



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

P (303) 866-3441
F (303) 866-4474

Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: September 2, 2019

AGENDA ITEM: 9 (a-I)

Staff Recommendation - Action Items: WSRF Grant Requests 9 (a-I):

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
SEPT 2019

9/5/2009

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	\$4,000,000	\$2,560,000	\$1,440,000
Interest	N/A	\$2,857,935	\$1,829,078	\$0
Prior Years Interest Adjustment			\$1,028,856	\$0
2014/2015 Interest	N/A	\$ 240,216	\$240,216	\$0
2015/2016 Interest	N/A	\$ 219,458	\$219,458	\$0
2016/2017 Interest	N/A	\$ 223,936	\$223,936	\$0
2017/2018 Interest	N/A	\$ 376,467	\$376,467	\$0
2018/2019 Interest	N/A	\$ 431,589	\$431,589	\$0
2019/2020 Interest	N/A	\$ 32,309	\$32,309	\$0
TOTAL	\$104,775,000	\$98,510,522	\$65,215,971	\$33,294,551

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	\$3,362,174	\$3,699,395	\$337,221	\$11,544,935	
Colorado*	\$3,476,579	\$3,699,395	\$222,816	\$6,283,985	
Southwest *	\$3,288,307	\$3,699,395	\$411,088	\$8,161,644	
Gunnison *	\$3,259,657	\$3,699,395	\$439,738	\$6,282,952	
Metro *	\$3,019,801	\$3,699,395	\$679,594	\$7,461,732	
North Platte	\$2,951,785	\$3,699,395	\$747,610	\$842,844	
Rio Grande*	\$3,479,443	\$3,699,395	\$219,952	\$12,209,690	
South Platte *	\$3,091,945	\$3,699,395	\$607,450	\$7,639,612	
Yampa/White	\$2,930,589	\$3,699,395	\$768,806	\$847,969	
TOTAL	\$28,860,280	\$33,294,551	\$4,434,275	\$61,275,363	\$3,940,608
TOTAL APPROVED GRANTS					\$90,135,643

Note: Only includes grants approved by CWCB

* Comments reflect adjustments to balances

Water Supply Reserve Fund Applications for Consideration at the September 2019 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
9(a)	Gunnison	Crawford Water Conservancy District	Lower Aspen Canal Piping Efficiency Project	\$50,000	\$176,000	\$226,000	\$1,365,950	\$171,100	\$1,537,050	\$1,587,050	\$1,763,050	Staff recommends approval of up to \$50,000 from the Gunnison Basin Account, and up to \$176,000 from the Statewide Account	Alex Funk
9(b)	Gunnison	Uncompahgre Watershed Partnership	Governor Basin Restoration Project	\$20,000	\$11,100	\$31,100	\$114,200	\$80,250	\$194,450	\$214,450	\$225,550	Staff recommends approval of up to \$20,000 from the Gunnison Basin Account, and up to \$11,100 from the Statewide Account	Chris Sturm
9(c)	Gunnison	City of Montrose	Uncompahgre River Improvement Project	\$40,000	\$60,000	\$100,000	\$1,500,000	\$0	\$1,500,000	\$1,540,000	\$1,600,000	Staff recommends approval of up to \$40,000 from the Gunnison Basin Account, and up to \$60,000 from the Statewide Account	Chris Sturm
9(d)	South Platte	Fourmile Watershed Coalition/Four Mile Fire Protection District	Boulder Creek Watershed Water Quality Sampling	\$18,180	\$0	\$18,180	\$18,180	\$0	\$18,180	n/a	\$36,360	Staff recommends approval of up to \$18,180 from the South Platte Basin Account	Craig Godbout
9(e)	South Platte	Colorado Master Irrigator	Colorado Master Irrigator Program - Northern High Plains	\$59,655	\$0	\$59,655	\$11,120	\$9,500	\$20,620	n/a	\$80,275	Staff recommends approval of up to \$59,655 from the South Platte Basin Account	Alex Funk
9(f)	Y/W/G	Deborah Martin	Martin Springs Irrigation and Storage Improvements	\$7,462	\$0	\$7,462	\$0	\$2,488	\$2,488	n/a	\$9,950	Staff recommends approval of up to \$7,462 from the Yampa/White/Green Basin Account	Craig Godbout
9(g)	Southwest	Mountain Studies Institute	Upper San Juan Watershed Enhancement Partnership	\$7,500	\$0	\$7,500	\$1,700	\$1,800	\$3,500	n/a	\$11,000	Staff recommends approval of up to \$7,500 from the Southwest Basin Account	Megan Holcomb
9(h)	Southwest	Montezuma County	Noxious Weeds	\$16,840	\$0	\$16,840	\$76,743	\$2,640	\$79,383	n/a	\$96,223	Staff recommends approval of up to \$16,840 from the Southwest Basin Account	Megan Holcomb
9(i)	Colorado	Trout Unlimited	Grandby Diversion Structure Improvement	\$50,000	\$162,404	\$212,404	\$0	\$113,350	\$113,350	\$163,350	\$325,754	Staff recommends approval of up to \$50,000 from the Colorado Basin Account and \$162,404 from the Statewide Account	Megan Holcomb
9(j)	Arkansas	Beaver Park Water, Inc	Phase 3 Upper Canal Lining Removal and Replacement	\$10,000	\$100,000	\$110,000	\$35,000	\$10,000	\$45,000	\$55,000	\$155,000	Staff recommends approval of up to \$10,000 from the Arkansas Basin Account and \$100,000 from the Statewide Account	Ben Wade
9(k)	Arkansas	DeWeese Dye Ditch and Reservoir Company/ Upper Arkansas Water Conservancy District	DeWeese Reservoir Feasibility Study	\$15,000	\$150,000	\$165,000	\$30,000	\$30,000	\$60,000	\$75,000	\$225,000	Staff recommends approval of up to \$15,000 from the Arkansas Basin Account and \$150,000 from the Statewide Account	Ben Wade
9(l)	Arkansas	Otero Ditch Company	Otero Ditch Infrastructure Updates	\$5,000	\$50,000	\$55,000	\$24,500	\$25,000	\$49,500	\$54,500	\$104,500	Staff recommends approval of up to \$5,000 from the Arkansas Basin Account and \$50,000 from the Statewide Account	Ben Wade
				\$299,637	\$709,504	\$1,009,141							

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	\$30,000	\$300,000	\$330,000	\$337,221	\$307,221		
Colorado Basin	\$50,000	\$162,404	\$212,404	\$222,816	\$172,816		
Gunnison Basin	\$110,000	\$247,100	\$357,100	\$439,738	\$329,738		
Metro	0	0	0	\$679,594	\$679,594		
North Platte	0	0	0	\$747,610	\$747,610	\$3,940,608	\$3,231,104
Rio Grande	0	0	0	\$219,952	\$219,952		
Southwest	\$24,340	\$0	\$24,340	\$411,088	\$386,748		
South Platte	\$77,835	\$0	\$77,835	\$607,450	\$529,615		
Yampa/White/Green	\$7,462	\$0	\$7,462	\$768,806	\$761,344		
Water Supply Reserve Fund Total Requests	\$299,637	\$709,504	\$1,009,141	\$4,434,275	\$4,134,638		

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 18-19, 2019
Agenda Item 9(a)

Applicant & Grantee: Crawford Water Conservancy District

Water Activity Name: Lower Aspen Canal Piping Efficiency Project

Water Activity Purpose: Agricultural

County: Delta & Montrose

Drainage Basin: Gunnison

Water Source: Not stated

Amount Requested: \$50,000 Gunnison Basin Account
\$176,000 Statewide Account
\$226,000 Total Request

Matching Funds: Applicant & 3rd Party Match (cash & in-kind) = \$1,487,050

- Exceeds 25% match requirement for the Basin Account request
- Exceeds 50% match requirement for Statewide Account request

Staff Recommendation:

Staff recommends approval of up to \$50,000 from the Gunnison Basin Account; and \$176,000 from the Statewide Account to help fund the project titled: Lower Aspen Canal Piping Efficiency Project.

Water Activity Summary: WSRF grant funds, if approved, will assist the Crawford Water Conservancy District replace approximately 9,000 feet of open, earthen, and leaking lower Aspen Canal with closed HDPE pipe. The Lower Aspen Canal provides irrigation water for grass pasture and hay crops. Benefits of this effort include improved management of 10,000 ac-feet of water, the conservation of almost 220 ac-feet previously lost to seepage, reduction of 369 tons of salt and 24 lbs selenium loading to the Colorado River System. Selenium reduction benefit is 24-36% of the 66 lb reduction required to meet chronic aquatic life standards in the Cottonwood Creek drainage. This project is consistent with goals and objectives of federal mitigation requirements identified in the Aspinall Unit Re-operations Programmatic Biological Opinion, provides significant downstream benefits to endangered fish critical habitat and endangered fish Recovery Program goals, and is a Tier 1 Gunnison Basin Implementation Plan Project.

Discussion: This effort will assist the Gunnison Basin Roundtable achieve goals 1, 2, 3, and 8 as called for in the Gunnison Basin Implementation Plan, as well as assisting the state achieve the goals of: A productive economy that supports vibrant and sustainable cities; viable and productive agriculture; and a robust skiing, recreation, and tourism industry; Efficient and effective water infrastructure; and a strong environment that includes healthy watersheds, river, streams and wildlife as called for in Chapter 10 of Colorado's Water Plan.

Issues/Additional Needs: The applicant must submit several letters of matching commitment (see *Funding Summary/Matching Funds* section below) prior to entering into a contract with the state, otherwise no issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
U.S. BoR (Salinity Control Program)	\$575,000	\$0	\$575,000	Pending
Colorado Non-point Source Program	\$375,000	\$0	\$375,000	Pending
NPS Water Quality Implementation Fund	\$20,000	\$0	\$20,000	Pending
CWCB Species Conservation Trust Fund	\$33,500	\$0	\$33,500	Pending
CWCB Water Plan Grant	\$274,000	\$0	\$274,000	Pending
Crawford Water Conservancy District	\$10,000	\$28,450	\$10,000	Secured
U.S. BoR (CRSP)	\$0	\$167,300	\$167,300	Pending
Colorado River Water Conservation District	\$0	\$3,800	\$3,800	Pending
Sub-total	\$1,287,500	\$199,550	\$1,487,050	
WSRF Gunnison Basin Account	\$50,000	\$0	\$50,000	Secured
Sub-total	1,337,500	\$199,550	\$1,537,050	
WSRF Statewide Account	\$176,000	\$0	\$176,000	Pending
Total Project Costs	\$1,513,500	\$199,	\$1,713,050	

CWCB Project Manager: Alex Funk

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 18-19, 2019
Agenda Item 9(b)

Applicant & Grantee: Uncompahgre Watershed Partnership
Water Activity Name: Governor Basin Restoration Project
Water Activity Purpose: Non-consumptive/Implementation
County: Ouray
Drainage Basin: Gunnison
Water Source: n/a
Amount Requested: \$20,000 Gunnison Basin Account
\$11,100 Statewide Account
\$31,100 Total Request

Matching Funds: Applicant & 3rd Party Match (cash & in-kind) = \$194,450

- Exceeds 10% match requirement for the Basin Account request
- Exceeds 50% match requirement for Statewide Account request

Staff Recommendation:

Staff recommends approval of up to \$20,000 from the Gunnison Basin Account; and \$11,100 from the Statewide Account to help fund the project titled: Governor Basin Restoration Project.

Water Activity Summary: WSRF grant funds, if approved, will assist the Uncompahgre Watershed Partnership restore Governor Basin that has been impacted by waste rock and tailings, from the Terrible and Virginus mines. These mines leach metals that impair water quality, downgradient aquatic and terrestrial habitat, and watershed health. During the restoration project, waste rock and tailings will be capped and covered. Drainage channels will be constructed to capture and divert flow away from mine waste and tailings. Soil amendments and a custom high alpine seed mix will be used to revegetate the restoration area. The Governor Basin restoration project will improve water quality, aquatic habitat, and watershed health by mitigating the effects of legacy mining activities; and reduce human-health risks to recreational users. The restoration area is approximately seven acres. The restoration project will benefit riparian and aquatic habitat, water quality, and overall watershed health for an estimated eight miles of downstream waters in Governor, Sneffels, and Canyon creeks. WRSF grant funds will be used for the design, engineering, and permitting costs and for project coordination and public outreach. The project is consistent with UWP's existing watershed plan and local stakeholders, including Ouray County, the city of Ouray, and the Trust for Land Restoration, that have been involved in project development for the past fifteen months.

Discussion: This effort will assist the Gunnison Basin Roundtable achieve goals 1, 3, 5, and 6 as called for in the Gunnison Basin Implementation Plan, as well as assisting the state achieve the goals of: Maintaining agricultural viability;

Enhance environmental and recreational economic value; protect healthy environments; promote protection and restoration of water quality; protect and restore critical watersheds as called for in Chapter 10 of Colorado's Water Plan.

Issues/Additional Needs: The applicant must submit one additional letter of matching commitment (see *Funding Summary/Matching Funds* section below) prior to entering into a contract with the state, otherwise no issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Uncompahgre Watershed Partnership	\$2,500	\$8,750	\$11,250	Secured
Ouray Silver Mines	\$2,250	\$71,500	\$73,750	Pending
Natural Resources Damages Fund	\$76,200	\$0	\$76,200	Secured
CWCB Water Plan Grant	\$33,250	\$0	\$33,250	Secured
Sub-total	\$114,200	\$80,250	\$194,450	
WSRF Gunnison Basin Account	\$20,000	\$0	\$20,000	Secured
Sub-total	\$134,200	\$80,250	\$214,450	
WSRF Statewide Account	\$11,100	\$0	\$11,100	
Total Project Costs	\$145,300	\$80,250	\$225,550	

CWCB Project Manager: Chris Sturm

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 18-19, 2019
Agenda Item 9(c)

Applicant & Grantee: City of Montrose
Water Activity Name: Uncompahgre River Improvement Project
Water Activity Purpose: Non-consumptive/Implementation
County: Montrose
Drainage Basin: Gunnison
Water Source: Uncompahgre River
Amount Requested: \$40,000 Gunnison Basin Account
\$60,000 Statewide Account
\$100,000 Total Request

Matching Funds: Applicant & 3rd Party Match (cash & in-kind) = \$1,540,000

- Exceeds 10% match requirement for the Basin Account request
- Exceeds 50% match requirement for Statewide Account request

Staff Recommendation:

Staff recommends approval of up to \$40,000 from the Gunnison Basin Account; and \$60,000 from the Statewide Account to help fund the project titled: Uncompahgre River Improvement Project.
--

Water Activity Summary: WSRF grant funds, if approved, will assist the City of Montrose restore 0.65 miles (3,400 LF) of the Uncompahgre River adjacent to Montrose, Colorado: The Uncompahgre provides field irrigation and supports a robust agriculture economy in the region. The intent of the project is to mitigate the following observed issues in the project reach: unstable active channel, active bank erosion and lateral migration, limited number of riffle/pool sequences, suboptimal overall aquatic habitat, limited off-channel backwater habitat, overly wide active channel area, sediment imbalance, high shear stresses against banks, and minimal riparian habitat through significant stretches. This project involves re-establishing resilient channel alignment, creating an active channel width balanced with flow and sediment load, connecting the river to its floodplain, creating a stable riparian zone adjacent to the channel, improving fish and other aquatic habitat, stabilizing the river banks, and providing river access to the public. The project is 70% designed. Remaining design will be completed prior to construction in Fall 2019. A Nationwide 27 permit will be filed shortly with the Army Corps. Funds from the WSRF will be used for construction (excavation, channelization, bank stabilization, riffle/pool features, habitat improvements, and re-vegetation).

Discussion: This effort will assist the Gunnison Basin Roundtable achieve goals 1, 3, 5, and 6 as called for in the Gunnison Basin Implementation Plan, as well as assisting the state achieve the goals of: Maintaining agricultural viability; Enhance environmental and recreational economic value; protect healthy environments; promote protection and restoration of water quality; protect and restore critical watersheds as called for in Chapter 10 of Colorado's Water Plan.

Issues/Additional Needs: No issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
City of Montrose	\$1,100,000	\$0	\$1,100,000	Secured
CWCB Watershed Restoration Grant	\$400,000	\$0	\$400,000	Secured
Sub-total	\$1,500,000	\$0	\$1,500,000	
WSRF Gunnison Basin Account	\$40,000	\$0	\$40,000	Secured
Sub-total	\$1,540,000	\$0	\$1,540,000	
WSRF Statewide Account	\$60,000	\$0	\$60,000	
Total Project Costs	\$1,600,000	\$0	\$1,600,000	

CWCB Project Manager: Chris Sturm

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 18-19, 2019
Agenda Item 9(d)

Co-Applicants: Fourmile Watershed Coalition/Four Mile Fire Protection District

Grantee: Four Mile Fire Protection District

Water Activity Name: Boulder Creek Watershed Water Quality Sampling

Water Activity Purpose: Multipurpose/Study (Ag/M&I/Needs Assessment)

County: Multiple-South Platte Basin Counties

Drainage Basin: South Platte

Water Source: Boulder Creek

Amount Requested: \$18,180 South Platte Basin Account

Matching Funds: Applicant & 3rd Party Match (cash & in-kind) = \$18,180

- Exceeds 25% match requirement for the Basin Account request

Staff Recommendation:
Staff recommends approval of up to \$18,180 from the South Platte Basin Account to help fund the project titled: Boulder Creek Watershed Water Quality Sampling.

Water Activity Summary: WSRF grant funds, if approved, will assist the Fourmile Watershed Coalition perform an assessment of water quality which will address multiple concerns within the watershed. Potential contaminate sources to be evaluated in this study include legacy mine waste within the Fourmile Watershed (a sub-watershed of the Boulder Creek Watershed) and potential human waste impacts from various populated camping areas with the headwaters of Boulder Creek. This project is a partnership with the Boulder Ranger District and was developed after years of conversations with landowners, communities, and agencies, who consistently raised similar concerns about past and present human impacts to watershed health, public safety, water quality impairments, and wildfire. This project will contribute data which will address each of these concerns at various levels. Twenty-eight water samples will be collected and analyzed at a laboratory (over two years) from approximately fifteen streams, downstream of heavily used camping areas on US Forest Service land. The goal is to establish a baseline understanding as to whether human waste is causing contamination downstream of camping areas or not. These data can serve as a foundation for future evaluations as recreational use and transient camping areas continue to grow. In the Fourmile Watershed, ten to fifteen intermittent streams will have preliminary water quality data obtained by using a multi-meter to measure pH, EC, and temperature above and below mine waste piles. Preliminary data will indicate if further soil or water sampling is recommended. Data collection will be accompanied by landowner outreach and refining existing mine waste maps.

Discussion: This project supports the goals of maintaining, enhancing and proactively manage water quality for all use classifications as called for in the South Platte Basin Implementation Plan, as well

as assisting the state to promote protection and restoration of water quality as called for in Chapter 10, Section 10.3 F. Watershed Health, Environmental, and Recreation in Colorado's Water Plan.

Issues/Additional Needs: No issues or additional needs have been identified

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Sources</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
DOLA Energy Impact Assistance Fund	\$18,180	\$0	\$18,180	Secured
WSRF South Platte Basin Account	\$18,180	\$0	\$18,180	Secured
Total Study Costs	\$36,360	\$0	\$36,360	

CWCB Project Manager: Craig Godbout

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 18-19, 2019
Agenda Item 9(e)

Applicant & Grantee: Colorado Master Irrigator

Water Activity Name: Colorado Master Irrigator Program - Northern High Plains

Water Activity Purpose: Multipurpose/Study (Ag/M&I/Needs Assessment)

County: Cheyenne, Kit Carson, Yuma, Washington, Sedgwick, Logan, Philips, Lincoln

Drainage Basin: South Platte

Water Source: Northern High Plains Aquifer

Amount Requested: \$59,655 South Platte Basin Account

Matching Funds: Applicant & 3rd Party Match (cash & in-kind) = \$18,180
• Exceeds 25% match requirement for the Basin Account request

Staff Recommendation:
Staff recommends approval of up to \$59,655 from the South Platte Basin Account to help fund the project titled: Colorado Master Irrigator Program – Northern High Plains.

Water Activity Summary: WSRF grant funds, if approved, will support the development and outreach-related activities related to a new, four-day intensive educational course on science-backed management methods and tools necessary to sustain profitable agriculture, improve water- and energy-use efficiency, and increase water conservation. This program's goal is to encourage Northern High Plains farmers, farm managers, and crop consultants to make shifts in practice and mindset necessary to address significant Ogallala aquifer water quantity and quality declines, sustain irrigated agriculture in the region, and satisfy compact-related obligations. A project advisory committee that includes members of the Northern High Plains Designated Basin's eight Ground Water Management Districts, area producers, CSU Extension, and others will support the program's coordinator with curriculum development, program outreach, work to establish private and publicly supported incentives to encourage management shifts, and help secure funding for the program and sponsorship opportunities for its participants. Each class cohort will have 25 participants, which may also influence management more widely across the Basin's 584,522 irrigated acres through program-related outreach and because of peer-to-peer exchange among producers that participate in or serve as educators for the program.

Discussion: This project supports the goal of recognizing the importance of Colorado's future well-being, and support continued success and develop new voluntary measures to sustain irrigated agriculture as indicated in section 1.9.1 Agriculture in the South Platte Basin Implementation Plan, while also assisting the state maintain agricultural viability, and support agricultural conservation and efficiency as stated in Chapter 10 of Colorado's Water Plan.

Issues/Additional Needs: The applicant must submit two additional letters verifying matching commitments prior to entering into a contract with the state, otherwise no issues or additional needs have been identified

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Sources</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Plains Ground Water Management District	\$0	\$9,500	\$9,500	Pending
Republican River Water Conservation District	\$5,000	\$0	\$5,000	Pending
Water Preservation Partnership	\$2,000	\$0	\$2,000	Secured
Colorado Water Center Education and Outreach Grant	\$4,120	\$0	\$4,120	Secured
Sub-total	\$11,120	\$9,500	\$20,620	
WSRF South Platte Basin Account	\$59,655	\$0	\$59,655	Secured
Total Study Costs	\$70,775	\$9,500	\$80,275	

CWCB Project Manager: Alex Funk

Water Supply Reserve Fund – Grant and Loan Program
Water Activity Summary Sheet
September 18-19, 2019
Agenda Item 9(f)

Applicant & Grantee: Deborah Martin

Water Activity Name: Martin Springs Irrigation and Storage Improvements

Water Activity Purpose: Agricultural/Environmental & Recreational - Implementation

County: Routt

Drainage Basin: Yampa/White/Green

Water Source: Northern High Plains Aquifer

Amount Requested: \$7,462 Yampa/White/Green Basin Account

Matching Funds: Applicant & 3rd Party Match (in-kind) = \$2,488
• Exceeds 25% match requirement for the Basin Account request

Staff Recommendation:

Staff recommends approval of up to \$7,462 from the Yampa/White/Green Basin Account to help fund the project titled: Martin Springs Irrigation and Storage Improvements.
--

Water Activity Summary: WSRF grant funds, if approved, will assist Deborah Martin make improvements to an existing storage pond and develop an irrigation system. The proposed activities include developing a point of diversion by constructing a stainless-steel head gate, 50 feet of 12” HDPE pipe, and a stainless-steel flume. Then, approximately 600 liner feet of lateral swale/ditch will be constructed to provide conveyance of 0.6 cfs of surface water for flood irrigation on approximately 12 irrigated acres. Lastly, the remaining contracted amount will be used for dredging the existing storage pond to remove accumulated sediment to provide capacity for the absolute storage right of 3.5 acre-feet. The improvements will promote agricultural uses for livestock watering and irrigation for grass hay production. The improvements will protect wildlife habitat for fish, ducks, sandhill cranes, elk, deer, etc. The water protected and developed is from Martin Spring, tributary to Red Creek tributary to Elk River, tributary to the Yampa River within the Yampa-White-Green Basin.

Discussion: This project supports the goal to Protect and encourage agricultural uses of water in the YWG Basin within the context of private property rights (Section 1.2.4), and Improve agricultural water supplies to increase irrigated land and reduce shortages (section 1.2.5) as stated in the Yampa/White/Green Basin Implementation Plan, while also assisting the state maintain agricultural viability, and support agricultural conservation and efficiency as stated in Chapter 10 of Colorado’s Water Plan.

Issues/Additional Needs: No issues or additional needs have been identified

Eligibility Requirements: The application meets requirements of all eligibility components: General Eligibility, Entity Eligibility, Water Activity Eligibility, and Eligibility Based on Match Requirements.

Evaluation Criteria: This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to Basin Roundtable Chair's Recommendation Letter and the WSRF Grant Application for applicant's detailed response.

Funding Summary/Matching Funds:

<u>Funding Sources</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>	<u>Status</u>
Professional Engineering Services	\$0	\$2,488	\$2,488	Secured
WSRF Yampa/White/Green Basin Account	\$7,462	\$0	\$7,462	Secured
Total Study Costs	\$7,462	\$2,488	\$9,950	

CWCB Project Manager: Craig Godbout

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(g)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: Upper San Juan Watershed Enhancement Partnership (WEP)
Multiple Use Project

Water Activity Purpose: Env, Rec, & Agricultural Study

County: Archuleta

Drainage Basin: Southwest

Water Source: San Juan

Amount Requested: \$7,500 Colorado Basin Account

Matching Funds: Basin Account Match (cash & in-kind) = \$3,500

- 47% of the Basin Account request (meets 25% min)
- 32% of the total project cost of \$11,000

Staff Recommendation:
Staff recommends approval of up to \$7,500 from the Southwest Basin Account to help fund the project: Upper San Juan Watershed Enhancement Partnership (WEP) Multiple Use Project.

Water Activity Summary: The Upper San Juan Watershed Enhancement Partnership (WEP) Multiple Use Project is an investigative study born from Phase I funding of the WEP stakeholder engagement process. WEP was formed as a community-led process to understand environmental and recreational water supply needs in the Upper San Juan River Basin and to help identify opportunities to engage in collaborative projects that benefit all water uses. With significant knowledge and experience on the steering committee composed of representatives of agricultural, municipal, environmental, and recreation, WEP has already identified a project opportunity for a multi-purpose stream management plan to benefit all uses on the largest and most senior irrigation ditch in Archuleta County. This effort will develop a concept level plan and preliminary cost estimate that addresses improved river diversion structures, fish habitat, streambank erosion, riparian vegetation conditions, water quality and recreational access locations. This information will inform the WEP steering committee's discussion with potential partners, the public and potential funding entities.

Discussion: As described in the Southwest Basin Roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on July 10, 2019. The project addresses key Colorado Water Plan and Southwest Basin Implementation goals to evaluate environmental and recreation water needs and gaps through collaborative approaches. The accomplishments and success of WEP Phase I (stakeholder engagement) demonstrates significant opportunity and capacity to support a stream management 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 Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Trout Unlimited (secured)	\$750	\$0	\$750
Mountain Studies Institute (secured)	\$200	\$0	\$200
The Nature Conservancy (pending)	\$750	\$0	\$750
WEP Steering Committee	\$0	\$1,800	\$1,800
WSRF Southwest Basin Account	\$7,500	n/a	\$7,500
Totals	\$9,200	\$1,800	\$11,000

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(h)**

Applicant & Grantee: Montezuma County Noxious Weed Department
Water Activity Name: Russian Olive and Salt Cedar Waterway Management
Water Activity Purpose: Env & Agricultural Implementation
County: Montezuma
Drainage Basin: Southwest
Water Source: McElmo Creek
Amount Requested: \$16,840 Southwest Basin Account
Matching Funds: Basin Account Match (cash & in-kind) = \$79,382
• 293% of the Basin Account request (meets 25% min)
• 82% of the total project cost of \$96,223

Staff Recommendation:

Staff recommends approval of up to \$16,840 from the Southwest Basin Account to help fund the project: Russian Olive and Salt Cedar Waterway Management.
--

Water Activity Summary: The Montezuma County Noxious Weed Department (MCNWD) has responded to the overwhelming amount of invasive and nonnative phreatophytes by hiring a two-person crew to make available to landowners for a low cost treatment of \$20/hour. The crew began work in May 2019 and has treated 2,962 Russian olives and 158 Salt cedars to date. The total water savings of these 3,120 treated trees, calculated by their diameter and a 39-week growing season, provides the region a water savings of 33.81-acre feet. MCNWD is seeking support from the Southwest WSRF account to help purchase a Fecon FRM76 Rotary Mower to significantly increase efficiency and decrease time spent within the thickets. This is important because the two-person crew has been experiencing health problems from current treatment procedures.

Discussion: As described in the Southwest Basin Roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on July 10, 2019. The project addresses Colorado Water Plan and Southwest Basin Implementation goals to maintain watershed health by protecting and restoring watersheds, specifically through improving water quality and promoting diversity. The scope of this WSRF request is specifically for the purchase of a mower to support the larger Russian Olive and Salt Cedar Waterway Management project already funded by a Colorado Water Plan grant (approved by the Board in May 2019).

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 Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
CWCB, Colorado Water Plan Grant	\$25,598	\$0	\$25,598
Colorado Department of Agriculture	\$22,500	\$0	\$22,500
Southwest Water Conservation District	\$7,100	\$0	\$7,100
Montezuma County	\$12,657	\$2,640	\$15,297
Landowners	\$8,888	\$0	\$8,888
WSRF Southwest Basin Account	\$16,840	n/a	\$16,840
Totals	\$93,583	\$2,640	\$96,223

CWCB Project Manager: Megan Holcomb

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(i)**

Applicant & Grantee: Trout Unlimited

Water Activity Name: Granby Diversion Structure Improvement

Water Activity Purpose: Env, Rec, & Agricultural Implementation

County: Grand

Drainage Basin: Colorado

Water Source: Fraser River

Amount Requested: \$50,000 Colorado Basin Account
\$162,404 Statewide Account
\$212,404 Total Request

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

- 31% of statewide request (meets 10% min)

Applicant Match (in-kind) = \$113,350

- 70% of the statewide request (meets 10% min)

Total Match (Basin & Applicant) = \$163,350

- 100% of the statewide request (meets 50% min)
- 50% of the total project cost of \$325,754

Staff Recommendation:
Staff recommends approval of up to \$50,000 from the Colorado Basin Account and up to \$162,404 from the Statewide Account to help fund the project: Granby Diversion Structure Improvement.

Water Activity Summary: This project aims to improve the Granby Diversion structure to provide for fish and non-motorized boating passage while improving municipal and agricultural diversions. The Granby Diversion is an 80-foot-wide, 3.5-foot-high boulder structure that spans the Fraser River and currently interferes with fish passage and boating. Trout Unlimited, in partnership with the Town of Granby, Grand County, US Fish and Wildlife Service (USFWS), and Colorado Parks and Wildlife (CPW) propose improvements to the diversion structure that will work together with the larger Windy Gap Bypass project to reconnect the aquatic habitat of the Colorado and Fraser Rivers. It will also provide a recreational amenity in the heart of Granby, Colorado. Design, engineering, and permitting for the Granby Diversion Improvement project is currently being conducted through grant support from the US Fish and Wildlife Service. WSRF funding will contribute to construction costs.

Discussion: As described in the Colorado Basin Roundtable (BRT) chair's recommendation letter, this project was unanimously supported and recommended for approval by the roundtable on July 22, 2019. This project is an exemplary effort of statewide importance and carries the support of Northern Water and Denver Water, to improve the Fraser and Colorado rivers, as noted in the Colorado Roundtable Chair letter and letters of support. This project meets several primary Colorado Basin

Implementation Plan goals to “Protect and Restore Healthy Streams, Rivers, Lakes and Riparian Areas,” to “Sustain Agriculture,” and has been identified as a top priority IPP by the Colorado BRT.

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 Summary / Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>
Northern Colorado Water Conservancy District, Municipal Subdistrict; Grand County; Town of Granby	\$0	\$113,350	\$113,350
WSRF Statewide Account	\$164,404	n/a	\$164,404
WSRF Colorado Basin Account	\$50,000	n/a	\$50,000
Totals	\$212,404	\$113,350	\$325,754

CWCB Project Manager: Megan Holcomb

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(j)

Applicant: Beaver Park Water Incorporated

Water Activity Name: Phase 3 - Upper Canal Lining Removal Replacement

Water Activity Purpose: Implementation: Agricultural, Nonconsumptive (Recreational) & Municipal & Industrial

County: Fremont

Drainage Basin: Arkansas

Water Source: Beaver Creek, Brush Hollow Creek & Brush Hollow Reservoir

Amount Requested/Source of Funds:

\$10,000	Arkansas Basin Account
<u>\$100,000</u>	<u>Statewide Account</u>
\$110,000	Total Grant Request

Matching Funds:

Basin Account Match (\$10,000) = 10% of Statewide Account request (meets 10% min.)
Applicant's cash & in-kind Match (\$45,000) = 45% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$55,000 = 55% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$10,000 from the Arkansas Basin Account and \$100,000 from the Statewide account to help fund the project/study titled: Phase 3 – Upper Canal Lining Removal Replacement.

Water Activity Summary:

If funded, the objectives of this project are to: continue Phase 2 to remove failed concrete sections of the Beaver Park Water Inc's (BPWI) Upper Canal and replace them with new formed concrete. A total of 4,526 linear feet of canal side has been identified by the applicant as being in need of removal and replacement. Approximately 3,182 linear feet will have been removed and replaced at the end of Phase 2. The remaining 1,344 linear feet of damaged sections is being proposed for replacement in Phase 3.

This canal diverts water under the water rights owned by BPWI from Beaver Creek and supplies water to direct irrigation use for the shareholders of BPWI. The canal additionally delivers water to BPWI's Brush Hollow Reservoir for delivery to BPWI's Lower Canal for direct irrigation use and

delivers these waters into storage in Brush Hollow Reservoir for later irrigation use. The BPWI Upper Canal additionally delivers Beaver Creek waters to the Penrose Water District (PWD). The PWD has a direct water treatment plant intake from the BPWI Upper Canal and diverts and treats these waters daily to supply its domestic and municipal customers.

The total estimated water efficiency savings from this proposed water activity is 1,100 acre-feet or 275 acre-feet per year. The applicant states the efficiency savings will be used to increase the availability of water supplies to the BPWI, the dependability of water deliveries to the PWD and increase typical storage levels in Brush Hollow Reservoir to the benefit of both the BPWI and wildlife, recreation and fishery interests of the Colorado Parks & Wildlife.

Discussion: The removal and replacement of the canal lining supports Chapter 10 Measurable Objective D: Agriculture Goal in the Colorado Water Plan; *“Maintain Agricultural Viability: Maintain agricultural productivity, support of rural economies and food security”*. By reducing the ditch canal seepage losses, this project helps fulfill the Critical Action: *Support Agricultural Conservation and Efficiency: make it more efficient, resilient and able to reduce water consumption without impacting agricultural productivity*.

Issues/Additional Needs: No issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRF Application for applicant’s detailed response.

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Beaver Park Water Inc.	\$25,000	\$10,000	\$35,000
Beaver Park Mutual Capital Account	\$5,000	\$0	\$5,000
Penrose Water District	\$5,000	\$0	\$5,000
Sub-total	\$35,000	\$10,000	\$45,000
WSRF Arkansas Basin Account	\$10,000	n/a	\$10,000
WSRF Statewide Account	\$100,000	n/a	\$100,000
Total Project Costs	\$145,000	\$10,000	\$155,000

CWCB Project Manager: Ben Wade

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(k)

Applicant: DeWeese Dye Ditch & Reservoir Company

Program Sponsor: Upper Arkansas Water Conservancy District

Water Activity Name: DeWeese Reservoir Feasibility Study

Water Activity Purpose: Study: Non-Consumptive (Environmental & Recreational), Agricultural, Municipal & Industrial and Needs Assessment

County: Custer

Drainage Basin: Arkansas

Water Source: Grape Creek & DeWeese Reservoir

Amount Requested/Source of Funds:

\$15,000	Arkansas Basin Account
<u>\$150,000</u>	<u>Statewide Account</u>
\$165,000	Total Grant Request

Matching Funds:

Basin Account Match (\$15,000) = 10% of Statewide Account request (meets 10% min.)
Applicant's cash & in-kind Match (\$60,000) = 40% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$75,000 = 50% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$15,000 from the Arkansas Basin Account and \$150,000 from the Statewide account to help fund the project/study titled: DeWeese Reservoir Feasibility Study

Water Activity Summary:

For several years, stakeholders representing M&I, Agriculture, Recreation, and the Environment have conducted studies to investigate the potential to improve stream management on Grape Creek to meet multiple objectives. The Arkansas River Watershed Collaborative (ARWC) is in the process of completing a stream management plan for Grape Creek that has determined that additional storage is necessary to meet the needs of all water uses.

The final plan indicates that additional storage in DeWeese Reservoir would provide the additional resources to allow for the development of a flow program that could support agricultural, municipal, recreational, and environmental needs. A feasibility study is needed to implement this plan. If funded, the feasibility study will investigate the physical, hydrological environmental, legal, financial, social and economic feasibility of enlarging DeWeese Reservoir. A major component of this study will be

to continue the work previously developed through the stream management plan to engage stakeholders, build collaborative partnerships, and develop strategic financial and management plans to meet multiple objectives.

Discussion: This project is in line with supporting objectives in the Water Plan including: A) Supply Demand Gap, D) Agriculture, E) Storage and F) Watershed Health, Environment and Recreation. This project also meets the goals identified in the Arkansas Basin Implementation Plan in regards to the Basin's storage goals.

Issues/Additional Needs: No issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRF Application for applicant's detailed response.

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Upper Arkansas Water Cons. Dist.	\$10,000	\$10,000	\$20,000
Bureau of Land Management	\$10,000	\$10,000	\$10,000
Round Mountain Water & Sanitation District	\$5,000	\$5,000	\$10,000
DeWeese Dye Ditch & Reservoir Company	\$5,000	\$5,000	\$10,000
Sub-total	\$30,000	\$30,000	\$60,000
WSRF Arkansas Basin Account	\$15,000	n/a	\$15,000
WSRF Statewide Account	\$150,000	n/a	\$150,000
Total Project Costs	\$195,000	\$30,000	\$225,000

CWCB Project Manager: Matt Stearns

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(l)

Applicant: Otero Ditch Company
Water Activity Name: Otero Ditch Infrastructure Updates
Water Activity Purpose: Implementation: Agricultural
County: Otero
Drainage Basin: Arkansas
Water Source: Timpas Creek
Amount Requested/Source of Funds: \$5,000 Arkansas Basin Account
\$50,000 Statewide Account
\$55,000 Total Grant Request

Matching Funds: Basin Account Match (\$5,000) = 10% of Statewide Account request (meets 10% min.)
Applicant's cash & in-kind Match (\$49,500) = 99% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$54,500 = 109% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$5,000 from the Arkansas Basin Account and \$50,000 from the Statewide account to help fund the project/study titled: Otero Ditch Infrastructure Updates.

Water Activity Summary:

Otero Ditch Company's head gates and diversion structures were built in 1911 and because of weather and water events, the structures and head gates have deteriorated and are in need of replacement if funding is approved.

The first head gate, or the inlet structure, is one half mile downstream of Otero Ditch's Arkansas River dam. Concrete needs to be reinforced, or perhaps replaced, with reinforced concrete caps, reinforcing the abutments all the way down into the water.

The head gates on the structure currently have four gates, however only two, 5 feet wide gates will need to be replaced with new head gates. This work will be Arkansas River water diverted into the Otero Ditch of approximately 5,140 shares in Otero Ditch, with 80 to 123 cfs of decreed winter water and/or summer time flood water diverted according to the Arkansas River priority system and a second 1903 decree of 334.92 cfs.

If approved, grant funding would also help update the Timpas Creek waste gate structure. This structure needs to be cleaned out and will be done so by contractors. A new 10 foot gate, or two 5 foot gates, will be placed in this structure to aid in keeping the structure clean and functional. The water in this structure is waste water that is being diverted back to the river through Timpas Creek. This structure also needs to be reinforced with concrete, reinforcing the abutments several feet into the water.

Finally, grant funds would be utilized to reinforce a deteriorating culvert that carries drain water, approximately 25 yards south of the waste gate structure.

Discussion: This project is in line with supporting objectives in the Water Plan including: D) Agriculture: *Reduces ditch losses and provides a more efficient use of available supplies.* This project also meets the goals identified in the Arkansas Basin Implementation Plan including: *Continuing to sustain an agricultural economy in the Basin by making more efficient use of existing supplies.*

Issues/Additional Needs: No issues or additional needs have been identified.

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRF Application for applicant's detailed response.

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Otero Ditch Company	\$24,500	\$25,000	\$49,500
Sub-total	\$24,500	\$25,000	\$49,500
WSRF Arkansas Basin Account	\$5,000	n/a	\$5,000
WSRF Statewide Account	\$50,000	n/a	\$50,000
Total Project Costs	\$79,500	\$25,000	\$104,500

CWCB Project Manager: Ben Wade