



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

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**TO:** Colorado Water Conservation Board Members

**FROM:** Ben Wade & Dori Vigil  
Water Supply Planning Section

**DATE:** February 23, 2024

**AGENDA ITEM:** Agenda Item #11a-d, Water Supply Reserve Fund, Grant Funding  
Recommendations

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**Staff Recommendation - Action Items: WSRF Grant Requests:**

A summary of staff's recommendation for each WSRF application are provided in the first component of the attached table.

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, verify that the water activity meets the eligibility requirements and also verifies that the applicant was an eligible entity to receive funding which are primarily outlined in the Grant Guidelines.
- 2) 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.

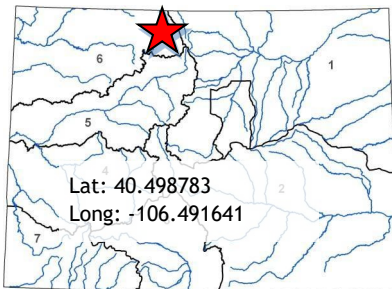


Water Supply Reserve Fund Applications for Consideration at the March 2024 CWCB Board Meeting																
Agenda Item	Statewide Project Category	Basin	Applicant/Grantee	Name of Water Activity	Basin(s) Account Request	Statewide Account Requests	RT Recommend- ed Amount	Non-WSRF Cash Match	Non-WSRF In-Kind Match	Non-WSRF Total Match	Statewide Match (Basin & Non-WSRF)	WSRF Total Project Costs	Basin Only Request Match % (min 25%)	Statewide Match % (Basin min 10%/applicant Match min 15% vs Total Project Cost)	PM	Grants Portal ID
Director's Report	N/A	Metro	Coalitions & Collaboratives	Clear Creek Watershed Post-Fire Hazards Data Gap Analysis & Update	\$18,750	\$0	\$18,750	\$6,250.00	\$0	\$6,250.00	N/A	\$25,000.00	25%	N/A	Andrea	App-03777
Consent Agenda 2a	N/A	Metro	Consolidated Mutual Water Company	Lena Gulch Water Quality Monitoring Program	\$99,999	\$0	\$99,999	\$30,000.00	\$15,000	\$45,000.00	N/A	\$144,999.00	31%	N/A	Ben	App-01370
Director's Report	N/A	Metro	Ken-Caryl West Ranch Water District	KCWRWD Automated Meter Reading for Well Production and Residential Meters	\$25,000	\$0	\$25,000	\$25,041.60	\$0	\$25,041.60	N/A	\$50,041.60	50%	N/A	Kevin	App-01367
Consent Agenda 2b	N/A	North Platte	Prairie Gem Livestock	Hunter Reservoir Phase 2	\$90,000	\$0	\$90,000	\$25,000	\$5,000	\$30,000	\$120,000	\$120,000	25%	N/A	Ben	App-01295
Agenda Item 11a	N/A	North Platte	Spicer Ranches	Mexican Reservoir Enlargement Phase 2	\$265,500	\$0	\$265,500	\$90,500	\$0	\$90,500	N/A	\$356,000	25%	N/A	Joshua	App-01371
Consent Agenda 2c	N/A	Metro	Godfrey Ditch Company	Godfrey Ditch Company Flume Replacement	\$28,000	\$0	\$56,000	\$19,000	\$0	\$19,000	N/A	\$75,000	25%	N/A	Ben	App-01340
		South Platte			\$28,000											
Agenda Item 11b	Aging Infrastructure	South Platte	City of Idaho Springs	Mattie Dam Rehabilitation	\$55,000	\$385,000	\$440,000	\$110,000	\$0	\$110,000	\$165,000	\$550,000	N/A	30%	Zach	App-01343
Agenda Item 11c	Drought Resiliency	South Platte	Ducks Unlimited	Tamarack State Wildlife Area: Well 17	\$75,000	\$562,500	\$637,500	\$112,134	\$0	\$112,134	\$187,134	\$749,634	N/A	25%	Andrea	App-01369
Consent Agenda 2d	N/A	South Platte	North Front Range Water Quality Planning Association	Region 2 - Nonpoint Soure EPA 9 - Element Watershed Plan	\$75,000	\$0	\$75,000	\$93,750	\$0	\$93,750	N/A	\$168,750	56%	N/A	Andrea	App-01191
Consent Agenda 2e	N/A	South Platte	St Vrain & Left Hand Water Conservancy District	2024 Northern Front Range Airborne Snow Observation Flights	\$64,000	\$0	\$64,000	\$85,000	\$0	\$85,000	N/A	\$149,000	57.05%	N/A	Erik	App-01368
Consent Agenda 2f	Drought Resiliency	South Platte	Sungate Systems, LLC	Automated Gated Pipe Control System Field Trial	\$28,500	\$60,000	\$88,500	\$15,000	\$15,000	\$30,000	\$45,000	\$118,500	N/A	37.97%	Nora	App-01322
Consent Agenda 2g	Aging Infrastructure	South Platte	Water Supply & Storage Company	Larimer County Canal Delivery Headgate Automation Project	\$25,000	\$38,200	\$63,200	\$63,200	\$0	\$63,200	\$63,200	\$126,400	N/A	50.00%	Zach	App-01347
Director's Report	N/A	Southwest	San Juan Water Conservancy District	Educational Video Series - This is Your Watershed: Upper San Juan River	\$20,250	\$0	\$20,250	\$6,750	\$0	\$6,750	N/A	\$27,000	25.00%	N/A	Ben	App-01350
Agenda Item 11d	N/A	Southwest	Trout Unlimited 145 - Dolores River Anglers	Dolores River Anglers Lower West Fork Restoration	\$100,000	\$0	\$100,000	\$33,019	\$4,000	\$37,019	N/A	\$137,019	27.02%	N/A	Steve	App-01325
					\$997,999.00	\$1,045,700	\$2,043,699									

			Basin	Basin Account Requests	Statewide Account Requests	Total Requests	HB21-1260 Stimulus Funds Current Basin Account Balances		Remaining HB21-1260 Stimulus Basin Account Balances (if all requests approved)							
			Arkansas Basin	\$0.00	\$0.00	\$0.00	\$51,160		\$51,160							
			Colorado Basin	\$0.00	\$0.00	\$0.00	\$165,200		\$165,200							
			Gunnsion Basin	\$0.00	\$0.00	\$0	\$500		\$500							
			Metro	\$171,749.00	\$0.00	\$171,749	\$0		\$0							
			North Platte	\$355,500.00	\$0.00	\$355,500	\$0		\$0							
			Rio Grande	\$0.00	\$0.00	\$0.00	\$112,000		\$112,000.00							
			Southwest	\$120,250.00	\$0.00	\$120,250	\$120,577		\$327							
			South Platte	\$350,500.00	\$1,045,700.00	\$1,396,200	\$0		0							
			Yampa/White/Green	\$0.00	\$0.00	\$0	\$2,250		\$2,250							
			Water Supply Reserve Fund Total Requests	\$997,999.00	\$1,045,700.00	\$2,043,699	\$451,687		0							



## Water Supply Reserve Grant Application



LOCATION
<b>County:</b> Jackson
<b>Drainage Basin:</b> North Platte

DETAILS	
<b>Total Project Cost:</b>	\$356,000
<b>Total WSRF Grant Request:</b>	\$265,500
<b>North Platte Basin Account Request:</b>	\$265,500
<b>Recommended Amount:</b>	\$265,500
<b>Other CWCB Funding:</b>	\$0
<b>Other Funding Amount:</b>	\$0
<b>Applicant Match:</b>	\$90,500
<b>Project Type:</b> Construction/Implementation	
<b>Major Water Use Type:</b> Agricultural	
<b>Measurable Result:</b> 100 acre feet of new storage created.	

Mexican Reservoir was constructed as an irrigation supply reservoir used to irrigate 65 acres of forage production. If approved, the enlargement of the reservoir can irrigate an additional 70 acres and help the applicant survive drought impacts to their operation.

Mexican Reservoir is an earthen embankment dam that is approximately 450-feet long and 12-feet high, with a crest width of 22 feet and an elevation of 8,331 feet. When the reservoir was built, it was believed it was big enough for the 153-acre feet decree, but it was discovered that the full capacity of the reservoir was 100-acre feet at most. There is a junior decree on the reservoir for an additional 146-acre feet. The Division of Water Resources moved to abandon part of the water right since the actual storage was significantly less than the decrees. DWR agreed that Spicer Ranches can enlarge the reservoir to a greater capacity (200 AF total) before October 31, 2024. If the applicant fails to enlarge the reservoir by this date, DWR will abandon part of the senior and junior priorities.

The applicant received WSRF funding in July 2022 for the enlargement design, geological and geotechnical study, hydrologic hazard analysis, and hazard classification analysis. In 2023, the applicant worked with the Division of Dam Safety to ensure that the designs met all requirements.

If approved, WSRF funds will help fund the enlargement of the reservoir, which includes:

- Raising the crest of the dam
- Modifying the spillway
- Replacing the outlet
- Installing a toe drain
- Adding riprap on the upstream slope

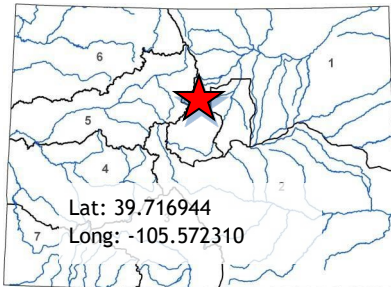
The project is an Identified Project & Processes project and aligns with the North Platte Basin Implementation Plan by maintaining and maximizing consumptive use of water permitted; restoring, maintaining, and modernizing critical water infrastructure; and promoting water rights protection.

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

Funding Recommendation: Staff recommends approval of up to \$265,500 from the North Platte Basin Account. Project approval is contingent upon the applicants' abilities to resolve issues and additional needs identified by staff.



## Water Supply Reserve Grant Application



LOCATION
<b>County:</b> Clear Creek
<b>Drainage Basin:</b> South Platte

DETAILS	
<b>Total Project Cost:</b>	\$550,000
<b>Total WSRF Grant Request:</b>	\$440,000
<b>South Platte Basin Account Request:</b>	\$55,000
<b>Statewide Account Request:</b>	\$385,000
<b>Recommended Amount:</b>	\$440,000
<b>Other CWCB Funding:</b>	\$0
<b>Other Funding Amount:</b>	\$0
<b>Applicant Match:</b>	\$110,000
<b>Project Type:</b> Construction/Implementation	
<b>Water Use Type:</b> Municipal	
<b>Statewide Category:</b> Aging Infrastructure	
<b>Measurable Result:</b> 500 feet of stream restored/protected; \$70,000 efficiency savings; 45-acre feet of efficiency savings; 9,500 Coloradans impacted by engagement activity & incorporating water saving actions into land use planning.	

Mattie Dam is a non-jurisdictional dam consisting of stacked boulders on Chicago Creek. The purpose of the dam is to provide enough head to divert water from Chicago Creek into an intake structure that delivers water into the Idaho Springs water treatment plant. The dam is an overflow structure so excess water in the creek flows over the top of the stacked boulders.

The dam was originally constructed with fines (believed to be sand & small bits of rock) in between the stacked boulders. The fines have gradually washed out and flow has migrated into the interstitial space between the stacked boulders. Due to a combination of low flows and water flowing through the stacked boulders, there is not sufficient head to divert water into the City's intake structure.

If approved, WSRF funding will be used to assist the applicant in the rehabilitation and repair of its existing physical infrastructure for dams that aim to strengthen and secure the city's raw water conveyance and diversion to the city's water treatment facility. Rehabilitation & repairs include: the demolition of the old dam; construction of a new concrete dam, wing wall, intake structure, spillway, and inlet structure; drain piping, civil site grading, and associated appurtenances for a complete and functional system.

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

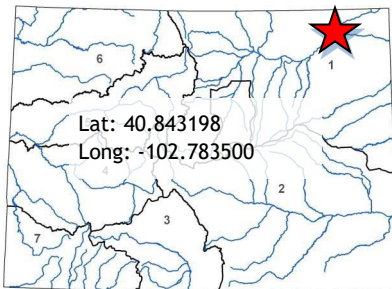


Funding Recommendation: Staff recommends approval of up to \$55,000 from the South Platte Basin Account and up to \$385,000 from the Statewide Account. Project approval is contingent upon the applicants' abilities to resolve issues and additional needs identified by staff.





## Water Supply Reserve Grant Application



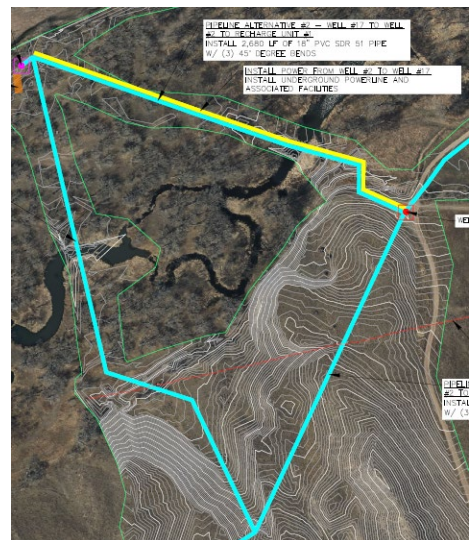
LOCATION
<b>County:</b> Logan
<b>Drainage Basin:</b> South Platte

DETAILS	
<b>Total WSRF Project Cost:</b>	\$749,634
<b>Total WSRF Grant Request:</b>	\$637,500
<b>South Platte Basin Account Request:</b>	\$75,000
<b>Statewide Account Request:</b>	\$562,500
<b>Recommended Amount:</b>	\$637,500
<b>Other CWCB Funding:</b>	\$0
<b>Other Funding Amount:</b>	\$0
<b>Applicant Match:</b>	\$112,134
<b>Project Type:</b> Design & Construction	
<b>Water Use Type:</b> Environmental	
<b>Statewide Category:</b> Drought Resiliency	
<b>Measurable Result:</b> 43-acre feet of new storage created; 1,940 feet of pipe/canal built or improved; 10 acres of preserved or restored habitat	

The intent of this project is to complete the construction of 17 wells and associated recharge basins decreed under the Tamarack Managed Groundwater Recharge Project that the applicant believes will support drought resiliency.

Installation of the last of 17 groundwater wells necessary for the Tamarack Managed Groundwater Recharge Project on Tamarack State Wildlife Area. Colorado has obligations under the Platte River Recovery Implementation Program (PRRIP) to re-time flows in the lower South Platte River within the state of Colorado when no river call is in effect; the purpose of this re-timing is to enhance flows through a stretch of the Platte River in Nebraska which has been designated as critical habitat for threatened and endangered species.

If approved, WSRF funds will assist with covering the costs of design and construction of the final well, associated pipelines, and two groundwater recharge ponds. The overall project cost is over \$1.2 million, but WSRF funds are only requested for the purchase of the pipeline and installation and a portion of the mobilization, thus reducing the “WSRF” total project cost to \$747,560.



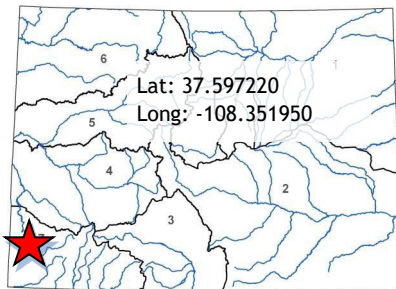
These groundwater recharge ponds will also increase the environmental and recreational value of the wildlife area, as they will provide critical habitat for over-wintering waterfowl and be equipped with features allowing for accessible hunting and wildlife viewing opportunities.

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

Funding Recommendation: Staff recommends approval of up to \$75,000 from the South Platte Basin Account and up to \$562,500 from the Statewide Account. Project approval is contingent upon the applicants' abilities to resolve issues and additional needs identified by staff.



## Water Supply Reserve Grant Application



LOCATION	
<b>County:</b>	Dolores
<b>Drainage Basin:</b>	South Platte

DETAILS	
<b>Total Project Cost:</b>	\$137,019
<b>Total WSRF Grant Request:</b>	\$100,000
<b>Southwest Basin Account Request:</b>	\$100,000
<b>Recommended Amount:</b>	\$100,000
<b>Other CWCB Funding:</b>	\$0
<b>Other Funding Amount:</b>	\$3,685
<b>Applicant Match:</b>	\$33,334
<b>Project Type:</b> Design & Construction	
<b>Major Water Use Type:</b> Environmental	
<b>Measurable Result:</b> 500 feet of stream restored or protected; 1 acre of restored or preserved habitat; Environmental and recreational benefits from improved trout habitat, bird habitat, and resiliency in the face of future flood and drought environments.	

The applicant is proposing to restore and enhance a 500-foot section of degraded riverbank and trout habitat in a meander along the West Fork of the Dolores River. The project will use process-based, natural channel design techniques to improve bank stability, riparian vegetation and salmonid habitat depth, overhead cover and side cover while preparing the river to reconnect to its floodplain.

Activities include regrading banks to a stable slope, improving the channel cross section shape to reduce shear stress on the bank and improving trout habitat using boulder structures and logs. The applicant states the banks and other disturbed areas will be revegetated with willows, shrubs, and grass seed to stabilize soils. The applicant believes that by incorporating self-sustaining pockets of greater depth, resting areas and feeding lanes with J-hooks, large woody debris, boulder clusters and overhanging vegetation, the project will recreate diverse trout habitat and cover.

The project aligns with the Southwest Basin Implementation Plan and meets the Goals D & E, meeting recreational and environmental water needs, and Goal F, promoting healthy watersheds.

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

Funding Recommendation: Staff recommends approval of up to \$100,000 from the Southwest Basin Account. Project approval is contingent upon the applicants' abilities to resolve issues and additional needs identified by staff.