



Last Update: July 28, 2017

Colorado Water Conservation Board

Water Supply Reserve Fund Grant Application

Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

Arkansas

Ben Wade
ben.wade@state.co.us
303-866-3441 x3238

Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout
craig.godbout@state.co.us
303-866-3441 x3210

Colorado | Metro | Rio Grande | Southwest

Megan Holcomb
megan.holcomb@state.co.us
303-866-3441 x3222

WSRF Submittal Checklist (Required)

	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Exhibit A	
	Statement of Work ⁽²⁾ (Word – see Exhibit A Template)
	Budget & Schedule ⁽²⁾ (Excel Spreadsheet – see Exhibit A Template)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
Exhibit C	
	Map ⁽²⁾
	Photos/Drawings/Reports
	Letters of Support
	Certificate of Insurance ⁽³⁾ (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing ⁽³⁾
	W-9 ⁽³⁾
	Independent Contractor Form ⁽³⁾ (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form ⁽³⁾

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

(2) Required with application if applicable.

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

Last Update: July 28, 2017

Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	September 2017
Desired Notice to Proceed Date:	October 1, 2017

Water Activity Summary		
Name of Applicant	Fort Lyon Canal Company	
Name of Water Activity	Adobe Creek Dam Rehabilitation	
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾	
Arkansas Basin	\$100,000	
Basin Account Request Subtotal	\$100,000	
Statewide Account Request ⁽¹⁾	\$1,000,000	
Total WSRF Funds Requested (Basin & Statewide)	\$1,100,000	
Total WSRF Grant Costs (Additional project funds through CWCB Construction Program Loans)	\$1,100,000	

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



Last Update: July 28, 2017

Grantee and Applicant Information	
Name of Grantee(s)	Fort Lyon Canal Company
Mailing Address	750 Bent Avenue, Las Animas, Colorado
FEIN	84-0579583
Grantee's Organization Contact ⁽¹⁾	Amy Van Horn
Position/Title	Water Master
Email	flccinfo@flcc.net
Phone	719-456-0720
Grant Management Contact ⁽²⁾	Connie Harris
Position/Title	Bookkeeper
Email	Connie@flcc.net
Phone	719-456-0720
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).
<p>The Fort Lyon Canal Company is a Colorado Mutual Ditch Company and a non-profit Corporation organized under the laws of the State of Colorado. The Fort Lyon Canal Company was incorporated in 1897, and is governed by five Directors that meet monthly. The offices of the company are located in Las Animas, Colorado. The Fort Lyon Canal is 113 miles long, and lies in three counties: Otero, Bent, and Prowers. Approximately 93,000 acres are irrigated each year. A separate Storage Canal provides water to two off-channel storage reservoirs: Horse Creek and Adobe Creek (Blue Lake).</p>



Last Update: July 28, 2017

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
X	Private Incorporated: mutual ditch companies, homeowners associations, corporations
	Private Individuals, Partnerships, and Sole Proprietors: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	Non-governmental organizations: broadly, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
	Study
X	Implementation

Category of Water Activity (check all that apply)		
X	Nonconsumptive (Environmental)	
X	Nonconsumptive (Recreational)	
X	Agricultural	
	Municipal/Industrial	
	Needs Assessment	
	Education & Outreach	
X	Other	Explain: Arkansas Basin Compact Maintenance, Colorado Water Plan

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	Bent, Kiowa
Latitude	38.234583
Longitude	103.278692

Last Update: July 28, 2017

Water Activity Overview

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. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

This activity is the rehabilitation of Adobe Creek Dam, which is a vital component of the Fort Lyon Canal Company's (FLCC) water supply system. A storage restriction order was issued by the Colorado Division of Water Resources on May 5, 2017 due to adverse seepage conditions in the dam's foundation and deteriorated conditions in the dam's 112-year-old, vitrified clay outlet works. The project includes the design and construction of a new outlet works and seepage control systems in Adobe Creek Dam to regain the approximately 32,860 acre-feet of storage that was lost due to the storage restriction.

Adobe Creek Dam is a 32-foot-high, high hazard embankment dam that impounds approximately 77,400 acre-feet of water that is used to irrigate approximately 93,000 acres of land in Bent, Otero, and Prowers County. In addition, an island in the reservoir provides wildlife and waterfowl, including habitat for the federally endangered Least Tern and federally threatened Piping Plover. In addition, the reservoir provides significant recreation opportunities for the Adobe Creek State Wildlife Area, administered by Colorado Parks and Wildlife. The reservoir is also important to maintaining compact compliance in the Arkansas Basin. If the FLCC chooses to raise the dam as part of the project, there is the potential to provide at least 10,000 acre-feet of additional storage in the Arkansas Basin to help implement the Colorado Water Plan.

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	
77,339	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
5,147	Area of Restored or Preserved Habitat (acres)	
X	Other	Explain: Wildlife and waterfowl habitat protection in an island in the reservoir. Maintain recreation use at the reservoir. Help ensure Arkansas Basin compact compliance.

Last Update: July 28, 2017

Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), 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).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

Dam safety evaluations of Adobe Creek Dam completed in January of 2017 concluded that there are higher than acceptable seepage exit gradients in a continuous sand layer identified in the foundation of the dam. In addition, it was determined that the 112-year-old, vitrified clay outlet works in the dam is severely deteriorated and has exceeded its design life.

In a letter dated May 5, 2017, the Colorado State Engineer ordered the reservoir restricted to 7 feet below the spillway crest "due to the adverse seepage conditions through the dam's foundation and along the outlet conduits and the deteriorated condition of the dam's outlet works." This equates to a loss of almost 33,000 acre-feet of storage volume.

Maintaining water storage in Adobe Creek Reservoir (Blue Lake) is important to the State of Colorado because it is truly multi-purpose storage. The reservoir provides over 77,000 acre-feet of critical drought protection for agriculture in southeast Colorado, which is important to up to 1,000 people in Bent, Otero, and Prowers Counties. Water storage in the reservoir also has an important non-consumptive use that enhances 5,174 acres of wildlife and waterfowl habitat in the Adobe Creek Reservoir State Wildlife Area, which is one of the highest used recreation areas in southeast Colorado. When there is water in the reservoir it provides excellent opportunities for hunting, fishing, camping, hiking, and boating within this State Wildlife Area. There is an island in the middle of the reservoir that provides excellent habitat for the Least Tern, which is a federally listed endangered species and the Piping Plover, a federally threatened species. This wildlife and waterfowl habitat could be lost if storage is lost in the reservoir. Water storage in the reservoir is also important to help the State of Colorado maintain its Arkansas Basin Compact requirements.

- From the Arkansas Basin Implementation Plan's (ArkBIP) Master Needs List: Replace aging infrastructure.
- From the ArkBIP Master Needs List: Dams in the state have been neglected for many years and maintenance has been deferred. These dams are in need of repair.
- ArkBIP Policy Statement: "The preservation of irrigated agriculture in the Arkansas Basin shall be given a high priority in the state water plan. It is too important to tourism, the preservation of food production, recreation, the environment and the health and well-being of our citizens as well as the economy of the State of Colorado."
- The reservoir storage restrictions already in place or the potential for dam failure could be a catastrophic loss to farmers and the agricultural economy of the State of Colorado making this project critical and time-sensitive. The loss of water storage would also dramatically affect wildlife and waterfowl habitat and recreation use in the Adobe Creek State Wildlife Area.



Last Update: July 28, 2017

Water Activity Justification

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

Matching Requirements: Basin Account Requests

Basin (only) 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 2016 WSRF



Last Update: July 28, 2017

Matching Requirements: Basin Account Requests	
Criteria and 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)
Fort Lyon Canal Company	\$25,000
Total Match	\$25,000
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
Statewide Account grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3 rd party) and shall be accompanied by a letter of commitment . Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Arkansas Basin	\$100,000
WSRA Statewide Grant	\$1,000,000
Fort Lyon Canal Company (via CWCB Construction Program Loan)	\$8,100,000
Total Match	\$9,200,000
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



Last Update: July 28, 2017

Related Studies

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

1. Adobe Creek Dam March 2016 Uncontrolled Seepage Repair, April 7, 2017 Letter Report from W.W. Wheeler and Associates, Inc.
2. Adobe Creek Dam Outlet Conduit and Seepage Evaluation, January, 27, 2017 Letter Report from W.W. Wheeler and Associates, Inc.

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

- A. Horse Creek Flume Replacement
 - 1) Fort Lyon Canal Company
 - 2) Replacement of the Horse Creek Flume
 - 3) Arkansas Basin Roundtable
 - 4) September 2015 CWCB Meeting
 - 5) CWCB Contract Number: CTGG1 2016-1548
- B. Adobe Creek Dam Seepage Evaluation
 - 6) Fort Lyon Canal Company
 - 7) Adobe Creek Dam Outlet Conduit and Seepage Evaluation
 - 8) Arkansas Basin Roundtable
 - 9) September 2016 CWCB Meeting
 - 10) CWCB Contract Number: POGG1 PDAA 201700000489

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.

Not applicable