



Colorado Water Conservation Board

Water Supply Reserve Fund - Statewide & Basin

Water Project Summary

Name of Applicant	Colorado Ag Water Alliance	
Name of Water Project		
Basin Account Request Subtotal		\$37,000.00
Statewide Request Amount		\$370,000.00
Statewide Project Category		Aging Infrastructure
Applicant Cash Match		\$15,479.00
Applicant In-Kind Match		\$0.00
Basin Requests		
Sources of Funding		

Grant Details

Statewide Project Category Justification

Maintaining Lone Cone Reservoir will help irrigators during drought and this reservoir over 100 years old is in need of repairs.

Applicant & Grantee Information

Name of Grantee: Colorado Ag Water Alliance

Mailing Address: 10440 W Fair Unit C Littleton CO 80127

Organization Contact: Tom Meehan

Position/Title:

Email: tom@earthtechwest.com

Phone: 9702096097

Grant Management Contact: Tom Meehan

Position/Title:

Email: tom@earthtechwest.com

Phone: 9702096097

Description of Grantee/Applicant

Association of agricultural organization focused on education and outreach. Our mission is to support and preserve irrigated agriculture

Location of Water Project

Latitude 0.000000
 Longitude 0.000000
 Lat Long Flag
 Water Source
 Basins
 Counties

Districts

Water Project Overview

Major Water Use Type
Type of Water Project
Scheduled Start Date - Design 10/16/2024
Scheduled Start Date - Construction 10/16/2024
Description

Measurable Results

0 New Storage Created (acre-feet)
0 New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
0 Existing Storage Preserved or Enhanced (acre-feet)
0 New Storage Created (acre-feet)
0 Length of Stream Restored or Protected (linear feet)
0.00 Length of Pipe, Canal Built or Improved (linear feet)
\$0 Efficiency Savings (dollars/year)
0 Efficiency Savings (acre-feet/year)
0 Area of Restored or Preserved Habitat (acres)
0 Quantity of Water Shared through Alternative Transfer Mechanisms or water sharing agreement (acre-feet)
0 Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
0 Number of Coloradans Impacted by Engagement Activity
Other
No additional measurable results provided



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Matching Requirements: Basin Account Requests	
Total Match	\$95,479
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

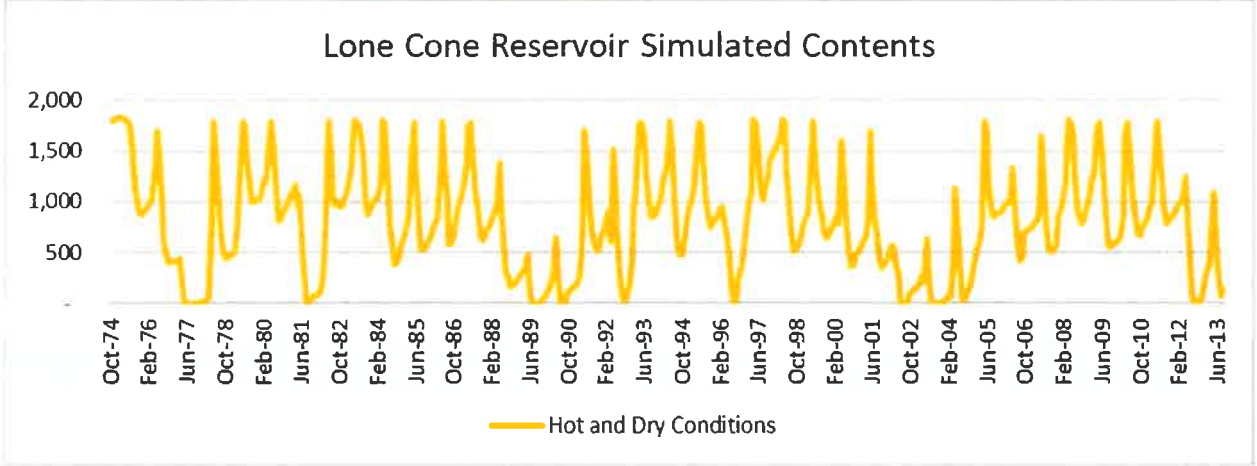
Previous CWCB Grants
List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order
<ul style="list-style-type: none"> 1) Lone Cone Ditch & Reservoir Company 2) Lone Cone Ditch & Reservoir Company – Lone Cone Reservoir Rehabilitation, Phase 1 3) Southwest Basin Roundtable 4) 2022 5) POGG1,PDAA,202300002575

Tax Payer Bill of Rights
The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.
N/A



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Water Activity Justification



In order to maintain agricultural productivity and meet future demands of the crop, the company will need Lone Cone Reservoir in working order so that they can continue to fill the reservoir to capacity.

This project is an identified Southwest Basin Roundtable project (IPP #SWSM-2015-0002) and supports the need to maintain agricultural water needs, meet municipal and industrial water needs, and maintain the quality of the water in the region. (Southwest Basin Implementation Plan).

This project has the future potential to develop additional water storage in the basin for both agricultural, municipal, recreational and industrial use.

The reservoir does typically retain some water year-round and supports some small aquatic life i.e. cray fish, native trout and minnows, which supports used by water birds and area wild life. The birds documented in the area include Canada Goose, Cinamon Teal, Gadwall, American Wigeon, Rehead, Ring-necked Duck, Lesser Scaup, Ruddy Duck, Eared Grebe, Western Grebe, American Coot, and Willet. The ditch systems have developed large riparian zones threw out the public and private areas they flow through thus providing summer water for area wild life and native small aquatic life over an area of 2,300 acres.

¹ Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.

Matching Requirements: Basin Account Requests

Basin Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3rd party and shall be accompanied by a letter of commitment as described in the [WSRF Program 2022 Grant Guidelines](#) (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Southwestern Water Conservation District	\$50,000 (will submit application)
San Miguel County	\$5,000 (secured)
Lone Cone Ditch and Reservoir Company	\$15,479 (secured)
Colorado Parks and Wildlife Partnership Program	\$25,000 (request submitted)



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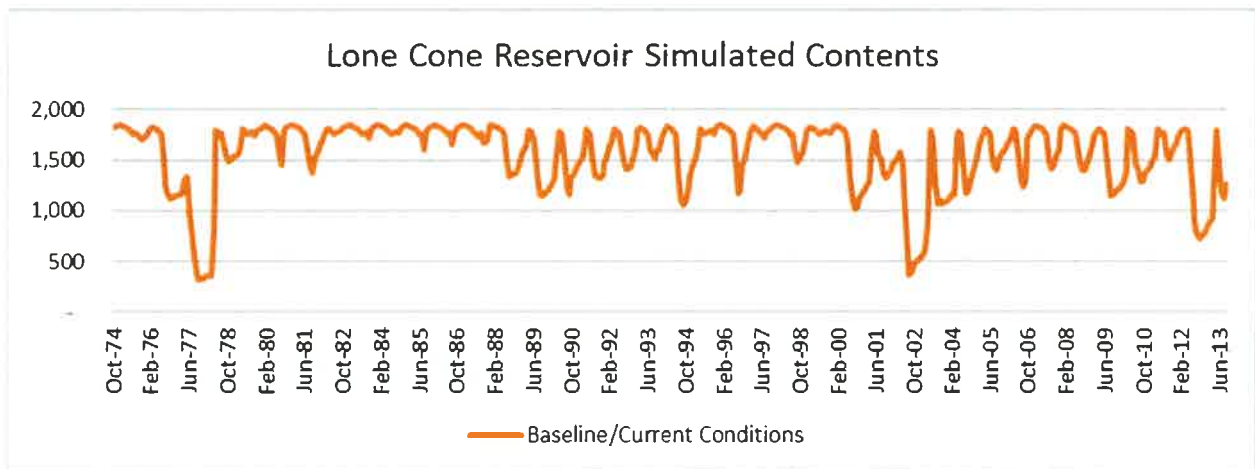
Measurable Results	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)
	Area of Restored or Preserved Habitat (acres)
	Length of Pipe/Canal Built or Improved (linear feet)
Other	Explain:

Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Analysis & Technical Update](#), and the respective [roundtable Basin Implementation Plan and Education Action Plan](#)⁽¹⁾. 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).

This project supports the agriculture economy by helping manage water storage and distribution throughout the entire growing season and helps conserve water that may otherwise have to be spilled early in the season. Further, this project helps support the need for municipal water supply storage through an agreement with the Town of Norwood (Colorado Water Plan). The project helps mitigate or avoid an economic impact to agricultural operations and maximizes the use of available water resources. This project helps modernize an aging infrastructure, helps to preserve an existing storage facility and conforms to Colorado's Water Plan criteria for state support. (WSRF Criteria and Guidelines, 2020). The outlet from the reservoir through the embankment is in critical need of repair and could collapse in the next few years.

The importance of storage is only going to increase since there will have a hotter and drier future. Currently irrigation demand is often met entirely from direct diversions and in only the drier years do irrigators need water from the reservoir to satisfy the demand of the crop. The graph below simulates the volume of water in Lone Cone Reservoir from 1977 to 2013 under current conditions.



However, using the climate adjusted conditions for "Hot and Dry Climate" in The Water Plan, the demand for irrigation water supplies goes up, water available from the direct diversion drops, and more water is taken from storage. At times, the reservoir can't always meet the full demand of the crop. The graph below simulates the volume of water in Lone Cone Reservoir from 1977 to 2013 with the adjusted climate conditions.

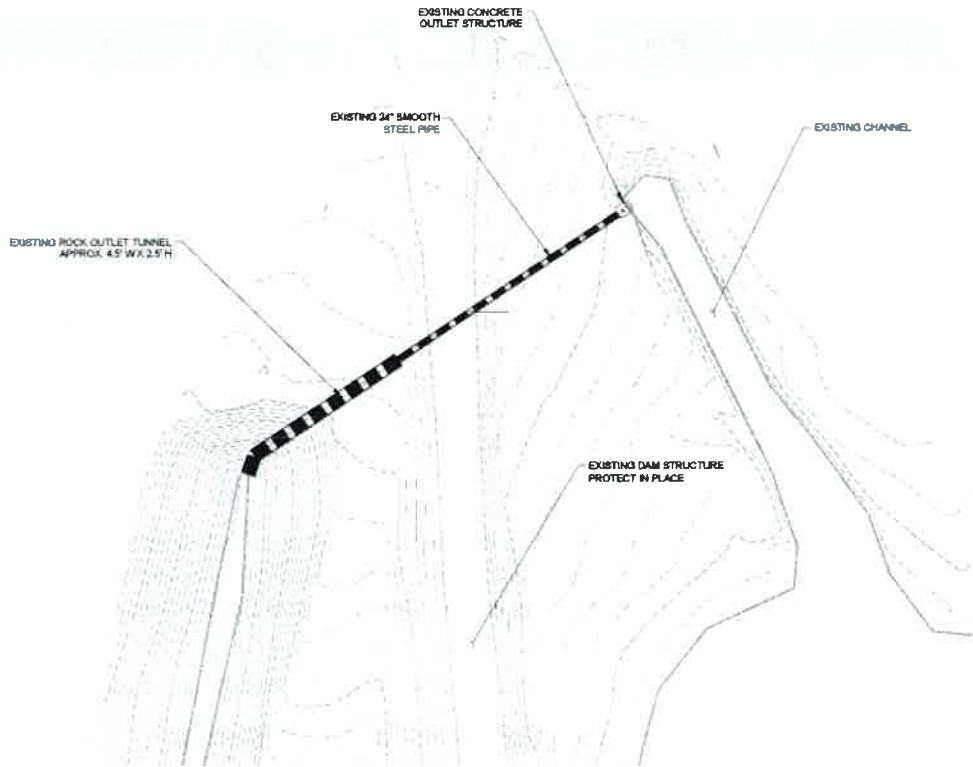


Last Update: March 8, 2022

Water Activity Overview

Short Elliott Hendrickson, Inc. (SEH) updated an existing engineering study performed in 2019, and completed the design for a new intake structure, outlet conduit, valve vault and outlet structures to replace the existing outlet.

The current outlet structure is under threat of caving in, which would block the outlet and prevent water from being released. The outlet begins with a trench/channel that was dug along the bottom of the reservoir to the existing concrete outlet structure. This channel is not lined with any material and regularly has erosion problems. The sides of the channel collapsing are a significant problem. Water then runs through a smooth steel pipe and a rock outlet tunnel to come out on the other side of the dam embankment (pictured below).



This project will address several problems to keep the reservoir working. First, the channel preceding the outlet will be shored up with concrete wingwalls and backfilled to prevent collapse. The outlet itself will be replaced and reinforced with a rock check dam. The pipe within embankment that is currently steel (first section) and rock (second section) will be replaced with precast concrete (first section) and HDPE (second section). A new valve system will also be added.

Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	New Storage Created (acre-feet)
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
1,750	Existing Storage Preserved or Enhanced (acre-feet)
	Length of Stream Restored or Protected (linear feet)



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Type of Eligible Entity (check one)	
<input type="checkbox"/>	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
<input type="checkbox"/>	Study
X	Implementation

Category of Water Activity (check all that apply)	
<input type="checkbox"/>	Nonconsumptive (Environmental)
<input type="checkbox"/>	Nonconsumptive (Recreational)
X	Agricultural
X	Municipal/Industrial (via agreement with Town of Norwood, CO)
<input type="checkbox"/>	Needs Assessment
<input type="checkbox"/>	Education & Outreach
<input type="checkbox"/>	Other Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/COUNTIES	San Miguel County
Latitude	38.0005642
Longitude	-108.2510974

Water Activity Overview
<p>Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. 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, area of habitat improvements. 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, and Schedule.</p>



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Colorado Water Conservation Board

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Grantee and Applicant Information	
Email	tom@earthtechwest.com
Phone	970-209-6097
Grant Management Contact ²	Colorado Ag Water Alliance / Greg Peterson
Position/Title	Executive Director
Email	coagwater@gmail.com
Phone	720-244-4629
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

¹ Person with signatory authority

² Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
Lone Cone Ditch & Reservoir Company (LCDRC) is a 120-member agriculture mutual ditch company formed in 1904 to secure and maintain agricultural water and water rights from the San Miguel River. LCDRC serves 50 shareholders with ag water divided into 216 shares for about 8.51 acre feet per share. The system has 14 miles of ditch for collection and the delivery of 187cfs absolute water rights to the reservoir. The delivery system to the shareholders consists of 38 miles of ditch split by 4 laterals / division boxes and a division box for each share holder. The system was set up to provide water to 2,300 acres. There is in-place an agreement with the town of Norwood for future storage and delivery of a 100cfs with future capacity increase.

Type of Eligible Entity (check one)	
<input type="checkbox"/>	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.
<input type="checkbox"/>	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
<input checked="" type="checkbox"/>	Private Incorporated: mutual ditch companies, homeowners associations, corporations
<input type="checkbox"/>	Private Individuals, Partnerships, and Sole Proprietors: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
<input type="checkbox"/>	Non-governmental organizations: broadly, any organization that is not part of the government



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CWCB Meeting	Application Submittal Dates
January	October 1
March	December 1
May	February 1
July	April 1
September	June 1
November	August 1

Water Activity Summary	
Name of Applicant	Lone Cone Ditch & Reservoir Company
Name of Water Activity	Lone Cone Reservoir Rehabilitation – Phase 2: Construction
Approving Roundtable(s)	Basin Account Request(s) ¹
Southwestern Basin Roundtable	\$46,548
Basin Account Request Subtotal	\$46,548
Basin Account Request Subtotal Approved by Roundtable	
Statewide Account Request	\$323,452
Total WSRF Account Funds Requested	\$370,000
Total Project Costs	\$465,479

¹ Please indicate the amount recommended for approval by the Roundtable(s)

Grantee and Applicant Information	
Name of Grantee(s)	Lone Cone Ditch & Reservoir Company
Mailing Address	PO Box 911, Norwood, CO 81423
FEIN	36-4987523
Grantee's Organization Contact ¹	Tom Meehan
Position/Title	Member/Stockholder



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Colorado Water Conservation Board

Water Supply Reserve Fund Grant Application

Instructions

All WSRF grant applications shall conform to the current [WSRF Program 2022 Grant Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be recommended for approval by a Roundtable(s) **AND** the approved by the Colorado Water Conservation Board (CWCB). The process for roundtable consideration and recommendation is outlined in the WSRF Program 2022 Grant Guidelines. The CWCB meets bimonthly.

If you have questions, please contact the WSRF Grant Program Manager (for all Roundtables) or the Roundtable Liaison:

Ben Wade

ben.wade@state.co.us

303-866-3441 x3238 (office)

WSRF Submittal Checklist (Required)

- YES NO This request was recommended for CWCB approval by the sponsoring roundtable.
- YES NO I have read and understand the [WSRF Program 2022 Grant Guidelines](#).
- YES NO Grantee will be able to contract with CWCB using the [Standard Contract](#).¹

Application Documents included:

- YES NO Exhibit A: Statement of Work² (*Word – see Template*)
- YES NO Exhibit B: Budget (including Detailed Budget) & Schedule² (*Excel Spreadsheet – see Template*)
- YES NO Letters of Matching and/or Pending 3rd Party Commitments²
- YES NO Map²
- YES NO Photos/Drawings/Reports
- YES NO Letters of Support

Contracting Documents³

- YES NO Detailed/Itemized Budget³ (*Excel Spreadsheet – see Template*)
- YES NO Certificate of Insurance⁴ (*General, Auto, & Workers' Comp.*)
- YES NO Certificate of Good Standing⁽⁴⁾
- YES NO W-9 Form⁴
- YES NO Independent Contractor Form⁴ (*If applicant is individual, not company/organization*)
- YES NO Electronic Funds Transfer (ETF) Form⁴

¹Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

² Required with application if applicable.

³ Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

⁴ Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

NOTE TO APPLICANTS: Below are two "detailed budget" EXAMPLES". Detailed budgets will vary between all projects, so these examples can be used as a helpful guide



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Colorado Water Conservation Board

Detailed Budget Estimate

Date: 7/25/2024

Water Activity Name: Lone Cone Reservoir Rehabilitation - Phase 2: Construction

Grantee Name: Lone Cone Ditch & Reservoir Company

Tasks	Unit	Unit Quantity	Unit Cost	Total	CWCB Funds	Other Matching Funds (cash)
Task 1 - Construction						
Mobilization - 15%	LS	1	\$ 49,872.75	\$ 49,872.75	\$ 39,898.20	\$ 9,974.55
Pipe Lining	LS	1	\$ 55,000.00	\$ 55,000.00	\$ 44,000.00	\$ 11,000.00
Remove Structure	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 2,000.00	\$ 500.00
Clearing and Grubbing	AC	0.20	\$ 15,000.00	\$ 3,000.00	\$ 2,400.00	\$ 600.00
Excavation	CY	500	\$ 75.00	\$ 37,500.00	\$ 30,000.00	\$ 7,500.00
Rock Excavation	CY	500	\$ 150.00	\$ 75,000.00	\$ 60,000.00	\$ 15,000.00
Trench shoring (25 ft depth)	LS	1	\$ 30,000.00	\$ 30,000.00	\$ 24,000.00	\$ 6,000.00
Dewatering	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 8,000.00	\$ 2,000.00
Replacement Backfill (structural)	CY	1000	\$ 45.00	\$ 45,000.00	\$ 36,000.00	\$ 9,000.00
Silt Fence Heavy Duty	LF	500	\$ 5.00	\$ 2,500.00	\$ 2,000.00	\$ 500.00
Stabilized Staging Area	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 2,000.00	\$ 500.00
Outlet Protection (Reinforced Rock Check Dam)	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 200.00
Sediment Control Log	LF	200	\$ 5.00	\$ 1,000.00	\$ 800.00	\$ 200.00
Topsoil Borrow	CY	200	\$ 20.00	\$ 4,000.00	\$ 3,200.00	\$ 800.00
Native Seed Mixture	AC	0.20	\$ 6,000.00	\$ 1,200.00	\$ 960.00	\$ 240.00
Erosion Control Blanket Straw	SY	200	\$ 5.00	\$ 1,000.00	\$ 800.00	\$ 200.00
30" HDPE Complete in Place	LF	80	\$ 100.00	\$ 8,000.00	\$ 6,400.00	\$ 1,600.00
30" RCP RES	EA	1	\$ 1,285.00	\$ 1,285.00	\$ 1,028.00	\$ 257.00
Special Storm Sever Structure 1	EA	1	\$ 50,000.00	\$ 50,000.00	\$ 40,000.00	\$ 10,000.00
Gate Valve System (manual)	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 1,600.00	\$ 400.00
Permitting and testing - 5%			\$ 16,624.25	\$ 16,624.25	\$ 13,299.40	\$ 3,324.85
Contingency - 20%			\$ 66,497.00	\$ 66,497.00	\$ 50,814.40	\$ 15,682.60
TOTAL				\$ 465,479.00	\$ 370,000.00	\$ 95,479.00



Colorado Water Conservation Board

Water Supply Reserve Fund (WSRF)

EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs

Date: 7/25/2024

Water Activity Name: Lone Cone Reservoir Rehabilitation - Phase 2: Construction

Grantee Name: Lone Cone Ditch & Reservoir Company

<u>Task No.</u> (1)	<u>Description</u>	<u>Start Date</u> (2)	<u>End Date</u>	<u>Matching Funds</u> (cash & in-kind) (3)	<u>WSRF Funds</u> (Basin) (3)	<u>WSRF Funds</u> (Statewide) (3)	<u>Total</u>
1	Construction	8/21/2025	12/31/2028	\$ 95,479.00	\$ 46,548.00	\$ 323,452.00	\$ 465,479.00
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
Total				\$95,479	\$46,548	\$323,452	\$465,479

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Round values up to the nearest hundred dollars.

Additional documentation providing a Detailed/Itemized Budget may be required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

SOUTHWEST BASIN ROUNDTABLE'S EVALUATION QUESTIONNAIRE

To assist the Roundtable in determining whether and to what extent a proposed project and/or process meets the values set forth in the Roundtable Bylaws and goals of the Basin Implementation Plan, the following questions should be addressed separately as can reasonably be answered by the applicant. Note: this is not an exhaustive list and additional questions may be asked of the applicant.

1. Identify the benefit(s) the project would provide. Are there multiple purposes (Agricultural, Environmental, Municipal, Industrial, Recreational) that the project would meet as defined in the Basin Implementation Plan? *Note: Projects that meet multiple purposes are strongly encouraged; however, this does not mean that a single purpose project would be rejected.*

Support the needs of agriculture: This project will prevent the reservoir from failing and provides supply for 2,300 irrigated acres, which is especially helpful during dry years. It will also address aging infrastructure that delivers irrigation water.

Meet municipal & industrial water needs: Lone Cone Reservoir does not currently deliver water to the Town of Norwood, but the Reservoir Company and the town have an agreement to provide 100 AF of water. This reservoir presents an option of future supply for the town.

Meet environmental water needs: Lone Cone Reservoir is along the migratory route for several bird species and provides valuable riparian habitat for waterfowl. The reservoir is also within the documented habitat of the Gunnison Sage Grouse.

Manage risk with the Colorado River Compact: Two of the storage rights associated with the reservoir predate the Compact (1911 & 1914). Rehabilitating Lone Cone Reservoir will help preserve this existing storage supply, and the majority of storage rights are Post Compact and would be under threat of curtailment.

2. Outline the steps needed for completion of the project. Are there permit issues that must be overcome? How will funds acquired in this process be used to accomplish the final goal?

Project Permitting/Planning: The necessary permissions, permits and planning for engineering design finalization will be conducted by Short Elliott Hendrickson, Inc. (SEH) and Lone Cone Ditch and Reservoir Company. The Company won't need a 404 Permit because the project is exempt for agricultural reasons. This should take approximately 3 months.

Construction: Construction should take only 3 months, but cannot interfere with the irrigation season and is dependent on weather conditions (Q4 2025 – Q1 2026). If weather conditions make construction difficult, this phase may extend into Q4 of 2026.

The funds in this project will be used for the construction process.

2. For prioritization of different proposals and assessment of the merits of the plan, can this project be physically built with this funding? Are further studies needed before actual construction is commenced (if the project anticipates construction)? Will these studies or additional steps delay the completion of the project substantially?

Yes, this project can be built with this funding. Starting in 2019, Short Elliott Hendrickson, Inc. updated an existing engineering study performed in 2019, and completed the design for a new intake structure, outlet conduit, valve vault and outlet structures to replace the existing outlet. No further studies are needed.

3. What is the ability of the sponsor to pay for the project? What actions have been taken to secure local funding? Are there supporting factors that affect the sponsor's ability to pay? Please provide a summary of the sponsor's financial condition such as customer fee structure, mill levy rate, or other applicable information that demonstrates the sponsor's ability to support the project. For example, has the sponsor increased assessments or rates to meet the project requirements in the past five years. Also, address how a loan could address the needs of the applicant instead of a grant?

The applicant has assessed shareholders to help pay for the design and engineering completed by SEH Inc. Lone Cone Ditch and Reservoir Company will again assess the shareholders to provide \$15,000 for construction costs. The Company has been able to secure funds from San Miguel County, and have submitted proposals for funding from the Southwestern Water Conservation District, Colorado Parks and Wildlife Habitat Partnership Program, and the U.S. Fish and Wildlife Partnership Program. Meetings with Colorado Parks and Wildlife and U.S. Fish and Wildlife about the project have been positive and we will know about those requests soon.

4. Which alternative sources of water or alternative management ideas have you considered? Are there water rights conflicts involving the source of water for the project? If yes, please explain.

This reservoir is the alternative source of water for irrigators on the Lone Cone Ditch and Reservoir Company who rely on direct flow rights to irrigated most years. Water stored in the reservoir becomes essential during times of drought. There are not water rights conflicts.

5. Has there been public input solicited and is there local support for the project? Please provide a brief summary of public input if applicable.

The Lone Cone Ditch and Reservoir Company has received support from several organizations during the design phase of this project: West End Economic Development Association, San Miguel County, The Basin Roundtable, and the Southwestern Water Conservation District. For the construction phase of the project, the Lone Cone Ditch and Reservoir also has sought the support of the Colorado Parks and Wildlife and the U.S. Fish and Wildlife.

6. Is there opposition to the project? If there is opposition, how have those concerns been addressed? Identify any conflicts that may exist and how they will be addressed.

No opposition to the project.

7. Does this project affect the protection and conservation of the natural environment, including the protection of open space? If yes, please explain.

Yes, the reservoir had become valuable migratory habitat for a variety of waterfowl: geese, grebes, ducks, willets, coots, and a few other species. The reservoir is also habitat for Gunnison Greater Sage Grouse. If the outlet is not replaced and the infrastructure fails, the reservoir will not be able to fill and provide habitat for wildlife.

8. Are there impacts of the proposed action on other non-decreed values of the stream or river? Non-decreed values may include things such as non-decreed water rights or uses, recreational uses and soil/land conservation practices.

No.

9. Does this project relate to a Stream Management Plan (SMP) or Needs Assessment for one of southwest Colorado river reaches? If yes, please explain and provide detailed evidence of how project will meet SMP goals or needs.

No.

10. Does this project relate to local land use plans? If yes, please explain.

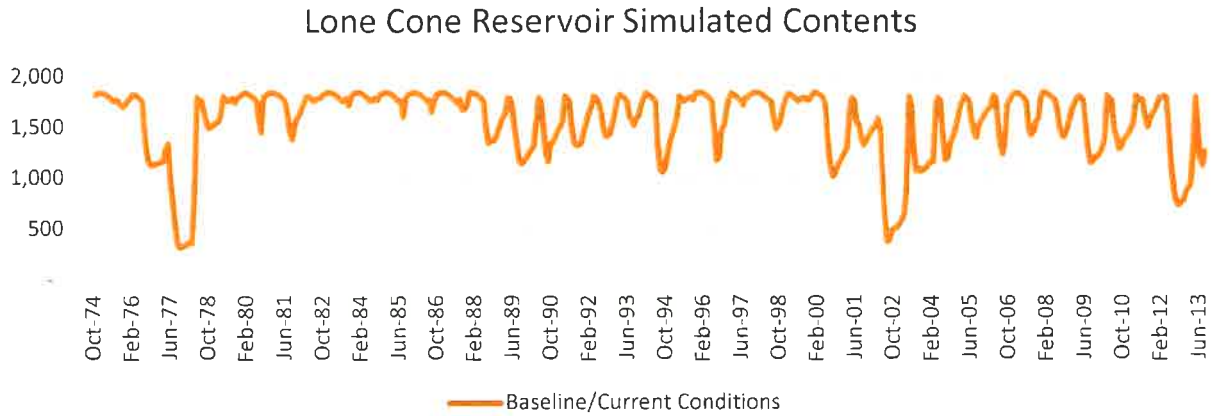
No.

11. Does the project depend on a conversion of an agricultural water right? If yes, please explain.

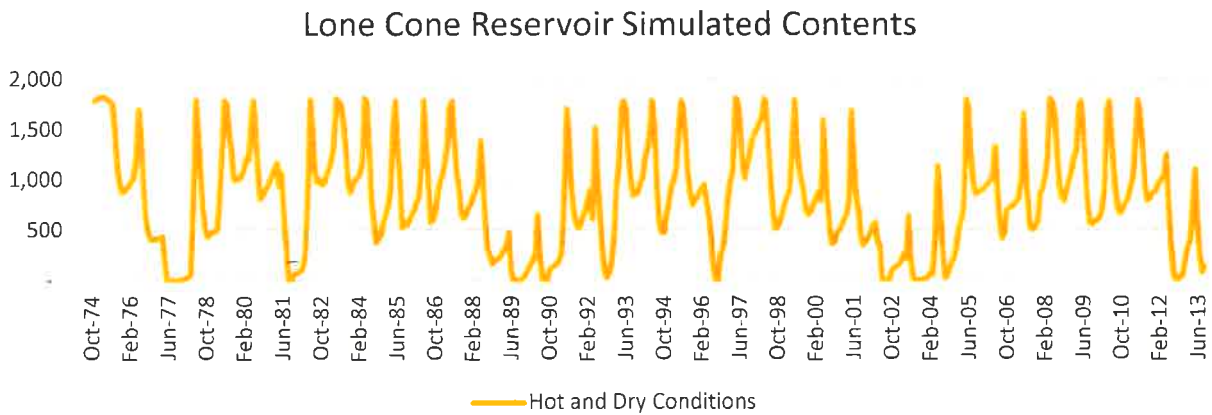
No.

12. Does the project support agricultural development or protect the existing agricultural economy? If yes, please explain.

The reservoir and ditch company was set up to irrigate 2,300 acres of grass hay and provides valuable late season water for irrigators. The importance of storage is only going to increase since there will have a hotter and drier future. Currently irrigation demand is often met entirely from direct diversions and in only the drier years do irrigators need water from the reservoir to satisfy the demand of the crop. The graph below simulates the volume of water in Lone Cone Reservoir from 1977 to 2013 under current conditions.



However, using the climate adjusted conditions for “Hot and Dry Climate” in The Water Plan, the demand for irrigation water supplies goes up, water available from the direct diversion drops, and more water is taken from storage. At times, the reservoir can’t always meet the full demand of the crop. The graph below simulates the volume of water in Lone Cone Reservoir from 1977 to 2013 with the adjusted climate conditions.



In order to maintain agricultural productivity and meet future demands of the crop, the company will need Lone Cone Reservoir in working order so that they can continue to fill the reservoir to capacity.

13. Does the project optimize existing water rights and/or existing infrastructure? If yes, please explain.

Yes, this project is necessary to maintain the delivery of water from the 1,840 AF stored in the reservoir that are decreed and absolute water rights. The reservoir has an additional 425 AF of storage that can be fully realized once the outlet is replaced and plans for expansion can begin.

14. Does the applicant anticipate future funding requests to complete the additional components of this project? Does the applicant have a long-term operation, maintenance, and replacement plan? When was the last update of the plan?

No, the applicant does not plan future funding requests to complete this project. The applicant has looked into work to enlarge the reservoir and there is a larger effort in San Miguel County to do extensive planning on Wright's Mesa where the reservoir resides. As part of this project, the Reservoir Company will be working with the Colorado Ag Water Alliance on a long-term maintenance plan.

15. Does this project have an education component? If yes, please explain how it is consistent with the Roundtable's [Education Action Plan](#).

No. There is no education component.

