COLORADO
Colorado Water Conservation Board
Department of Natural Resources

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	Matthew.Stearns@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Ben.Wade@state.co.us
Agricultural Projects	Alexander.Funk@state.co.us
Environmental & Recreation Projects	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	Copeland Elk Creek Ditch Efficiency Improvement

CWP Grant Request Amount	$ 35,000
Other Funding Sources Water Right owners (secured)	$ 15,000
Other Funding Sources UGRWCD (will request)	$ 30,000
Other Funding Sources NRCS EQIP (pending)	$ 100,000
Other Funding Sources WSRF Gunnison Basin	$ 15,000
Applicant Funding Contribution in-kind (secured)	$ 2000
Total Project Cost	$ 197,000

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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

	Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap.. *Applicable Exhibit A Task(s):*	
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. *Applicable Exhibit A Task(s):*	
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. *Applicable Exhibit A Task(s):*	
X	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. *Applicable Exhibit A Task(s): Task 1, 2 and 3*	
X	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. *Applicable Exhibit A Task(s): Task 2 and 3, Efficiency Improvements will result in improved stream flow.*	
	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/Counties	Gunnison County
Latitude	38.163674°
Longitude	-107.315368°

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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Copeland Elk Creek Ditch diverts water from Elk Creek, tributary to the Lake Fork of the Gunnison River, located 45 miles south of Gunnison Colorado. The water right associated with Copeland Elk Creek Ditch is decreed for 1.25 cfs for irrigation with an adjudication date of 1904. The ditch contours on a steep timbered mountain side for 5500 feet to deliver water to a bench that sits above the valley floor. Sections of the ditch run though wooden flumes fastened to cliffs and several sections are patched with tarps from blows outs. Maintenance of the ditch is extremely difficult as beetle kill trees in the area are susceptible to blow down causing blockage and ditch bank failure.

Copeland Elk Creek Ditch owners are working with Trout Unlimited to secure funding from the CWCB, NRCS, and UGRWCD to pipe the existing earthen ditch from its source on Elk Creek to the irrigated field. On-farm efficiency improvements will also be a part of this project. Delivering water and applying it more efficiently will eliminate irrigation shortages and allow water right owners the flexibility to use efficiency savings to support instream flows in Elk Creek downstream of the diversion.

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)	
	Length of Stream Restored or Protected (linear feet)	
90-acre feet/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; and 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 Copeland Elk Creek Ditch with a pipe and improving on-farm application will improve irrigation efficiency, agricultural production, and reduce labor thereby decreasing the likelihood this property will be converted to other uses.

In section 6.6, page 6-157 of the Colorado Water Plan, 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 landowners, and federal governmental agencies to leverage funding and complete irrigation infrastructure improvements that will provide agricultural and environmental benefits.

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.

Elk Creek is a small stream the supports a trout fishery and contains an Instream flow ("ISF") water right decreed in 1980 for 3 cfs. There are two irrigation ditches upstream and three ditches downstream of the Copeland Elk Creek Ditch that depend on Elk Creek for supply. Stream dry-up and irrigation shortages frequently occur.

This project will allow the water right owner flexibility to leave an estimated .25 - .5cfs of Copeland ditch water in the stream during low flow periods to support the Elk Creek ISF right downstream of the point of diversion.

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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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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Grant Name	CWCB Funding Source	Agreement Number	Amount	Start Date	End Date	Match Amount Cash	Match Amount inkind	Total Project Amount	CWCB Percentage
Upper Gunnison Multiple Diversion Project	WSRF and CWP	POGG1 202100002108	$ 71,731	8/6/2020	8/31/2023	$ 60,000	$ 12,269	**$ 154,000**	47%
Appling Tech to monitor grass CU	CWP	POGG1 202100002064	$29,394	7/24/2020	6/1/2022	$ 21,055	$ 12,236	**$ 62,685**	47%
Innovative Irrigation Efficiency for Mountain Meadows	CWP-Agriculture	POGG1,202000000009	$54,048	7/1/2019	7/1/2024	$50,860	$8,000	**$112,908**	48%
Octate Properties Channel and Irrigation Improvement	CWP-Environment/Recreation	POGG1, 202000002815	$11,589	2/1/2020	6/20/2022	$127,000	$3,000	**$141,589**	8%
Cimmaron Canal Diversion Gate Replacement/Water Mgt. Plan	CWP Environment/Recreation	not executed yet	$18,918	TBD	TBD	$15,000	$3,000	**$48,418**	39%
Cimmaron Canal Diversion Gate Replacement/Water Mgt. Plan	WSRF-GBRT Basin Funds	not executed yet	$11,500	TBD	TBD				
Blue River Integrated Water Mgt. Plan	Stream Restoration-SMP	CTGG12020-032	$126,819	7/1/2019	12/31/2021	$32,000	$31,710	**$253,639**	50%
Blue River Integrated Water Mgt. Plan	CWP-Environment/Recreation	CTGG12020-032	$30,000	7/1/2019	12/31/2021				
Blue River Integrated Water Mgt. Plan	CWP-Engagement/Innovation	CTGG12020-032	$16,000	7/1/2019	12/31/2021				
Blue River Integrated Water Mgt. Plan	WSRF-CBRT Basin Funds	CTGG12020-032	$17,110	7/1/2019	12/31/2021				
Monarch Pass Gravel Pit Reclamation		not executed yet	$77,389	TBD	TBD				
Tomichi Creek Flow Restoration		CTGG1 2018-902	$75,000	5/4/2018	10/31/2022			**$ 220,000.00**	34%
Tomichi Creek Flow Restoration-WSRF Grant		CTGG1 2018-901	$34,500	5/4/2018	10/31/2022			**$ 220,000.00**	16%
Colorado Abrams Creek Cutthroat		CTGG1 2018-298	$364,711	1/4/2018	9/1/2022	$549,700	$74,700	**$1,341,650**	27%
Ware Hinds Fish Bypass	WSRF-CBRT Basin Funds and State Funds (50/50)	POGG1 2017-0749	$63,500	2/14/2017	12/31/2018	$91,880	$19,550	**$174,930**	36%
Irrigators in Kremmling		CTGG1 2017-0667	$465,400	11/29/2016	9/30/2018	$465,400			
Windy Gap Reservoir Bypass	WSRF-CBRT	POGG1 2016-0900	$30,000	5/18/2016	1/31/2017				
Windy Gap Reservoir Bypass Project	CWP-Environment/Recreation	CTGG1 2019-2233	$325,237	12/3/2018	11/30/2023	$1,803,910		**$2,129,147**	15%
San Miguel River Stream Management Plan Pilot	WSRF-SWBRT	POGG1 2016-0800	$96,413	3/22/2016	5/31/2021	$20,138	$12,000	**$128,551**	75%
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	$70,000		**$183,000**	62%
Redburn Ranch Diversion Dam		CTGG1 2015-2791	$148,500	1/27/2015	6/1/2018				
South Arkansas River Restoration		POGG1 2015-0175	$10,000	11/14/2014	10/31/2016				
Upper Ohio Creek Flow Restoration		POGG1 2015-0161	$6,000	10/10/2014	12/31/2014	$ 9,850.00		$ 175,000.00	3%

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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	
	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 3rd 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)

(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:	**Copeland Elk Creek Ditch Efficiency Improvement**
Funding Source:	**Agricultural Category**

Water Project Overview:

Copeland Elk Creek Ditch diverts from Elk Creek, Tributary to the Lake Fork of the Gunnison River, located 45 miles south of Gunnison Colorado. The water right associated with Copeland Elk Creek Ditch is decreed for 1.25 cfs for irrigation with an adjudication date of 1904. The ditch contours on a steep timbered mountain side for 5500 feet to deliver water to a bench that sits above the valley floor. Sections of the ditch run though wooden flumes fastened to cliffs and tarped blow outs. Maintenance of the ditch is extremely difficult as beetle kill trees in the area are susceptible to blow down causing blockage and ditch bank failure.

Elk Creek is a small stream that supports a trout fishery and contains an Instream flow ("ISF") water right decreed in 1980 for 3 cfs. There are two irrigation ditches upstream and three ditches downstream of the Copeland Elk Creek Ditch that depend on Elk Creek for supply. Stream dry-up and irrigation shortages frequently occur.

Copeland Elk Creek Ditch owners are working with Trout Unlimited to secure funding from the CWCB, NRCS, and UGRWCD to pipe the existing earthen ditch from its source on Elk Creek to the irrigated field. On-farm efficiency improvements will also be a part of this project. Delivering water and applying it more efficiently will eliminate irrigation shortages and allow water right owners the flexibility to use efficiency savings to support instream flows in Elk Creek downstream of the diversion.

Project Objectives:

1. Improve Copeland Elk Creek Ditch system reliability, efficiency, and overall function.
2. Reduce the burden of operating and maintaining ditch in steep forested terrain.
3. Protect pre-compact water rights.
4. Improve instream flow in Elk Creek downstream of the Copeland Elk Creek diversion.

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Tasks
Task 1 – Pipe Engineering and Design
Description of Task:
This task will involve designing a pipe inlet/headgate, pipeline and on-farm efficiency improvements. Project partners plan to contract with a private engineering firm certified as a technical service provider (TSP) to complete the engineering. The design will need to meet NRCS specifications to qualify for NRCS funding.
Method/Procedure:
Engineering firm will be hired in December 2020 to develop preliminary pipeline design. Water right owners will cover initial costs of design to initiate the process with the goal of having preliminary design completed by February of 2021 for NRCS application. Once additional project funding is secured full design will be completed.
Deliverable:
• Completed Design.

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Tasks
Task 2 – Pipe Construction
Description of Task:
This task will involve hiring a construction contractor to complete construction of the pipe inlet/headgate and pipeline.
Method/Procedure:
Contractor selection will be based on bid price, understanding of the project, and experience in related construction. Proposed construction of the pipe is late summer/fall of 2021. Construction will be completed as specified in the design developed in task 1. Due to the extreme nature of the terrain, segments of pipe will need to be placed by hand using the exiting ditch or wooden flumes for alignment.
Deliverable:
• Progress photos during construction • Completed pipeline

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Tasks
Task 2 – On-Farm Efficiency Improvements
Description of Task:
This task will involve hiring a contractor to complete construction of sprinkler system as designed in task 1.
Method/Procedure:
Contractor selection will be based on bid price, quality of product, and experience in related construction. Proposed construction of these on-farm efficiency improvements is planned summer/fall of 2022.
Deliverable:
• Progress photos during construction • Completed sprinkler system

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

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Performance Measures
(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: Copeland Elk Creek Ditch Efficiency 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	1/1/2021	12/1/2021	$ 5,000.00	$ 7,000.00	$ 12,000.00
2	Construction pipeline and headgate	8/1/2021	12/1/2022	$ 30,000.00	$ 85,000.00	$ 115,000.00
3	On-farm efficiency Improvements	8/1/2022	12/1/2023	$ -	$ 70,000.00	$ 70,000.00
			Total	$35,000	$162,000	$197,000

November 27, 2020

Colorado Water Conservation Board
Colorado Water Plan Grants
Agricultural Category

RE: Copeland Ditch Elk Creek Efficiency Improvement

Dear Mr. Funk,

As owner of property irrigated by the Copeland Elk Creek Ditch, I am writing this letter to offer my support to the Copeland Ditch Elk Creek Ditch Efficiency Improvement Project.

The Copeland Elk Creek Ditch contours on a steep timbered mountain side to deliver water to my irrigated land. Sections of the ditch run though wooden flumes fastened to cliffs and we have used culvert pipe and tarps to patch several blow outs. Maintenance of the ditch has become extremely difficult as beetle kill trees in the area are susceptible to blow down causing blockage, ditch failure and hillside erosion.

I brought these issues up during conversations with Upper Gunnison Watershed Management Planning outreach coordinators in the spring of 2020. Those discussions have led me to begin the process of securing funding from the National Resource Conservation Service, Upper Gunnison River Water Conversancy District and the Colorado Water Conservation Board (CWCB) to pipe the ditch and increase "on-farm" irrigation efficiency. These improvements will significantly reduce the labor needed to maintain and operate the ditch, protect pre-compact agricultural water rights and provide an opportunity to work with the CWCB to improve instream flows on Elk Creek.

I am committing $5,000 dollars in-kind and up to $10,000cash toward the project.

I encourage the Colorado Water Conservation Board to grant Trout Unlimited funds requested for the Copeland Ditch Efficiency Project.

Thank you for your time and consideration.

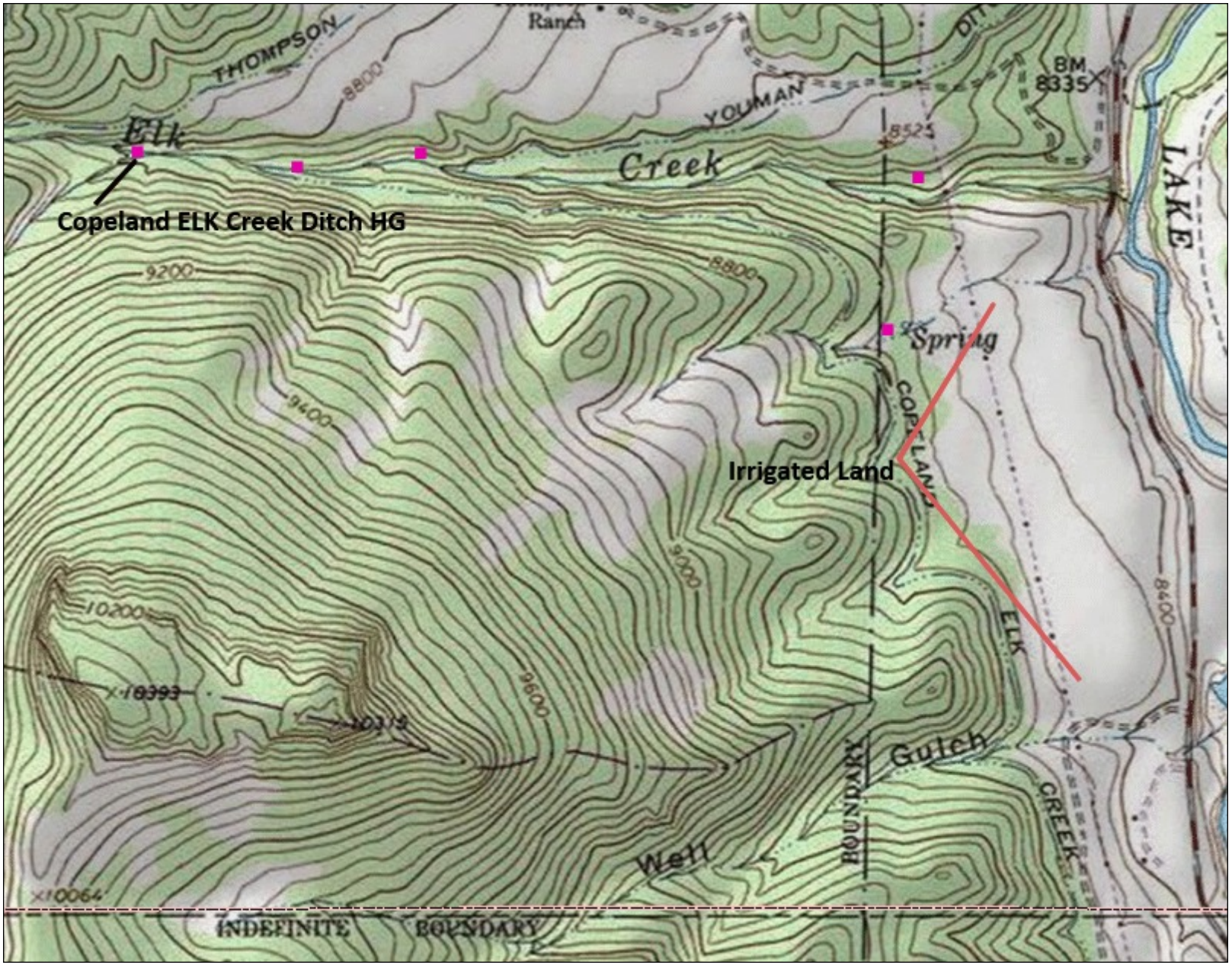
Sincerely,

Richard Landry
Owner Copeland Ditch
Address: 105 HWY 149 Powderhorn, Co., 81243 PO Box 461 Lake City, Co., 81235
Phone: 970-275-8552

Richard A Landry

COLORADO'S
Decision Support Systems
CWCB / DWR

Map Viewer



Legend

- Surface Water
- County

Location

Notes

2,339 0 1,169 2,339 Feet

1: 14,032

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 or consult the primary data and information sources to ascertain the usability of the information.

Date Prepared: 12/1/2020 11:37:39 AM

Wooden Flume Section

Ditch section in good shape

Tree blow down along ditch

Elk Creek below diversion June 2020