$ 6,500
Other Funding Sources <u>Slo Down Ranch and Cranor ranch</u> – committed	\$10,000
Other Funding Sources: WSRF Gunnison pending	\$16,597
Other Funding Sources: UGRWCD pending	\$15,000
Other Funding Sources: Horse Meadows HOA	\$ 2,500



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Applicant Funding Contribution	\$ 7525
Total Project Cost	\$124,181

<b>Applicant &amp; Grantee Information</b>	
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: <a href="mailto:danielle.typinski@tu.org">danielle.typinski@tu.org</a>	
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	
<b>Description of Grantee/Applicant</b>	
Provide a brief description of the grantee's organization (100 words or less).	

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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.

Type of Eligible Entity (check one)	
	<b>Public (Government):</b> 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.
	<b>Public (Districts):</b> Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	<b>Private Incorporated:</b> Mutual ditch companies, homeowners associations, corporations.
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> Private parties may be eligible for funding.
x	<b>Non-governmental organizations (NGO):</b> Organization that is not part of the government and is non-profit in nature.
	<b>Covered Entity:</b> As defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a> .

Type of Water Project (check all that apply)	
	Study
x	Construction
	Identified Projects and Processes (IPP)
	Other

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



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	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 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):</i>
	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 <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Gunnison
Latitude	38°35'57.36"N
Longitude	106°55'25.61"W

Water Project Overview
<p>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.</p> <p>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.</p>

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This project is a collaborate effort between Trout Unlimited, Gunnison Angling Society, the Upper Gunnison River Water Conservancy District and several private landowner partners to reconstruct three separate diversion structures in the Upper Gunnison Basin.

Two of the diversions (Buckey Lehman Ditch and Hyzer Ditch) are located on Ohio Creek, tributary to the Gunnison River. One diversion (Marshall No. 2), is located on the mainstem Gunnison, 6 miles north of the town of Gunnison.

These diversions have similar characteristics in that they are all contributing to channel excessive erosion during high flow periods and do not effectively divert water rights during low flow periods. The new structures will be constructed to eliminate the need for regular in-channel disturbance and allow access to decreed water rights at a range of flow levels. Structure design will also provide quality aquatic habitat and refuge for trout.

These three diversions are used to divert water to over 600 acres of grass pasture and hay meadow. A total of 13 individual water right owners will benefit from this project. Each site will include localized riparian and habitat restoration to totaling 1000 feet.

A more detailed description of each diversion and proposed improvements is included in the in the scope of work attached to this application.

### 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)	
1,300	Length of Stream Restored or Protected (linear feet)	
\$1,500/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	
Recreational benefits	Other	Explain: Reduce risk rafters flipping from diversion drop structure and river aesthetic on a highly used section of the Gunnison River



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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 help meet the following 3 of the goals listed in the Gunnison BIP, pp 30-31.

Primary Goal:

1. Protect existing uses: The infrastructure and habitat improvements planned will protect and improve environmental, agricultural, and recreational uses in the Gunnison River Basin.

Complementary Goals

6. Maintain or, where necessary, improve water quality throughout the Gunnison Basin: The proposed in channel improvements will reduce erosion and improve channel stability. Over time, two of the structures on Ohio Creek will help transform the channel to a narrower deeper profile leading to lower water temperatures and providing better refuge for trout.

The Colorado Water Plan 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 NGO's, private land owners, and local agencies to address environmental, recreational, and agricultural water needs. It will protect pre-compact agricultural water rights, improve cold water trout habitat, reduce risk of flipping for rafters, and reduce the amount of labor necessary to annually maintain diversions.

In on page 1-6 of the Colorado Water plan sites three core water values. The second value is "Efficient and effective water infrastructure promoting smart land use." This project will upgrade ranch infrastructure and demonstrate how irrigation diversion design can be used to manage healthy riverine ecosystems and productive agriculture.

### 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.

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- Gunnison River Riparian Assessment
- Upper Gunnison Watershed Assessment and Stream Management Plan

### 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.

Grant Name	Agreement Number	Amount	Start Date	End Date
Irrigators in Kremmling	CTGG1 2017-0667	\$465,400	11/29/2011	9/30/2018
Redburn Ranch Diversion Dam	CTGG1 2015-2791	\$148,500	1/27/2015	6/1/2018
San Miguel River Stream Management Plan Pilot	POGG1 2016-0800	\$96,413	3/22/2016	6/1/2018
Ware Hinds Fish Bypass	POGG1 2017-0749	\$63,500	2/14/2017	12/31/2018
Windy Gap Reservoir Bypass	POGG1 2016-0900	\$30,000	5/18/2016	1/31/2017
W-Mountain Ranch Restoration	POGG1 2016-0610	\$15,000	1/8/2015	5/31/2017
Kerber Creek Restoration	POGG1 2015-0286	\$30,000	6/10/2015	10/31/2016
River Ranch Irrigation Diversion	CTGG1 2015-3313	\$113,000	6/9/2015	5/31/2016
South Arkansas River Restoration	POGG1 2015-0175	\$10,000	11/14/2011	10/31/2016
Upper Ohio Creek Flow Restoration	POGG1 2015-0161	\$6,000	10/10/2011	12/31/2014
Tomichi Water Conservation Program	POGG1 2018-901 & 902	\$109,500 (50%)	5/4/2018	5/4/2018
Cimarron Canal Diversion Gate Replacement and Water Management Planning Project	POGG1,PDAA,202 000002130	\$30,418	8/15/2019	7/31/2021
Wilbur Ditch Improvement	POGG1,PDAA,20 1900002930	\$20,500	6/3/2019	6/30/2020

### Taxpayer Bill of Rights

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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 <a href="#">Standard Contract</a> .
Exhibit A	
x	Statement of Work <sup>(1)</sup>
x	Budget & Schedule <sup>(1)</sup>
	Engineer's statement of probable cost (projects over \$100,000)
x	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(1)</sup>
Exhibit C	
x	Map (if applicable) <sup>(1)</sup>
x	Photos/Drawings/Reports
x	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) <sup>(2)</sup>
	Certificate of Good Standing with Colorado Secretary of State <sup>(2)</sup>
	W-9 <sup>(2)</sup>
	Independent Contractor Form <sup>(2)</sup> (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application <sup>(1)</sup>

(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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<b>Colorado Water Conservation Board</b>
<b>Water Plan Grant - Exhibit A</b>

Statement Of Work	
<b>Date:</b>	<b>1/20/2020</b>
<b>Name of Grantee:</b>	<b>Trout Unlimited</b>
<b>Name of Water Project:</b>	<b>Upper Gunnison Diversion</b>
<b>Funding Source:</b>	<b>Colorado Water Plan Grants, Agricultural category</b>
<b>Water Project Overview:</b>	
<p>This project is a collaborate effort between Trout Unlimited, Gunnison Angling Society, the Upper Gunnison River Water Conservancy District, and several private landowner partners to reconstruct three separate diversion structures in the Upper Gunnison Basin.</p> <p>Two of the diversions (Buckey Lehman Ditch and Hyzer Ditch) are located on Ohio Creek, a tributary to the Gunnison River. One diversion (Marshall No. 2), is located on the mainstem Gunnison, 6 miles north of the town of Gunnison.</p> <p>These diversions have similar characteristics in that they are all contributing to excessive channel erosion during high flow periods and do not effectively divert water rights during low flow periods. The new structures will be constructed to eliminate the need for regular in-channel disturbance and allow access to decreed water rights at a range of flow levels. Structure design will also provide quality aquatic habitat and refuge for trout.</p> <p>These three diversions are used to divert water to over 600 acres of grass pasture and hay meadow. A total of 13 individual water right owners will benefit from this project. Each site will include localized riparian and habitat restoration totaling 1000 feet.</p> <p>A more detailed description of each diversion and proposed improvements is included in the scope of work attached to this application.</p>	
<b>Project Objectives:</b>	



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Objectives for this project include:

- Improve access and control of pre compact water rights.
- Reduce in channel disturbance caused by diversion maintenance.
- Reduce risk of diversion failure during high flow periods.
- Improve channel stability and instream habitat.

## Tasks

### Task 1 – Marshall No. 2 Diversion Improvement

Description of Task:

This task will involve moving the Marshall No. 2 point of diversion upstream 600 feet, constructing a headgate at the new point of diversion, and constructing a ditch to convey water from the new headgate to the existing ditch. This task also involves restoring a section of bank near the Marshall No. 2 that was eroded during the spring of 2019.

The Marshall No. 2 is used to irrigate 300 acres of grass meadow owned by the Cranor Ranch and Slo Down Ranch. These ranches are managed for agricultural production and provide open space and wildlife habitat in the upper Gunnison Valley. The Marshall No. 2 ditch has two water rights, one decreed for 11.14 CFS adjudicated in 1906, and one decreed for 31.55 CFS adjudicated in 1941. The diversion is located on the Gunnison River approximately 6 miles north of the city of Gunnison on a section of the Gunnison that is popular for rafting, kayaking, and float fishermen.

Due to its positioning on the inside bend of the river, this diversion has been historically difficult to get water during low flow periods as cobble and sediment regularly deposit near the ditch inlet. In 2018, owners constructed a cross vane to direct water to the ditch inlet at extremely low flow periods. Unfortunately, this vane contributed to erosion on the opposing bank in the spring of 2019. The George Owens ditch flows along that opposing bank and blew out during this same period. The Upper Gunnison River Water Conservancy District commissioned Merrick Engineering to evaluate the diversion location and propose options to address the issues. Three options were proposed, included in Exhibit C. Marshall No. 2 owners have selected the option that involves moving the ditch inlet upstream 600 feet to a location that will not have the deposition and maintenance issues owners historically dealt with. This new location sits 2 feet higher in elevation than the existing ditch inlet thereby reducing the need for a channel wide cross vane.

Method/Procedure:



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## Tasks

The new point of diversion location has been selected. Ditch alignment to most efficiently convey water from the new point of diversion location and the existing ditch will be flagged and cleared of trees and other debris. The landowner who owns the property which the ditch runs through is willing to provide labor and equipment to assist in clearing the new ditch line.

Water right owners will select an excavation contractor to remove the old headgate, sluice gate, and rock vane from the existing diversion location. This area will be regraded and revegetated. The selected contractor will also dig the new ditch to connect the existing ditch to the new point of diversion. The ditch will be sufficiently in-land and the river side embankment will be graded and revegetated to withstand flood events.

Water users will use recommendations from Merrick Engineers to design a new concrete ditch headgate and a contractor will be hired to pour the structure. Rock rip-rap will be used to prevent erosion near the headgate structure and eliminate the risk of wash out. Rather than a full cross vane to raise the elevation of the river, a small jetty has been discussed to direct adequate water into the ditch. Rock used from the cross vane at the old point of diversion will be transported up stream and used to armor the headgate and segments of ditch.

A simple point of diversion change application will be submitted to the Division of Water Resources.

The work on the Marshall No. 2 is planned for late summer or fall of 2020.

Funding from the Upper Gunnison River Water Conservancy District (UGRWCD) has been requested to assist with the Marshall No. 2 improvements. As part of this project, UGRWCD funding will also be used to restore the opposing bank and repair a small section of the George Owens Ditch. This work is planned for spring of 2020 and will likely be underway prior to the May 2020 CWCB board meeting.

### Deliverable:

- Design of new ditch headgate.
- Photos and summary report documenting construction and completion of the Marshall No. 2 headgate and new ditch alignment.
- Photos documenting bank restoration and repair of George Owens ditch.

## Tasks

### Task 2 – Buckey Lehman Diversion Improvement



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Tasks
<p data-bbox="203 306 431 338">Description of Task:</p> <p data-bbox="203 348 1430 443">This task will involve upgrading the existing Buckey Lehman diversion from a cobble push-up dam to a permanent rock cross-vane structure. This task will also include replacing the existing headgate with a more operable headgate and installing a sluice gate to better control fine sediment near the ditch inlet.</p> <p data-bbox="203 474 1442 562">The Buckey Lehman ditch diverts water from Ohio Creek and is used to irrigate grass meadow on Eagle Ridge Ranch (ERR). The ditch has three decreed water rights totaling 15.5 CFS; 3.125 CFS adjudicated in 1906, 9.37 adjudicated in 1941, and 3.0 CFS adjudicated in 1994.</p> <p data-bbox="203 594 1425 779">Eagle Ridge Ranch is a 4900-acre ranch located 15 miles north of the town of Gunnison. This property is operated as a Homeowners Association. Fourteen private homeowners work cooperatively through a Board of Directors and a ranch manager. They work towards agricultural production, environmental conservation, and recreational benefit. Hay and livestock production on the ranch is leased to a private agricultural producer. Environmental conservation efforts on the ranch encompass wildlife habitat conservation, along with maintaining good water quality for Ohio Creek.</p> <p data-bbox="203 810 1406 905">Eagle Ridge Ranch has been an active participant in the Upper Gunnison Watershed Management Planning effort. This project was developed as a result of that effort. Partners for Fish and Wildlife are also a contributing partner to this project.</p>
<p data-bbox="203 945 431 976">Method/Procedure:</p> <p data-bbox="203 987 1414 1108">Creekside Angling and Environmental has been contracted to assist ERR in designing the structure and will construct the new diversion. Eagle Ridge Ranch will provide labor with all facets of the project. Trout Unlimited has also committed to assisting with design, project coordination, and grant reporting for this project.</p> <p data-bbox="203 1140 1438 1325">The newly constructed diversion will be a permanent rock weir structure constructed with 2-4 foot boulders. The diversion will be shaped as a downstream widening arch. This will raise water surface elevation and prevent over toping flows from eroding or out flanking the structure. In cross section, the arch will be lower in the center of the channel to concentrate low flows, allow fish passage, and prevent deposition directly upstream of the structure. This elevation will be equivalent to the minimum elevation necessary to divert water rights into the ditch.</p> <p data-bbox="203 1356 1438 1577">Rock material and the headgate assembly will be purchased and hauled to the project site in the fall of 2020. At that time an excavator will be onsite to begin construction. A coffer dam will be constructed to divert the channel to the west bank and dewater the headgate area and allow construction of the rock vane. The cross-vane will be constructed upon footer rocks to prevent scour and settling. Water will be directed back to the east side of the channel and work will commence on the west side. The vane will be keyed into each bank and rip-rap will be used near the ditch inlet to prevent out flanking. A second vane may be necessary as grade control if the drop on the first vane is greater and 12 inches.</p> <p data-bbox="203 1608 818 1640">Construction is will be complete by December 1, 2020.</p>
<p data-bbox="203 1709 342 1740">Deliverable:</p>

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Tasks
<ul style="list-style-type: none"> <li>•Design of new ditch headgate.</li> <li>•Photos and summary report documenting construction and completion cross vane and headgate.</li> </ul>

Tasks
<b>Task 3 – Hyzer Ditch</b>
<p>Description of Task:</p> <p>This task will involve reconstructing the Hyzer Ditch diversion to a permanent rock vane structure. The wing from the historic diversion to the headgate has washed out and the diversion no longer functions. Water users have repeatedly used tarps and heavy equipment to build up the diversion. This maintenance has become tiresome and irritating to the property owner where the diversion is located. In addition to those issues, cobble has deposited upstream of this diversion and in the ditch inlet.</p> <p>The Hyzer Ditch diverts water from Ohio Creek and is used to irrigate grass meadow on Horse Meadows subdivision and lower Castle Mountain. The ditch has four decreed water rights totaling 14.166 CFS; .4 CFS and 3.871 CFS adjudicated in 1906 (separate appropriation dates), .9 CFS adjudicated in 1941, and 8.995 CFS adjudicated in 1941.</p> <p>The Horse meadow subdivision consists of 10 owners with common land that is leased for hay and livestock production. Other property owners also have smaller shares in the ditch on adjacent land to the Horse Meadows subdivision.</p> <p>Several of the landowners have been active participants in the Upper Gunnison Watershed Management Planning effort. This project was developed as a result of the effort.</p>
<p>Method/Procedure:</p> <p>Trout Unlimited will work with the water right owners to survey and finalize an appropriate cross vane design for the site. A consultant will be hired to draw the design specifications so it can be shared with all project participants. TU has also committed to assisting project coordination and grant reporting for this project.</p> <p>The design currently conceptualized is a rock cross-vane that ties into the existing ditch wing. The newly constructed vane will be constructed in two layers of 2-4 foot boulders. The lower layer will act as a footer to support the upper layer and reduce scour from undermining the structure. In cross section, the vane will be lower in the center of the channel to concentrate low flows, allow fish passage, and prevent deposition directly upstream of the structure. This elevation will be equivalent to the minimum elevation necessary to divert water rights into the ditch. The vane will be keyed into each bank and sloped downward at less than 1.5% grade toward the center of the channel. This will help dissipate high flow energy and prevent water from out flanking the structure.</p>

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Tasks
<p>A qualified contractor will be selected to construct the vane. Rock material will be purchased and hauled to the project site after August 2020. At that time an excavator will be onsite to begin construction. A coffer dam will be necessary to divert water around the work area during construction. A second vane is planned as grade control downstream of the main diversion vane.</p> <p>Construction is scheduled for completion by December 1, 2020.</p>
<p>Deliverable:</p> <ul style="list-style-type: none"> <li>•Design of new diversion.</li> <li>•Photos and summary report documenting construction and completion cross vane and headgate.</li> </ul>

Budget and Schedule
<p>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.</p>

Reporting Requirements
<p><b>Progress Reports:</b> 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.</p>

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## Reporting Requirements

**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:

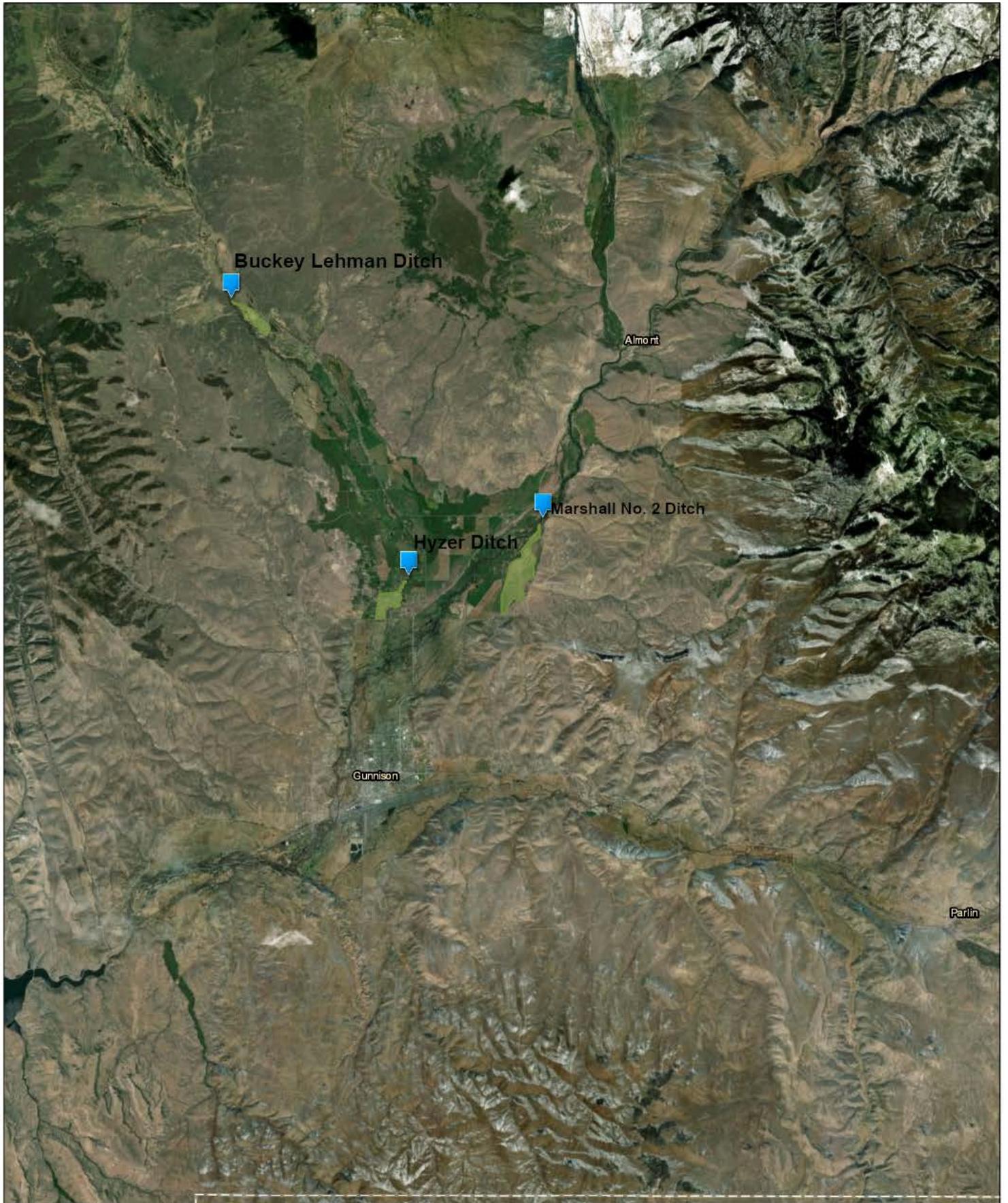
(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, 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 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.

# UG Multiple Diversions Regional Map



February 1, 2020

1:144,448

# Marshall No. 2



February 1, 2020

1:36,112

January 30, 2020

Colorado Water Conservation Board  
Colorado Water Plan Grants  
Agricultural Category

RE: Upper Gunnison Multiple Diversion Project

Dear Mr. Funk

Cranor Inc., a family Corporation owns a major share in the Marshall No. 2 ditch.

The Marshall No. 2 Ditch diversion has historically been difficult to operate and does not effectively divert water when the Gunnison River flows less than 700 cfs without the use of tarps or pushing up cobble. The structure requires regular maintenance which has led to erosion near the existing dam and ditch inlet.

During the last 18 months the owners of the Marshall No. 2 ditch have evaluated strategies to upgrade the diversion in a way that will reduce labor, reduce channel erosion near the site, eliminate the need for in-channel disturbance with heavy equipment, improve river aesthetics, and floating on this segment of the Gunnison River.

The opportunity to work with Trout Unlimited and utilize CWCB grant funding will enable water right owners to construct a diversion that will be functional for irrigation, recreational, and ecological needs during low flow and flood flow periods.

Cranor Inc. encourages the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Upper Gunnison Multiple Diversion Project.

Thank you for taking the time to consider these projects.

Sincerely,

Walt Cranor



## Gunnison Angling Society

January 30, 2020

Colorado Water Conservation Board  
Colorado Water Plan Grants  
Agricultural Category

RE: Marshall No. 2 Diversion Project

Dear Mr. Funk,

The Marshall No. 2 Ditch diversion has historically been difficult to operate and does not effectively divert water when the Gunnison River flows without the use of tarps or pushing up cobble. The structure requires regular maintenance which has led to erosion near the existing dam and ditch inlet.

The Marshall No. 2 diversion is on the Almont to North Bridge stretch of the Gunnison River which is the flagship float fishing trip for the Gunnison Valley and very popular with the residents of the valley as well as our visitors. Improvements to this high profile diversion that would improve the habitat and sustainability at that location would be greatly appreciated by the angling community.

The opportunity to work with Trout Unlimited and utilize CWCB grant funding will enable water right owners to construct a diversion that will be functional for irrigation, recreational, and ecological needs during low flow periods.

The Gunnison Angling Society encourages the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Marshall No. 2 Diversion Project

Bill Ketterhagen

G.A.S Conservation Coordinator

January 30,2020

Colorado Water Conservation Board

Colorado Water Plan Grants

Agricultural Category

RE: Marshall No 2 Diversion Improvement Project

To Whom It May Concern:

The Marshall No.2 Ditch Diversion has historically been difficult to operate and does not effectively divert water when the Gunnison River has low flows. During 2019, the owners of the Marshall No.2 ditch have evaluated strategies presented in a technical memorandum presented by Rick McLaughlin, PE of Merrick & Company. These strategies to upgrade the diversion will reduce labor, reduce channel erosion near the site, eliminate the need for in-channel disturbance with heavy equipment, and improve river aesthetics and habitat on this segment of the Gunnison River. John and Molly Sloan, from the Slo Down Ranch and part owners of the Marshall No.2 Ditch, encourages the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Marshall No.2 Diversion Improvement project.

Thank you for your consideration of this project.

Sincerely,

John and Molly Sloan

450 Lost River Lane

Gunnison,CO 81230

970-209-2912 (Johns cell)



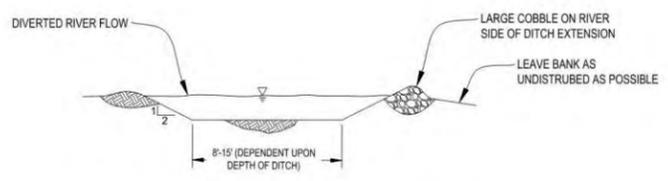
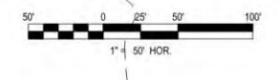
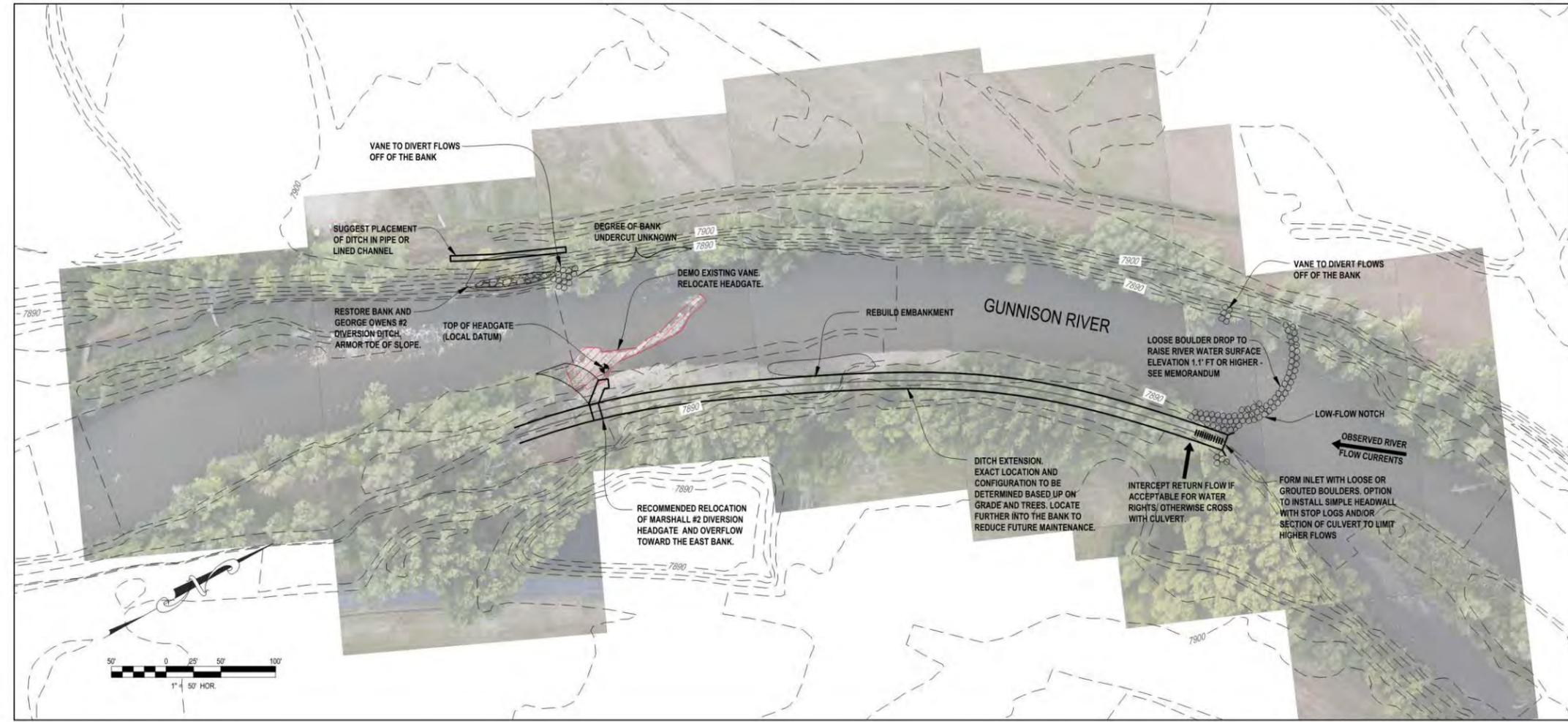
Marshall N. 2 during spring 2019



Marshall No. 2



THE Aerial Imagery, Contour Map, and Other Information is an Aerial Photograph and is not a Survey. It is not intended to be used as a basis for a survey. It is not intended to be used as a basis for a survey. It is not intended to be used as a basis for a survey.



MARSHALL #2 DITCH EXTENSION SECTION (TYP.)  
NTS

CONCEPTUAL FIGURE.  
NOT FOR CONSTRUCTION

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



CLIENT NAME  
**GUNNISON RIVER DIVERSIONS**  
 UPPER GUNNISON WATER CONSERVANCY DISTRICT

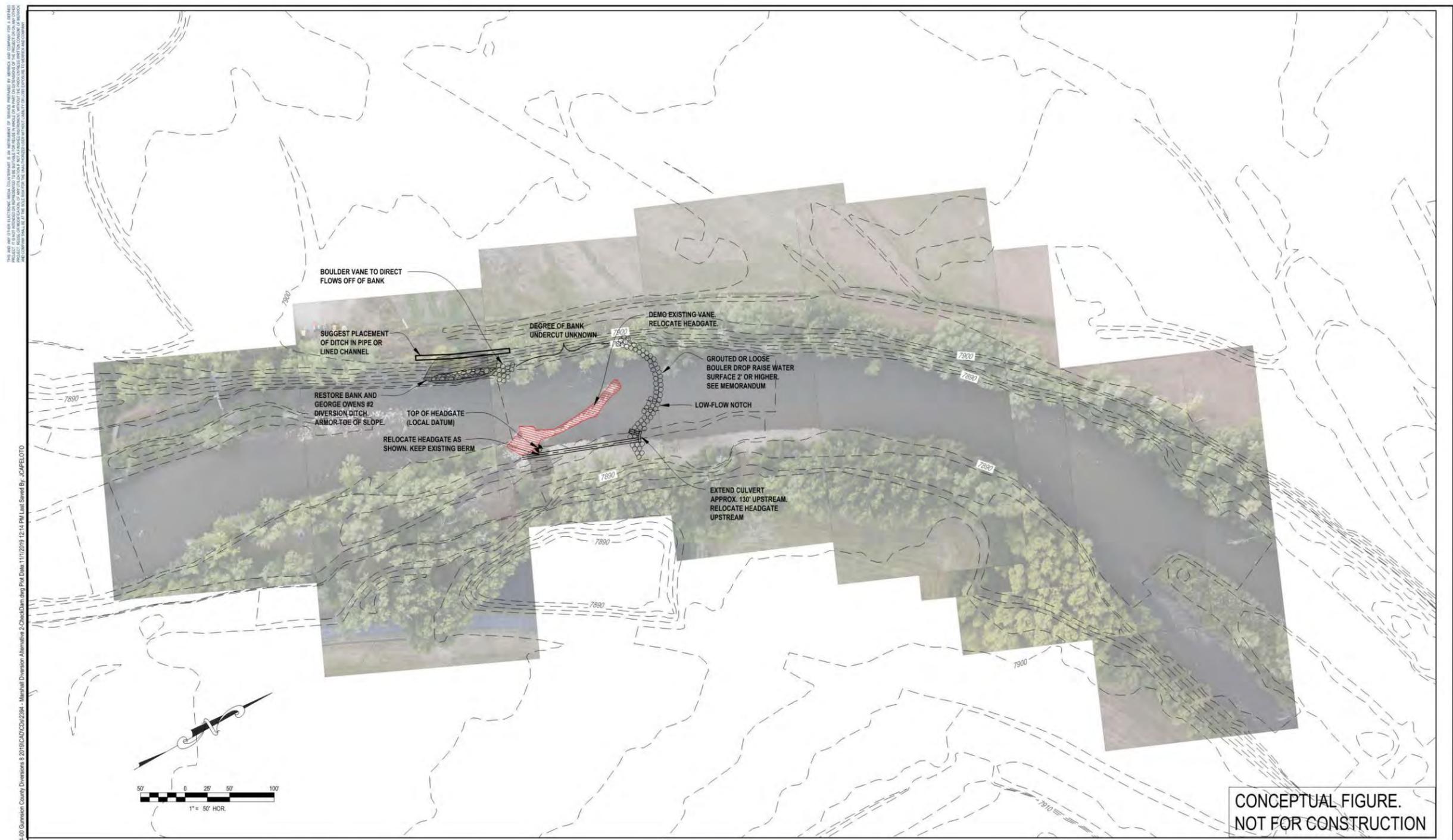


NOTE: AERIAL IMAGERY HAS BEEN BEST FIT TO HORIZONTAL DATA POINTS FROM FIELD SURVEY AND LIDAR TOPOGRAPHY. LINEAR DISTORTION INCREASES AS THE DISTANCE FROM THE FOCAL POINT OF THE IMAGE INCREASES. THUS, LAYOUT IS APPROXIMATE.

MARSHALL #2 DIVERSION  
 OPTION 1

JOB NUMBER	65422394
DATE	OCTOBER 2019
SHEET	1
	1 of 3

Option Selected



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File Location: O:\Denver\North\Projects\2394-00 Gunnison County Diversions & 2019\CAD\CD\2394-00 Marshall Diversion Alternative 2\HeadDam.dwg Plot Date: 11/12/2019 12:14 PM Last Saved By: CAPELOTO

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR
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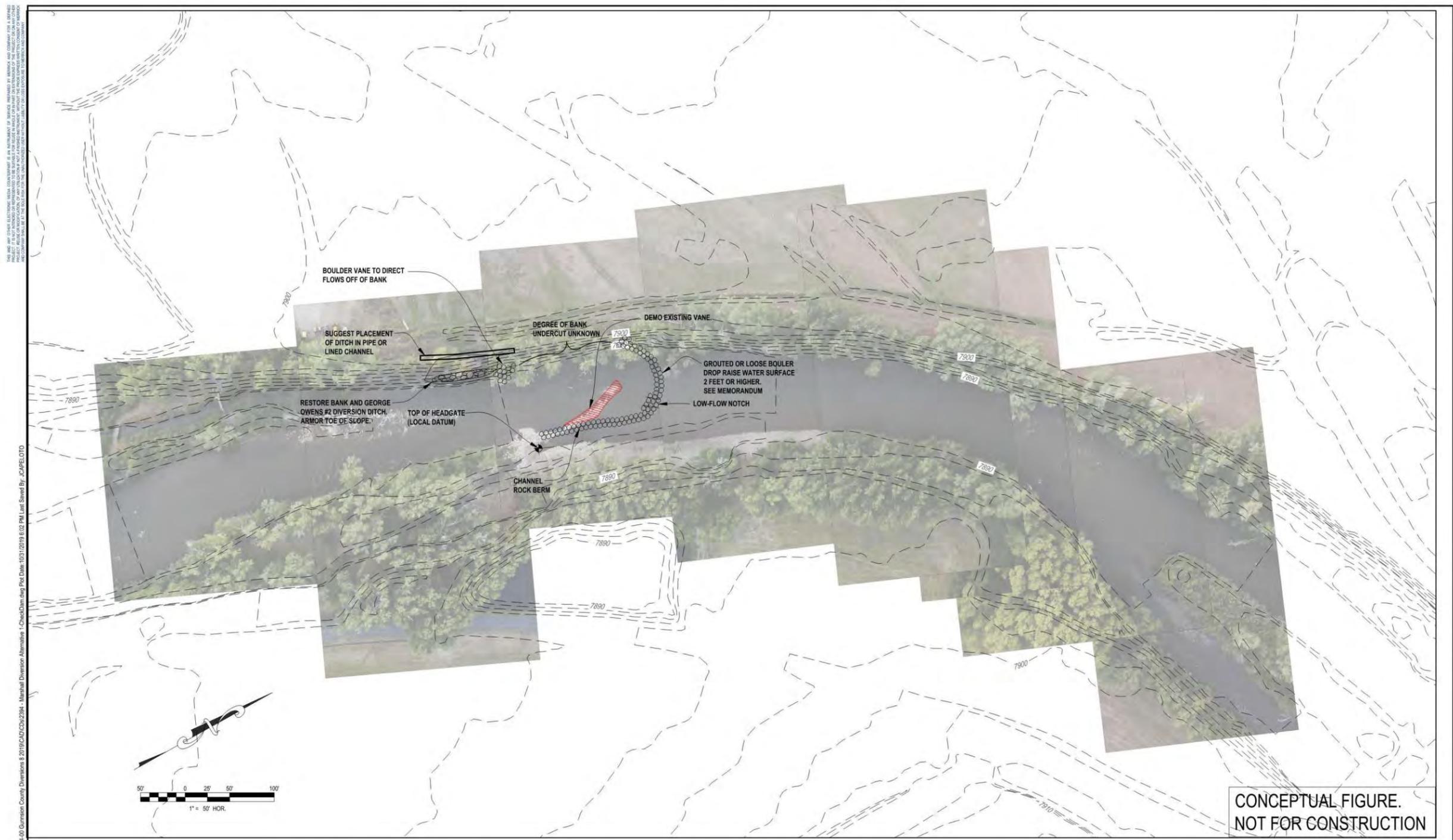
CLIENT NAME  
**GUNNISON RIVER DIVERSIONS**  
 UPPER GUNNISON WATER CONSERVANCY DISTRICT



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MARSHALL #2 DIVERSION  
 OPTION 2A

JOB NUMBER: 65422394  
 DATE: OCTOBER 2019  
 SHEET: 2  
 2 of 3



CONCEPTUAL FIGURE.  
NOT FOR CONSTRUCTION

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File Location: Q:\Denver - North\Projects\2394-00 Gunnison County Diversions & 2019\CAD\CAD2394 - Marshall Diversion Alternative 1\Check\DWG\DWG Plot Date: 10/31/2019 6:02 PM Last Saved By: CAPELOTO

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR
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CLIENT NAME  
**GUNNISON RIVER DIVERSIONS**  
 UPPER GUNNISON WATER CONSERVANCY DISTRICT



NOTE: AERIAL IMAGERY HAS BEEN BEST FIT TO HORIZONTAL DATA POINTS FROM FIELD SURVEY AND LIDAR TOPOGRAPHY. LINEAR DISTORTION INCREASES AS THE DISTANCE FROM THE FOCAL POINT OF THE IMAGE INCREASES. THUS, LAYOUT IS APPROXIMATE.

**MARSHALL #2 DIVERSION**  
**OPTION 2B**

JOB NUMBER: 65422394  
 DATE: OCTOBER 2019  
 SHEET: **3**  
 3 of 3

# Hyzer Ditch Regional



February 1, 2020

1:18,056

**From:** [Roger Rolfe](#)  
**To:** [Jesse Kruthaupt](#)  
**Subject:** Hyzer Ditch diversion  
**Date:** Wednesday, January 29, 2020 8:01:10 AM

---

January 29, 2020

Colorado Water Conservation Board  
Colorado Water Plan Grants  
Agricultural Category

RE: Upper Gunnison Multiple Diversion Project

Dear Mr. Funk

The Hyzer Ditch diversion is difficult to operate and does not effectively divert water when Ohio Creek flows less than 30 cfs without the use of tarps or pushing up cobble. The structure requires regular maintenance which has led to erosion near the existing dam and ditch inlet.

During the last several months the owners of the Hyzer ditch have evaluated strategies to upgrade the diversion in a way that will reduce labor, eliminate the need for in-channel disturbance with heavy equipment, and improve habitat on this segment of Ohio Creek.

The opportunity to work with Trout Unlimited and utilize CWCB grant funding will enable water right owners to construct a diversion that will be functional for irrigation and ecological needs during low flow had flood flow periods.

Roger and Amy Rolfe of the Horse Meadows Subdivision encourages the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Upper Gunnison Multiple Diversion Project.

Thank you for taking the time to consider these projects.

Sincerely,

Roger and Amy Rolfe  
42 Sydney Court  
Gunnison, CO 81230

[roger.rolfe@verizon.net](mailto:roger.rolfe@verizon.net)

970-252-0363

January 25, 2020

Colorado Water Conservation Board  
Colorado Water Plan Grants  
Agricultural Category

RE: Upper Gunnison Multiple Diversion Project

Dear Mr. Funk,

I am a homeowner in Horse Meadows subdivision. During the last several months I have personally spear headed an effort to address issues related to the Hyzer ditch diversion. This effort has included several HOA meetings and coordination with all the owners of the Hyzer ditch. Trout Unlimited assistance in seeking funding for this project is the reason it is moving forward.

We have discussed alternatives to upgrade the diversion in a way that will reduce neighbor contention, reduce labor, eliminate the need for in-channel disturbance with heavy equipment, and improve habitat on this segment of Ohio Creek.

I encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for is project. I am confident the end result will be three functional diversions that support irrigation and ecological needs during low flow and high flood flow periods

Thank you for taking the time to consider these projects.

Sincerely,

Eric Kowal  
39 Sydney Court Horse Meadows subdivision  
Gunnison, CO 81230  
970-209-7045

January 22, 2020

Colorado Water Conservation Board  
Colorado Water Plan Grants  
Agricultural Category

RE: Upper Gunnison Multiple Diversion Project

Dear Mr. Funk

My name is Rob Childerston and I am a homeowner in the Horse Meadows Subdivision. I am writing this letter to offer my support of the Hyzer Ditch improvement project which is a subtask of the Upper Gunnison Multiple Diversion Project.

During the last several months the owners of the Hyzer ditch have evaluated strategies to upgrade the diversion in a way that will reduce labor, eliminate the need for in-channel disturbance with heavy equipment, and improve habitat on this segment of Ohio Creek

The opportunity to work with Trout Unlimited and utilize CWCB grant funding will enable us to construct a diversion that will benefit our irrigation uses and general watershed health in Ohio Creek.

I encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Upper Gunnison Multiple Diversion Project.

Thank you for taking the time to consider these projects.

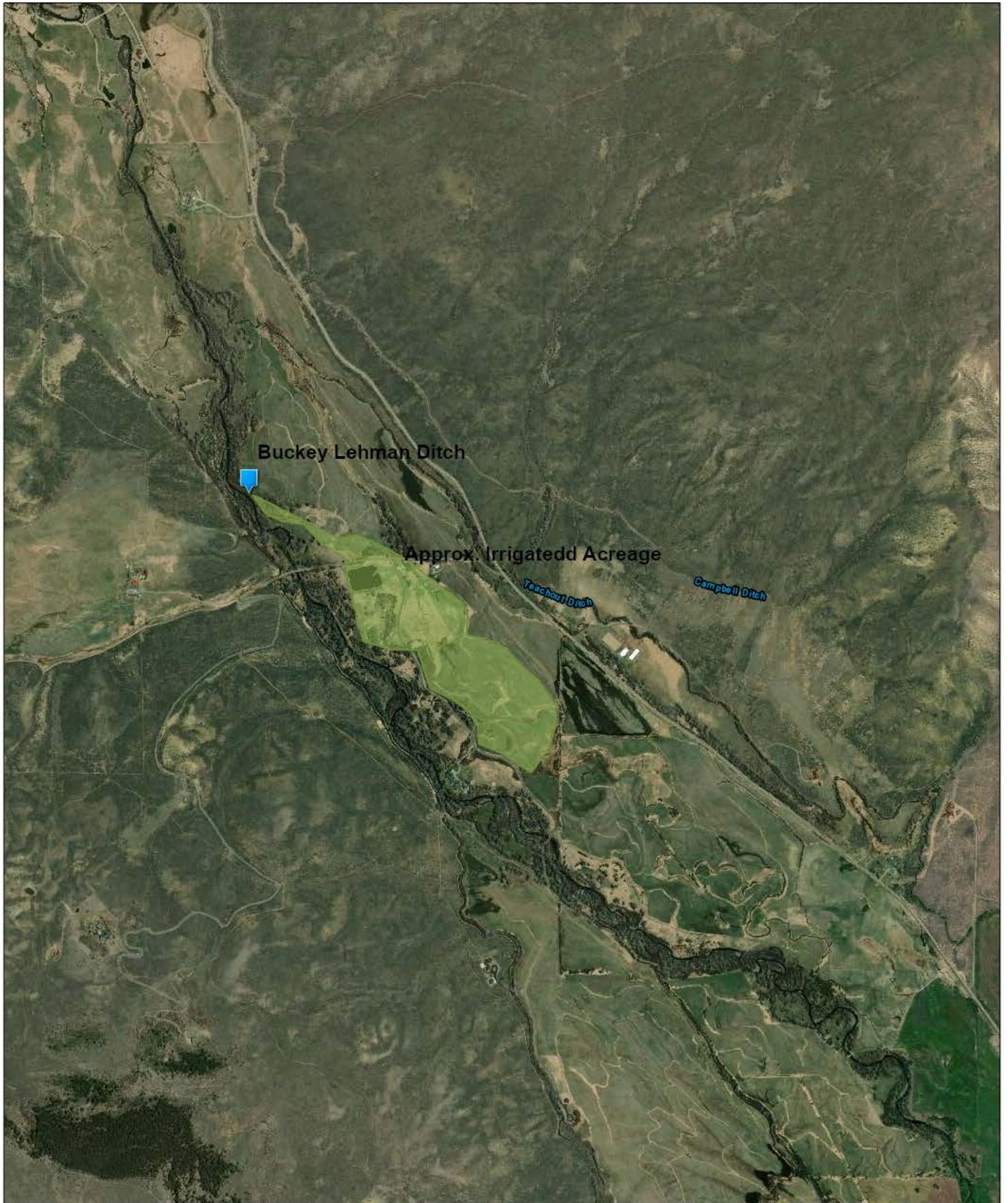
Sincerely,

Rob Childerston  
(303)868-4272

# Hyzer Existing Condition



# Buckey Lehman Ditch



February 1, 2020

1:18,056

## **Buckey Lehman Diversion**

Proposed Improvements

Eagle Ridge Ranch

January 23, 2020

The Buckey Lehman Ditch is right #83 on Ohio Creek with 12.5 CFS decreed to Eagle Ridge Ranch HOA (ERR). The ditch is used to supply water to the Eagle Ridge Ranch fishing pond and subsequently can be utilized for irrigation or directed back to Ohio Creek. In the Fall of 2019 ERR, in conjunction with Partners for Fish and Wildlife (FWS) and Upper Gunnison River Water Conservation District, completed an irrigation improvement project that would allow irrigators to utilize Buckey Lehman Ditch water, as well as tailwater from the Teachout Ditch, much more efficiently while also augmenting shallow water wetland habitat. The proposed project will increase this water use efficiency and further improve the wetland wildlife habitat.

Historically the Buckey Lehman Diversion has required annual maintenance involving the mechanical 'push-up' of material to deliver water to the headgate structure. This activity is time consuming and disturbs the creek bed which effects water and habitat quality on Ohio Creek. The design calls for substantial rip-rap structures that can withstand high water flow events in the creek. This permanent rock structure will efficiently deliver irrigation water to a new headgate structure which will include a discharge gate back to the creek. The discharge gate will further improve the effectiveness and maintenance requirements of the diversion allowing for quick adjustments of water delivered to the ditch and cleaning of debris and sediment from the point of diversion.

Currently the proposed design calls for a budget as follows:

- \$10,000.00 Rip-Rap Material and Hauling
- \$9,500.00 Excavation and Mobilization
- \$3,500.00 Headgate Structure

Total: \$23,000

Funding for the project will be structured as a cost share agreement between Eagle Ridge Ranch HOA, Partners for Fish and Wildlife and Colorado Water Conservation Board through a grant application submitted by Trout Unlimited. Proposed funding breakdown is as follows:

- \$6,500.00 Eagle Ridge Ranch HOA
- \$6,500.00 Partners for Fish and Wildlife
- \$10,000.00 CWCB

Eagle Ridge Ranch believes this project will greatly improve the irrigation efficiency of the ranch while providing a final step to the previously completed projects. The advantages of the project will be numerous and will not only benefit ERR irrigators but also downstream stakeholders as well as migratory and local wildlife. Please feel free to contact me with any questions or concerning regarding this proposal.

Best Regards,  
Travis Brooks  
Ranch Manager, Eagle Ridge Ranch  
(970)901-0430



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
134 Union Blvd  
Lakewood, Colorado 80228

In Reply Refer to:  
FWS/IR05/IR07

29 January 2020

Colorado Water Conservation Board  
1313 Sherman Street, Room 718  
Denver, CO 80203

Subject: Water Plan Grant Application for Eagle Ridge Ranch – Buckey Lehman Diversion Project Proposal

Dear Water Plan Grant Review Committee:

The U.S. Fish and Wildlife Service, Colorado Partners for Fish and Wildlife program (CO PFW) strongly supports the Eagle Ridge Ranch – Buckey Lehman Diversion Project Proposal. CO PFW is actively working in partnership with Eagle Ridge Ranch by providing both technical and financial assistance to improve the Ranch's flood irrigation infrastructure. During 2019, CO PFW assisted Eagle Ridge Ranch in completing an irrigation improvement project that utilizes Buckey Lehman Ditch water and Teachout Ditch tailwater. The project resulted in more efficient use of irrigation water while also enhancing working wet meadows. The Buckey Lehman Diversion project proposal will significantly improve the “push-up” dam currently used to deliver Buckey Lehman Ditch water, while reducing damage to the streambed, reducing significant annual maintenance, increasing water use efficiency, bolstering prior flood irrigation infrastructure improvements, as well as supporting wildlife habitat.

CO PFW recognizes the complexity and critical importance that flood irrigation practices have on keeping private ranch lands viable and benefits to a myriad of wildlife species. CO PFW expresses full support towards the success of this project and has committed \$6,500 of matching funds, in anticipation of receiving grant funding from the Colorado Water Conservation Board – Water Plan Grant. Thank you for considering CO PFW's support and this project. If you have any questions regarding the CO PFW program or details of this project, please contact Brandon Miller, CO PFW Private Lands Biologist, 307 N. Main St., Suite 2C, Gunnison, CO 81230; 970-615-0119; or [brandon\\_miller@fws.gov](mailto:brandon_miller@fws.gov).

Sincerely,

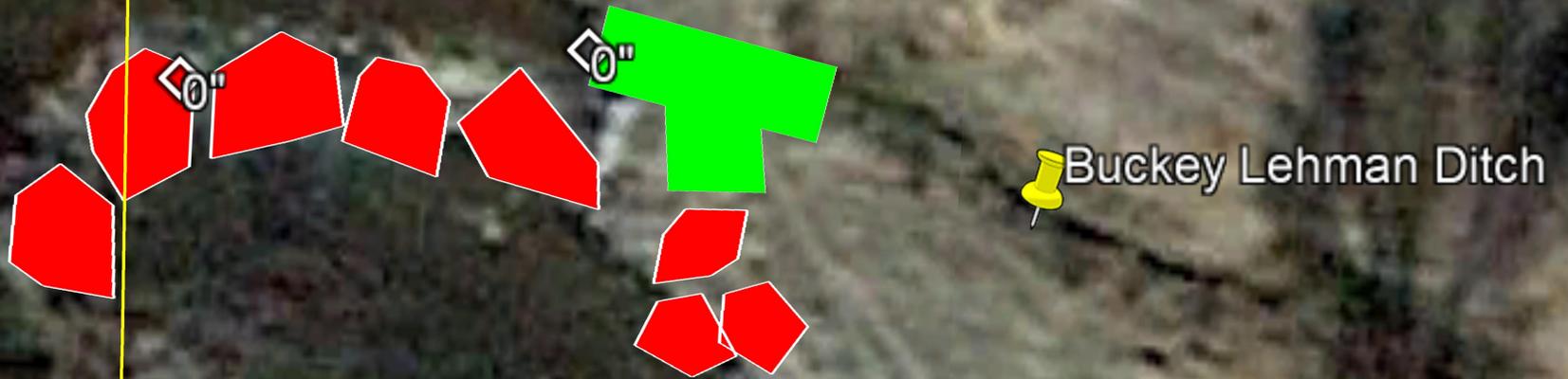
Dominic Barrett  
State Coordinator

# Buckey Lehman Ditch

Proposed Diversion Improvements  
Eagle Ridge Ranch 2020

## Legend

-  New Headgate Structure
-  Property Line
-  Proposed Rip-Rap



# Buckey Lehman Ditch

Vicinity Map  
Eagle Ridge Ranch 2020

Legend

Property Line

County Road 730

Buckey Lehman Diversion

County Road 7

Eagle Ridge Ranch

Eagle Creek Rd

Eagle Hill Rd

Rd 7a



730

2000 ft

Google Earth

© 2019 Google





**Colorado Water Conservation Board**  
**Water Plan Grant - Detailed Budget Estimate**  
**Fair and Reasonable Estimate**

**Prepared Date:** 1/30/2020  
**Name of Applicant:** Trout Unlimited  
**Name of Water Project:** Upper Gunnison Multiple Diversion Project

**EXAMPLE C: Construction**

	Start date	End Date						Matching
<b>Task 1 - Marshall No. 2</b>	7/1/2020	7/1/2022						
<i>Sub-task</i>			Unit	Quantity	Unit Cost	Total Cost	CWCB Funds	Funds
Headgate spec. drawings			EA	1	\$ 2,500	\$ 2,500	\$ 2,500	\$ -
Headgate concrete construction			CY	20	\$ 1,000	\$ 20,000	\$ 10,000	\$ 10,000
Excavate ditch and remove old headgate diversion			Days	7	\$ 1,700	\$ 11,900	\$ 11,900	\$ -
Sluice and ditch control gate			EA	2	\$ 6,000	\$ 12,000	\$ 8,400	\$ 3,600
George Owens ditch repair			LF	120	\$ 115	\$ 13,800	\$ -	\$ 13,800
Tree removal			HRS	20	\$ 150	\$ 3,000	\$ -	\$ 3,000
TU coordination and grant reporting			HRS	50	\$ 45	\$ 2,250	\$ -	\$ 2,250
Ditch alignment and surveying			HRS	15	\$ 45	\$ 675	\$ -	\$ 675
<b>Sub-total</b>						\$ 66,125	\$ 32,800	\$ 33,325
<b>Task 2 - Buckey Lehman</b>	7/1/2020	7/1/2022						
<i>Sub-task</i>			Unit	Quantity	Unit Cost	Total Cost	CWCB Funds	Funds
Rock rip-rap material and hauling			Tons	222	\$ 45	\$ 9,990	\$ 9,990	\$ -
Excavation and mobilization			HRS	53	\$ 180	\$ 9,540	\$ -	\$ 9,540
Headgate structure			EA	1	\$ 3,500	\$ 3,500	\$ -	\$ 3,500
TU coordination and reporting			HRS	40	\$ 45	\$ 1,800	\$ -	\$ 1,800
<b>Sub-total</b>						\$ 24,830	\$ 9,990	\$ 14,840
<b>Task 3- Hyzer Ditch</b>	7/1/2020	7/1/2022						

<i>Sub-task</i>	Unit	Quantity	Unit Cost	Total Cost	CWCB Funds	Matching Funds
Structure design	HRS	15	\$ 150.00	\$ 2,250.00	\$ 450.00	\$ 1,800.00
Rock rip-rap	Tons	300	\$ 45	\$ 13,500	\$ 5,400	\$ 8,100
Headgate modification	HRS	8	\$ 80	\$ 640	\$ -	\$ 640
Excavation and rock placement	HRS	40	\$ 180	\$ 7,200	\$ 3,600	\$ 3,600
TU coordination and grant reporting	HRS	40	\$ 45	\$ 1,800	\$ -	\$ 1,800
<b>Sub-total</b>				<b>\$ 25,390.00</b>	<b>0</b>	<b>\$ 15,940.00</b>
<b>Task 4- Grant Administration</b>	7/1/2020	7/1/2022				
TU grant admin overhead			0.15	\$ 52,240	\$ 7,836	\$ -
Subtotal					\$ 7,836	\$ -
<b>TOTAL</b>				<b>\$ 124,181</b>	<b>\$ 60,076</b>	<b>\$ 64,105</b>
TU in-kind						