



---

# COLORADO

**Colorado Water  
Conservation Board**  
*Department of Natural Resources*

## **DIRECTOR'S REPORT**

**January 2023**

Interstate Compact Compliance • Watershed Protection • Flood Planning & Mitigation • Stream & Lake Protection  
Water Project Loans & Grants • Water Modeling • Conservation & Drought Planning • Water Supply Planning



# COLORADO

## Colorado Water Conservation Board

Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: Rebecca Mitchell  
Anna Porter

DATE: January 23-24, 2023

SUBJECT: **Agenda Item 4b, January 2023 CWCB Board Meeting Director's Report**

---

### TABLE OF CONTENTS

Pg. 3 - STATEWIDE

- CWCB Small Feasibility Grant Fund Update
- Colorado Weather Modification Program
- Local Capacity and CWCB Technical Assistance Grants Program Update

Pg. 5 - COLORADO RIVER BASIN

- Colorado River Water Use

Pg. 5 - COLORADO RIVER BASIN

- Wild and Scenic Fund
- Upper Colorado Wild and Scenic Stakeholder Group

Pg. 7 - WATERSHED AND FLOOD UPDATES

- Wildfire Ready Watersheds – Statewide Susceptibility Analysis

Pg. 8- WATERSHED AND FLOOD UPDATES

- Wildfire Ready Watersheds – Grant Opportunities and Presentations

Pg. 9- WATERSHED AND FLOOD UPDATES

- Non-Point Source Alliance Group

- National Flood Insurance Program (NFIP) Community Assistance Program- State Support Services Element (CAP-SSSE) Coordinator

Pg. 10 - WATERSHED AND FLOOD UPDATES

- Watershed and Flood Protection Section Hires 8<sup>th</sup> Member

Pg. 11 - WATERSHED AND FLOOD UPDATES

- Durango Radar Headed to Construction
- Floodplain and Stormwater Criteria Manual: Phase 1 and Phase 2 Updates

Pg. 12 – WATERSHED AND FLOOD UPDATES

- The Letter of Map Revision (LOMR) Review Partners Program
- January 2023 Risk Mapping, Assessment and Planning (MAP) Project Updates by Major Water Basin

Pg. 19 – WATERSHED AND FLOOD UPDATES

- LiDAR Acquisition

Pg. 21 - WATER SUPPLY PLANNING SECTION UPDATES

- Water Supply Planning Section January 2023 Update
- Turf Replacement Program
- Water Supply Reserve Fund
- Colorado Water Loss Initiative

Pg. 22 - WATER SUPPLY PLANNING SECTION UPDATES

- Land/Water Planning Nexus
- Water Efficiency Plans in Review
- Old Director’s Reports and Board Member Calls – WSP Bullets

Pg. 23 - INSTREAM FLOW SECTION

- Instream Flow Workshop

Pg. 24 - LOAN PROGRAM ATTACHMENTS

- 01 - Water Project Loan Program Interest Rates
- 02 - Prequalified Project List and Loan Prospect Summary
- 03 - Design and Construction Status Report
- 04 - Loan Repayment Delinquency Report & Loan Financial Activity Report
- 05 – Small Project Loan Report

STATEWIDE

**CWCB SMALL FEASIBILITY STUDY GRANT FUND UPDATE:**

New grant applications approved:

1. None

Previously approved grants in FY22/23:

1. Platte Valley Irrigation Company – Equalization Reservoir (\$6,135)

Total funds approved for feasibility study grants in FY22/23: \$6,135

**Colorado Weather Modification Program** – In October of 2022, CWCB renewed weather modification permits for the Gunnison, North Platte Aerial, and Central Colorado Mountain River Basin programs. CWCB also issued a new permit for the St. Vrain and Left Hand Program, the first weather modification program on the Eastern Slope. The St. Vrain and Left Hand Program will initially have two remote generators supplied by the North American Weather Consultants. Colorado also received \$443,500 from the Lower Basin states for WY22-23 as part of the Agreement Establishing Programmatic Funding for the Colorado River for Colorado River Basin Weather Modification. During December for 2022 Colorado experienced some of the most prolific seeding on record. *(Andrew Rickert, Erik Skeie)*

**Local Capacity and CWCB Technical Assistance Grants Director’s Report – January 2023**

**LOCAL CAPACITY GRANTS:**

H.B. 22-1379 established \$2.5M for Local Capacity Grants. The following table summarizes Local Capacity Grant activity to date.

<u>Pending Applications</u>			
Applicant	Project	Total Project Budget	Grant Request Amount
Colorado Ag Water Alliance	Plateau Valley Pre-Development Work	\$70,000	\$52,500
Colorado Rio Grande Restoration Foundation	Rio Grande Basin Capacity to Secure Federal Project Funding	\$268,800	\$195,000
American Rivers	Wetland/Riparian Projects in the San Luis Valley	\$241,000	\$180,000
Total:		\$579,800	\$427,500

<b><u>Approved Applications</u></b>			
Applicant	Project	Total Project Budget	Grant Award
West Divide Water Conservancy District	Martin Reservoir Enlargement and Reconfiguration	\$315,906	\$118,464
Total:		\$315,906	\$118,464

**CWCB TECHNICAL ASSISTANCE GRANTS:**

H.B. 22-1379 established \$2.5M for CWCB Technical Assistance Grants. CWCB has contracted with Abt Associates to provide wide-ranging assistance to communities and water managers across Colorado as they develop federal grant applications for projects with a nexus to the Colorado Water Plan. CWCB is in the process of finalizing Technical Assistance Grant Program processes and practices and hopes to make the program available to the public later this winter.

## COLORADO RIVER BASIN

### COLORADO RIVER WATER USE—

2023 Colorado River Storage as of January 9, 2023			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1,045.11	7.334	28%
Lake Powell	3,524.62	5.523	24%
Total System Active Storage		19.073	33%
2023 Total Active Storage		22.011	37%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell (Forecasted Water Year 2023)		9.498	99%

\*Note MAF = million acre-feet

### Wild and Scenic Fund

There appears to be growing interest in the Wild and Scenic Fund. CWCB staff presented on the Fund to the South Platte Enhancement Board (SPEB) and fielded questions about what the Fund can be used for, who is eligible to apply, and how the selection process works. Staff addressed similar questions with members of the Lower Dolores Plan Working Group. That group’s Native Fish Monitoring and Recommendation Team anticipates applying in 2023 for approximately \$83,000 to support stakeholder group coordination, scientific monitoring efforts, and PIT tag analysis to better understand native fish movement patterns. CWCB staff also reached out to some entities involved in the early stages of forming a stakeholder group for upper reaches of the Crystal River. That group is forming to discuss whether a Wild and Scenic designation or alternative approach is more feasible. Staff do not anticipate a Wild and Scenic Fund request from that process unless the stakeholder group elects to pursue an alternative means of protecting the Outstandingly Remarkable Values (ORVs) on the Crystal River.

### Upper Colorado River Wild and Scenic Stakeholder Group—

The Upper Colorado River Wild and Scenic Stakeholder Group (SG) continues to hold regular meetings and all committees continue to work towards implementing the alternative management plan. At the January 20, 2023 meeting, the SG will vote on documents related to incorporation, but will not incorporate until after litigation is resolved for the Gross Reservoir Project. The SG will review the process followed for the failure to reach consensus to update values for an ORV Indicator and will vote on other minor corrections to the SG Plan. The SG will decide whether to approve and publish RFPs for drone, sediment surveys, and cross-section surveys, which are part of the channel maintenance monitoring plan. This is a large effort to

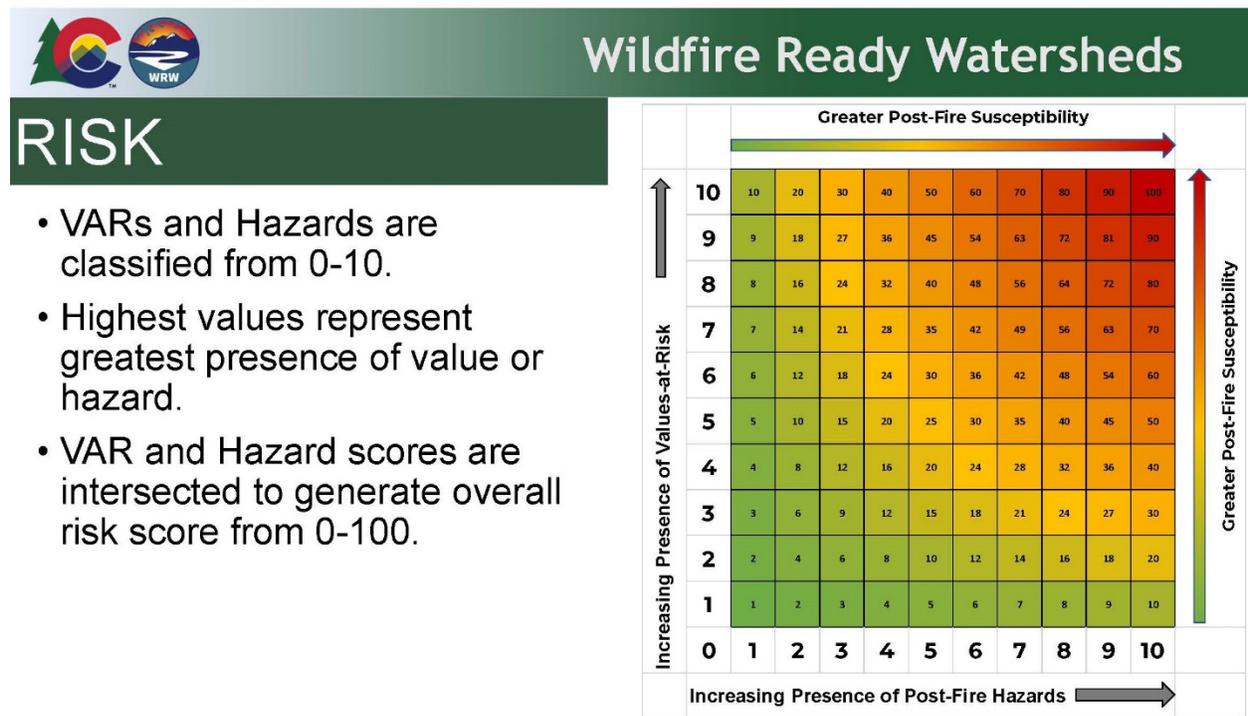
collect information on current conditions in 2023. These efforts will be repeated on 5-to-10-year intervals depending on the data type. The SG will hear updates from the Cooperative Measure Committee about potential water acquisitions and will see a draft budget for the 2023/2024 year. The SG will begin evaluating the 2022 ORV Indicators and Resource Guides, as defined by the alternative management plan to protect the ORVS, in late January with a final report due in June.

## WATERSHED AND FLOOD UPDATES

### Wildfire Ready Watersheds – Statewide Susceptibility Analysis

CWCB staff and technical consultants have finished the [statewide analysis](#) to determine the susceptibility of Colorado’s water resources, communities, and critical infrastructure to post-wildfire impacts. This effort relied on existing statewide datasets for wildfire burn severity, critical water supplies, populations at risk, and infrastructure. The identification of post-fire hazards used a combination of existing hazard mapping, geologic and topographic data, and other related information to determine potential impacts on values at risk. Collaboration with basin roundtables, state and federal agencies, universities, and other community partners was critical in determining the best, most applicable data and data analysis methods.

Several maps are available that display statewide post-wildfire susceptibility for [life and property](#), [water infrastructure](#), and [overall susceptibility](#) that combines both types of values at risk. The map legends shows values that represent increasing relative susceptibility of values at risk (VARs) to post-wildfire hazards. This is more easily explained in the graphic below.



- VARs and Hazards are classified from 0-10.
- Highest values represent greatest presence of value or hazard.
- VAR and Hazard scores are intersected to generate overall risk score from 0-100.

The Wildfire Ready Watersheds website also includes a statewide [post-fire susceptibility explorer](#) where interested parties can actively explore the data by turning on and off different values at risk and post wildfire hazard data layers. A single value at risk, e.g. reservoirs, can be explored with different hazards, e.g. debris flows or sedimentation, to better understand variables used to determine overall susceptibility.

It's important to understand how the data behind these maps were compiled, how it was modified or created, and the intended uses and limitations of these watershed-scale maps. Detailed descriptions of the mapping process are provided in a [Statewide Susceptibility Mapping Fact Sheet](#). The maps reflect risk which is a combination of a community's values or assets and the presence of post-fire hazards.

More information can be found at [wildfirereadywatersheds.com](http://wildfirereadywatersheds.com)

-Chris Sturm

### **Wildfire Ready Watersheds – Grant Opportunities and Presentations**

Over the past several months, our team has been trying to get the word out on CWCB's new effort, Wildfire Ready Watersheds (WRW) ([wildfirereadywatersheds.com](http://wildfirereadywatersheds.com)). We have been traveling around the State presenting to several watershed coalitions, wildfire collaboratives and local governments. In December we spoke to three regional groups at the Colorado Counties Inc. winter conference, where we were able to get in front of County Commissioners of over 40 counties. We have had follow up meetings and presentations with several interested parties. We are hoping to gain more interest in WRW and will continue outreach efforts.

Interested parties will be taking on a Wildfire Ready Action Plan (WRAP) ([wildfirereadywatersheds.com/actionplan](http://wildfirereadywatersheds.com/actionplan)). As a starting point for the WRAP's, there is a Template Scope of Work, which should help stakeholder groups decide on the level of detail, approach and required effort to successfully complete the planning effort. The goal is to enable stakeholders to engage and complete a robust watershed planning effort with great efficacy in order to identify and start on mitigation measures that increase resilience in their local watersheds.

With an allocation of American Rescue Plan Act (ARPA) funds, the Colorado Watershed Restoration Program will receive a special release of \$10M. These funds will be allocated towards WRW Framework planning efforts and projects that have already been identified through a robust watershed planning process. Grant applications will be available through the CWCB website and will be available starting January 11, 2023. This application will be a rolling application and applicants must have a registered SAM (The Federal Government's System for Award Management) account to be Federally compliant. These funds must be allocated within 2 years of the release date. We are happy and willing to meet with entities and their stakeholders to discuss any of this further.

(Steve Reeves)

## **Non-Point Source Alliance**

With the mission to collaboratively protect, restore, and improve Colorado's water quality with a focus on nonpoint source pollution management and integrated solutions, the Colorado Nonpoint Source Alliance (Alliance) is a volunteer group consisting of state and federal entities, including CDPHE, CWCB, and EPA, among others. The Alliance meets to address nonpoint source issues statewide as well as work with the Nonpoint Source Program at the WQCD in CDPHE to provide consultation on NPS planning activities and watershed implementation project application review. The Alliance provides technical input on implementation activities, watershed planning, education/outreach projects, and integrated funding opportunities. It serves the state of Colorado by providing technical assistance, practitioner point of view, and collaboration with NPS efforts from federal and state agencies and through the promotion of NPS activities to colleagues, grassroots programs, and the public. The Alliance interacts with watershed groups and other stakeholders as part of the NPS program's public outreach. Through synergy of financial and technical resources, the Alliance aims to see increased benefit in addressing nonpoint source pollution and advance best practices in nonpoint source pollution management through agency partnerships, scientifically sound strategies, shared resources (funding and technical), and building social capital across Colorado to deliver priority projects with tangible, meaningful results.

The latest round of Requests for Proposals from the CDPHE's nonpoint source funding opportunities has yielded five applications. In the past, many of these applications have coincided with Water Plan Grant projects and/or other CWCB grant programs. The collaboration among the Alliance allows CWCB staff the opportunity to give valuable input on these projects and planning efforts, furthering the objectives of the Colorado Water Plan and supporting multi-purpose projects that benefit water quality. The timing of these applications also typically coincides with the CWCB's first round of Water Plan Grant applications for the year, allowing for further collaboration in revising and/or combining scopes of work where possible to save state funds and/or leverage more match funding.

(Andrea Harbin Monahan)

## **National Flood Insurance Program (NFIP) Community Assistance Program-State Support Services Element (CAP-SSSE) Coordinator**

### ***CO CAP-SSSE Program Welcomes New Staff***

On December 5<sup>th</sup>, Melanie Swick began work as a full-time NFIP Specialist within CWCB's NFIP Community Assistance Program. Melanie will work with the NFIP Coordinator in the performance of all duties regarding the program to include providing local communities with technical and regulatory guidance, conducting local program reviews and audits, and promoting community resilience.

Melanie comes to us with degrees in geology and anthropology from St. Lawrence University and a Masters in geological sciences from Central Washington University. In addition to a faculty position with Truckee Meadows Community College, Melanie worked for the National Oceanic and Atmospheric Administration (NOAA) as an Educator and Environmental Steward performing environmental sustainability outreach and collaboration between local, state, tribal, and federal stakeholders in the NOAA Washington state office. Melanie is also an avid rock climber and runner.

The CWCB is proud to have Melanie on board and looks forward to her contributions to expand the capabilities and capacity of the CAP-SSSE program to provide for Colorado's local communities.

***NFIP Tiered State Framework (TSF)***

2023 marks the 2<sup>nd</sup> cycle of FEMA's evaluation of participating state's CAP-SSSE programs using the Tiered State Framework (TSF) process. Initiated in 2019 and conducted every 3 years, the TSF assesses a state's program across four categories – Capacity: the resources & authority to complete the work; Capability: the ability and expertise to support community implementation of the NFIP; Performance Measures: demonstrated history of performing at or above program expectations; Planning & Coordination: demonstrated coordination across agencies to ensure floodplain management is integrated into state priorities. Following multiple levels of state and FEMA regional & HQ evaluation and review, state programs are assigned one of three benchmarks: Foundational, Proficient, or Advanced. FEMA uses the TSF assessments to inform the program's scope of work (SOW) development and award considerations for future fiscal year performance periods by implementing requirements and incentives (including potential funding) driven by the state's tier assignment. The 2019 TSF cycle saw the State of Colorado achieve the Proficient level benchmark.

This office has submitted to FEMA Region 8 all requested evidence for the 2023 TSF cycle by the required deadline. The Region will review the submission in January and work with the state to clarify any potential deficits. Following this review, the evidence will be validated at the national level with preliminary findings forwarded to the state on February 2<sup>nd</sup>. A reconciliation period is planned for mid-February with final tier determinations made on February 22<sup>nd</sup>. Current evidence indicates the state will retain its Proficient benchmark rating.

(Doug Mahan)

**Watershed and Flood Protection Section Hires 8<sup>th</sup> Member**

The Watershed and Flood Protection Section has expanded again and recently completed the hire of its 8<sup>th</sup> member. The Section is pleased to welcome Melanie Swick to its ranks. Melanie is filling the newly created position that will work with Doug Mahan on administering the National Flood Insurance Program in the State of Colorado. This recently authorized new position will be a great help to Doug, as this program has gotten much bigger in recent years. The position is 75% funded by FEMA and 25% funded by CWCB.

Melanie has a technical background that includes geology and geomorphology, and climate change. She has taught college courses in the State of Washington. Outside of work, she has great interests in the outdoors. She loves to rock climb, and in her interview, she referred to a 5.7 climb as "not very hard".

(Kevin Houck)

## **Durango Radar Headed to Construction**

The long-awaited weather radar for the Four Corners area is nearing construction and is expected to be online in 2023. A vendor has been contracted, and construction is expected to begin when winter conditions recede.

Local stakeholders have been looking to fill the radar gap for years. Following the 416 Fire in 2018, the Colorado Department of Local Affairs (DOLA) issued a grant to La Plata County to lead the effort to site and install a gap-filling weather radar. Numerous delays occurred due to difficulties in selecting an appropriate site. Eventually, stakeholders settled on the placement of the radar on a large tower at the Durango airport after gradually removing other possible locations for various reasons.

This effort follows the successful installation of the San Luis Valley gap filling radar, which was implemented at the Alamosa Airport in 2019.

(Kevin Houck)

## **Floodplain and Stormwater Criteria Manual: Phase 1 and Phase 2 updates**

The Watershed and Flood Protection section has been undertaking a much-needed update to the Floodplain and Stormwater Criteria Manual. This update has been broken into two phases to gather subject matter experts for various topics. Phase 1 has concluded the technical steering committee engagement, draft writing, revisions, and is now going through a Gold Team review prior to going out for a public comment period. The dates for public comment are not set but will be made available as soon as possible. The Phase 2 technical steering committee has been identified and has started to meet about individual chapters for the start of the update and reorganization process. Phase 1 was heavily focused on Hydrologic Modeling, Floodplain Mapping and Permitting Requirements. Phase 2 will cover chapters focused on Law, Mitigation, Hydraulic Design, Stormwater Drainage and Water Quality. Our steering committees are made up of local experts across the state who have graciously volunteered upwards of 40 hours of their time to ensure the State and the CWCB are putting out a robust and useful product. The Attorney General's office has been working with us to provide guidance on the legalities of CWCB's jurisdictional authority and to ensure our Principals and Law chapter is providing the correct amount of legal information for a criteria manual. Phase 2 will also go through a writing phase, editing phase, final comments, Gold Team review and then public comment period prior to the finalization of the entire document.

(Steve Reeves)

## The Letter of Map Revision (LOMR) Review Partners Program

The CWCB LOMR Review Partners Program continues to work with applicants, communities, and the Federal Emergency Management Agency (FEMA) to answer questions, provide guidance, and work through complex issues for both ongoing and upcoming map revision requests. CWCB processes and makes recommendations for revision requests on behalf of FEMA to modify flood hazard information on Flood Insurance Rate Maps (FIRMs). FEMA determines if the revision request will be approved or become effective. We have 62 cases in process with ongoing cases in Boulder, Clear Creek, Chaffee, Douglas, El Paso, Elbert, Garfield, Gilpin, Grand, Jefferson, Larimer, Montrose, Prowers, Pueblo, San Miguel, Sedgwick, Summit, and Weld Counties.

---

### January 2023 Risk Mapping, Assessment and Planning (MAP) Project Updates by Major Water Basin

CWCB is FEMA's Cooperating Technical Partner (CTP) for the state while Mile High Flood District (MHFD) is the CTP within their service area (Denver Metropolitan Area). CWCB provides support for and coordination with MHFD on projects and data sharing for communities that extend across common boundaries.

**North Platte Basin** – No flood hazard studies are being conducted in this area.

**South Platte Basin** – Adams, Arapahoe, Boulder, Sedgwick, Larimer, Lincoln, Logan, Morgan, Park, Phillips, and Weld Counties have ongoing Risk MAP studies. Ongoing CWCB studies within the South Platte basin are as follows:

- Park County Phase 2: Phase 2 (Data Development) is underway. Crossing structure and stream cross section survey occurred in November/December 2022.
- Logan County: BLE/Discovery review comments have been addressed and the contractor submitted deliverables to FEMA. Information received from the Communities during the Base Level Engineering (BLE)/Discovery process (Phase 1) are being used to scope the Data Development process (Phase 2). A Phase 2 kickoff meeting is expected to occur in the coming weeks.
- Adams and Arapahoe Counties: CWCB is developing draft countywide BLE data for both counties. Portions of these counties are within both the CWCB and MHFD CTP service areas. The draft BLE modeling and mapping are complete and CWCB has been coordinating with MHFD to hold virtual meetings with communities included in the BLE model footprints to discuss the draft results. We will meet with the Adams communities on 1/18 and with Arapahoe communities on

1/26. Draft BLE data for portions of the counties outside the MHFD will continue through the Risk MAP process being implemented in other counties across the state. Draft BLE data developed within the Denver Metropolitan Area will not be developed further by CWCB, but will be provided to MHFD for informational purposes and any future use. MHFD already has effective detailed data for the majority of their service area. This draft BLE data will help them verify effective older approximate flood hazard data, and identify where flood hazard data might be developed for previously unstudied flooding sources. BLE data does not replace effective model-backed flood hazard information. MHFD will have the base BLE models, and may choose to leverage any of this data in the future.

- Morgan County BLE: We received comments from the communities on the Discovery/Phase 1 products and met with Town of Hillrose on 10/21/22 to address their concerns in detail, and will have additional follow-up in January. We have submitted the final Discovery packet to FEMA and will be scheduling a Phase 2 kickoff meeting in the coming weeks.
- Weld Countywide: A countywide BLE/Discovery effort will be starting soon for flooding sources that weren't recently updated with the CHAMP project (summarized below). A kickoff meeting with communities will be held in the next few months.
- Colorado Hazard Mapping Program (CHAMP) Physical Map Revisions (PMRs): The CWCB was able to leverage funds from FEMA to continue moving several CHAMP studies through the FEMA regulatory process. CHAMP involved analyzing streams across various counties across Colorado and includes over 200 FIRM panel updates. The remaining counties being completed within the South Platte Basin include Boulder, Weld, and Larimer.
  - o Boulder County PMR: This PMR is still on hold. The National Institute of Building Science (NIBS) has created a Scientific Review Panel (SRP) to consider the supporting documentation associated with an outstanding comment (received during due process). A meeting with the SRP was held on September 28, 2022. A recommendation from the SRP regarding further action was delivered to us in late 2022. We will be revising a portion of the hydraulic analysis along Left Hand Creek through the area of concern and will need to go through another round of review, approvals, etc. We are waiting for a decision from FEMA on whether other portions of the County PMR may move ahead while the revisions are being completed on the Left Hand Creek segment. Otherwise, further delays before the issuance of the Letter of Final Determination (LFD) will take place will occur.
  - o Weld County PMR: The final PMR products were submitted in August, but the previously anticipated LFD date of October 19, 2022 has been delayed as CWCB awaits FEMA's direction on outstanding issues. A response is expected in the next few weeks. The revised Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs) will go effective six months after the LFD has been issued. We are still waiting on FEMA's final decision regarding splitting certain panels for this project so the countywide study can move forward

and the remaining issues near Longmont can be addressed via a separate Letter of Map Revision (LOMR).

- Larimer County PMR: Due process for this project has ended and there were several comments/appeals received. CWCB is currently coordinating with FEMA on the remaining few comment/appeal resolutions.
- Phillips County Phases 2-3: The Community Coordination Officer (CCO) meeting and Public Meeting were held in the City of Holyoke on October 19, 2022. The 90-day appeals/comment period is expected to start in the next month or two after publication takes place in the Federal Register.
- Phillips Countywide: The contractor is working on countywide BLE. We are anticipating a Discovery meeting to be held with communities in the coming weeks.
- Sedgwick County: A countywide BLE/Discovery effort will be kicking off for flooding sources that weren't recently updated with the CHAMP project. A kickoff meeting with communities will be scheduled in the near future.

**Colorado Basin** – Eagle, Summit, and Garfield Counties have ongoing Risk MAP studies:

- Eagle County Physical Map Revision Phases 2-3: The revised Roaring Fork River hydraulic analysis and floodplain mapping have been approved by FEMA. A revised preliminary FIRM distribution was required to provide communities the opportunity to formally review the revisions over a 30 day period, and this revised preliminary distribution was sent out on December 29, 2022.
- Garfield County Phase 2-3: Survey information has been collected for all of the accessible properties. The contractor and community are working to gain access to a few remaining properties. FEMA approved a change in the hydrology methodology to account for the high amount of snowfall runoff data points that appear in the gage data for this watershed.
- Summit County BLE/Phase 2: We are working on acquiring the crossing structure and stream cross section survey data as soon as possible and have completed collection for some areas. Others will be surveyed after snowmelt likely in the spring of this year. Hydrologic model development is underway.

**Gunnison Basin** – Delta, Gunnison, and Ouray Counties have ongoing studies:

- Delta County Phase 2-3. The contractor discovered an issue with the hydraulic modeling and has revised the models. Preliminary products will now be issued in the next few months. Snowmelt and post-fire technical analyses have been completed as non-regulatory products, and results have been distributed to communities. Minnesota Creek remapping may be an option in order

to provide continuous flood hazard data from Minnesota Creek to its confluence with the North Fork of the Gunnison River.

- Ouray County PMR: The start of the mandatory 90-day appeal and comment period begun on December 29, 2022. Appeals and comments are submitted through the community to FEMA. All comment or appeal submittals received will be reviewed by FEMA. Once any valid comments and appeals have been resolved, the project will move toward the issuance of the LFD.
- Ouray Countywide BLE: A countywide BLE/Discovery effort will be starting soon. A kickoff meeting with communities will be scheduled in the coming months.
- Gunnison County PMR: Hydraulic modeling had been approved by FEMA; however, the communities requested consideration of a non-certified embankment/dam structure that will impact the hydraulic results. Floodplain mapping submittals will take place once there is a path forward regarding this existing berm.
- Gunnison Countywide BLE: We will hold a Phase 2 kickoff meeting with communities on 1/17/23 to discuss the next steps in the Risk Map process and go over the detailed study reaches proposed.

**Rio Grande Basin** – Alamosa, Costilla, and Mineral Counties have ongoing studies:

- Alamosa County BLE: Communities have reviewed materials from the project kickoff meeting. Next steps include developing BLE and draft mapping data for the Phase 1 study which we expect to be ready later this year.
- Costilla County Phase 2-3: Our Consultant is using the new high-resolution LiDAR data from the 2020 San Luis Valley acquisition to develop revised flood hazard information for remaining segments of effective flood hazard areas. A revised preliminary distribution of the updated FIRM panels will take place before the project moves forward. Generating the updated FIRM panels are expected to take several months.
- Mineral County/City of Creede LOMR: The City of Creede Willow Creek LOMR has been fully approved. This LOMR supports certification of the existing Willow Creek Levee and allows flood hazard mapping to reflect the levee providing flood protection for portions of the community. Technical information from this LOMR will update the effective flood hazard data through the City of Creede. Mineral County preliminary products are now being developed, with an anticipated distribution date of January 13, 2023.

**Arkansas Basin** – Lake, Chaffee, Custer, Fremont, Pueblo, El Paso, Huerfano, Las Animas, Otero, Bent, Prowers, Baca, Crowley, and Kiowa Counties have ongoing studies:

- Lake County Phase 2: Hydraulic modeling along Georgia Gulch is moving forward. The inability to obtain field survey information for the existing buried culvert required estimation of a culvert size for revised hydraulic modeling. Next steps include submitting the hydraulics to FEMA for

approval and progressing with the floodplain mapping. We drafted a shallow flooding memorandum for FEMA's review and approval, which should go through in the coming weeks.

- Chaffee County Phase 2: Field survey and additional hydrology are underway for several streams of interest to communities. Results will allow these areas to catch up with ongoing hydrology and hydraulic modeling for the countywide study. CWCB held a Flood Risk Survey Workshop in Buena Vista on September 7, 2022 at the request of the county. This workshop can be used in other counties as well to help educate local surveyors, engineers, community staff and others on the specific FEMA requirements for developing elevation certificates and other floodplain modeling and mapping products.
- Custer County BLE: Phase 2 Kickoff materials are being prepared for an anticipated meeting in the coming months, once the new task order has been issued.
- Pueblo County BLE: We held a Phase 2 kickoff meeting on 12/13/22 to discuss the next steps in the Risk Map process and review the detailed study reaches for the project.
- Huerfano County Phase 2: Our Contractor is revising the BLE hydrology and hydraulic analyses based on a modified approach approved by FEMA. We are now working on detailed hydraulic modeling for the Phase 2 scoped streams.
- Bent County: This project is on hold as CWCB and FEMA allow the levee sponsors to work towards completing the Arkansas River South Levee analysis and certification. The existing levee has previously provided flood protection to the City of Las Animas and portions of unincorporated Bent County. The levee sponsors have retained a contractor to obtain certification and accreditation for the levee to be reflected as providing flood protection in the Bent Countywide Risk MAP study. CWCB, FEMA, and USACE will continue to coordinate and support the communities and levee sponsors as progress toward levee certification continues. CWCB has provided state funding to develop an Emergency Action Plan and Interior Drainage Analysis for this levee. Both of these products will be included by the levee sponsors as part of the levee certification package.
- Otero County: The floodplain mapping along the Arkansas River was approved in mid-November and we're working on drafting the Flood Risk Database before holding the Resilience Meeting with the communities.
- El Paso Phase 2 and Templeton Gap (T-Gap) levee work: Data Development continues for updated hydrologic data and hydraulic modeling for the El Paso countywide Risk MAP study. CWCB is working with the communities to review, leverage, and incorporate (where possible) hydrology updates for updated hydrology on a number of flooding sources. The study will include results from the Templeton Gap pre-levee analysis. Our contractor started work on the Levee Analysis and Mapping Procedure (LAMP) process for the T-Gap levee, and we expect to hold a meeting with the communities and stakeholders in the coming weeks.

- Las Animas County Phase 2: CWCB has been working with the communities and the contractor to determine the scope of additional detailed hydraulic analyses and mapping (Zone AE) required for additional flooding sources. We will be repurposing FEMA FY22 grant funds originally identified for Phase 3/4 work to help cover these additional Phase 2 costs.
- Fremont County Phase 2: We are currently developing the detailed hydraulic models needed for the Phase 2 analysis and mapping of specific flooding sources.
- Prowers County Phase 2: Contractor working on hydrology and hydraulics for the additional detailed stream miles requested by communities.
- Towns of Granada/Holly/Lamar (Prowers County) Pre-Levee assessments: Our contractor has finished the levee evaluation and is assisting the communities as they work with USACE and others on actions toward certification of their existing levee systems. CWCB has provided state funding for the Interior Drainage Analyses, and Emergency Action Plans for all three communities. These products will contribute to information needed for any future levee certification packages. Our contractor is also developing a FEMA Levee Analysis and Mapping Procedure (LAMP) plan for the City of Lamar levee. We will be meeting with communities to share results of these efforts in the coming months.
- Kiowa County: A countywide BLE/Discovery effort will be initiated for all flooding sources within the county. A kickoff meeting with communities will be scheduled in the near future.
- Baca County: A countywide BLE/Discovery effort will be initiated for all flooding sources within the county. A kickoff meeting with communities will be scheduled in the near future.
- Crowley County: A countywide BLE/Discovery effort will be initiated for all flooding sources within the county. A kickoff meeting with communities will be scheduled in the near future.

**Yampa/White Basins** –Moffat County has an ongoing Risk Map study:

- Moffat County: Hydraulic models for specific flooding sources have been approved by FEMA. A virtual meeting will be scheduled to discuss mapping for Fortification Creek through the City of Craig in the coming weeks, once the shallow flooding memorandum is approved by FEMA.

**Dolores/San Juan Basins** – La Plata, Dolores, Montezuma, Archuleta, and San Juan Counties, along with the Southern Ute Indian Tribe (SUIT) and Ute Mountain Ute (UMU) Tribe, have ongoing studies.

- Animas Watershed Phases 3-4 (La Plata, San Juan, Archuleta, and the SUIT): The LFD for San Juan County was issued on November 9, 2022. Resolution of comments and appeals in La Plata County are being incorporated into the flood risk products and we are removing the preliminary floodplain mapping from the tribal lands in Archuleta County and La Plata County. This flood hazard information will be provided to the SUIT for their use. A revised preliminary dataset for

La Plata County will be issued soon. Communities will then have 30 days to provide any comments on the revised preliminary products before continuing the process to reach LFD.

- Southwest Colorado (Montezuma, Dolores, San Juan, La Plata, Archuleta, Hinsdale, Mineral Counties and the SUIT and UMU Tribes) BLE: Our Contractor submitted BLE and the Discovery deliverables for FEMA review and approval. Due to the large size of the submittal information, we expect a few more weeks of review time. The scope of work will be finalized for detailed study areas once the Phase 2 kickoff meeting takes place in the next few months.

**Multi-Basin Risk Map Projects:** Elbert, Mesa, Hinsdale, Lincoln, Saguache, San Miguel, and Teller Counties have ongoing studies that span multiple water basins.

- Elbert County: Surveying of structures and detailed study areas took place in late 2022. The contractor will also be working on detailed hydrology for the scoped Phase 2 flooding sources.
- Mesa County Phase 2: We are moving ahead with the study using best data available where survey access was not permitted due to limited FEMA funding and grant timeline. Updating of hydraulic modeling is underway for areas outside of the Colorado River.
- Flood Risk Information System (Mesa County): Based on additional staff input, minor modifications are being performed on the draft website for this Flood Risk Information System (FRIS) pilot project. CWCB and our Contractor will meet with communities in Mesa County to showcase the site and obtain additional input. Once community feedback has been adequately addressed, the site will go live.
- Hinsdale County/Lake City Partial Countywide: We are awaiting publication in the Federal Register. Once that occurs, the 90-day appeal period will begin, allowing the public to provide technical data or comments to dispute the mapping shown in the preliminary products.
- Hinsdale Countywide BLE: The contractor is preparing a scope and fee for streams to be analyzed in detail during Phase 2. A kickoff meeting for Phase 2 is anticipated in the coming months.
- Teller County Phase 2: CWCB's contractor is re-evaluating a few flooding sources to address hydrology discontinuities at the boundaries of neighboring counties. Hydrology results will be shared with affected communities. The hydrology modifications will require some revisions to the Discovery products (Phase 1). Once hydrology issues are addressed, the hydraulic modeling will be finalized and submitted to FEMA for review and approval.
- San Miguel Countywide BLE: A countywide BLE/Discovery effort will be starting soon. A kickoff meeting with communities will be scheduled in the coming months.
- Lincoln Countywide: A countywide BLE/Discovery effort has begun for flooding sources not included with the ongoing PMR revisions (summarized below). The contractor is working on

developing the terrain model and will move on to BLE development. A kickoff meeting with communities will be held in the coming weeks.

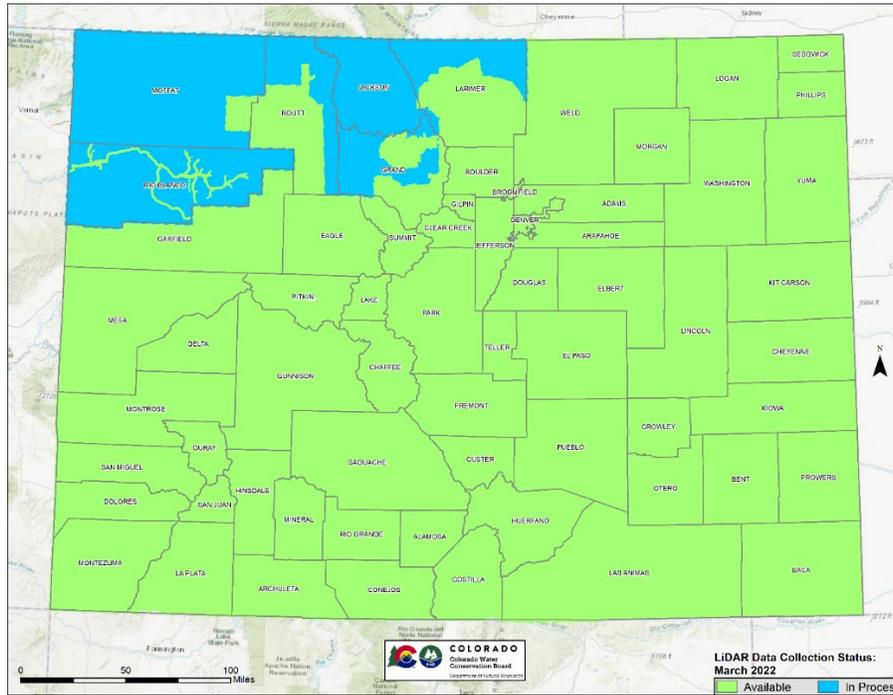
- Colorado Hazard Mapping Program (CHAMP) Phase 3: This set of studies originated from the Colorado Senate Bill (15-245) which was put forth as a response to the destructive 2013 floods. This bill released funding to better assess and map various flood related hazards, including debris flows and erosion, throughout Colorado. As such, CWCB funded a paper inventory reduction effort through various counties across the state that were still using old paper floodplain maps and needed updated flood risk information, especially if they were affected by these floods and the local conditions were clearly changed. Several county projects that were scoped as part of this CHAMP effort are still ongoing, including the ones listed below.
  - o San Miguel County: CWCB staff met with Town of Telluride staff for a field visit and tour of the Telluride Valley Floor Restoration project along the San Miguel River. This restoration project completely re-aligned the San Miguel River to its historic location through open space areas west of the Town. Due to the dramatic changes along the San Miguel River, the PMR study has been on hold awaiting project data from the Town. A LOMR for this project being processed for FEMA. Construction of the restoration project took place while the San Miguel PMR hydraulic analysis and draft mapping along the river corridor was underway, and changes were not reflected in the draft mapping products. Once the LOMR has been issued, the project data will be incorporated into the San Miguel River hydraulic analysis and mapping for the PMR. CWCB will coordinate with San Miguel County communities to wrap up the Data Development (Phase 2) before moving forward with development of preliminary products (Phase 3).
  - o Lincoln County Phases 2-3: Preliminary products were distributed on September 29, 2022. The CCO meeting and Public Meeting took place on 12/5/22 and we're moving forward with the Federal Register publication that will kick start the appeal process so communities have 90-days to review/comment/appeal on the data generated to date.
  - o Saguache County: Floodplain mapping has been approved by FEMA for all areas submitted outside of the Town of Crestone. The town has significant alluvial fan considerations that will need to be addressed separately. Once a path forward has been determined, hydraulic analysis and flood hazard mapping for the Town will resume. We are working on generating flood risk products for the Resilience meeting to take place in the coming weeks.

**LiDAR acquisition:** CWCB received \$3.4 million in a FEMA FY16 grant and \$2.2 million in FY18 for LiDAR acquisition in Colorado for future floodplain mapping and hazard assessment projects. The USGS is completing the last few areas in northwest Colorado that were missing updated LiDAR.

- LiDAR collection tasks that were recently completed include the Eastern Colorado Plains data collection, led by the USGS, the DRCOG LiDAR for the Denver Metropolitan Area, and the San

Luis Valley/San Miguel/Pitkin areas. The remaining LiDAR acquisition for the Northwest CO region is currently getting uploaded the final deliverables for this project area to The National Map and we're waiting for complete datasets through the coming weeks.

Below is the most recent status map for LiDAR data acquired in Colorado (No updates since March 2022):



*(Terri Fead and Marta Blanco Castano)*

## WATER SUPPLY PLANNING SECTION UPDATES

### Water Plan Finalization

The Water Supply Planning Section has been working over the last couple months and through the holidays to consolidate and incorporate all edits to the final 2023 Colorado Water Plan and to finalize the 2023 Water Plan's Executive Summary. Special thanks to our contractor team of Brown & Caldwell, led by Matt Lindberg, for their diligence and hard work through the holidays getting the plan to the finish line. CWCB is also excited to host a Water Plan Launch Celebration Event on January 24th. Special thanks to Elizabeth Schoder and Viola Bralish for planning this event. For more information or to RSVP visit: <https://www.eventbrite.com/e/colorado-water-plan-launch-celebration-tickets-464087557377>

### Turf Replacement Program

CWCB staff have been developing the CWCB's state turf replacement program. The program works to support existing turf replacement programs across the state and develop turf replacement programs in parts of Colorado where no such program exists. CWCB staff anticipate the first round of program funds will be available in April 2023 following an application and contracting process, with an additional funding round in the fall that can be used in 2024. Eligible applicants can receive up to \$25K per funding cycle provided they have adequate matching funds and an existing program that meets state specifications. Entities looking to develop new programs for their organization or who are looking to programmatically support the development of programs in multiple jurisdictions will apply using the same portal, with some additional steps. CWCB staff are finalizing the application and a story map to help applicants navigate the process.

(Russ Sands, Kat Weismiller, Sam Stein, Kevin Reidy)

### WSRF Updates

Staff have been working to clarify elements of the revised WSRF Guidelines and message that information to the roundtables. The goal of this is to clarify the intent of the 10% basin contribution language. We are working on clarifying the guidelines and creating some tools to help project proponents navigate all the different CWCB programs.

### CO WATER LOSS INITIATIVE:

Phase II of the Colorado Water Loss Initiative officially kicked off over a year ago on September 1, 2021 with open registration. The advisory group was reassembled and added the Colorado Rural Water Association as well as folks from DOLA. At present, we have 75 utilities registered for the program. Many of the new learner teams have signed up for technical one-on-one calls to go over water audit results while the advanced group has been sent recommendations on what they should be focusing on in terms of direct technical assistance. The last advanced group workshops took place November 8-9, 2022 and December 16-17, 2022. The program is officially fully moving into Direct Technical Assistance. With the start of the new year, Kevin and the consulting team are beginning to form a statewide water loss committee to help institutionalize water loss control and management across the state. Additionally, Denver has been chosen as the site for the next North American Water Loss conference on December 5-7, 2023.

[www.coloradowaterloss.org](http://www.coloradowaterloss.org)

### Land and Water Planning Nexxus

The Water and Land Use Planning Alliance's next meeting will be February 22, 2023. Kat Weismiller will present to the group on the 2023 Colorado Water Plan. Kevin has been working with Scott on the work plan and communications plan for the Alliance and other crossover projects between DOLA and CWCB. Scott and Kevin will both continue working with the planning group for the AWRA Specialty Conference for water and land use planning taking place in Denver in July 2023.

Kevin has been part of the core planning team for the Denver One Water Plan funded by a water plan grant. The team consists of various Denver city departments, Mile High Flood, Denver Water, Metro Wastewater and the Greenway Foundation. The core group (now called OWLS, One Water Leaders) have begun implementation phase and are meeting regularly. With the increasing interest in turf replacement the group has chosen to focus on sustainable landscaping as it relates to One Water Planning. Kevin is working to ensure these efforts align with broader turf replacement movement as well as lining up with the water plan. <https://www.denvergov.org/Government/Agencies-Departments-Offices/Department-of-Transportation-and-Infrastructure/Programs-Services/One-Water>

### Water Efficiency Plans in review

Colorado Springs Utilities

Denver Water

City of Aspen

## INSTREAM FLOW

### Instream Flow Workshop

Each year, the CWCB's Stream and Lake Protection Section hosts an annual workshop that provides state and federal agencies and other interested persons an opportunity to recommend certain stream reaches or natural lakes for inclusion in the State's Instream Flow (ISF) Program. The entities that make ISF recommendations will present information regarding the location of new recommendations as well as preliminary data in support of the recommendation. There will be an opportunity for interested stakeholders to provide input and ask questions. CWCB staff will provide an overview of the ISF Program and the new appropriation process, along with an update of pending ISF recommendations from previous years.

The second half of this workshop will focus on a partnership between the Colorado Water Trust (Water Trust), and the Colorado Water Conservation Board (CWCB) on a strategic approach to ISF water acquisitions to preserve or improve the natural environment. This Request for Water Acquisitions Process is intended to accomplish several goals: to proactively invite voluntary water right offers for ISF use from willing water rights owners; to provide a user-friendly mechanism for water rights owners to investigate working with CWCB and the Water Trust on ISF acquisitions; to streamline transaction processes and utilization of resources; to facilitate implementation of Colorado's Water Plan objectives; and to add flows to river segments in need while coordinating with agricultural and other uses. Topics covered will include the timeline, available stream restoration and transaction tools, and information a water right owner needs to provide to initiate participation in the Process.

Date: January 31, 2023

Time: 4:00-6:00 PM

Location: Virtual

Registration: [https://cwcb\\_instream\\_flow\\_workshop.eventbrite.com](https://cwcb_instream_flow_workshop.eventbrite.com)



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

1313 Sherman Street  
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:** Kirk Russell, P.E., Finance Section Chief

**Board Meeting:** January 23-24, 2023 Board Meeting

**Directors Report:** Water Project Loans  
Interest Rates

---

### Introduction

The CWCB establishes interest rates bi-monthly for the Water Project Loan Program (per Financial Policy #7).

The current rates for a 30-year term are as follows:

- 1.80% - Agricultural
- 2.55% - Low-income Municipal
- 3.00% - Middle-income Municipal
- 3.40% - High-income Municipal
- 6.00% - Commercial
- 2.00% - Hydroelectric

The standard loan term is 30 years. Rates are reduced by 0.25% for 20-year loans, and by 0.60% for 10-year loans. Rates are increased by 0.25% for 40-year loans.

The rates can also be found on the CWCB web site under the “Loans and Grants” tab. These rates will be applicable for loans presented at this Board meeting.





**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:** Matthew Stearns, P.E., Project Development

**DATE:** January 23-24, 2023 Board Meeting

**DIRECTORS REPORT:** Water Project Loan Program  
Prequalified Project List and Loan Prospect Summary

---

The Finance Section compiles a list of prequalified projects for the Water Project Loan Program. In order to be included on this list, potential borrowers must submit a Loan Application and three years of financial statements to the CWCB staff. In addition, Borrowers requesting to be placed on the Prequalification Project List have a defined project, have performed preliminary engineering, and have a reasonable estimate of the project costs.

Projects on this list fit the initial criteria of the Water Project Loan Program; however, the list does not constitute loan approval. In order to receive a loan, borrowers must additionally submit a completed Loan Feasibility Study for review by CWCB staff. Staff will then prepare a recommendation to the Board for approval at a future CWCB meeting. Projects will remain on this list for one year from the date of the application or until Board approval of a loan.



**Prequalified Project List**

<b>BORROWER</b>	<b>PROJECT NAME</b>	<b>APPLICATION DATE</b>	<b>BASIN</b>	<b>PROJECT DESCRIPTION</b>	<b>PROJECT COST/LOAN AMOUNT</b>
Previously Approved Applications					
Sustainable Water Augmentation Group, Inc.	Water Rights Purchase	July 1, 2022	Rio Grande	The Corporation is purchasing two irrigated farm/ranch properties where 39 center pivot irrigation circles will be retired, and surface water rights will be used to replace stream depletions to the Rio Grande caused by groundwater withdrawals of member wells.	\$39,200,000
Total					\$39,200,000



The Finance Section also compiles a list of potential borrowers/projects for the Water Project Loan Program. This list represents borrowers that have contacted the CWCB about a potential need for funding but have not submitted a loan application and loan feasibility study. Projects are also identified if they have a Health/Safety (\*), Economic Impact (†), or Federal Match (‡) component.

BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
<b>South Platte</b>		
NISP Participants	NISP	\$750,000,000
Woods Lake Mutual Ditch Company	Culvert Replacement	\$150,000
Town of Kersey	Water Line Project	TBD
Riverside Reservoir and Land Company	Ditch Rehabilitation	\$250,000
Town of Bennett	Raw Water Tank	\$500,000
Evergreen Metro District	Evergreen Dam Enlargement	TBD
Left Hand Water District	Dry Creek Reservoir	TBD
Shawnee Water Consumers Association	Reservoir Rehabilitation	\$200,000
Boulder and White Rock Ditch & Res. Co.	Reservoir Dredging	TBD
Western Mutual Ditch Company	Reservoir Dredging	TBD
Bergen Ditch and Reservoir Company (*)	Reservoir Rehabilitation	TBD
Louviers Water and Sanitation District	Regional Connection	TBD
City of Fort Collins	Irrigation Ditch Piping	\$20,000,000
City of Fort Collins	Halligan Reservoir Enlargement	\$120,000,000
Northern Colorado WCD	Windy Gap Firming (increase)	\$40,000,000
SPROWG Participants	SPROWG	\$1,800,000,000
City of Milliken (*)	Hillsboro Dam Rehabilitation	\$15,000,000
Colorado Parks and Wildlife (*)	Tarryall Dam Rehabilitation	\$5,000,000
Standley Lake Operating Committee	Reservoir Expansion	TBD
Switzerland Park HOA	Reservoir Rehabilitation	\$300,000
Danna Ortiz	Knouth Reservoir Rehabilitation	\$3,000,000
Loup Reservoir Company	Loup Reservoir Rehabilitation	TBD
Arthur Irrigation Company	Ditch Rehabilitation	TBD
Handy Ditch Company	Welch Reservoir Rehabilitation	\$1,000,000
Castle Pines Metropolitan District	Chatfield Water Purchase	\$500,000
Glacier Lake Property Owners	Glacier Lake Outlet Rehabilitation	TBD
Central, City of	Raw Water Pipeline	TBD
Denver, City of	Floodplain Improvement	TBD
Consolidated Mutual Water Company (*)	Reservoir Rehabilitation	TBD
Wadley Farms 3 HOA	Reservoir Rehabilitation	TBD
Loveland Lake and Ditch Company	Reservoir Rehabilitation	TBD
Inverness	Reservoir Improvements	TBD
Cottonwood	Reservoir Improvements	TBD
Arapahoe County W/WW Authority	Reservoir Improvements	TBD
<b>Subtotal</b>		<b>\$2,755,900,000</b>



BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
<b>Arkansas</b>		
Town of Manitou Springs	Raw Water Pipeline	\$3,000,000
City of Woodland Park	Storage Project	\$1,000,000
Fort Lyon Canal Company	Adobe Creek Enlargement	\$8,000,000
Deweese Ditch and Reservoir Co. (+)	Reservoir Enlargement	TBD
Holbrook Ditch Company	Reservoir Enlargement	TBD
Lake County	New Reservoir	TBD
Catlin Canal Company	Canal System Improvement	\$1,500,000
Lower Arkansas WCD	New Storage Account	TBD
Donala Water and Sanitation District	Ditch Construction	TBD
Mesa McKenna Mutual Ditch Company	Ditch Piping Project	TBD
Town of Avondale (*)	New Well	TBD
Round Mountain Water & Sanitation	New Reservoir	TBD
Ordway, Town of	Reservoir Rehabilitation	TBD
Cross Creek Metropolitan District	Hale Reservoir Rehabilitation	\$3,000,000
Colorado City (*)	Beckwith Dam Rehabilitation	\$8,000,000
Oxford Ditch Company	Flume Rehabilitation	\$1,800,000
Fort Lyons Canal Company (+)	Diversion Structure Repair	\$500,000
Aguilar, Town of (‡)	New Augmentation Reservoir	TBD
Huerfano County	Water Rights Purchase	\$1,200,000
Pueblo Water	Diversion Structure Rehabilitation	\$9,000,000
<b>Subtotal</b>		<b>\$37,000,000</b>
<b>San Miguel/Juan</b>		
Town of Bayfield	Ditch Piping Project	\$500,000
Redmesa Reservoir and Ditch Co. (*)	Redmesa Reservoir Enlargement	\$11,500,000
City of Cortez	Distribution System (Loss Prevention)	\$10,000,000
Webber Ditch Company (‡)	Ditch Piping Project	TBD
Pagosa Area Water and Sanitation Dist. (*)	Raw Water Pipeline Rehabilitation	TBD
Town of Naturita	Water Meters	TBD
Farmers Water Development Company	Reservoir Rehabilitation	TBD
Lone Cone Ditch and Reservoir Company	Reservoir Rehabilitation	TBD
Sellers McClane Reservoir and Ditch Co.	Reservoir Rehabilitation	TBD
<b>Subtotal</b>		<b>\$22,000,000</b>
<b>Colorado</b>		
Orchard Mesa Irrigation District	Lateral Piping	\$300,000
Silt Water Conservancy District	Harvey Gap Reservoir	\$300,000
Middle Ditch	Ditch Piping Project	TBD
New Multa Trina Ditch Company (‡)	Ditch Piping Project	TBD
Gunther Covers	Christenson Dam	TBD
Town of Minturn	New Well Field	\$5,220,000
Flannery Water Company, LLC	Reservoir Rehabilitation	TBD
Fruita, City of	Reservoir Rehabilitation	TBD
Dave Phelps	King Dam Rehabilitation	TBD
Royal Elk Ranch	Ditch Rehabilitation	\$2,000,000
<b>Subtotal</b>		<b>\$7,820,000</b>



BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
<b>Gunnison</b>		
Duke Ditch Company	Ditch Piping Project	\$400,000
Bostwick Park Water Conservancy District	Dam Construction	TBD
Kendall Reservoir Company	Reservoir Rehabilitation	\$140,000
Orchard City Irrigation District (‡)	Fruit Growers Reservoir Rehab	\$240,000
Ouray, City of	Water Supply Pipeline	\$750,000
Grand Mesa Water Users Association	Reservoir Rehabilitation	\$600,000
Crested Butte, Town of	Dam Outlet Rehabilitation	TBD
Olathe, Town of	Water Meter Replacement	TBD
Lone Cabin Ditch Company	Ditch Rehabilitation	TBD
Otter Pond HOA	Dam Rehabilitation	\$650,000
<b>Subtotal</b>		<b>\$2,780,000</b>
<b>North Platte</b>		
Colorado Parks and Wildlife (*)	North Michigan Creek Reservoir	\$6,000,000
Spicer Ranches, LTD	Reservoir Rehabilitation	TBD
Walden, Town	New Well	TBD
<b>Subtotal</b>		<b>\$6,000,000</b>
<b>Rio Grande</b>		
Manassa Land & Irrigation Co.	Ditch Rehabilitation	\$6,000,000
Baca Grande WSD	Water Rights Purchase	\$1,000,000
Sanchez Ditch and Reservoir Co.	Dam Rehabilitation	\$4,000,000
Rio Grande WCD - Subdistrict #1	Water Rights Purchase	\$5,000,000
Colorado Parks and Wildlife	Alberta Park Dam Rehabilitation	\$4,000,000
La Jara, Town of	System Rehabilitation	TBD
Crestone, Town of	Water Rights Purchase	\$200,000
San Luis Valley WCD	Water Rights Purchase	\$500,000
Rio Grande WCD	Water Rights Purchase	\$3,000,000
Costilla County Conservancy District	Water Rights Purchase	\$300,000
<b>Subtotal</b>		<b>\$24,000,000</b>
<b>Yampa</b>		
Town of Oak Creek (*)	Reservoir Rehabilitation	\$5,600,000
Rio Blanco WCD	Wolf Creek Reservoir	\$100,000,000
Bear River Reservoir Company	Stillwater #1 Dam Rehabilitation	TBD
Marc Etchart	Procter Reservoir Rehabilitation	TBD
<b>Subtotal</b>		<b>\$105,600,000</b>





# COLORADO

## Colorado Water Conservation Board

Department of Natural Resources

1313 Sherman Street  
Denver, CO 80203

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

Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, Director

**To:** Colorado Water Conservation Board Members

**From:** Kirk Russell, P.E., Finance Section Chief  
Jessica Halvorsen, Program Assistant

**Board Meeting:** January 23-24, 2023 Board Meeting

**Directors Report:** Water Project Loan Program, Design & Construction Status Report

The CWCB Loan Program has Substantially Completed (10) projects in Calendar Year 2022 as shown in the Table. There are currently (51) projects authorized to receive loan funding totaling \$344M. There are (46) projects currently under contract and in the Design/Construction phase totaling \$246M. The attached spreadsheet summarizes the status of all loans. A detailed description about each project is provided on the CWCB website under Water Project Loan Program. [cwc.colorado.gov/loans-grants/water-project-loan-program](http://cwc.colorado.gov/loans-grants/water-project-loan-program)

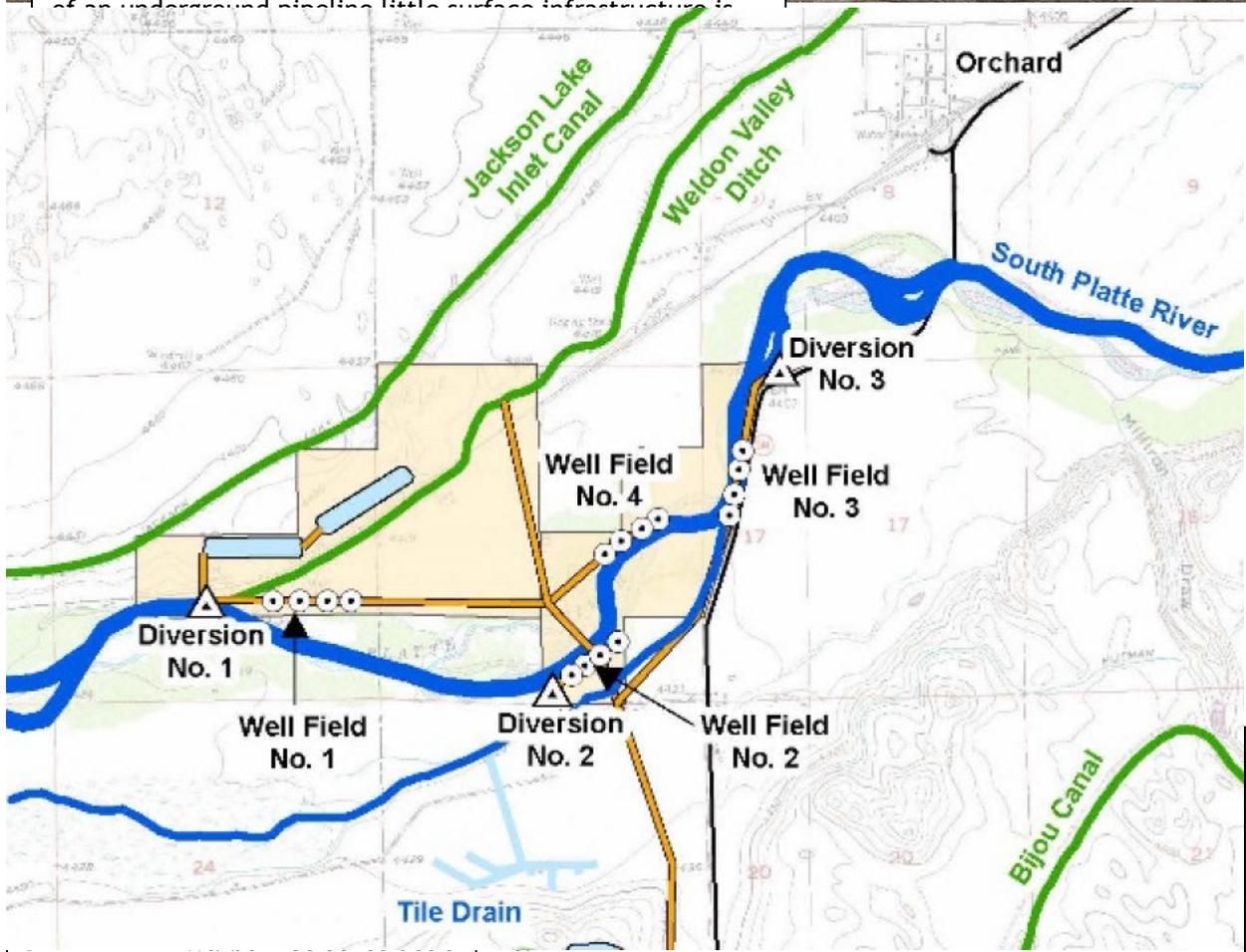
	Borrower	Project	County	Loan Amount	Complete
1	Central Colorado WCD	Walker Recharge	Weld	\$2,272,500	1/1/22
2	CCWCD - Groundwater Management Subdistrict	Walker Recharge	Weld	\$9,847,500	1/1/22
3	CCWCD - Well Augmentation Subdistrict	Walker Recharge	Weld	\$3,030,000	1/1/22
4	Huerfano County WCD	Regional Augmentation Project	Huerfano	\$2,666,400	2/1/22 (a)
5	Upper Platte & Beaver Canal Co.	Diversion Structure Replacement	Morgan	\$4,078,215	2/1/22
6	Cedar Mesa Ditch Company	Lower Cedar Mesa Ditch Piping	Delta	\$468,717	6/1/22
7	Grand Mesa Water Conservancy District	Peak Res. & Blanche Park Res. Rehabilitation	Delta	\$466,620	6/1/22 (b)
8	Left Hand Ditch Company	Allen's Lake Filler Canal Improvements	Boulder	\$938,326	6/1/22
9	The Tunnel Water Company	Rawah Ditch Tunnel Rehabilitation	Larimer	\$1,198,066	6/1/22
10	Parker Water and Sanitation District	WISE - Phase 2 Infrastructure	South Platte	\$3,418,658	8/1/22
			Total	\$28,385,002	

Calendar Year 2022 has added and preserved 180 acre-feet of reservoir storage; (a) 25; (b) 155





Finishing equipment on the project site during the winter 2020/2021 months. Because much of the project consisted of an underground pipeline, little surface infrastructure is





Finishing equipment on the project site during the winter 2020/2021 months. Because much of the project consisted of an underground pipeline little surface infrastructure is visible.

**Project Description**

The Walker Recharge Project is located in Weld and Morgan Counties between the towns of Orchard and Wiggins. Central Colorado Water Conservancy District (CCWCD) and its two subdistricts, Ground Water Management Subdistrict (GMS) and the Well Augmentation Subdistrict (WAS) jointly filed an application for water rights and for approval of plan of augmentation for the Walker Recharge site (Division 1 Water Court Case No. 16CW3202) on December 30, 2016. The court application includes surface water rights for three diversions, groundwater rights for four well fields and one existing well, numerous recharge structures, and a plan for augmentation. The plan for augmentation allows diversion from the included water rights as well as other water rights owned or otherwise controlled by CCWCD, GMS, or WAS to be delivered to the recharge ponds to generate accretions to the South Platte River.

Construction took place in two phases. The completed project allows recharge credits to be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD uses recharge credits to increase the amount of water leased to GMS, WAS and other water users within the CCWCD boundaries.

P R O J E C T D A T A		
<i>Sponsor:</i> Groundwater Management Subdistrict	<i>County:</i> Weld & Morgan	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Augmentation Facility		<i>Board Approval Date:</i> September 2018
<i>Loan Terms:</i> (Original) \$9,847,500 (Final) \$9,847,500		
<i>Design Engineer:</i> White Sands Water Engineers, Inc.		
<i>Contractor:</i> Warbonnet Construction, Inc.		



Finishing equipment on the project site during the winter 2020/2021 months. Because much of the project consisted of an underground pipeline little surface infrastructure is visible.

**Project Description**

The Walker Recharge Project is located in Weld and Morgan Counties between the towns of Orchard and Wiggins. Central Colorado Water Conservancy District (CCWCD) and its two subdistricts, Ground Water Management Subdistrict (GMS) and the Well Augmentation Subdistrict (WAS) jointly filed an application for water rights and for approval of plan of augmentation for the Walker Recharge site (Division 1 Water Court Case No. 16CW3202) on December 30, 2016. The court application includes surface water rights for three diversions, groundwater rights for four well fields and one existing well, numerous recharge structures, and a plan for augmentation. The plan for augmentation allows diversion from the included water rights as well as other water rights owned or otherwise controlled by CCWCD, GMS, or WAS to be delivered to the recharge ponds to generate accretions to the South Platte River.

Construction took place in two phases. The completed project allows recharge credits to be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD uses recharge credits to increase the amount of water leased to GMS, WAS and other water users within the CCWCD boundaries.

P R O J E C T D A T A		
<i>Sponsor:</i> Well Augmentation Subdistrict	<i>County:</i> Weld & Morgan	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Augmentation Facility		<i>Board Approval Date:</i> September 2018
<i>Loan Terms:</i> (Original) \$3,030,000 @ 1.75% (Final) \$3,030,000 @ 1.75%		
<i>Design Engineer:</i> White Sands Water Engineers, Inc.		
<i>Contractor:</i> Warbonnet Construction, Inc.		



Sheep Mountain Augmentation Facility - Reservoir



Sheep Mountain Augmentation Facility -  
 Downstream from reservoir and pump facility



### Project Description

The Huerfano County Water Conservancy District (District) was approved for a CWCB loan in September 2013 to develop a regional augmentation program to replace depletions of wells in unincorporated communities in Huerfano County through a regional augmentation program. Within Huerfano County there are many water users that are at risk of being curtailed due either to being out of priority or due to failing (or failed) augmentation plans. The users include schools and domestic, commercial, and agricultural users. The District has utilized a Substitute Water Supply Plan and Regional Rule 14 Replacement Plan to provide augmentation water to entities that were in danger of having water use curtailed due to out of priority usage. The District believes that other water users will find it necessary to join the regional augmentation plan and the Division Engineer has indicated an urgent need for such a plan. Key project components included: the purchase of land and water rights, the construction of a recharge reservoir, and a reservoir for augmentation named the Sheep Mountain Augmentation Facility.

P R O J E C T D A T A		
<i>Sponsor:</i> Huerfano County Water Conservancy District	<i>County:</i> Huerfano	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Augmentation	<i>Board Approval Date:</i> September 2013	
<i>Terms of Loan:</i> 2.25% for 30 years (Original) \$2,666,400.00 (Final) \$2,666,400.00		
<i>Design Engineer:</i> TZA - Lamp Rynearson, Inc.		
<i>Contractor:</i> Paul Morgan Excavating, Inc. and Frontier Environmental Services		

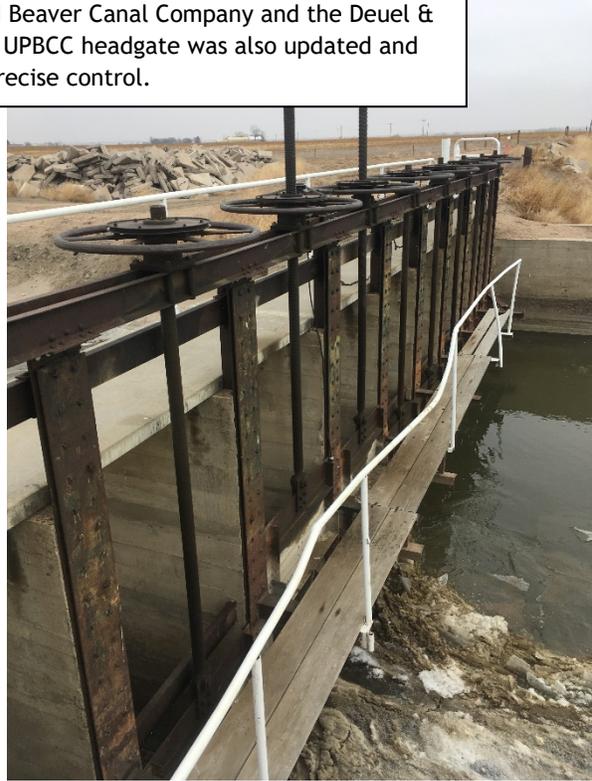


## Diversion Structure Replacement

### Upper Platte and Beaver Canal Company

Substantially Complete February 1, 2022

The new diversion structure spans the entire width of the river allowing for diversions into the canals of both the Upper Platte and Beaver Canal Company and the Deuel & Snyder Improvements Company (left). The UPBCC headgate was also updated and allows for more precise control.



### Project Description

The Upper Platte and Beaver Canal Company was incorporated in 1888 and shares a diversion off the South Platte River with the Deuel and Snyder Improvement Company. Together the two ditch companies provide irrigation water to 11,500 acres.

The existing diversion structure is a reinforced concrete slab and buttress with a height of 9 feet and a length of 1,416 feet. The diversion structure was originally built in 1936 and had improvements done in 1965. This existing structure has several deficiencies including seepage and erosion under the structure and concrete deterioration throughout the structure. This project costed of the removal and replacement of the existing structure. The new structure incorporates inflatable crest gates spillways (Obermeyer gates) and restores the channel continuity, improves sediment transport, and provides additional flow conveyance during floods.

P R O J E C T D A T A		
<i>Sponsor:</i> Upper Platte and Beaver Canal Company	<i>County:</i> Morgan	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Diversion Replacement		<i>Board Approval Date:</i> May 2019
<i>Loan Terms:</i> (Original) \$4,435,920 @ 2.25% (Final) \$4,078,215.22 @ 2.25%		
<i>Design Engineer:</i> Harris Engineering Consultants, Inc.		
<i>Contractor:</i> Ransom Boone Excavating		



**Project Description**

The Cedar Mesa Ditch Company was incorporated in 1898 and diverts irrigation water to 1,043 acres to raise cattle, hay and fruit. The ditch was an unlined canal that runs through Mancos shale for the lower 3.5 miles of the ditch. This section experienced significant water loss from seepage and created water quality issues in the Gunnison and Colorado River basins through leaching of salt from the underlying shale. The Company piped the lower 3.5 miles of the ditch that resulted in increases in safety and efficiency, while reducing maintenance costs. The project was funded primarily funded with NRCS EQIP grant funds, with remaining project funding coming from the WSRF and Water Plan Grant programs, the loan program, and a grant from the Colorado River District Community Funding Partnership program during construction.

P R O J E C T D A T A		
Sponsor: Cedar Mesa Ditch Company	County: Delta	Water Source: Surface Creek
Type of Project: Ditch Rehabilitation	Board Approval Date: September 2019	
Loan Terms: (Original) \$1,359,460 @ 1.55% (Final) \$468,717.05 @ 1.55%		
Design Engineer: Robert I Gallegos P.E. LLC		
Contractor: Fritchman Excavation		



**Peak Reservoir and  
 Blanche Park Reservoir Rehabilitation**  
 Grand Mesa Water Conservancy District  
 Substantially Complete June 1, 2022



Blanche Park Dam Crest

**Project Description**

The Grand Mesa Water Conservancy District owns several reservoirs and a network of ditches to service agricultural users and municipal users including the Town of Orchard City and Cedaredge. This project consisted of the rehabilitation of Peak Reservoir (30AF) and Blanche Park Reservoir (125AF) Both reservoirs, located in the Grand Mesa National Forest, had fallen into disrepair and were breached, resulting in them not being used for nearly 50 years before being acquired by the District. Funding for the project came from District reserves, the CWCB loan, and a Water Supply Reserve Fund (WSRF) Gunnison Basin Roundtable grant. Peak Reservoir involved earthwork on the dam and new outlook works. Blanche Park Reservoir included a complete rebuilding of the dam. Construction for Peak Reservoir was completed in 2015, and construction of Blanche Park Reservoir was completed in November of 2021.

P R O J E C T D A T A		
<i>Sponsor:</i> Grand Mesa Water Conservancy District	<i>County:</i> Delta	<i>Water Source:</i> Surface Creek
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> May 2013
<i>Terms of Loan:</i> 1.55% for 20 years (Original) \$466,620 (Final) \$466,620		
<i>Design Engineer:</i> MM&D Engineering Services / DOWL (Peak / Blanche Park)		
<i>Contractor:</i> Peterson Excavating, Inc. / Mountain Valley Contracting, Inc. (Peak / Blanche Park)		



# Allen’s Lake Filler Canal Improvement

Left Hand Ditch Company  
 Substantially Complete June 1, 2022

The Allen’s Lake Filler Canal was a 2,750 foot long open ditch as shown in the pictures below. The project installed a 3.5-foot diameter pipe in the existing alignment which now carries the water completely underground.



## Project Description

The Left Hand Ditch Company provides irrigation water to a service area of approximately 15,000 acres north of Boulder. Its service area generally lies along Left Hand Creek from the foothills of the Front Range east to Niwot.

The Allen’s Lake Filler Canal Improvements Project focused on a 2,750-foot reach of Lake Ditch which parallels the west shore of Allen’s Lake. The existing ditch experienced notable losses due to seepage and excessive sedimentation. This prevented the ditch from delivering the Company’s desired 25cfs design flow. Due to the extremely narrow right-of-way (7.5 feet on both sides of ditch centerline), proper cleaning and maintenance of the ditch was uneconomical. Additionally, residents of the adjacent community surrounding Allen’s Lake built their own crossings and patios on the ditch creating concerns of public safety. To address these issues, the Company piped the ditch with a 3.5-ft diameter pipe. Work took place between the summer of 2019 and the spring of 2022.

P R O J E C T D A T A		
<i>Sponsor:</i> Left Hand Ditch Company	<i>County:</i> Boulder	<i>Water Source:</i> Left Hand Creek
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> January 2019
<i>Loan Terms:</i> (Original) \$671,650 @ 2.50% (Final) \$938,326.13 @ 2.50%		
<i>Design Engineer:</i> WWC Engineering		
<i>Contractor:</i> Left Hand Excavating		



### Project Description

The Tunnel Water Company (Company) owns and operates the Laramie-Poudre Tunnel (L-PT) for the benefit of its two shareholders that include Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). WSSC delivers irrigation water to its shareholders, primarily for agricultural irrigation on approximately 40,000 acres lying below the Larimer County Canal. WRCC delivers water to its municipal shareholders via the Soldier Canyon and Bellvue Water Treatment Plants. It also owns and operates the Rawah Ditch (Ditch) which collects water from Rawah Creek and delivers it to the West Branch of the Laramie River, upstream of the L-PT.

The Rawah Ditch includes two tunnels, 70 feet long and 90 feet long. At completion of the 2020 diversion season, both tunnels were found to have significant rockfall, and subsequently the Company’s engineers concluded that one tunnel was in danger of imminent collapse, while the other would likely collapse within a few years. If either tunnel collapses, the Company would be unable to make water deliveries and would incur significant repair costs. The selected alternative slip lined and grouted the tunnel in order to avoid the need for workers in the tunnels with unpredictable rockfall. Construction is started in the spring of 2021 and construction was completed in the spring of 2022.

P R O J E C T D A T A		
<i>Sponsor:</i> The Tunnel Water Company	<i>County:</i> Larimer	<i>Water Source:</i> Laramie River
<i>Type of Project:</i> Rawah Ditch Tunnel Rehabilitation		<i>Board Approval Date:</i> March 2021
<i>Terms of Loan:</i> 1.70% for 30 years	<i>(Original)</i> \$2,171,500.00	<i>(Final)</i> \$1,198,066.75
<i>Design Engineer:</i> Lithos Engineering		
<i>Contractor:</i> Restruction Corporation		



**Project Description**

Parker Water and Sanitation District (District) has subscribed to 1,200 acre-feet of water on an average annual basis through the WISE Project. The District expects in average and wet years, WISE will deliver an average yield close to 100% of Parker’s water supply and the supply will originate from renewable sources. In dry years, the water delivery losses from renewable sources will be augmented with pumping non-tributary ground water from aquifer storage or from Rueter-Hess Reservoir. The WISE Project is the result of regional cooperative planning between Denver Water Aurora Water and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority WISE Authority is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources efforts.

The District lead construction of the 20,300 feet of new 42-inch pipe starting near the intersection of Chambers Road and E-470 and ending at the Parker Water Treatment Plant located just south of Rueter-Hess Reservoir. South from the treatment plant, a 16.5 million gallons per day pump station was constructed followed by 9,000 feet of a new 24-inch pipeline that allows WISE water to be conveyed to Rueter-Hess Reservoir for storage. Facilities are oversized for use by other WISE Authority members.

P R O J E C T D A T A		
<i>Sponsor:</i> Parker Water and Sanitation District	<i>County:</i> Douglas and Arapahoe	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Water Supply Infrastructure	<i>Board Approval Date:</i> May 2014	
<i>Terms of Loan:</i> 2.75% for 20 years (Original) \$3,418,658.00 (Final) \$3,418,658		
<i>Design Engineer:</i> Jacobs		
<i>Contractor:</i> Glacier Construction; T. Lowell Construction; Garney Construction		

**PROJECTS UNDER CONTRACT**

	PROJECT					STATUS			
	Borrower	Project Name	Basin	Contract #	Amount	Manager	Design	Construction	Update
1	Amity Mutual Irrigation Company	Queen Reservoir Dam Rehabilitation	Arkansas	CT2021-2224	\$1,333,000	Joshua Godwin	100%	5%	Dam breached. Final design complete and approved by Dam Safety. Costs increases since receiving loan approval. Selecting contractor Q1 2023. Anticipated protracted schedule due to delays in ordering materials.
2	Arapahoe County Water and Wastewater Authority	Chambers Reservoir Liner Rehabilitation	South Platte	CT2021-0513	\$4,000,000	Kirk Russell	100%	80%	Under construction Aug 2020. Dam Safety fill approval-May2021. Loan increase request May2021 for pump system component. Crane cert. 12/2021, pump delivery-delay until 1/2022, pouring pump pads 12/2021
3	Billings Ditch Company	Billings Ditch Implementation Project	South Platte	CT2022-2886	\$171,000	Cole Bedford	100%	98%	This project is being managed by the Rio Grande Headwaters Restoration Foundation to replace the Billings Ditch diversion structure. A water plan grant for the same project was contracted in October 2021. Construction is complete except for punch list items.
4	Breckenridge, Town of	Goose Pasture Tarn Dam Rehabilitation	Colorado	CT2023-0673	\$13,000,000	Cole Bedford	100%	50%	The project has been under construction since 2020. This loan is intended to cover the costs of the second half of the project which is starting in the fall of 2022. The first draw will likely take place in December 2022.
5	Deuel and Snyder Improvement Company	Diversion Structure Replacement	South Platte	CT2020-3562	\$643,000	Cole Bedford	100%	95%	This project will support the replacement of UPBCC/DSIC's 1,400 foot long diversion structure on the South Platte. Contractor mobilization and first purchase of materials took place in June 2020. Final punchlist items will be completed in Fall 2022.
6	Dove Creek, Town of	Reservoir No. 2	Southwest	CT2022-3321	\$800,000	Cole Bedford	80%	0%	This project will support the Town of Dove creek in constructing a new storage reservoir for municipal supply. The Town also received an \$800,000 WPG for the project. Engineering is currently underway.
7	Duke Ditch Company	Piping the Duke Ditch	Gunnison	CT2017-0915	\$90,000	Matt Stearns	100%	0%	NRCS finalized the design in August 2018. Federal grant expired. Company is evaluating options of applying for a loan increase and completing project without federal grant dollars.
8	Florida Consolidated Ditch Company	Hess Lateral Improvement	Southwest	CT2019-2034	\$1,075,000	Kirk Russell	100%	0%	Company received bids. The low bid exceeded the available funding. Company is in the process of value engineering and project adjustments.
9	Florida Consolidated Ditch Company	Florida Canal Diversion Replacement	Southwest	CT2021-2890	\$721,239	Matt Stearns	100%	0%	This project is the replacement of a low head dam diversion structure with multibeneficial outcomes. Design work is nearly complete and it will go out for bid in late 2022 or early 2023 with construction commencing in Fall 2023.
10	Fort Morgan Farms, LLC	Delta Water Storage Phase 1	South Platte	CT2021-2222	\$8,982,000	Cole Bedford	100%	60%	The Delta Storage Project will construct a below grade storage reservoir. The loan covers the cost of constructing a slurry wall around the reservoir to isolate future stored water from existing groundwater. Currently the slurry wall is under construction.
11	Fruitland Irrigation Company	Tunnel and Canal Renovation	Gunnison	CT2019-2848	\$1,729,000	Kirk Russell	100%	35%	Sept 2018 letter from Bureau of Reclamation recvd. Section 1 tunnel work bid pkg Dec2020. Section 2 Tribble - Pipe placement, compaction testing. Section 3&4 Rundle - begin breaking and removal of bedrock. Tribble and Wright placing concrete lining.
12	Genesee Water and Sanitation District	Reservoir No. 1 Enlargement	South Platte	CT2021-2851	\$5,500,000	Cole Bedford	100%	5%	The District was approved for this loan in Sep 2020 and a Water Plan Grant followed in March 2021. Bids were received in June 2021 and were well above expectations. A loan increase request was submitted and will be considered at the September 2022 Board meeting.
13	Glenwood Springs, City of	System Redundancy and Pre-Treatment Improvements	Colorado	CT2021-3104	\$8,000,000	Cole Bedford	100%	25%	This Wildfire Emergency Loan will improve the infrastructure for Glenwood Springs' water collection system to cope with increased sediment in their source waters as a result of the Grizley Creek Fire in 2020.
14	Grand Junction, City of	Carson Reservoir Dam Rehabilitation	Gunnison	CT2021-3110	\$4,300,000	Joshua Godwin	100%	95%	Preliminary dam safety close out inspection complete 10/19/22 before ESCO (contractor) demobilizes. Grand Junction will finish construction by installing hydraulic lines for outlet gate in June 2023 when the snow melts.
15	Grand Junction, City of	Kannah Creek Flowline Replacement	Gunnison	CT2023-0568	\$3,200,000	Joshua Godwin	0%	0%	
16	Grand Junction, City of	Purdy Mesa Flowline Replacement	Gunnison	CT2021-2857	\$7,000,000	Joshua Godwin	100%	0%	The Purdy Mesa Flowline is a large diameter pipeline that supplies raw water to the Grand Junction WTP. Most of the line was replaced as part of previous projects and this project will replace the last remaining out-of-date pipe material. Project is going out for RFP in Nov and work is expect to occur concurrently with Kannah Creek
17	Grand View Irrigation Company	Siphon Repair Project	Arkansas	CT2023-2058	\$350,000	Joshua Godwin	100%	95%	Project is nearly complete with minor project close-out items remaining.
18	Groundwater Management Subdistrict of CCWCD	Hokestra Reservoir Purchase	South Platte	CT2020-2248	\$5,390,500	Cole Bedford	100%	75%	This Project will purchase an existing reservoir for use as augmentation storage. Funds have been disbursed for the reservoir purchase, but construction is in the earliest phases.
19	Groundwater Management Subdistrict of CCWCD	Pioneer Reservoir	South Platte	CT2019-3687	\$8,611,000	Cole Bedford	75%	60%	This is a gravel pit retrofit for augmentation water supply. Funds for the initial reservoir purchase and some engineering were disbursed in May 2019. Construction efforts are expected to begin in Fall 2022.
20	Hidden Valley Water District	Master Water Meter Connection	South Platte	CT2020-2244	\$1,720,000	Kirk Russell	100%	95%	Assets and operations are all to the District. District signed and approved EMD IGA. Precon Dec2019. Construction begin Feb 2020. EMD connect 7/2020. Construction complete, final walkthru Aug2020. Working on IGA with EMD. Continued water court proceedings by EMD as of 12/2021.

**PROJECTS UNDER CONTRACT**

	PROJECT					STATUS			
	Borrower	Project Name	Basin	Contract #	Amount	Manager	Design	Construction	Update
21	Logan Irrigation District	Prewitt Reservoir Rehabilitation	South Platte	CT2021-3898	\$1,563,000	Cole Bedford	100%	98%	This project is installing wave breaks on the upstream face of Prewitt Reservoir Dam. Their installation will allow a storage restriction to be removed. The project is currently under way and the contractors are on site.
22	Lookout Mountain Water District	Upper and Lower Beaver Brook Dam Rehabilitation	South Platte	CT2021-3115	\$3,500,000	Joshua Godwin	100%	95%	Contractor mobilized and site staging. Construction and dam demolition. RCC dam 100% complete as of 12/21. Spillway and outlet work construction continues.
23	Morrisania Water Supply Company	Ditch Rehabilitation Project	Garfield	CT2023-2580	\$140,000	Joshua Godwin	100%	98%	Construction complete. Borrower is processing final invoices and grant funding.
24	North Poudre Irrigation Company	Park Creek Expansion Project	South Platte	CT2023-2593	\$6,480,000	Joshua Godwin	0%	0%	
25	North Sterling Irrigation District	North Sterling Irrigation District	South Platte	CT2021-3875	\$3,498,000	Cole Bedford	100%	95%	Demolition of the existing structure began in July 2021. The majority of the work is completed. Only the electrical compenents for the pump house remain to be installed.
26	Ogilvy Irrigating and Land Company	Seely Reservoir Dredging	South Platte	CT2019-2099	\$2,252,000	Kirk Russell	85%	0%	USACE 12/2019 non jurisdictional determination. OILC plans to construct in the winter/spring 2023.
27	Orphan Wells of Wiggins	Kiowa Creek Dam Rehabilitation	South Platte	CT2021-3116	\$373,000	Cole Bedford	100%	85%	This project will repair five non-jurisdictional dams operated by Orphan Wells of Wiggins for augmentation purposes. Mobilization took place in January 2021. Dam work complete Spring 2021. Loan increase request (May 2021) for well power supply conversion.
28	Redmesa Reservoir and Ditch Company	Redmesa Reservoir Rehabilitation Engineering	Southwest	CT2022-0498	\$183,000	Matt Stearns	60%	0%	This project is to engineer a financially feasible dam rehabilitation, including a potential enlargement. Work began on March 8, 2021. The Company has secured a local governmental sponsor and has been approved to proceed in the NRCS PL-566 program which will cover 100% of design and 75% of construction.
29	Rio Grande Water Conservation District Subdistrict No. 5	Saguache Pipeline	Rio Grande	CT2021-3846	\$4,844,000	Cole Bedford	80%	0%	Working on well owner agreement and Project easement agreements. Loan increase request in January 2023.
30	Root and Ratliff Ditch Company	Ditch Piping and Rehabilitation	Southwest	CT2022-2976	\$300,000	Kirk Russell	100%	95%	Project is nearly complete. All pipe is in place. Final grading and seeding is expected to be done by fall.
31	Smith and Emmons Ditch Company	Diversion Structures Replacement Project	South Platte	CT2023-2473	\$410,000	Cole Bedford	100%	20%	Contractor has been selected. Preliminary materials purchased.
32	Southeastern Co Water Conservancy District	Pueblo Dam Hydroelectric Project	Arkansas	CT2018-0833	\$17,220,000	Kirk Russell	100%	98%	Project is complete and producing power. District will close out loan in early 2023
33	South Platte Ditch Company	Diversion Structure Rehabilitation	South Platte	CT2022-0424	\$1,440,000	Cole Bedford	100%	98%	The project will replace the South Platte Ditch Company's Diversion Structure. Long-lead-time items have been purchased and delivered to site. Construction is complete and awaiting closeout.
34	Spring Dale Ditch Company	Diversion Structure Replacement	South Platte	CT2020-3110	\$1,210,000	Cole Bedford	100%	98%	This project will replace Springdale's aging diversion structure on the South Platte. All work except the final punch list items are complete.
35	Sunnyside Park Ditch Company	Sunnyside Park Ditch Piping	Arkansas	CT2023-2022	\$533,430	Cole Bedford	100%	20%	This project will pipe a half-mile length of open ditch along the Arkansas River. The current ditch is threatened by slop instability and also experiences significant water losses to the ground and evaporation. The project also has a WSRF grant associated with it. Construction will take place in the fall of 2022.
36	Trincherea - GMS	Augmentation Pipeline	Rio Grande	CT2022-3040	\$977,000	Kirk Russell	100%	99%	Project is complete. Substantial completion expected in early 2023.
37	Triview Metropolitan District	Stonewall Springs Reservoir Complex	Arkansas	CT2022-3328	\$4,731,000	Kirk Russell	100%	75%	Reservoir under construction and working on pumphouse.
38	Tunnel Water Company	West Half Laramie-Poudre Tunnel Rehabilitation	North Platte/South Platte	CT2019-3706	\$17,080,000	Kirk Russell	100%	99%	Construction was completed in spring of 2022 after delays due to Cameron Peak wildfire. After the '22 irrigation season a warrenty inspection found and a large portion of the tunnel lining caved in. This will be repaired in the winter of 22/23.
39	Tunnel Water Company	Headgate Improvements (Wildfire Impact)	North Platte/South Platte	CT2021-3928	\$1,206,000	Kirk Russell	100%	99%	Power supply installation complete. Duperon gate delivery at site. Headgate installation underway. Construction complete. Project final.
40	Victor, City of	Victor Reservoir No. 2 Dam Rehabilitation	Arkansas	CT2021-3873	\$510,000	Kirk Russell	100%	0%	Contractor selected. Construction delay until late 2023 due to supply delivery schedules. Town removed portion of outlet tower and DWR/Dam Safety issued a fill restriction.

**PROJECTS UNDER CONTRACT**

PROJECT						STATUS			
Borrower	Project Name	Basin	Contract #	Amount	Manager	Design	Construction	Update	
41	Grand Valley Water Users Association	Vinelands Power Plant	Colorado	CT2022-2084	\$778,011	Matt Stearns	100%	99%	This project will replace the existing 2.75 MW hydroelectric powerplant with a new 4.5 MW facility. Contractor mobilized November of 2021, and construction completed in November 2022. The powerplant is producing power (1.8 MW) as of November 2022 via a temporary interconnect with Xcel Energy, and will be fully operational in May 2023 via a permanent interconnect.
	Orchard Mesa Irrigation District			CT2022-0892	\$853,912				
42	Uncompahgre Valley Water Users Association	Taylor Park Hydro Powerplant Project	Gunnison	CT2023-2565	\$1,685,000	Cole Bedford	80%	0%	Project is not yet underway. No funds have been disbursed.
43	Wiggins, Town of	Wiggins Recharge Facility at Glassey Farms	South Platte	CT2018-0892	\$2,385,000	Cole Bedford	100%	0%	The purpose of this project is to develop an augmentation water source for the Town. In August 2017 the Town purchased Glassey Farms and its associated water rights and 52% of funds were disbursed at that time. The project is back underway and an extension was granted.
44	Windy Gap Firming Project Water Activity Enterprise	Windy Gap Project (Chimney Hollow Reservoir)	South Platte	CT2021-2039	\$89,108,911	Cole Bedford	100%	20%	Construction contract was awarded in December and allotment contracts among project participants are being drafted. Contractor was selected in October. Project loan conditions were amended at the March Board Meeting. The project is well underway, but has not drawn on the loan yet.
45	Cottonwood Water and Sanitation District	WISE - Phase 2 Infrastructure	South Platte	CT2015-0105	\$1,116,000	Kirk Russell	100%	90%	Binney Connection Pipeline of Water Infrastructure and Supply Efficiency project will increase WISE flow capacity to 30MGD and provide infrastructure from Aurora Binney Facility to SMWSA. Pumps/Treatment-Glacier, Pipeline/Infrastructure-T.Lowell, Jacobs is Engineer. Vault excavation began 9/2020. Construction trailer onsite through project duration. Glacier complete foundation work, pump cans have been delivered and installed, pump motors have arrived at the pump manufacture, preliminary SCADA meetings begun, Glacier starting to form rebar for the flow control building, start laying pipe. Precast concrete walls for pump station complete.
	Inverness Water and Sanitation District			CT2015-0119	\$1,413,000				
	Pinery (Denver SE Water and Sanitation District)			CT2015-0086	\$1,413,130				
46	Cottonwood Water and Sanitation District	WISE - Denver International Airport Connection	South Platte	CT2015-0104	\$363,600	Kirk Russell	80%	60%	Annual disbursement to be made on this loan through 2021. Design Status indicates percent of funds disbursed to date. WISE WDA negotiations between parties continue with the goal of having an amended Water Delivery Agreement ready to be brought to the respective Boards and Council for review and approval by April 1, 2021. Group discussion continues focused on the DIA Connection.
	Inverness Water and Sanitation District			CT2015-0120	\$450,000				
	Parker Water and Sanitation District			CT2015-0110	\$1,089,000				

**TOTAL UNDER CONTRACT \$245,721,733**

**APPROVED PROJECTS, NOT CONTRACTED**

PROJECT						STATUS			
Borrower	Project Name	Basin	Contract #	Amount	Manager	Design	Construction	Update	
1	Southeastern Colorado Water Conservancy District	Arkansas Valley Conduit	Arkansas	CT2023-XXXX	\$90,000,000	Kirk Russell	0%	0%	Federal Funding will control the scheduled use of these funds
2	Logan Irrigation District	Prewitt Reservoir Rehabilitation	Washington and Logan	CT2023-XXXX	\$1,831,000	Cole Bedford	0%	0%	
3	Keensburg, Town of	Alluvial Water Rights Extension Project	Weld	CT2023-XXXX	\$2,100,000	Joshua Godwin	0%	0%	
4	Special Improvement District No. 3 of the RGWCD	Alpha Hay Farms Augmentation	Conejos	CT2023-XXXX	\$2,555,000	Cole Bedford	0%	0%	
5	Groundwater Management Subdistrict of the TWCD	Alpha Hay Farms Augmentation	Conejos	CT2023-XXXX	\$2,229,000	Cole Bedford	0%	0%	

**NOT UNDER CONTRACT SUB \$98,715,000**

**GRAND TOTAL \$344,436,733**

**WATER PROJECT CONSTRUCTION LOAN PROGRAM  
LOAN REPAYMENT DELINQUENCY REPORT  
LOAN FINANCIAL ACTIVITY REPORT  
January 2023**

**The January 2023 Report for the Loan Program - Loan Repayment & Delinquency will be submitted along with the March Report at the March 2023 Board meeting. This is due to accounting personnel transition.**



# COLORADO

## Colorado Water Conservation Board

Department of Natural Resources  
1313 Sherman Street, Room 718  
Denver, CO 80203

January 15, 2023

Members of the 2023 Colorado General Assembly

Re: CWCB - Small Project Loan Report  
Loans Approved in Calendar Year 2022  
Construction Fund and Severance Tax Perpetual Base Fund

Pursuant to C.R.S. § 37-60-122(b), the Colorado Water Conservation Board (CWCB) is submitting the attached written determination of the basis for all loans under \$10,000,000 authorized during the 2022 calendar year. The report will be presented to the CWCB at the January 23-24, 2023 Board meeting.

The report will be posted on the web at [www.leg.colorado.gov](http://www.leg.colorado.gov) and on the CWCB website [www.cwcb.state.co.us](http://www.cwcb.state.co.us). A copy of the report has been submitted to the Legislative Library, Room 029 of the State Capitol Building. Paper copies of the Report can be made available upon request.

If you have questions or need additional copies of the report, please contact Ms. Daphne Gervis, Legislative Liaison, at 303-866-3311 x8664.

Sincerely,

Rebecca Mitchell, Director  
Colorado Water Conservation Board



# **Colorado Water Conservation Board**

CONSTRUCTION FUND  
AND  
SEVERANCE TAX  
PERPETUAL BASE FUND

## **SMALL PROJECT LOAN REPORT** (2022 CALENDAR YEAR)



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

Colorado Water Conservation Board  
Department of Natural Resources

January 15, 2023

## **PREFACE**

Pursuant to Section 37-60-122(b) of the C.R.S. the Colorado Water Conservation Board (CWCB) is required to submit a report by January 15<sup>th</sup> of each year to the Colorado General Assembly describing the basis of all Construction Fund and Severance Tax Perpetual Base Fund loans authorized by the CWCB under \$10,000,000. This report fulfills the CWCB reporting obligations for those “Small Project” loans for Calendar Year 2022.

The report includes a summary spreadsheet identifying each loan approval date, the project sponsor or borrower, the project name, the loan amount, and the name of the County and River Basin where the project is located. There were 12 new loan projects under \$10,000,000 approved by the CWCB in Calendar Year 2022. The total loan value is approximately \$26 million.

Included in the report is a loan project Data Sheet for each new loan project. The Data Sheet includes a project description, project location map, and other pertinent loan and project information.

January 15, 2023

**Colorado Water Conservation Board  
Small Project Loans  
For Calendar Year 2022**

	<b>Date Approved</b>	<b>Borrower</b>	<b>Project</b>	<b>Amount Approved</b>	<b>Funding Source*</b>	<b>County</b>	<b>Basin</b>
1	01/24/22	Town of Dove Creek	Reservoir No. 2	\$ 808,000	CF	Pueblo	Southwest
2	01/24/22	Triview Metropolitan District	Stonewall Springs Reservoir Complex	\$ 4,778,310	CF	Dolores	Arkansas
3	05/17/22	The City of Grand Junction	Kannah Creek Flowline Replacement	\$ 3,232,000	ST	Mesa	Gunnison
4	07/21/22	Grand View Irrigation Company	Siphon Repair Project	\$ 353,500	ST	Fremont	Arkansas
5	07/21/22	Sunnyside Park Ditch Company	Sunnyside Park Ditch Piping	\$ 654,480	ST	Chaffee	Arkansas
6	09/20/22	North Poudre Irrigation Company	Park Creek Expansion Project	\$ 6,544,800	ST	Larimer, Weld	South Platte
7	09/20/22	Morrisania Water Supply Company	Ditch Rehabilitation Project	\$ 141,400	ST	Garfield	Colorado
8	09/20/22	Smith and Emmons Ditch Company	Diversion Structures Replacement Project	\$ 414,100	ST	Weld	South Platte
9	09/20/22	Uncompahgre Valley Water Users Association	Taylor Park Hydro Powerplant	\$ 1,701,850	ST	Gunnison	Gunnison
10	09/20/22	Town of Keenesburg	Alluvial Water Rights Extension Project	\$ 2,121,000	ST	Weld	South Platte
11	11/16/22	Rio Grande Water Conservancy District – Special Subdistrict No. 3	Alpha Hay Farms Augmentation	\$ 2,580,550	ST	Conejos	Rio Grande
12	11/16/22	Groundwater Management Subdistrict of the TWCD	Alpha Hay Farms Augmentation	\$ 2,251,290	ST	Conejos	Rio Grande

**Total Amount Approved in 2022**

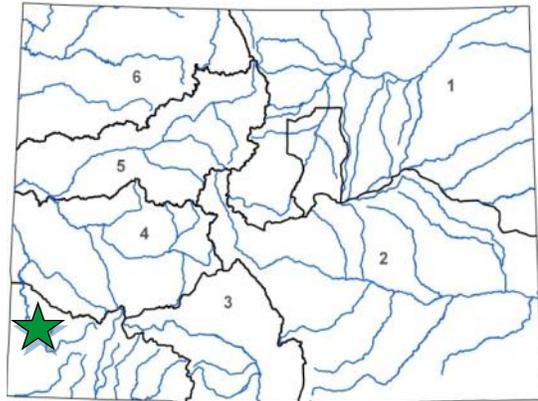
**\$ 25,581,280**

\*Indicates whether the funding source is from Construction Fund (CF) or Severance Tax Fund (ST)

**Loan Increases in 2022**

1	01/24/22	City of Victor	Victor Reservoir No. 2 Dam Rehabilitation	\$ 136,350	CT	Teller	Arkansas
2	03/15/22	South Platte Ditch Company	Diversion Structure Rehabilitation	\$ 378,750	ST	Washington	South Platte
3	05/17/22	The City of Grand Junction	Carson Reservoir Dam Rehabilitation Project	\$ 1,313,000	ST	Mesa	Colorado
4	09/20/22	Genesee Water and Sanitation District	Genesee Reservoir No. 1 Enlargement	\$ 1,313,000	CF	Jefferson	South Platte

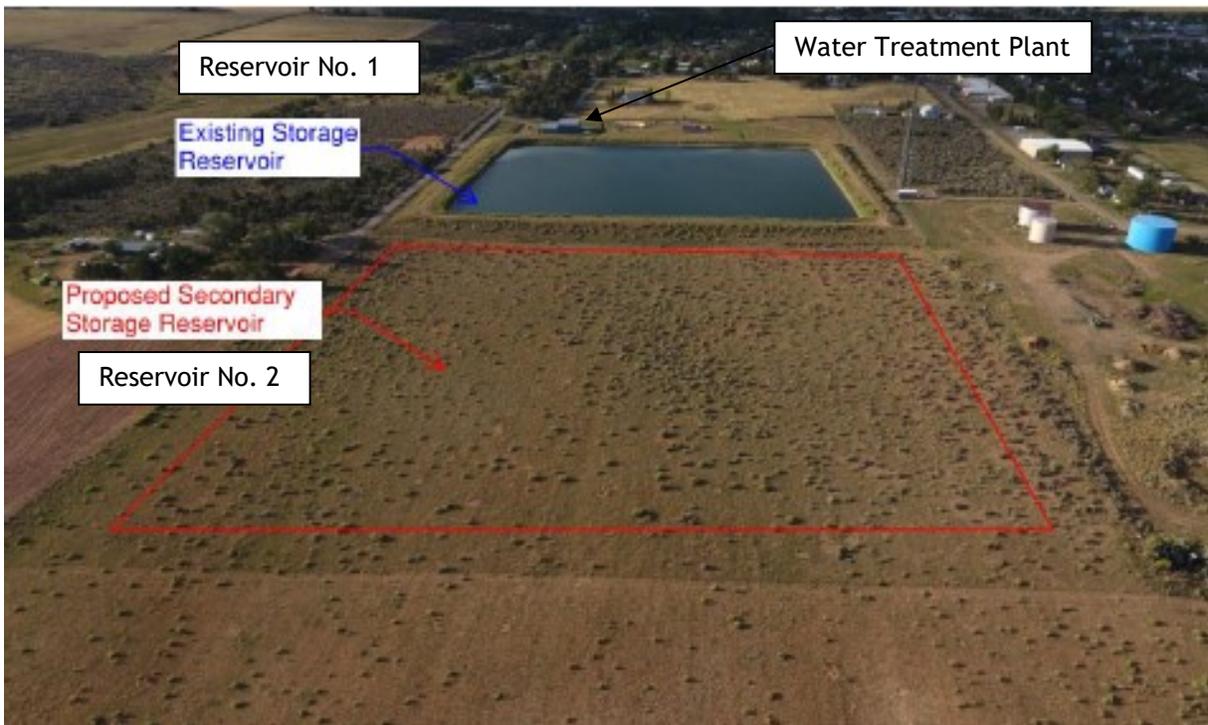
L O A N   D E T A I L S	
Project Cost:	\$1,600,000
Water Plan Grant	\$800,000
CWCB Loan (with 1% Service Fee):	\$808,000
Loan Term and Interest Rate:	30 Yrs @ 1.55%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T   D E T A I L S	
Project Type:	Reservoir Storage
Average Annual Storage:	95 AF
New Storage Created:	100 AF



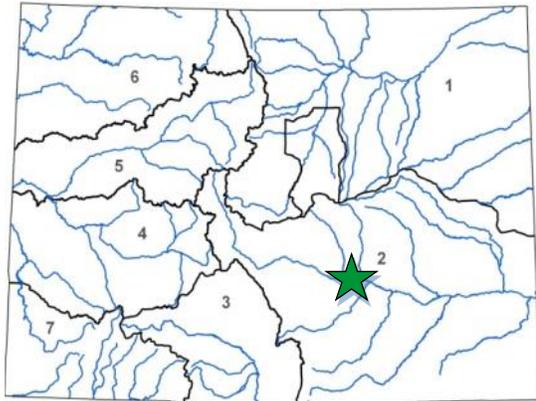
L O C A T I O N	
County:	Dolores
Water Source:	Dolores River
Drainage Basin:	Southwest
Division: 7	District: 32

The Town of Dove Creek (Town) provides domestic water to approximately 501 households and 200 additional users of water from a permanent water fill station in the Town’s service area. Over the last several years, annual water use for the Town has averaged 125 AF. The Town’s water is supplied by the Dolores Water Conservancy District via an open canal, Dove Creek Canal, to the Town’s water treatment plant. Water is stored in an existing 95 AF reservoir adjacent to the treatment plant (Reservoir No. 1).

The Project will design and construct an additional 100 AF reservoir, Reservoir No. 2, adjacent to the existing reservoir on the Town’s property. This additional storage space will allow the Town to store more of their already contracted water and will help meet the Town’s water demand. The Project will be funded in conjunction with a Water Plan Grant approved at the September 2021 CWCB meeting in the amount of \$800,000. Construction is expected to begin in late 2022, and will be completed by December 2023.



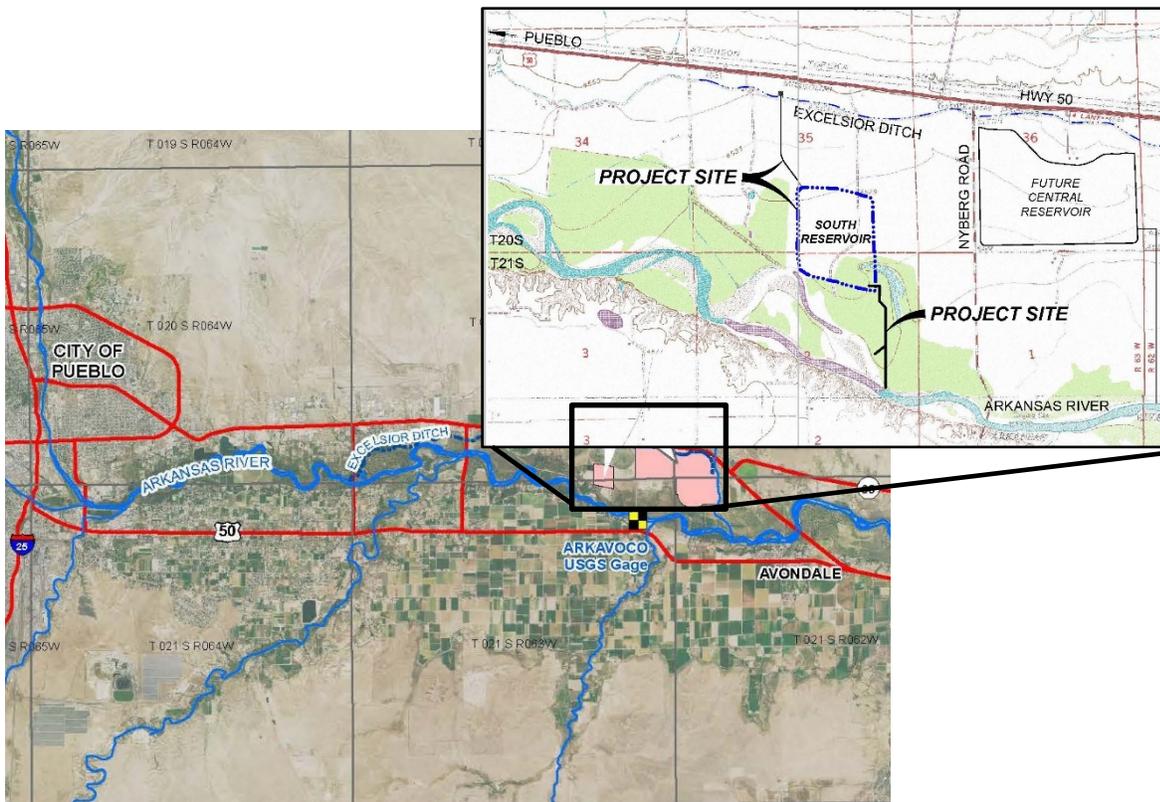
L O A N   D E T A I L S		
Project Cost:	\$4,731,000	
CWCB Loan (with 1% Service Fee):	\$4,778,310	
Loan Term and Interest Rate:	30 Yrs @ 2.05%	
Funding Source:	Construction Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
0%	0% Low - 0% Mid - 100% High	0%
P R O J E C T   D E T A I L S		
Project Type:	Reservoir Rehabilitation	
New Storage:	2,050 AF	
Average Annual Diversions:	750 AF	



The Triview Metropolitan District (District) was formed in 1985 and provides water, wastewater and stormwater services along with maintenance of roads, parks, and other amenities within the Town of Monument. This service area includes 1,988 homes and 60 commercial customers.

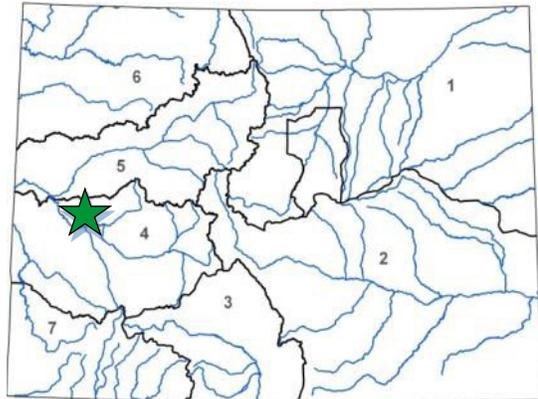
L O C A T I O N	
County:	Pueblo
Water Source:	Arkansas River
Drainage Basin:	Arkansas
Division: 2	District: 14

The Stonewall Springs Reservoir Complex consists of three planned reservoirs: South, Central and East Reservoirs. This Project focuses on the South Reservoir and will support the replacement of non-renewable Denver Basin groundwater supplies with renewable surface water supplies and will not be used to expand the District’s service area. Work included in the project is comprised of construction of a diversion structure, inlet channel, spillway, remote telemetry and monitoring equipment, installation of a pump station system from the Arkansas River, a SCADA system for the diversion structure, and outlet works for the reservoir. Construction is expected to be completed in the end of 2022.





L O A N   D E T A I L S		
Project Cost:	\$3,500,000	
CWCB Loan (with 1% Service Fee):	\$3,232,000	
Loan Term and Interest Rate:	20 Yrs @ 1.65%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
0%	100% Low - 0% Mid - 0% High	0%
P R O J E C T   D E T A I L S		
Project Type:	Municipal System Rehabilitation	
Average Annual Diversions:	5,300 AF	

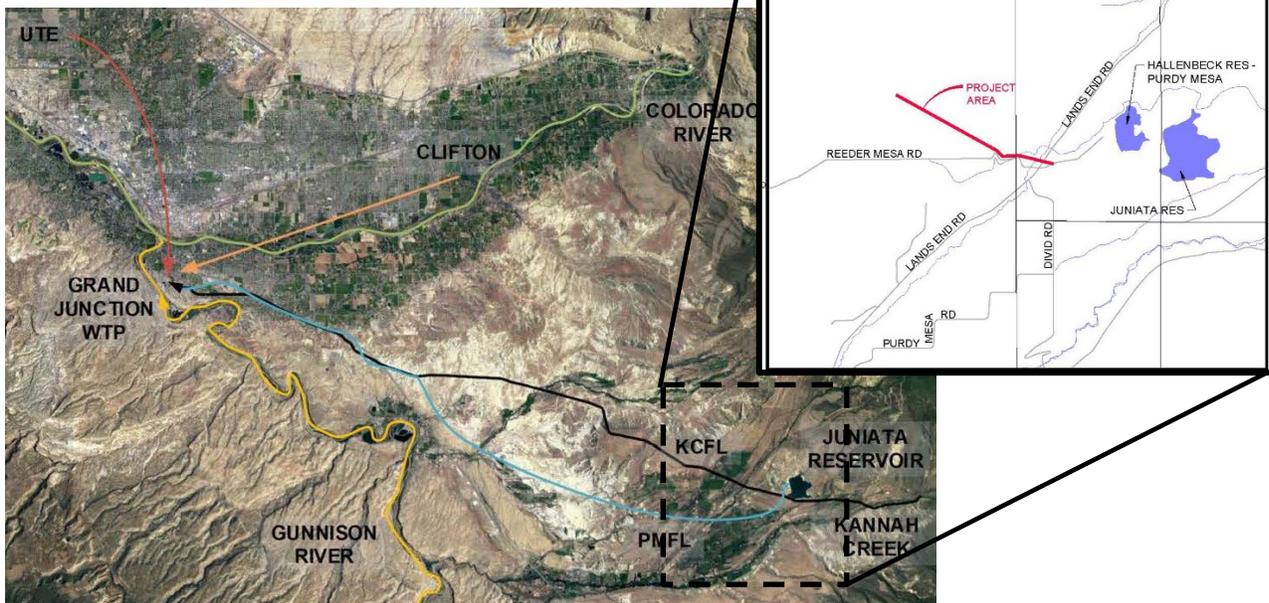


L O C A T I O N			
County:	Mesa		
Water Source:	Kannah Creek		
Drainage Basin:	Gunnison Basin		
Division:	4	District:	42

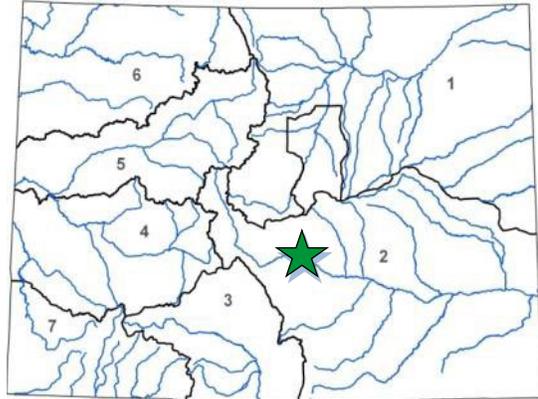
The City of Grand Junction, acting by and through its Water Activity Enterprise, has numerous water and storage rights on the Grand Mesa, as well as water rights in the Gunnison and Colorado Rivers. These rights can be used to provide for the municipal water supply needs of a portion of the City. Due to poor water quality, however, the water rights on the Gunnison and Colorado Rivers are largely unused. The City currently serves approximately 30,000 residents, however, this number is projected to grow to 49,000 by 2069.

30,000 residents, however, this number is

The 17.5 mile Kannah Creek Flowline (KCFL or Line) supplies water from Kannah Creek to Juniata Reservoir and acts as a secondary supply line to carry water from the Creek directly to the Grand Junction water treatment plant in case the Purdy Mesa Flowline is unavailable. The Line has reached the end of its useful life as shown by numerous breaks that necessitated replacement of most of the Line. This project will replace approximately 3 miles of the upper segment of the Line with a 20" PVC pipe providing a new design life of 100 years and an increase in capacity to 9.8 MGD. The project will be funded in conjunction with a \$300,000 Bureau of Reclamation grant. Construction is expected to begin in the fall of 2022 and be completed in early 2023.



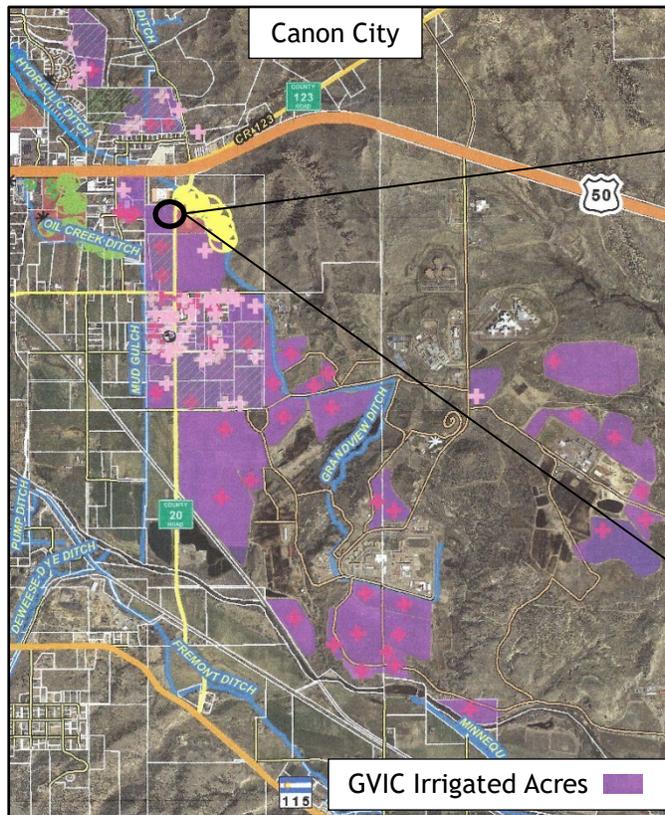
L O A N   D E T A I L S		
Project Cost:	\$350,000	
CWCB Loan (with 1% Service Fee):	\$353,500	
Loan Term and Interest Rate:	30 Yrs @ 2.25%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
23%	0% Low - 77% Mid - 0% High	0%
P R O J E C T   D E T A I L S		
Project Type:	Ditch Rehabilitation	
Average Annual Diversions:	7,883 AF	



The Grand View Irrigation Company is a mutual ditch company incorporated in 1955 that currently provides irrigation water to 54 shareholders in its 600-acre service area located in and around Canon City. Irrigated acreage is typically cattle ranch, hay fields, and small truck farms.

L O C A T I O N			
County:	Fremont		
Water Source:	Arkansas River		
Drainage Basin:	Arkansas		
Division:	2	District:	12

The project will provide emergency repairs to a siphon that allows irrigation water to flow under Highway 50 and several commercial properties including a Home Depot. In November 2021 the siphon was shut down to stop water coming out of the ground and flooding the Home Depot parking lot. A contractor was brought in to determine the cause, but inspection was not possible due to standing water in the siphon. In April 2022, the contractor returned and was able to determine that caulking in some of the pipe joints had deteriorated, leading to a significant release of water, and that the monitoring pipe was not functioning due to debris blockage. The loan will repay costs for inspection, engineering, and legal fees in addition to repairs to the siphon and the monitoring system. Construction was completed in May of 2022.



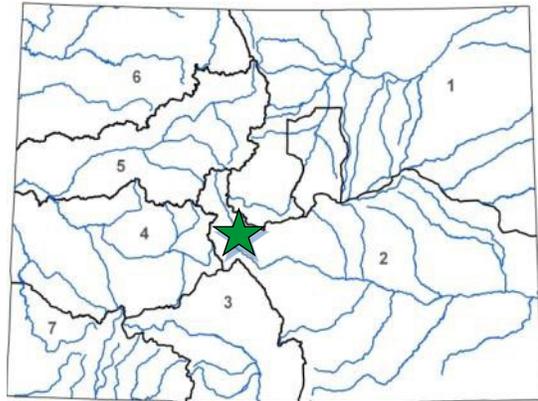


## Sunnyside Park Ditch Piping

Sunnyside Park Ditch Company

July 2022 Board Meeting

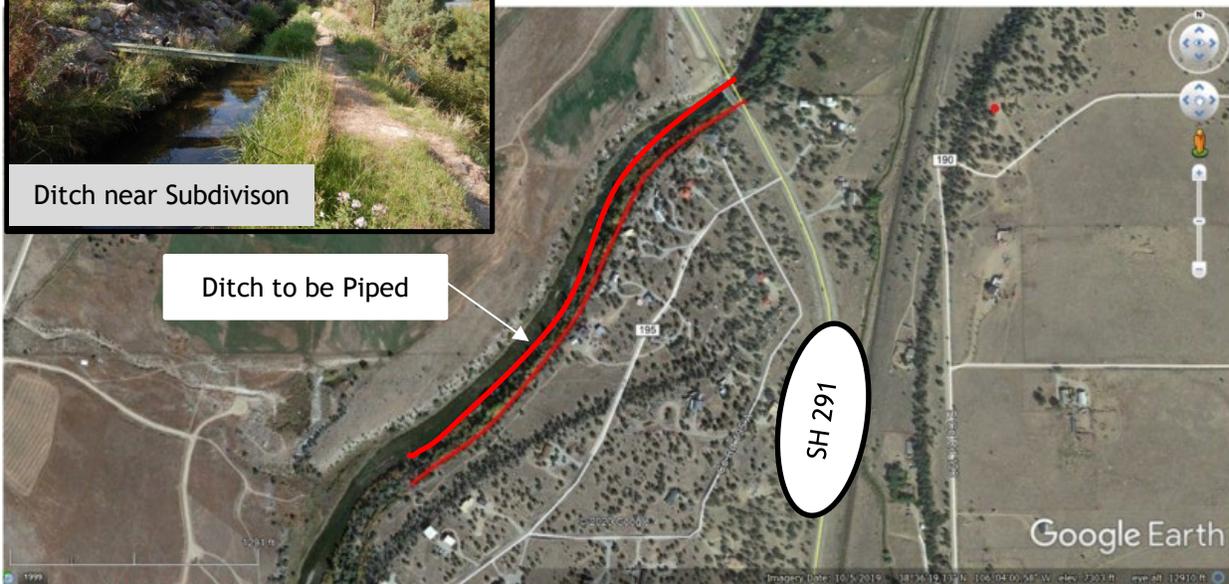
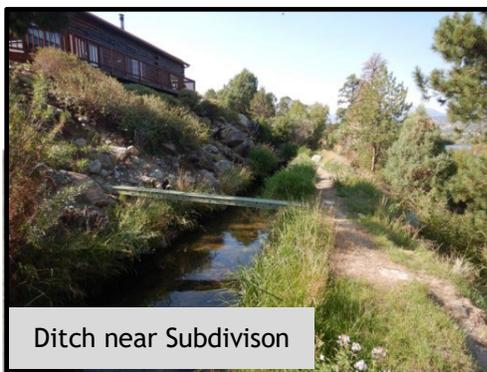
L O A N   D E T A I L S		
Project Cost:	\$850,000	
CWCB Loan (with 1% Service Fee):	\$654,480	
Loan Term and Interest Rate:	10 Yrs @ 1.00%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
100%	0% Low - 0% Mid - 0% High	0%
P R O J E C T   D E T A I L S		
Project Type:	Ditch Piping	
Average Annual Diversions:	5,000 AF	



The Sunnyside Park Ditch Company was incorporated in 1884 and provides direct flow irrigation water to 17 shareholders 5 miles northwest of Salida. The water is used year round for stock water, and from April through October for irrigation of about 1,000 acres. The upper portion of the ditch runs along the Arkansas River for approximately 2 miles, and passes by two growing subdivisions south of SH 291.

L O C A T I O N			
County:	Chaffee		
Water Source:	Arkansas River		
Drainage Basin:	Arkansas		
Division:	2	District:	11

The project will pipe approximately 3,000 feet of the ditch where it passes near the two subdivisions. The ditch has failed multiple times in this area due to issues stemming from the subdivisions located above it, and Natural Resource Conservation Service (NRCS) has identified it as needing treatment. Piping the ditch in this area will eliminate ditch failures and seepage losses, and reduce overall maintenance requirements. The project will primarily be funded with NRCS grant funds, a Chaffee County Common Ground grant, Colorado State Conservation Board grant funds, and a WSRF grant approved at the March 2022 CWCB Board Meeting in the amount of \$127,300. The loan will cover interim project costs. Construction is expected to begin in September Of 2022 and be completed in the spring of 2023.



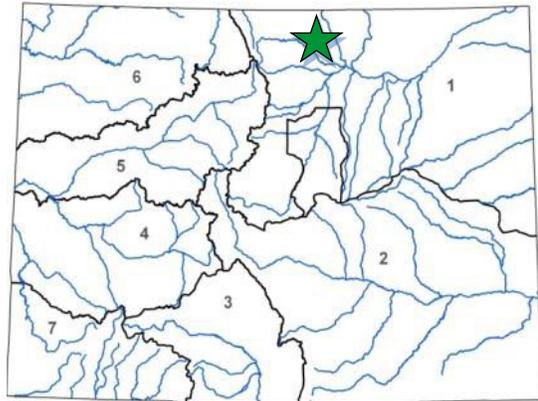


## Park Creek Expansion Project

North Poudre Irrigation Company

September 2022 Board Meeting

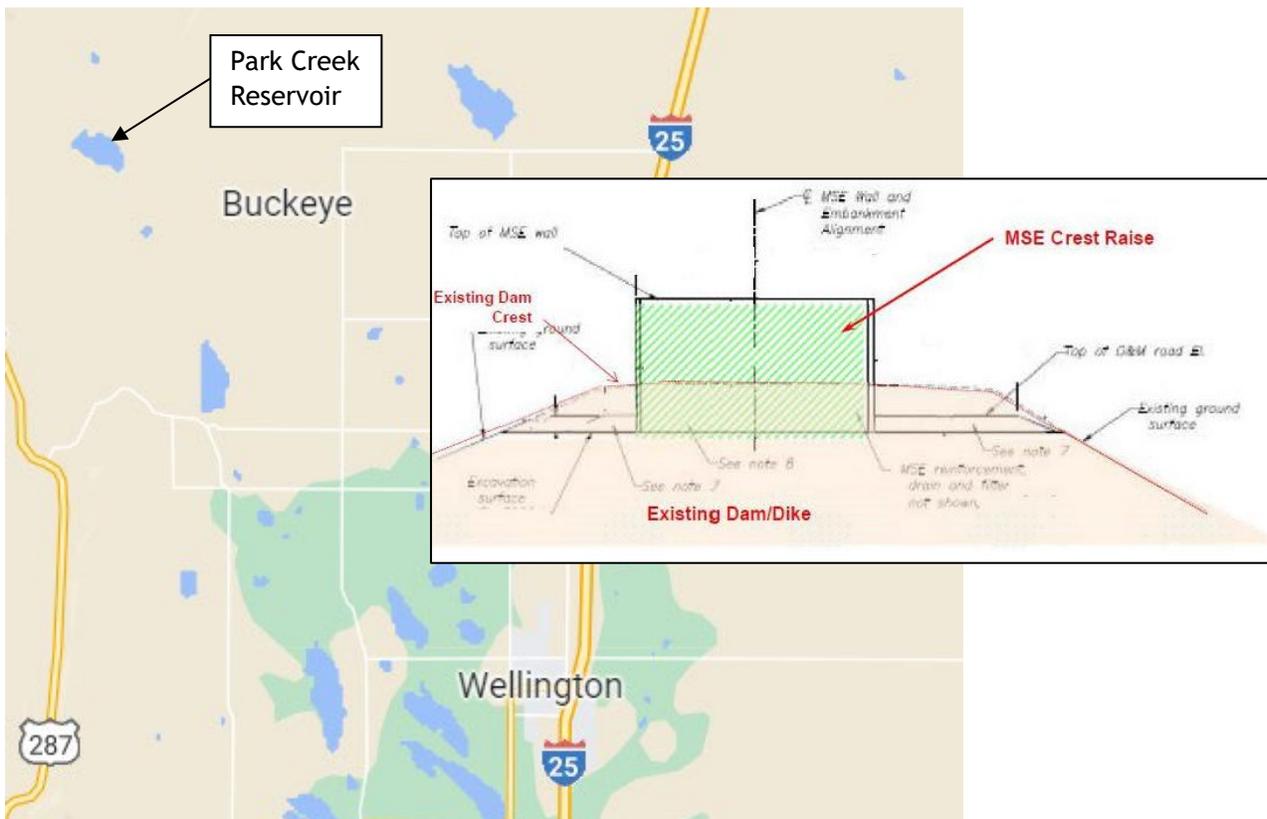
L O A N   D E T A I L S		
Project Cost:	\$6,580,000	
Water Plan Grant	\$100,000	
CWCB Loan (with 1% Service Fee):	\$6,544,800	
Loan Term and Interest Rate:	30 Yrs @ 2.55%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
19%	12% Low - 60% Mid - 7% High	2%
P R O J E C T   D E T A I L S		
Project Type:	Reservoir Enlargement	
Storage Created:	3,000 AF	
Average Annual Diversions:	65,000 AF	



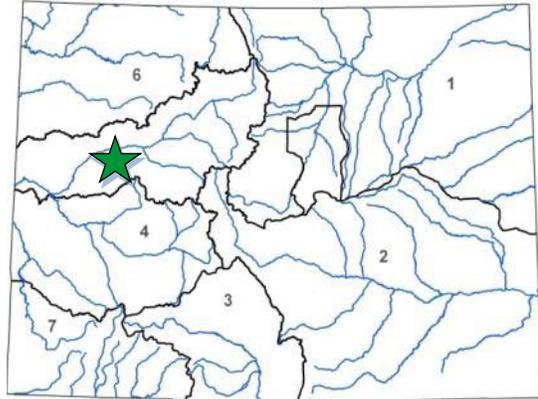
L O C A T I O N	
County:	Larimer, Weld
Water Source:	Park Creek
Drainage Basin:	South Platte
Division:	1      District: 3

The North Poudre Irrigation Company (Company) is a mutual ditch company that was incorporated in 1901. The Company provides water to 250,000 residents and 23,000 acres of agricultural land in north-central Colorado through a system of 21 reservoirs and 200 miles of canals, ditches and laterals.

The project will be funded in conjunction with a Water Plan Grant (Water Storage and Supply) and will rehabilitate and enlarge the existing dam. The enlargement will consist of installing a parapet wall along the length of the existing dam crest, and a 10 foot buttressed concrete overflow weir in the spillway thereby raising the normal water storage level by 10 feet. The loan and grant will fund the complete project. Construction is expected to begin in the fall of 2022 and be completed before the 2024 irrigation season.



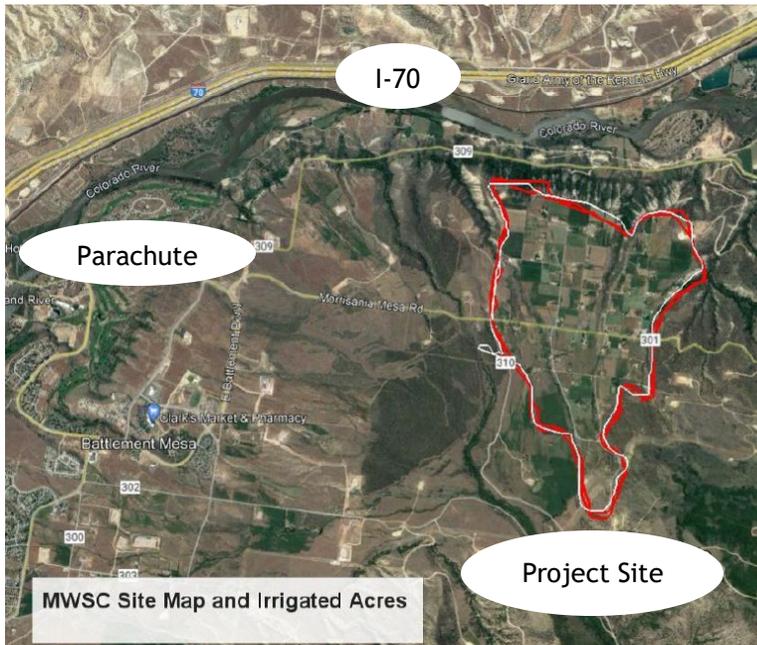
L O A N   D E T A I L S	
Project Cost:	\$420,000
CWCB Loan (with 1% Service Fee):	\$141,400
Loan Term and Interest Rate:	20 Yrs @ 2.45%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal
100%	0% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	2,448 AF



The Morrisania Water Supply Company, established in 1910, owns and operates diversion and supply infrastructure primarily for irrigation, which is supplied with water from Battlement Creek. The Company’s infrastructure includes a headgate structure, more than three miles of mainlines, and twenty-three diversion boxes, which serve 65 shareholders on 880 acres.

L O C A T I O N	
County:	Garfield
Water Source:	Battlement Creek
Drainage Basin:	Colorado
Division:	5
District:	45

The Project will improve the most vulnerable portions of the Company’s ditch system. The Company’s headgate will be improved with new concrete where the existing is spalled and cracked and immediately downstream of the headgate, a 1,350 foot reach of open ditch will be piped with 24-inch HDPE. Rehabilitation of the headgate structure will reduce the risk of failure and piping a long length of open ditch will reduce transit and evaporative losses. The contractor intends to mobilize in early October and complete the work by the 2023 irrigation season.



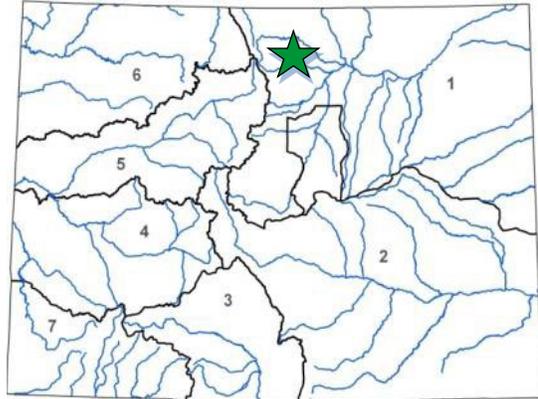


# Diversion Structures Replacement Project

Smith and Emmons Ditch Company

September 2022 Board Meeting

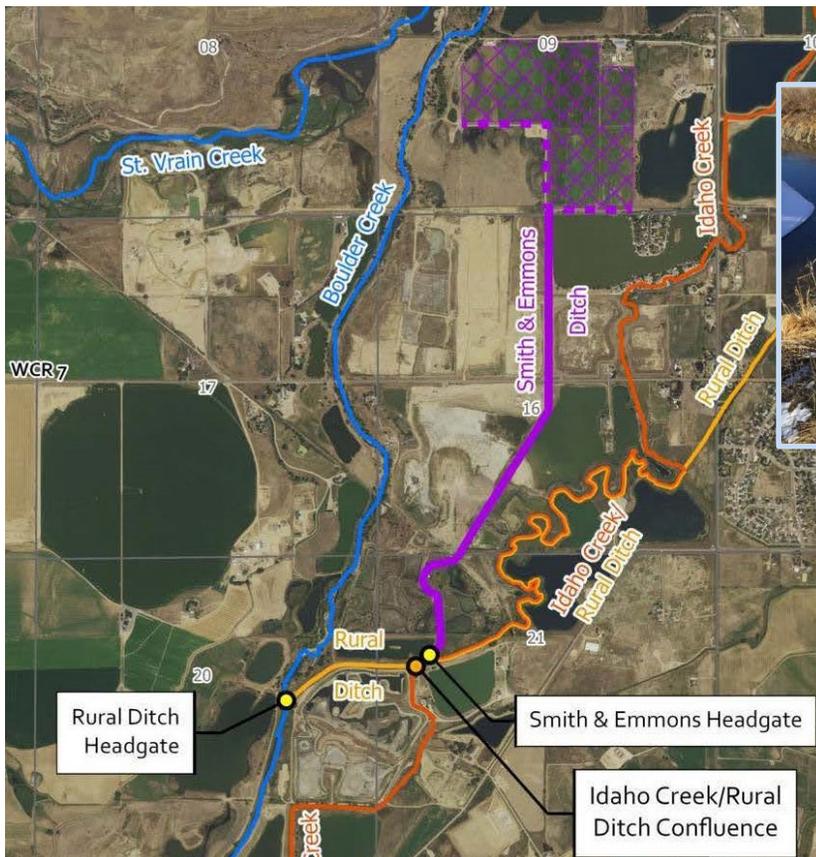
L O A N   D E T A I L S	
Project Cost:	\$455,550
CWCB Loan (with 1% Service Fee):	\$414,100
Loan Term and Interest Rate:	30 Yrs @ 3.90%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
22%	0% Low - 31% Mid - 3% High      44%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	740 AF



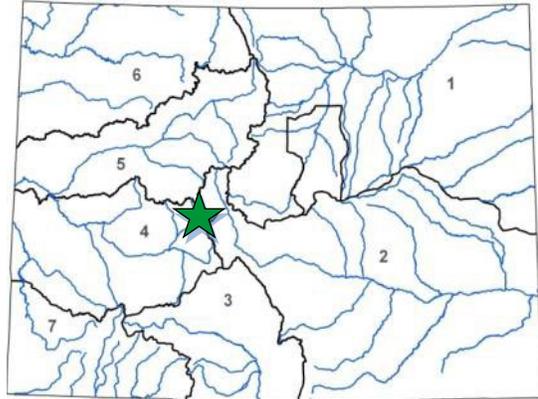
The Smith and Emmons Ditch Company is a mutual ditch company established in 1946. The Company operates and maintains the Smith and Emmons Ditch for the benefit of five agricultural, municipal, and commercial shareholders.

L O C A T I O N	
County:	Weld
Water Source:	Boulder Creek
Drainage Basin:	South Platte
Division:	1      District: 6

The Company owns three structures at the head of their ditch system which will be replaced as part of this Project: a headgate structure, measurement flume, and check structure. The headgate's stability is threatened by leakage occurring around the structure and the measurement flume is of a non-standard configuration making it difficult to use. Additionally, the diversion check structure will be improved. The Company intends to undertake the project during the fall and winter of 2022. The Project will likely be completed in March 2023.



L O A N   D E T A I L S	
Project Cost:	\$3,280,000
CWCB Loan (with 1% Service Fee):	\$1,701,850
Loan Term and Interest Rate:	30 Yrs @ 2.0%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agricultural - Hydroelectric	
P R O J E C T   D E T A I L S	
Project Type:	Hydroelectric
Average Annual Diversions:	870,000 AF



The Uncompahgre Valley Water Users Association (Association) was organized in 1902 and currently provides irrigation water to over 85,000 acres in Montrose and Delta Counties. It operates the Bureau of Reclamation’s Uncompahgre Unit, which includes Taylor Park Reservoir north of the Town of Gunnison.

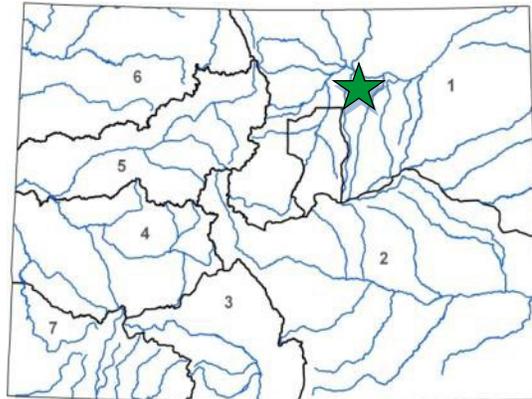
L O C A T I O N	
County:	Gunnison
Water Source:	Taylor River
Drainage Basin:	Gunnison
Division:	4      District: 59

The Project will construct a 500 KW hydroelectric power plant at Taylor Park Reservoir to be owned and operated by a joint venture named Taylor River Hydro, LLC, which is made up of the Association and Gunnison County Electric Association (GCEA). Generated electricity will serve the GCEA service area. Funding for the project will be evenly split between the two partners. This loan will pay for the Association’s portion of project costs, with construction commencing in the spring of 2023 and continuing for approximately 6 months.





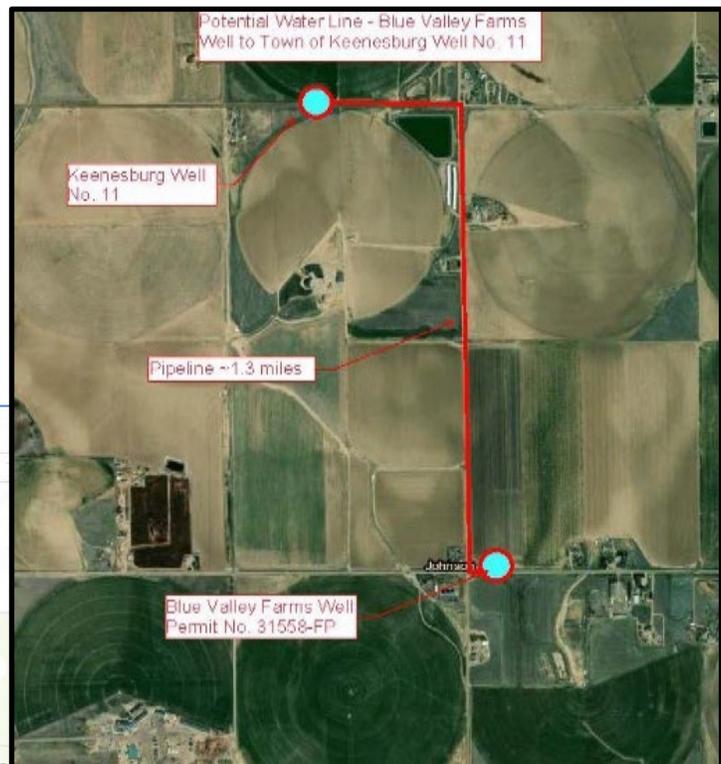
L O A N D E T A I L S	
Project Cost:	\$3,110,000
CWCB Loan (with 1% Service Fee):	\$2,121,000
Loan Term and Interest Rate:	30 Yrs @ 2.70%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 100% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Water Rights Purchase
Average Annual Delivery:	233 AF



L O C A T I O N	
County:	Weld
Water Source:	Lost Creek
Drainage Basin:	South Platte
Division:	1
District:	1

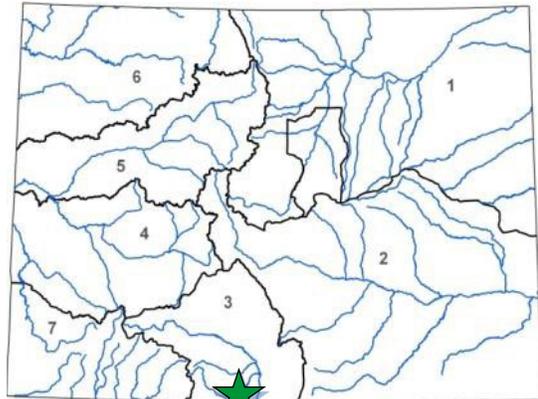
The Town of Keenesburg, by and through its water activity enterprise, serves 854 taps with an estimated population of 2,500. The Town is experiencing significant population growth, including requests for annexation, and is expected to continue to grow thereby requiring new water supplies. Water for the Town is currently served by 5 wells in the Laramie-Fox Hills Aquifer, which has high levels on fluoride requiring blending with another well in the Lost Creek (LC) alluvial aquifer to meet state water quality standards.

The Project includes the purchase of a LC well, and construction of a well pump and 1.3 miles of pipeline to connect the well to Town's existing water system. The Town anticipates using the loan to fund 70% of the Project. The Town intends to complete the purchase of the water rights when funds are secured and a joint application for municipal use is approved; construction is expected to begin in late 2023 and complete in late 2024.





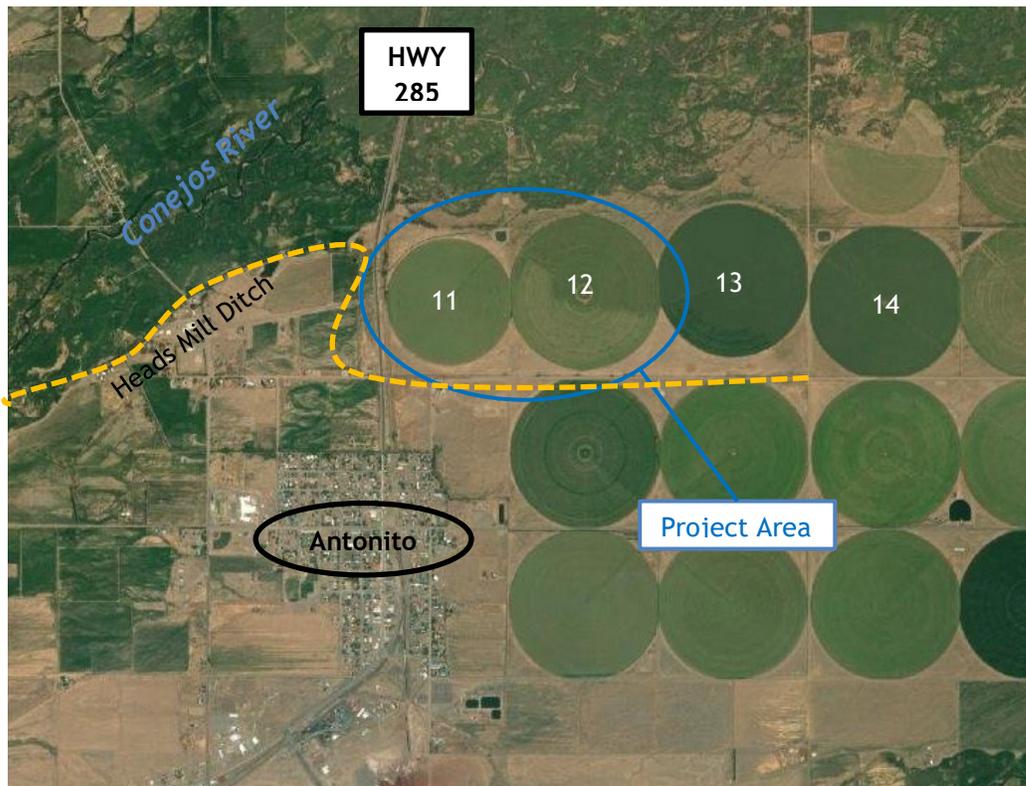
L O A N D E T A I L S	
Project Cost:	\$5,158,575
CWCB Loan (with 1% Service Fee):	\$2,580,550
Loan Term and Interest Rate:	30 Yrs @ 2.50%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
70%	15% Low - 0% Mid - 0% High 15%
P R O J E C T D E T A I L S	
Project Type:	Water Rights Purchase
Average Annual Withdrawals:	30,000 AF



L O C A T I O N	
County:	Conejos
Water Source:	Conejos River, Groundwater
Drainage Basin:	Rio Grande
Division:	3 District: 22

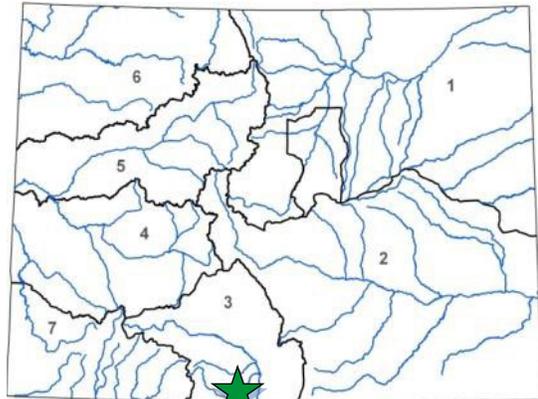
The Special Improvement District No. 3 of the Rio Grande Water Conservation District (Subdistrict No. 3) was established in 2017 to provide well owners in the Conejos Response Area a system to promote responsible groundwater management and remedy injuries to surface water rights from groundwater use in its service area. The Subdistrict currently consists of 166 wells, with additional well owners expressing an intent to contract for coverage.

The project will include the purchase of land and associated water rights for two center-pivot irrigation circles northeast of Alamosa, the construction of pipeline and/or augmentation stations, and necessary measurement devices. The water right purchase will include 433.91 AF of surface water and 89 AF of groundwater consumptive use to replace depletions to the Conejos River and the Rio Grande. Currently, the water is leased by agreement with the landowner, Alpha Hays Farms, LLC. and is in an approved Substitute Water Supply Plan. The purchase will be made in the spring of 2023 with project bidding and construction occurring soon after.





L O A N   D E T A I L S	
Project Cost:	\$5,158,575
CWCB Loan (with 1% Service Fee):	\$2,251,290
Loan Term and Interest Rate:	30 Yrs @ 2.10%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
91%	2% Low - 0% Mid - 0% High      7%
P R O J E C T   D E T A I L S	
Project Type:	Water Rights Purchase
Average Annual Withdrawals:	25,000 AF



The Groundwater Management Subdistrict of the Trinchera Water Conservancy District (Groundwater Management Subdistrict) was formed in 2018 in order to pursue a Ground Water Management Plan as an alternative to individual augmentation plans. The Subdistrict consists of 177 wells used located in the confined and unconfined aquifers in Costilla County.

L O C A T I O N	
County:	Conejos
Water Source:	Conejos River
Drainage Basin:	Rio Grande
Division:	3      District: 22

The project will include the purchase of land and associated water rights for two center-pivot irrigation circles northeast of Antonito for augmentation and replacement of depletions. These surface water rights will provide 569 AF of consumptive use to replace depletions on the Conejos River and the Rio Grande. Currently the water is leased by agreement with the landowner, Alpha Hay Farms, LLC. The purchase will be made in the spring of 2023.

