



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

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TO: Colorado Water Conservation Board Members

FROM: Craig Godbout
Program Manager - Water Supply Reserve Fund Grant Program
Water Supply Planning Section

DATE: August 31, 2020

AGENDA ITEM: 19(a-o)

Staff Recommendation - Action Items: WSRF Grant Request:

A summary of staff's recommendation for each WSRF application is provided in the first component of the attached table. If applicable, the table also includes a breakdown of match amounts for applications that include a request for Statewide Account WSRF funds.

Favorable recommendations may be contingent on providing the CWCB with additional information, clarifications, or modifications in the scope of work. Please refer to the Water Activity Summary Sheets contained within this agenda item to find a summary of staff's review and any conditions associated with each recommendation.

Background:

For this agenda item the Board is provided with a brief overview of applications to the Water Supply Reserve Fund (WSRF). Attachments to this memo include:

- Summary spreadsheet detailing funding requests for the basin and statewide accounts;
- Summary spreadsheet displaying current WSRF Balance Summary of Fund Appropriations and Receipts by Fiscal Year, and Fund Distribution by Basin and Statewide Account.
- Water Activity Summary Sheets which provide an overview, discussion, issues/additional needs, and staff recommendation regarding funding, partial funding, or not funding the applications.

Staff's review of the applications involves the following steps:

- 1) Applications are reviewed for completeness based on the information requirements, which are primarily outlined in the Criteria and Guidelines (C&G).
- 2) Applications are reviewed to verify that the water activity meets the eligibility requirements in Section 39-29-108 (III) C.R.S. (C&G, Part 2) and the threshold criteria, which are based on the requirements of Section 39-29-108 (III) C.R.S.,



and two sections of the Water for the 21st Century Act (House Bill 1177); Section 37-75-102 and Section 37-75-104(2)(c) (C&G, Part 3). Staff also verifies that the applicant was an eligible entity to receive funding (C&G, Part 2).

- 3) Staff then prepares the Water Activity Summary Sheet which documents the outcome of the review process and contains staff's recommendations.

Water Supply Reserve Fund Balance Summary and Project Status Report:

To provide the Board updates on the status of specific Water Supply Reserve Fund grant applications and projects, staff can provide a status report of the following information upon request:

- List of completed WSRF projects;
- List of WSRF projects in progress; and
- List of WSRF projects in the contracting and procurement process.



COLORADO WATER CONSERVATION BOARD
Water Supply Reserve Fund - Balance Summary
SEPTEMBER 2020

9/1/2020

Fund Appropriation and Receipts				
Fiscal Year	Legislative Appropriation	Funds Received	Statewide Account	Basin Account
2006/2007	\$10,000,000	\$10,000,000	\$5,500,000	\$4,500,000
2007/2008	\$6,000,000	\$6,000,000	\$4,200,000	\$1,800,000
2008/2009	\$10,000,000	\$7,000,000	\$4,300,000	\$2,700,000
2009/2010	\$5,775,000	\$5,775,000	\$4,215,750	\$1,559,250
2010/2011	\$6,000,000	\$6,000,000	\$4,380,000	\$1,620,000
2011/2012	\$7,000,000	\$7,000,000	\$4,732,000	\$2,268,000
2012/2013	\$10,000,000	\$7,157,724	\$4,580,943	\$2,576,781
2013/2014	\$10,000,000	\$10,091,639	\$6,458,649	\$3,632,990
2014/2015	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2015/2016	\$10,000,000	\$9,103,590	\$5,826,298	\$3,277,292
2016/2017	\$0	\$0	\$0	\$0
2017/2018	\$10,000,000	\$1,455,776	\$931,697	\$524,079
2017/2018 CF	\$0	\$7,000,000	\$4,480,000	\$2,520,000
2018/2019 CF	\$0	\$3,544,884	\$2,268,726	\$1,276,158
2019/2020	\$10,000,000	\$10,000,000	\$6,400,000	\$3,600,000
2020/2021	\$0	\$0	\$0	\$0
Interest	N/A	\$2,857,935	\$3,541,544	
<small>(Prior Years Interest Adjustment 2007-2014 and FY2015, FY2016, FY2017)</small>				
FY 2018 Interest	N/A	\$ 376,467	\$376,467	\$0
FY 2019 Interest	N/A	\$ 431,589	\$431,589	\$0
FY 2020 Interest	N/A	\$ 558,731	\$558,731	\$0
FY 2021 Interest	N/A	\$ -	\$0	\$0
TOTAL	\$104,775,000	\$104,353,335	\$69,582,394	\$35,454,551

Note: The WSRF is a Severance Tax "Tier II" program & CF Funding with 40% of funds distributed on July 1, 30% on January 1, and the final 30% on April 1.
In FY 2008/2009 the final 30% installment of \$3,000,000 was not received due to the State's budgetary shortfall.

*In January 2012 interest for the program from its inception to date was credited directly to the Statewide Account.
Interest from January 2012 on is regularly calculated by the Treasury and credited to the Statewide Account.*

Fund Distribution					
Basin	Approved Basin Grants	Total Basin Funds	Basin Account Balance	Approved State Grants	Statewide Account Balance
Arkansas	\$3,527,249	\$3,939,395	\$412,146	\$12,235,803	
Colorado*	\$3,694,779	\$3,939,395	\$244,616	\$6,508,889	
Southwest *	\$3,472,144	\$3,939,395	\$467,251	\$8,161,644	
Gunnison *	\$3,621,957	\$3,939,395	\$317,438	\$6,777,707	
Metro *	\$3,059,801	\$3,939,395	\$879,594	\$7,461,732	
North Platte	\$2,969,669	\$3,939,395	\$969,725	\$842,844	
Rio Grande*	\$3,763,048	\$3,939,395	\$176,347	\$12,879,635	
South Platte *	\$3,327,530	\$3,939,395	\$611,865	\$7,829,612	
Yampa/White	\$3,296,104	\$3,939,395	\$643,291	\$997,969	
TOTAL	\$30,732,281	\$35,454,551	\$4,722,273	\$63,695,834	\$5,886,560
TOTAL APPROVED GRANTS					\$94,428,115

Note: Only includes grants approved by CWCB

* Comments reflect adjustments to balances

Water Supply Reserve Fund Applications for Consideration at the September 2020 CWCB Board Meeting

Agenda Item	Basin	Applicant/Grantee	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	Total Request	Non-WSRF Cash Match	Non-WSRF In-Kind Match	Non-WSRF Total Match	Statewide Match (Basin & Non-WSRF)	Total Project Costs	Staff Recommendations	PM
19 (a)	South Platte	Neirbo Hydrogeology	South Platte River Salinity Study - Phase 2	\$45,000	\$90,000	\$180,000	\$42,500	\$17,500	\$60,000	\$150,000	\$240,000	Staff recommends approval of up to \$45,000 from Metro Acct; \$45,000 from the South Platte Basin Acct; & \$90,000 from the Statewide Acct	Alex Funk
	Metro			\$45,000									
19 (b)	Arkansas	Lower Arkansas Valley Water Conservancy District	Headgate 199 Lining	\$18,000	\$180,000	\$198,000	\$252,000	\$0	\$252,000	\$270,000	\$450,000	Staff recommends approval of up to \$18,000 from the Arkansas Basin Acct; & \$180,000 from the Statewide Account	Rachel Pittinger
19 (c)	Arkansas	Pueblo County	Italian and Suburban Lateral Water Improvement Project	\$46,400	\$162,900	\$209,300	\$512,700	\$206,700	\$719,400	\$765,800	\$928,700	Staff recommends approval of up to \$46,900 from the Arkansas Basin Account; and \$162,900 from the Statewide Acct	Craig Godbout
19 (d)	Arkansas	Round Mountain Water and Sanitation District	Reservoir Feasibility Study & Design	\$15,500	\$155,000	\$170,500	\$49,500	\$12,500	\$62,000	\$77,500	\$232,500	Staff recommends approval of up to \$15,500 from the Arkansas Basin Acct; & \$155,000 from the Statewide Acct	Matt Stearns
19 (e)	Gunnison	Cimarron Canal and Reservoir Company	Fish Creek Reservoir #2 Repair and Conservation Project	\$50,000	\$88,900	\$138,900	\$177,045	\$84,800	\$261,845	\$311,845	\$400,745	Staff recommends approval of up to \$50,000 from Gunnison Basin Acct; & \$88,900 from Statewide	Cole Bedford
19 (f)	Metro	Lookout Mountain Water District	Lookout Mountain Water District SCADA Implementation Project	\$50,000	\$100,000	\$150,000	\$200,000	\$0	\$200,000	\$250,000	\$350,000	Staff recommends approval of up to \$50,000 from the Metro Acct; and \$100,000 from the Statewide	Matt Stearns
19 (g)	Metro	Colorado Nonprofit Development Center	10.10.10 Water & Climate Program	\$45,000	\$0	\$45,000	\$63,200	\$54,500	\$117,700	\$162,700	\$162,700	Staff recommends approval of up to \$45,000 from the Metro Account	Ben Wade
19 (h)	Metro	WaterReuse Colorado	Direct Potable Reuse WQCD Stakeholder Process Facilitation	\$50,000	\$49,800	\$99,800	\$50,000	\$0	\$50,000	\$100,000	\$149,800	Staff recommends approval of up to \$50,000 from the Metro Acct; & \$49,800 from the Statewide Acct	Kevin Reidy
19 (i)	North Platte	Owl Mountain Partnership	Jackson County Water Structure Improvement Project #3	\$66,219	\$0	\$66,219	\$36,612	\$0	\$36,612	n/a	\$102,831	Staff recommends approval of up to \$66,219 from the North Platte Basin Account	Craig Godbout
19 (j)	Rio Grande	Colorado Rio Grande Restoration Foundation	Conejos River Partnership Project - Phase 1	\$25,000	\$225,000	\$250,000	\$372,000	\$5,000	\$377,000	\$402,000	\$627,000	Staff recommends approval of up to \$25,000 from the Rio Grande Basin Account; and \$225,000 from the Statewide Account	Chris Sturm
19 (k)	South Platte	Colorado State University	Sustaining Plains Aquatic Ecosystems using an Integrated Ecological and Social Approach	\$40,000	\$94,015	\$134,015	\$67,012	\$0	\$67,012	\$107,012	\$201,027	Staff recommends approval of up to \$40,000 from the South Platte Basin Account; and \$94,015 from the Statewide Account	Craig Godbout
19 (l)	Southwest	Fort Lewis College	Dolores River Adaptive Management Project	\$25,000	\$140,617	\$165,617	\$62,351	\$8,924	\$71,275	\$96,275	\$236,892	Staff recommends approval of up to \$25,000 from the Southwest Basin Account; and \$140,617 from the Statewide Account	Chris Sturm
19 (m)	Southwest	Morrison Consolidated Ditch Company	Railroad Siphon Replacement Project	\$25,000	\$33,875	\$58,875	\$19,625	\$0	\$19,625	\$44,625	\$78,500	Staff recommends approval of up to \$25,000 from the Southwest Basin Account; and \$33,875 from the Statewide Account	Craig Godbout
19 (n)	Southwest	Montezuma Orchard Restoration Project	Innovations in Irrigation to Support Heritage Apple Orchards in SW Colorado	\$25,000	\$39,900	\$64,900	\$60,000	\$12,000	\$72,000	\$97,000	\$136,900	Staff recommends approval of up to \$25,000 from the Southwest Basin Account; and \$39,900 from the Statewide Account	Alex Funk
19 (o)	Southwest	Red Mesa Reservoir and Ditch Company	Red Mesa Reservoir Project	\$25,000	\$250,000	\$275,000	\$307,400	\$0	\$307,400	\$332,400	\$582,400	Staff recommends approval of up to \$25,000 from the Southwest Basin Account; and \$250,000 from the Statewide Account	Matt Stearns
			Sub-Totals	\$596,119	\$1,610,007	\$2,206,126							
Loan/Grant Combo													
20 (a)	Southwest	Florida Consolidated Ditch Company	Florida Canal Diversion Structure Rehabilitation Project - Phase 2	\$25,000	\$250,000	\$275,000	\$925,000	\$0	\$925,000	\$950,000	\$1,200,000	Staff recommends approval of up to \$25,000 from the Southwest Basin Account; and \$250,000 from the Statewide Account	Matt Stearns
			Totals	\$621,119	\$1,860,007	\$2,481,126							

Consent Agenda: WSRF Grant Amendment

2	Gunnison	Leroux Creek Water Users Association	Leroux Creek Reservoir System, Dam Outlet Rehabilitation	\$50,000	\$150,000	\$200,000	\$20,000	\$35,146	\$55,146	\$105,146	\$255,146	Staff recommends approval to Amend current WSRF Grant contract to include Willow Creek Reservoir Improvements to this approved WSRF Grant	Craig Godbout
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Basin	Basin Account Requests	Statewide Account Requests	Total Requests	Current Basin Account Balances	Remaining Basin Account Balances (if all requests approved)	Current Statewide Account Balance	Remaining Statewide Account Balance (if all requests approved)
Arkansas Basin	\$79,900	\$497,900	\$577,800	\$412,146	\$332,246		
Colorado Basin	\$0	\$0	\$0	\$244,616	\$244,616		
Gunnison Basin	\$50,000	\$88,900	\$138,900	\$317,438	\$267,438		
Metro	\$190,000	\$194,800	\$384,800	\$879,594	\$689,594		
North Platte	\$66,219	\$0	\$66,219	\$969,725	\$903,506	\$5,886,560	\$4,026,553
Rio Grande	\$25,000	\$225,000	\$250,000	\$176,347	\$151,347		
Southwest	\$125,000	\$714,392	\$839,392	\$467,251	\$342,251		
South Platte	\$85,000	\$139,015	\$224,015	\$611,865	526865		
Yampa/White/Green	\$0	\$0	\$0	\$643,291	\$643,291		
Water Supply Reserve Fund Total Requests	\$621,119	\$1,860,007	\$2,481,126	\$4,722,273	\$ 4,101,154		

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(a)**

Applicant & Grantee: Neirbo Hydrogeology

Water Activity Name: South Platte Basin Salinity Study – Phase 2

Water Activity Purpose: Ag/M&I/Env - Study

County: Sedgwick, Phillips, Yuma, Logan, Washington, Morgan, Weld, Larimer, Adams and Arapahoe

Drainage Basin: South Platte

Water Source: South Platte River

Amount Requested: \$45,000 South Platte Basin Account
\$45,000 Metro Account
\$90,000 Statewide Account
\$180,000 Total Request

Matching Funds: Basin Account Match = \$90,000

- 100% of statewide request (meets 10% min)

Applicant & 3rd Party Match (cash & in-kind) = \$60,000

- 67% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$150,000

- 167% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$45,000 from the South Platte Basin Account, \$45,000 from the Metro Account, and up to \$90,000 from the Statewide Account to help fund the project: South Platte Basin Salinity Study – Phase 2.

Water Activity Summary: WSRF Funds, if approved will assist Neirbo Hydrogeology convene a stakeholder group, engage a technical team, and begin investigation into natural, geologic salinity sources along the South Platte River. The stakeholder group will be tasked with prioritizing salinity related issues that the study will address. The stakeholders will assist with grant applications, obtaining project funding, and multi-organizational coordination. A technical team will be convened to design, coordinate, and oversee technical studies. This team may consist of subject matter experts from water management organizations, academia, state agencies, and the private sector. Studies will inform stakeholders about salinity sources, processes, and management alternatives. The study will investigate the importance of salinity contributions from geologic formations and groundwater return flows. Natural salinity inputs may control the background salinity levels in the basin. Anthropogenic salinity sources are added to this background levels.

Discussion: This effort will assist the South Platte Basin and Metro Roundtables achieve several goals as called for in the South Platte Basin Implementation Plan, such as: Maintain or improve the delivery of safe water supplies throughout the basin; Monitor, protect and improve watershed water

quality and identify and document progress and improvements; Improve areas where water quality may be limiting the suitability of focus areas identified by BRTs through environmental and recreational mapping efforts; while also assisting Colorado achieve a Critical Action highlighted in Chapter 10 of Colorado’s Water plan, such as: Maintain Colorado’s agricultural productivity, support of rural economies, and food security (through meaningful incentives and grassroots efforts).

Issues/Additional Needs: The applicant shall provide all outstanding letters of matching commitment prior to entering into a grant contract with the state, otherwise these are no issues or additional needs.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Colorado Corn Administration	\$5,000	\$0	\$5,000	Pending
Colorado Geologic Service	\$17,500	\$17,500	\$35,000	Secured
Northern Water	\$15,000	\$0	\$15,000	Secured
Central Colorado Water Conservancy District	\$2,500	\$0	\$2,500	Secured
South Metro Water Supply Authority	\$2,500	\$0	\$2,500	Secured
Sub-total	\$42,500	\$17,500	\$60,000	
WSRF South Platte Basin Account	\$45,000	\$0	\$45,000	Secured
Metro Account	\$45,000	\$0	\$45,000	Secured
Sub-total	\$132,500	\$17,500	\$150,000	
WSRF Statewide Account	\$90,000	\$0	\$90,000	
Total Project Costs	\$225,500	\$17,500	\$240,000	

CWCB Project Manager: Alex Funk

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(b)**

Applicant & Grantee: Lower Arkansas Valley Water Conservancy District
Water Activity Name: Headgate 199 Lining
Water Activity Purpose: Agricultural-Implementation
County: Otero
Drainage Basin: Arkansas
Water Source: Arkansas River
Amount Requested: \$18,000 Arkansas Basin Account
\$180,000 Statewide Account
\$198,000 Total Request

Matching Funds: Basin Account Match = \$18,000

- 10% of statewide request (meets 10% min)

Applicant Match (cash) = \$252,000

- 140% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$270,000

- 150% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$18,000 from the Arkansas Basin Account, and up to \$180,000 from the Statewide Account to help fund the project: Headgate 199 Lining.
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Water Activity Summary: WSRF Funds, if approved will assist the Lower Arkansas Valley Water Conservancy District (Lower Ark) control selenium and nutrient loading to the Arkansas River by lining approximately 2,500 feet of the existing Catlin Canal adjunct to Headgate 199. Preceding the lining activities Lower Ark will engage local producers, residents, and stakeholders to identify resource concerns and perform any technical analysis and surveys to implement the project. Following the lining activity Lower Ark will work with producers to enroll in a Rule 10 irrigation improvement plan.

Discussion: This effort will assist the Arkansas Basin Roundtable address their concerns regarding water delivery as called for in the Arkansas Basin Implementation Plan. In addition, this effort will assist Colorado achieve the goal of maintaining agricultural viability and promote protection and restoration of water quality as called for in Chapter 10 of Colorado's Water Plan

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Lower Ark Valley Water Conservancy District	\$252,000	\$0	\$252,000	Secured
Sub-total	\$252,000	\$0	\$252,000	
WSRF Arkansas Basin Account	\$18,000	\$0	\$18,000	Secured
Sub-total	\$270,000	\$0	\$270,000	
WSRF Statewide Account	\$180,000	\$0	\$180,000	
Total Project Costs	\$450,000	\$0	\$450,000	

CWCB Project Manager: Rachel Pittinger

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(c)**

Applicant & Grantee: Pueblo County
Water Activity Name: Italian & Suburban Lateral Water Improvement Project
Water Activity Purpose: Agricultural-Implementation
County: Pueblo
Drainage Basin: Arkansas
Water Source: Arkansas River
Amount Requested: \$46,400 Arkansas Basin Account
\$162,900 Statewide Account
\$209,300 Total Request

Matching Funds: Basin Account Match = \$46,400

- 28% of statewide request (meets 10% min)

Applicant & 3rd Party Match (cash & in-kind) = \$719,400

- 4.4 times the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$765,800

- 4.7 times the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$46,400 from the Arkansas Basin Account and up to \$162,900 from the Statewide Account to help fund the project: Italian & Suburban Lateral Water Improvement Project.

Water Activity Summary: WSRF Funds, if approved will assist Pueblo County replace 12,833 feet of open ditch to buried pipeline. This improvement will improve irrigation water delivery to 2,500 acres of chilies, alfalfa, corn, pumpkin, tomatoes, cucumbers, peppers, onions, melons, squash, hay, and bean production by substantially reducing conveyance losses to 204 shareholders, and help to reduce injurious water intrusion into existing residential septic system leach fields and basements.

Discussion: This effort will assist the Arkansas Basin Roundtable satisfy their Basin Implementation Plan goal of sustaining agriculture (Section 1.6.2.2: Consumptive Goal – Agriculture)

Issues/Additional Needs: The applicant shall submit all outstanding letters of matching commitment prior to entering into a grant contract with the state, otherwise no issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Pueblo County	\$0	\$186,700	\$186,700	Secured
USDA NRCS	\$462,700	\$0	\$462,700	Pending
Bessemer Ditch Company	\$0	\$20,000	\$20,000	Pending
Suburban Lateral Ditch Company	\$50,000	\$0	\$50,000	Secured
Sub-total	\$512,700	\$206,700	\$719,400	
WSRF Metro Account	\$46,400	\$0	\$46,400	Secured
Sub-total	\$559,100	\$206,700	\$765,800	
WSRF Statewide Account	\$162,900	n/a	\$162,900	
Total Project Costs	\$722,000	\$206,700	\$928,700	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(d)**

Applicant & Grantee: Round Mountain Water & Sanitation District
Water Activity Name: Reservoir Feasibility Study & Design
Water Activity Purpose: Agricultural/M&I-Study
County: Custer
Drainage Basin: Arkansas
Water Source: Grape Creek
Amount Requested: \$15,500 Arkansas Basin Account
\$155,000 Statewide Account
\$170,500 Total Request

Matching Funds: Basin Account Match = \$15,500

- 10% of statewide request (meets 10% min)
- Applicant % 3rd Party Match (cash & in-kind) = \$62,000
- 40% of the statewide request (meets 10% min)
- Total Match (Basin request & Applicant Match) = \$77,500
- 50% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$15,500 from the Arkansas Basin Account, and up to \$155,000 from the Statewide Account to help fund the project: Reservoir Feasibility Study & Design.

Water Activity Summary: WSRF Funds, if approved will assist the Round Mountain Water & Sanitation District evaluate a proposed reservoir site located one mile south of Westcliffe, Colorado with the potential of storing 150 acre feet of water for agricultural and municipal purposes. The feasibility study will be used to review the water rights, assess the available storage capacity, water supply yield, design alternatives, hazard classification, permitting, schedule and recommendations for developing the Round Mountain Reservoir. Additional tasks include employing the results of the feasibility study to move into a seamless transition to the design phase of the dam, reservoir, and pump station resulting in 60 and 90 percent construction plans with a bid ready design at the end of the project.

Discussion: This effort will assist the Arkansas Basin Roundtable address their concerns regarding: Development of new storage in the Arkansas Basin; Increased storage for M&I; Increase augmentation supply which protects water rights; Collaboration and Cooperation (Multi-use project); Improve measurements and quantification of stream flows, and; develop augmentation supplies to help meet CO compact requirements as called for in the Arkansas Basin Implementation Plan, while also assisting Colorado satisfy the need to increase new storage capacity as called for in Colorado's Water Plan.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Round Mountain Water & Sanitation District	\$41,330	\$0	\$41,330	Secured
Upper Arkansas Water Conservancy District	\$8,170	\$12,500	\$20,670	Secured
Sub-total	\$49,500	\$12,500	\$62,000	
WSRF Arkansas Basin Account	\$15,500	\$0	\$15,500	Secured
Sub-total	\$65,000	\$12,500	\$77,500	
WSRF Statewide Account	\$155,000	\$0	\$155,000	
Total Project Costs	\$220,000	\$12,500	\$232,500	

CWCB Project Manager: Matt Streans

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(e)**

Applicant & Grantee: Cimarron Canal and Reservoir Company
Water Activity Name: Fish Creek Reservoir #2 Repair & Conservation Project
Water Activity Purpose: Agricultural/M&I/E&R-Implementation
County: Gunnison
Drainage Basin: Arkansas
Water Source: Fish Creek
Amount Requested: \$50,000 Gunnison Basin Account
\$88,900 Statewide Account
\$138,900 Total Request

Matching Funds: Basin Account Match = \$50,000

- 56% of statewide request (meets 10% min)
- Applicant & 3rd Party Match (cash & in-kind) = \$261,845
- 2.9 times the statewide request (meets 10% min)
- Total Match (Basin request & Applicant Match) = \$311,845
- 3.5 times the statewide request (meets 50% min)

<p>Staff Recommendation:</p> <p>Staff recommends approval of up to \$50,000 from the Gunnison Basin Account, and up to \$88,900 from the Statewide Account to help fund the project: Fish Creek Reservoir #2 Repair & Conservation Project.</p>
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Water Activity Summary: WSRF Funds, if approved will assist the Cimarron Canal and Reservoir Company rehabilitate the Fish Creek #2 Reservoir by slip lining an HDPE pipe through the existing outlet pipe, replacing the intake structure, improving the slope on the downstream dam face, and installing a two-stage filter diaphragm at the downstream end of the improved outlet works. In 2017 the reservoir was placed under a zero-storage restriction by the State Engineer’s Office. Construction design and documents have been approved by the State Engineer’s Office and the successful completion of these improvements will lift the zero-storage restriction.

Discussion: This effort will assist the Gunnison Basin Roundtable achieve several goals as called for in their Basin Implementation Plan, such as: Improve agricultural water supplies to reduce shortages; Quantify and protect environmental and recreational water uses; Describe and encourage the beneficial relationship between agricultural and environmental recreational water uses; Restore, maintain, and modernize critical water infrastructure, including hydropower. This effort also assists Colorado achieve the goal to promote additional storage and infrastructure as called for in Colorado’s Water Plan.

Issues/Additional Needs: The applicant must secure approve of their Water Plan Grant request prior to entering into a grant agreement with the state, or otherwise demonstrate the ability to provide a substitute funding source if unsuccessful, otherwise on issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Cimarron Canal & Reservoir Company	\$4,911	\$78,600	\$83,511	Secured
Trout Unlimited	\$0	\$6,200	\$6,200	Secured
Colorado Water Plan Grant (2021)	\$152,143	\$0	\$152,134	Pending
<u>Bostwick Park Water Conservancy District</u>	<u>\$20,000</u>	<u>\$0</u>	<u>\$20,000</u>	<u>Secured</u>
Sub-total	\$177,045	\$84,800	\$261,845	
WSRF Gunnison Basin Account	\$50,000	\$0	\$50,000	Secured
Sub-total	\$227,045	\$84,800	\$311,845	
WSRF Statewide Account	\$88,900	\$0	\$88,900	
Total Project Costs	\$315,945	\$84,800	\$400,745	

CWCB Project Manager: Cole Bedford

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(f)**

Applicant & Grantee: Lookout Mountain Water District

Water Activity Name: Lookout Mountain Water District SCADA Implementation Project

Water Activity Purpose: Env & Rec/M&I-Implementation

County: Clear Creek

Drainage Basin: South Platte

Water Source: Beaver Brook

Amount Requested: \$50,000 Metro Account
\$100,000 Statewide Account
\$150,000 Total Request

Matching Funds: Basin Account Match = \$50,000

- 50% of statewide request (meets 10% min)

Applicant Match (cash) = \$200,000

- 200% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$250,000

- 250% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$50,000 from the Metro Account, and up to \$100,000 from the Statewide Account to help fund the project: Upper Beaver Brook Reservoir SCADA System Project.

Water Activity Summary: WSRF Funds, if approved will assist Lookout Mountain Water District design and install a SCADA system to automate Upper Beaver Brook Reservoir's release gate operation based upon realtime measured flow data and additional user inputs (e.g. current water right priority call date, forecasted water treatment plant demands, etc.). Additional improvements include outlet works engineering, replacement of one outlet pipe, and lining an existing outlet pipe, It is also critical that the District improves the 96-year old outlet infrastructure in order to fully utilize this new SCADA system.

Discussion: This effort will assist the Metro Roundtable achieve several goals as called for in their Basin Implementation Plan, such as: Municipal Water Conservation, Reuse and Efficiency and South Platte Storage (SPBIP Section 1.9.2 and 1.9.4), and Recreational and Water Quantity Enhancements (SPBIP Sections 1.9.3, 1.9.5, and 1.9.7), while also assisting Colorado achieve the goal of Meeting Municipal and Industrial Water Needs Throughout Colorado (CWP, Section 6.5) as called for in Colorado's Water Plan.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Lookout Mountain Water District	\$200,000	\$0	\$200,000	Secured
Sub-total	\$200,000	\$0	\$200,000	
WSRF Metro Account	\$50,000	\$0	\$50,000	Secured
Sub-total	\$250,000	\$0	\$250,000	
WSRF Statewide Account	\$100,000	\$0	\$100,000	
Total Project Costs	\$350,000	\$0	\$350,000	

CWCB Project Manager: Matt Stearns

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(g)**

Applicant & Grantee: Colorado Nonprofit Development Center
Water Activity Name: 10.10.10 Water and Climate Program
Water Activity Purpose: Education & Outreach-Implementation
County: Front Range counties
Drainage Basin: South Platte and Arkansas
Water Source: Front Range tributaries
Amount Requested: \$45,000 Metro Account
Matching Funds: Basin Account Match (cash & in-kind) = \$117,700
 • 261% of Basin Account request (meets 25% min)

Staff Recommendation:
 Staff recommends approval of up to \$45,000 from the Metro Account to help fund the project: Water and Climate Program.

Water Activity Summary: WSRF Funds, if approved will assist 10.10.10 conduct original research combining systems maps, stakeholder engagement, and research briefs to enhance approaches to water challenges in Denver and the front range. Research materials will in turn be used to facilitate a 10.10.10 program devoted to Water and Climate.

Discussion: This effort will assist the Metro Roundtable achieve their goals as called for in Section 4.1.3 in the South Platte Basin Implementation Plan.

Issues/Additional Needs: None

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: n/a.

Funding Sources/Match	Cash	In-kind	Total	Status
X Genesis	\$0	\$54,500	\$54,500	Secured
Colorado Water Plan Grant	\$63,200	\$0	\$63,200	Secured
Sub-total	\$63,200	\$54,500	\$117,700	
WSRF Metro Account	\$45,000	\$0	\$45,000	Secured
Total Project Costs	\$108,200	\$54,500	\$162,700	

CWCB Project Manager: Ben Wade

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(h)**

Applicant & Grantee: WateReuse Colorado
Water Activity Name: Direct Potable Reuse WQCD Stakeholder Process Facilitation
Water Activity Purpose: M&I/Study-Implementation
County: Statewide
Drainage Basin: Statewide
Water Source: Statewide
Amount Requested: \$50,000 Metro Account
\$49,800 Statewide Account
\$99,800 Total Request

Matching Funds: Basin Account Match = \$50,000

- 100% of statewide request (meets 10% min)

Applicant & 3rd Party Match (cash) = \$50,000

- 100% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$100,000

- 200% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$50,000 from the Metro Account and up to \$49,800 from the Statewide Account to help fund the project: Direct Potable Reuse WQCD Stakeholder Process Facilitation.

Water Activity Summary: WSRF Funds, if approved will assist WateReuse Colorado and the Water Quality Control Division (WQCD) develop Colorado Direct Potable Reuse (DPR) regulations to enable Colorado communities to fully utilize their reusable supplies by initiating a formal Stakeholder Process to seek input from drinking water providers, wastewater providers, USEPA Region 8, the public and others. This project supports a professional facilitator (Contractor) to work on a robust WQCD Stakeholder Process resulting in a Water Quality Control Commission DPR rulemaking proposal for changes to Colorado’s Primary Drinking Water Regulations (Regulation 11) including supporting policy and guidance. The stakeholder process is estimated to take 18 to 24 months and entail monthly meetings with the WQCD, Steering Committee, main stakeholder group, and several technical workgroups.

Discussion: This effort will assist the Metro Roundtable meet the Goals and Measurable Outcomes as described in their Basin Implementation Plan to “Maintain leadership in conservation and reuse and implement additional measures to reduce water consumption rates” (SPBIP p.S-12) and a recommendation to “Implement additional reuse where practicable” (SPBIP p.S-13). In addition, this effort assists Colorado achieve the Critical Action of “Evaluate regulations to foster reuse of water

supplies while protecting health and the environments as called for in the Colorado Water Plan ” (CWP p.10-14).

Issues/Additional Needs: None

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Water Reuse Colorado	\$20,000	\$0	\$20,000	Secured
Town of Castle Rock	\$5,000	\$0	\$5,000	Secured
Denver Water	\$5,000	\$0	\$5,000	Secured
South Metro Water Supply Authority	\$5,000	\$0	\$5,000	Secured
City of Thornton	\$5,000	\$0	\$5,000	Secured
City of Aurora	\$5,000	\$0	\$5,000	Secured
Jacobs Engineering Group	\$2,500	\$0	\$2,500	Secured
Carollo Engineers	\$2,000	\$0	\$2,000	Secured
MSK Consulting	\$500	\$0	\$500	Secured
Sub-total	\$50,000	\$0	\$50,000	
WSRF Metro Account	\$50,000	\$0	\$50,000	Secured
Sub-total	\$100,000	\$0	\$100,000	
WSRF Statewide Account	\$49,800	n/a	\$49,800	
Total Project Costs	\$149,800	\$0	\$149,800	

CWCB Project Manager: Kevin Reidy

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(i)**

Applicant & Grantee: Owl Mountain Partnership
Water Activity Name: Jackson County Water Structure Improvement Project #3
Water Activity Purpose: Ag & Env/Rec-Implementation
County: Jackson
Drainage Basin: North Platte
Water Source: Willow Creek
Amount Requested: \$66,219 North Platte Basin Account
Matching Funds: Basin Account Match = \$36,612
• 55% of Basin Account request (meets 25% min)

Staff Recommendation:

Staff recommends approval of up to \$66,612 from the North Platte Basin Account to help fund the project: Jackson County Water Structure Improvement Project #3.
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Water Activity Summary: WSRF Funds, if approved will assist The Owl Mountain Partnership to install and/or replace the following water control structures: a permanent headgate structure that will divert water out of Willow Creek and control flow in the Hanover Ditch, a permanent flume and measuring device to measure water in the Hanover Ditch, a permanent flume and measuring device to measure water in the Damfino Ditch, and a permanent flume and measuring device to measure water in the Sales Ditch. The Sales measuring device is located on Colorado State Land Board property. Owl Mountain Partnership has received consent from the Colorado State Land Board to install this project. These structures address both agricultural and environmental water needs in a cost effective and collaborative way, while providing irrigation water to multiple individuals that irrigate over 600 acres of hay and pasture land in Jackson County. The irrigation water also creates irrigation induced wetlands and riparian areas that provide habitat for many wildlife species as well as multiple recreational opportunities.

Discussion: This effort will assist the North Platte Basin Roundtable achieve their goal to continue to restore, maintain, and modernize critical water infrastructure to preserve current uses and increase efficiencies (NPBIP 2015, pg. 2; CWP 2019, pg. 109) as called for in the North Platte Basin Implementation Plan.

Issues/Additional Needs: None

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
NRCS	\$26,704	\$0	\$26,704	Secured
Brundage Land & Cattle Company	\$7,900	\$0	\$7,900	Secured
VanValkenberg Cattle Company	\$888	\$0	\$888	Secured
Edward Hamill	\$1,120	\$0	\$1,120	Secured
Sub-total	\$36,612	\$0	\$36,612	
WSRF North Platte Account	\$66,219	\$0	\$66,219	Secured
Total Project Costs	\$102,831	\$0	\$102,831	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(j)**

Applicant & Grantee: Colorado Rio Grande Restoration Foundation

Water Activity Name: Conejos River Partnership Project – Phase 1

Water Activity Purpose: Environmental & Agricultural-Implementation

County: Conejos

Drainage Basin: Rio Grande

Water Source: Conejos River

Amount Requested: \$25,000 Rio Grande Basin Account
\$225,000 Statewide Account
 \$250,000 Total Request

Matching Funds: Basin Account Match = \$25,000

- 11% of statewide request (meets 10% min)

Applicant & 3rd Party Match (cash & in-kind) = \$377,000

- 150% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$402,000

- 179% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Rio Grande Basin Account, and up to \$225,000 from the Statewide Account to help fund the project: Conejos River Partnership Project – Phase 1.

Water Activity Summary: WSRF Funds, if approved will assist the Colorado Rio Grande Restoration Foundation rehabilitate existing diversions and headgates servicing the Sabine School Section, Fuerticitos, and Elledges Ditches. Each ditch is facing issues of aging and inefficient diversion infrastructure and the river is impacted by channel instability. The proposed WSRF request will address these identified issues by funding the rehabilitation of each diversion structure and surrounding river channel, providing multiple benefits to the Conejos River and its water users. The project will include the following activities: Replacement of the diversions and headgates servicing the Sabine School Section, Fuerticitos, and Elledges ditches; Consolidation and replacement of the North Eastern Ditch and New JB Romero Ditch diversions and headgates; Enhancement of aquatic habitat adjacent to the five structures through fish barrier removal; Streambank stabilization and riparian restoration surrounding each diversion structure. The project will directly benefit shareholders of the five ditches by improving diversion efficiency and reducing maintenance by replacing aging diversion dams and headgates. The project will also enhance water quality by reducing sediment input, improve riparian condition, and improve aquatic habitat by ensuring diversions are passable by fish. When complete, the project will help ensure the Conejos River continues to support diverse human, agricultural, and ecological communities.

Discussion: This effort will assist the Rio Grande Basin Roundtable their goals as called for in Chapter 3 of the Rio Grande Basin Implementation Plan, while also assisting Colorado achieve its goals of maintaining agricultural viability as called for in Colorado’s Water Plan.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Restore Colorado Grant	\$350,000	\$0	\$350,000	Secured
Conejos Water Conservancy District	\$10,000	\$0	\$10,000	Secured
Landowners	\$12,000	\$0	\$12,000	Secured
Shareholders	\$0	\$5,000	\$5,000	Secured
Sub-total	\$372,000	\$5,000	\$377,000	
WSRF Rio Grande Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$397,000	\$5,000	\$402,000	
WSRF Statewide Account	\$225,000	\$0	\$225,000	
Total Project Costs	\$622,000	\$5,000	\$627,000	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(k)**

Applicant & Grantee: Colorado State University

Water Activity Name: Sustaining Plains Aquatic Ecosystems using an Integrated Ecological and Social Approach

Water Activity Purpose: Environmental/Education & Outreach-Study

County: Sedgwick, Phillips, Yuma, Logan, Washington, Morgan, Weld, Larimer, Adams and Arapahoe

Drainage Basin: South Platte

Water Source: South Platte River

Amount Requested: \$40,000 South Platte Basin Account
\$94,015 Statewide Account
\$134,015 Total Request

Matching Funds: Basin Account Match = \$40,000

- 43% of statewide request (meets 10% min)

Applicant Match (cash) = \$67,012

- 71% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$107,012

- 113% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$40,000 from the South Platte Basin Account and up to \$94,015 from the Statewide Account to help fund the project: Sustaining Plains Aquatic Ecosystems using an Integrated Ecological and Social Approach.

Water Activity Summary: WSRF Funds, if approved will assist Colorado State University: evaluate ecological impacts of non-native mosquitofish on select native fish species under different flow and salinity conditions in the laboratory; assess land managers' and owners' perceptions regarding aquatic ecosystems, values related to these ecosystems, and evaluate factors affecting their attitudes toward environment-relevant water use practices, and; develop digital public outreach materials that document aquatic species, habitat and people working towards aquatic sustainability. Information from this study will inform future efforts to maintain both water supplies and non-consumptive needs.

Streams in the South Platte and Republican Basin are home to approximately 30 native fish that are non-consumptive priorities in the South Platte Basin Implementation Plan. Surface water diversions and groundwater pumping have decreased flow in these streams. Less water results in less habitat, while also affecting water quality (e.g., salinity), resiliency to climate change, and species composition. An invasion of non-native mosquitofish (*Gambusia affinis*; Fig. 1), one of the most invasive species in the world, is an emerging threat to native plains fish.. Little if known about how reduced streamflow, altered water quality, and invasive species, in concert, affect native species. On top of ecological

dynamics, people’s knowledge, values, and decision-making at multiple levels (land managers, municipalities, other actors in the State Water Plan) interact to drive aquatic sustainability in the plains. CSU proposes an ecological study of non-native mosquitofish paired with an assessment of water managers’ and landowners’ perceptions regarding aquatic ecosystems, values related to these ecosystems, and factors affecting attitudes toward environment-relevant water use practices.

Discussion: This effort will assist the South Platte Basin Roundtable achieve several goals as called for in the South Platte Basin Implementation Plan and Education Action Plan, such as: Promote restoration, recovery, and sustainability of endangered, threatened, and imperiled aquatic, riparian and wetland dependent species and plant communities (Section 1.9.7); Protect and enhance environmental and recreation attributes through collaborations with other water use sectors (Section 5.5.5); and Facilitate South Platte communications and outreach programs (Section 5.5.9). In addition, this efforts assists the state in achieving the following goals as called for in Chapter 10 of Colorado’s Water Plan, such as: Enhance Environmental and Recreational Economic Values, and; Protect Healthy Environments; Promote Protection and Restoration of Water Quality.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Colorado State University	\$67,012	\$0	\$67,015	Secured
WSRF South Platte Basin Account	\$40,000	\$0	\$40,000	Secured
Sub-total	\$107,012	\$0	\$107,012	
WSRF Statewide Account	\$94,015	n/a	\$94,015	
Total Project Costs	\$201,027	\$0	\$201,027	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(I)**

Applicant & Grantee: Fort Lewis College
Water Activity Name: Dolores River Adaptive Management Project
Water Activity Purpose: Environmental & Recreational/Education & Outreach-Study
County: Montezuma, Dolores, San Miguel, Montrose & Mesa
Drainage Basin: Southwest
Water Source: Dolores River
Amount Requested: \$25,000 Southwest Basin Account
\$140,617 Statewide Account
\$165,617 Total Request

Matching Funds: Basin Account Match = \$25,000

- 562% of statewide request (meets 10% min)
- Applicant & 3rd Party Match (cash & in-kind) = \$71,275
- 51% of the statewide request (meets 10% min)
- Total Match (Basin request & Applicant Match) = \$96,275
- 68% of the statewide request (meets 50% min)

<p>Staff Recommendation:</p> <p>Staff recommends approval of up to \$25,000 from the Southwest Basin Account and up to \$140,617 from the Statewide Account to help fund the project: Dolores River Adaptive Management Project.</p>

Water Activity Summary: WSRF Funds, if approved will assist the Four Corners Water Center at Fort Lewis College to develop a geomorphic monitoring and data analysis protocol for the Dolores River downstream from McPhee Dam that is sustainable in the long-term and has a responsive component that can be activated rapidly when hydrologic conditions are favorable. The second component is to perform the four years of monitoring and report the results. The third component of the proposal is to create a sustainable and accessible online repository for past and future data collected on the Dolores River.

Discussion: This effort will assist the Southwest Basin Roundtable achieve several goals as called for in the Southwest Basin Implementation Plan, such as: Goal A4, Goal A5, Goal E2, while also assisting Colorado achieve the environmental and recreational goals of “Understand, protect, maintain, and improve conditions of streams, lakes, wetlands and riparian areas to promote self-sustaining fisheries and functional riparian and wetland habitats to promote long term sustainability and resiliency”, as called for on page 6-157 of Colorado’s Water Plan.

Issues/Additional Needs: The applicant shall submit all outstanding letters of matching commitment prior to entering into a grant contract with the state, otherwise, there are no issues or additional needs.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
RiversEdge West	\$2,000	\$4,478	\$6,478	Secured
The Nature Conservancy	\$10,000	\$0	\$10,000	Secured
Colorado Parks and Wildlife	\$9,231	\$0	\$9,231	Pending
BLM	\$0	\$1,696	\$1,696	Secured
Dolores Water Conservancy District	\$10,000	\$0	\$10,000	Pending
USBOR	\$0	\$2,334	\$2,334	Secured
Conservation Legacy	\$0	\$416	\$416	Secured
Catena Foundation	\$31,120	\$0	\$31,120	Pending
Sub-total	\$62,351	\$8,924	\$71,275	
WSRF Southwest Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$87,351	\$8,924	\$96,275	
WSRF Statewide Account	\$140,617	n/a	\$140,617	
Total Project Costs	\$227,968	\$8,942	\$236,892	

CWCB Project Manager: Chris Sturm

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(m)**

Applicant & Grantee: Morrison Consolidated Ditch Company
Water Activity Name: Railroad Siphon Replacement
Water Activity Purpose: Agricultural-Implementation
County: La Plata
Drainage Basin: Southwest
Water Source: Unknown
Amount Requested: \$25,000 Southwest Basin Account
\$33,875 Statewide Account
\$58,875 Total Request

Matching Funds: Basin Account Match = \$25,000

- 73% of statewide request (meets 10% min)

Applicant Match (cash) = \$19,625

- 57% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$44,625

- 132% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Southwest Basin Account, and up to \$33,875 from the Statewide Account to help fund the project: Railroad Siphon Replacement.

Water Activity Summary: WSRF Funds, if approved will assist the Morrison Consolidated Ditch Company replace an existing syphon located south of Oxford, CO. The syphon currently consists of two 24” pipes, one CMP, the other is concrete. It was found that the CMP pipe has several areas where the metal is getting thin and will cause major issues in the near future if not addressed. A contractor came to the site and recommended replacing both pipes with 200 feet of new 48” double walled pipe capable of carrying the current amount of water that the two pipes carry during irrigation season, plus carriage space for heavy rain events. The concrete structures on both ends of the syphon, as well the trash rack will be replaced. The syphon carries approximately 60 cfs of water when the ditch is running irrigation water. The grant funds would specifically be used for the construction, materials, and labor to replace the syphon, concrete structures, and trash rack. NRCS is assisting with survey and design of the syphon.

Discussion: This effort will assist the South West Basin Roundtable achieve several goals as called for in their Basin Implementation Plan, such as: Improve agricultural water supplies to reduce shortages; and Restore, maintain, and modernize critical water infrastructure, including hydropower, while also assisting Colorado achieve the goal of: Support Colorado’s agricultural industry to make it more efficient, resilient, and able to reduce water consumption without impacting agricultural productivity as called for in Chapter 10 of Colorado’s Water Plan.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Morrison Consolidated Ditch Company	\$19,625	\$0	\$19,625	Secured
Sub-total	\$19,625	\$0	\$19,625	
WSRF Southwest Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$44,625	\$0	\$44,625	
WSRF Statewide Account	\$33,875	\$0	\$33,875	
Total Project Costs	\$78,500	\$0	\$78,500	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(n)**

Applicant & Grantee: Montezuma Orchard Restoration Project

Water Activity Name: Innovations in Irrigation to Support Heritage Apple Orchards in SW Colorado

Water Activity Purpose: Agricultural-Implementation

County: Montezuma

Drainage Basin: Southwest

Water Source: Montezuma Valley Irrigation Company

Amount Requested: \$25,000 Southwest Basin Account
\$39,900 Statewide Account
\$64,900 Total Request

Matching Funds: Basin Account Match = \$25,000

- 63% of statewide request (meets 10% min)
- Applicant & 3rd Party Match (cash & in-kind) = \$72,000
- 180% of the statewide request (meets 10% min)
- Total Match (Basin request & Applicant Match) = \$97,000
- 243% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Southwest Basin Account, and up to \$39,900 from the Statewide Account to help fund the project: Innovations in Irrigation to Support Heritage Apple Orchards in SW Colorado.

Water Activity Summary: WSRF Funds, if approved will assist the Montezuma Orchard Restoration Project (MORP): create an efficient irrigation system design for 20.95 acres of reestablished heritage orchard (divided into three phases of installation) that can be used as a transferable template to farmers in the region; create an irrigation water management plan that utilizes soil moisture monitors to inform irrigation scheduling and application rates, and; install the first phase of orchard establishment and irrigation improvements on 6.20 acres of Orchard Hub property.

Montezuma Orchard Restoration Project owns 36.35 acres of residential/agricultural land near Cortez, Colorado, irrigated with 35 shares of Montezuma Valley Irrigation Company water. Historically the property was used for orchards, but the majority of the trees were cut out by 1960 in favor of water intensive crops such as alfalfa. In collaboration with its partner The Nature Conservancy, MORP seeks to restore the site to heritage orchards while demonstrating crop conversion opportunities and water conservation methods to area farmers. The property known as the “Orchard Hub” is located in the San Juan basin on lands that use water from the Dolores River basin.

Discussion: This effort will assist the Southwest Basin Roundtable achieve several goals as called for in their Basin Implementation Plan, such as: their Agricultural goal B2 to Implement efficiency measures to maximize beneficial use and production, and also assisting Colorado achieve the goal to Maintain Agricultural Viability as called for in Chapter 10 of Colorado’s Water Plan.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Montezuma Orchard Restoration Project	\$13,000	\$12,000	\$25,000	Secured
The Nature Conservancy	\$47,000	\$0	\$47,000	Secured
Sub-total	\$60,000	\$12,000	\$72,000	
WSRF Southwest Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$85,000	\$12,000	\$97,000	
WSRF Statewide Account	\$39,900	\$0	\$39,900	
Total Project Costs	\$124,900	\$12,000	\$136,900	

CWCB Project Manager: Alex Funk

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(o)**

Applicant & Grantee: Redmesa Reservoir and Ditch Company
Water Activity Name: Redmesa Reservoir Enlargement (Final Design and Permitting)
Water Activity Purpose: Agricultural/Env & Rec/M&I-Implementation
County: La Plata
Drainage Basin: Southwest
Water Source: La Plata River
Amount Requested: \$25,000 Southwest Basin Account
\$250,000 Statewide Account
\$275,000 Total Request

Matching Funds: Basin Account Match = \$25,000

- 10% of statewide request (meets 10% min)
- Applicant & 3rd Party Match (cash) = \$307,400
- 122% of the statewide request (meets 10% min)
- Total Match (Basin request & Applicant Match) = \$332,400
- 132% of the statewide request (meets 50% min)

Staff Recommendation:

Staff recommends approval of up to \$25,000 from the Southwest Basin Account, and up to \$250,000 from the Statewide Account to help fund the project: Redmesa Reservoir Enlargement (Final Design and Permitting).

Water Activity Summary: WSRF Funds, if approved will assist the Redmesa Reservoir and Ditch Company to enlarge Redmesa Reservoir and address its current narrow spillway and aging outlet works to comply with the current Colorado Office of the State Engineer’s (SEO) dam safety requirements, while enlarging the reservoir to increase the water supply available for the Reservoir Ditches and varied stakeholders within the La Plata River Basin. The dam safety branch of the SEO has placed a zero-storage restriction on Redmesa Reservoir beginning March 1, 2021 if engineered plans and specifications are not submitted for review to rehabilitate Redmesa Reservoir. Grant money sought in the 2020 CWCB application will be used for the final engineering, geotechnical analysis, and environmental permitting to comply with the SEO’s engineered submittal and deadline. RR&DC anticipates construction of the ultimate Redmesa Reservoir enlargement project will occur within two to five years.

Redmesa Reservoir yields approximately 1.0 AF of supply for each of the 1,138 outstanding shares in RR&DC. Water is delivered on a pro-rata basis. Given the limited water available in the area, a maximum of 1,600 acres can be practically irrigated, while in most years approximately 1,140 acres of land is irrigated within the RR&DC’s service area. The service area is located mostly around the town of Red Mesa (unincorporated) in the southwestern portion of the La Plata County.

Discussion: This effort will assist the Southwest Basin Roundtable achieve several goals as called for in their Basin Implementation Plan, such as: their Agricultural Goal B2 to Implement efficiency measures to maximize beneficial use and production, and also assisting Colorado achieve the goal to Maintain Agricultural Viability as called for in Chapter 10 of Colorado’s Water Plan.

Issues/Additional Needs: None.

Eligibility Requirements: The application meets requirements of all eligibility components.

Evaluation Criteria: Staff has determined this activity satisfies the Evaluation Criteria.

Funding Sources/Match	Cash	In-kind	Total	Status
Redmesa Reservoir and Ditch Company	\$232,400	\$0	\$232,400	Secured
Southwestern Water Conservation District	\$75,000	\$0	\$75,000	Secured
Sub-total	\$307,400	\$0	\$307,400	
WSRF Southwest Basin Account	\$25,000	\$0	\$25,000	Secured
Sub-total	\$332,400	\$0	\$332,400	
WSRF Statewide Account	\$250,000	\$0	\$250,000	
Total Project Costs	\$582,400	\$0	\$582,400	

CWCB Project Manager: Matt Streans