

COLORADO Colorado Water Conservation Board Department of Natural Resources

DIRECTOR'S REPORT

May 2023

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

STATE OF COLORADO



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

TO:Colorado Water Conservation Board MembersFROM:Rebecca Mitchell
Rosie MajorDATE:May 17-18, 2023

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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

Local Capacity and CWCB Technical Assistance Grants Director's Report – May 2023

LOCAL CAPACITY GRANTS:

H.B. 22-1379 established \$2.5 million for Local Capacity grants. The following table summarizes Local Capacity grant activity through May 1, 2023.

Pending Applications

There are no pending applications as of May 1, 2023. Program staff have made numerous contacts with potential applicants during the spring and expect several new applications soon.

Approved Applications						
Applicant	Project	Total Project Budget	Grant Award			
Ute Mountain Utes Tribal Government	Pre-Development Work (PL-566)	\$70,000	\$52,500			
American Rivers	Wetland/Riparian Projects in the San Luis Valley	\$241,000	\$180,000			
Colorado River Water Conservation District	Colorado River Drought Response Project	\$578,840	\$434,130			
Colorado Rio Grande Restoration Foundation	Rio Grande Basin Capacity to Secure Federal Project Funding	\$268,800	\$195,000			
Collbran Water Conservation District	Plateau Valley Pre-Development Work (PL-566)	\$70,000	\$52,500			
West Divide Water Conservancy District	Martin Reservoir Enlargement and Reconfiguration	\$315,906	\$118,464			
	Total:	\$1,544,546	\$1,032,594			

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CWCB TECHNICAL ASSISTANCE GRANTS:

H.B. 22-1379 established \$2.5 million 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 for applications in May 2023.

COLORADO RIVER BASIN

COLORADO RIVER WATER USE-

2023 Colorado River Storage as of April 30, 2023					
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity		
Lake Mead	1,049.69	7.661	29%		
Lake Powell	3,524.99	5.544	24%		
Total System Active Storage		19.798	34%		
2023 Total Active Storage		20.449	34%		
		Flow (MAF)	Percent of Average		
Forecasted Unregulated Inflow into Powell (Forecasted Water Year 2023)		14.272	149%		

*Note MAF = million acre-feet

Wild and Scenic Fund

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 March 23, 2023 meeting, the SG approved the annual budget and the annual monitoring plan. The Monitoring Committee is currently writing the Annual Monitoring Report for 2023 and working with contractors on data collection. The Channel Maintenance Flow monitoring committee is working to hire consultants to complete cross-section, sediment, and lidar measurements. The Cooperative Measures committee continues to meet monthly and has resumed providing weekly updates on Colorado River conditions. That committee also continues to consider potential water leases as a pilot project to improve streamflow or water temperature in future years.

Lower Dolores Plan Working Group

The Lower Dolores Plan Working Group continues to work on the designation of a National Conservation Area in a portion of the Dolores River and implementing a monitoring plan to improve native fish habitat and understanding of native fish needs on the Dolores River. These efforts are aimed at protecting the Outstandingly Remarkable Values (ORVs) without the need for the BLM to find portions of the Lower Dolores River eligible for Wild and Scenic designation. The legislation has been reintroduced in both the House and Senate this year.

The Native Fish Monitoring and Recommendations Team (M&R Team) met in April of 2023 to hear updates and plan this year's monitoring efforts on the Dolores River. Fort Lewis College, which is assisting the M&R Team, submitted a proposal to the Wild and Scenic fund to assist with group coordination, additional monitoring, and analysis of native fish migration patterns for \$73,565. CWCB staff reviewed the application and recommended approval of the fund for this project. Director Mitchell has approved it, and contracting can commence when all remaining approvals through the CWCB board have been completed.

Other Wild and Scenic Updates

Deep Creek

The U.S. Forest Service (USFS) and Bureau of Land Management (BLM) found Deep Creek eligible for Wild and Scenic protections and completed a Suitability Study in 2014. Deep Creek drains portions of the Flat Tops Wilderness Area, carving a deep canyon before reaching the Colorado River near Dotsero. The primary Outstandingly Remarkable Values identified by the BLM and the USFS include rare and pristine riparian plant communities, unique cave and karst systems, and exceptionally scenic landforms, vegetation, and water features.

Starting in 2017, American Rivers convened a diverse stakeholder group to discuss the possible designation of Deep Creek as a Wild and Scenic River. The Stakeholder Group (SG) includes the USFS, BLM, Colorado Parks and Wildlife (CPW), local landowners, American Rivers, and various recreation and environment-based groups. CWCB staff have been involved with the stakeholder group for several years as they worked on drafting federal legislation and evaluated options for flow protection if Deep Creek is designated into the Wild and Scenic Rivers program.

The SG's Instream Flow (ISF) Committee proposed a CWCB-held ISF water right to protect all unappropriated flow with a water development allowance (WDA) to meet reasonable potential future uses. CWCB hired SGM in early 2022 to develop the WDA and that work is nearing completion. The proposed ISF has been generally supported by the SG, but additional discussion continues to address concerns related to the WDA and the extent of the ISF reach.

CWCB staff is also in discussions with Colorado River Water Conservation District (River District) staff on an agreement regarding terms and conditions to specify how the potential ISF would operate, and additional terms related to the WDA. River District prefers an agreement on these terms and conditions before they can support the Wild and Scenic designation in federal legislation. CWCB staff may request that the Board approve these terms and conditions at a future Board Meeting.

Crystal River

The Crystal River from the headwaters to the Sweet Jessup canal headgate was determined to be eligible for inclusion in the Wild and Scenic program in the 1980s and again in 2002. Over the years, a number of efforts have discussed potential Wild and Scenic designation, but these efforts have largely stagnated. Currently, there is renewed interest and a stakeholder group has formed to gauge community-wide perspectives. The group hired a facilitator to help make decisions on whether to pursue a designation or an alternative path. The group is currently funded by the Pitkin County Healthy Rivers Program, River District, and American Rivers. CWCB staff will begin attending meetings to provide information on CWCB programs.

WATERSHED AND FLOOD UPDATES

Riverscape Restoration Monitoring

Stream restoration practitioners, scientists, and stakeholder groups are becoming increasingly aware of the importance of healthy riverscapes, i.e., stream channel and floodplain corridors. Riverscape restoration is sought as a partial solution to environmental problems such as wildfire, drought, flood, climate change, disaster preparedness, sediment mitigation, water quality impairments, biodiversity loss, and fish and wildlife habitat loss. As the demand for restoration ramps up, there is increasing need for data to evaluate the effectiveness of these efforts. Restoring natural riverscapes may change the way water flows through a site, and monitoring will help inform if and how it affects streamflow. The CWCB is building a scope of work with its technical assistance team to monitor riverscape restoration projects.

CWCB staff and technical consultants are currently identifying what data (type, precision, accuracy, duration) is needed to address the efficacy of riverscape restoration as it relates to the topics above. Surface-water discharge, groundwater levels, orthophotography, digital elevation (topography), sediment, vegetation, soil, water chemistry, and other ecological data collection methods will be reviewed with advice from experts in these fields. Monitoring methods will be developed by identifying techniques that can be reasonably applied within budget constraints to test hypotheses or identify patterns and trends. Before-after, control-impact, and reference-treatment site comparisons will be considered as possible study design strategies, helping to focus the selection of treatment, control, and reference study sites. Site selection will begin with the pool of restoration projects currently funded or planned through the CWCB's Watershed Health programs but may be expanded to meet program goals. -Chris Sturm

Colorado Healthy Rivers Fund – Accepted Grants 2023

The Colorado Healthy Rivers Fund was born from Senate Bill 02-087, allowing for voluntary individual contributions from State tax returns to "Assist in the restoration and protection of lands and natural resources within watersheds in the State". Since 2003, the CHRF has been successfully funding and implementing local water enhancement projects throughout all major basins in Colorado. Managed through a unique partnership between the Colorado Water Conservation Board (CWCB), the Water Quality Control Division (WQCD) and the Colorado Watershed Assembly (CWA). The CHRF helps local organizations with their on the ground efforts aimed at improving their local watersheds through planning efforts and project implementation.

This year 10 out of 20 applicants were approved for funding. A total of \$170,305 was allocated for these projects and the administration of the projects is through the CWA. Below is an overview of the all the accepted grants.

208 Region 2 – Nonpoint Source Watershed Plan

Grantee: North Front Range Water Quality Planning Association

Basin: South Platte

Award: \$20,000

Summary: The goal of this project is to prepare a comprehensive Environmental Protection Agency (EPA) 9-Element Nonpoint Source (NPS) Watershed Plan ("NPS Plan") for the Section 208 Region 2 area in Colorado, which includes Larimer and Weld counties. The North Front Range Water Quality Planning Association (NFRWQPA, or "Association") will coordinate the project with substantial regional stakeholder collaboration and input. This project is timely, as the Section 208 Region 2 area is experiencing rapid growth, creating additional stressors on watersheds and water quality. Water quality impacts in these areas can be significant, and the best time to address the potential effects is before they happen as part of planning for growth. Developing an NPS Plan is essential in identifying priority actions and projects to improve water quality. For this project, the NPS Plan will concentrate on portions of the Cache la Poudre, Middle South Platte, St. Vrain Creek, and Big and Little Thompson watersheds emphasizing areas within the Section 208 Region 2 area (Larimer and Weld Counties) experiencing growth. The Plan will focus on developing actions and projects outside permitted MS4 areas and, among other benefits, help prepare municipalities that may become permitted MS4s. The Plan will also aim to provide a more regional, holistic understanding of the number and types of groups working in the region, the types of water quality projects that have already been completed, and anticipated projects that could benefit from a collaborative approach.

Arapaho Ranch Meadow Design

Grantee: Boulder Watershed Collective

Basin: South Platte

Award: \$20,000

Summary: The Arapaho Ranch Meadow Design project strives to enhance wetland and riparian conditions at this location through stream and meadow restoration planning and design. Middle Boulder Creek flows through this property, at the base of the Indian Peaks Wilderness Area. Arapaho Ranch is immediately above the Nederland drinking water intake and Barker Reservoir, city of Boulder's drinking water storage. This project is a critical meadow site identified in the Next Steps of the Sediment Source and Storage for Disaster Planning study completed in 2021:

(https://storymaps.arcgis.com/stories/a76eaa904aaa4c0f87feee151d36794c). In 2021 a high run-off year caused the stream to breach the low flow channel. Flooding inundated the pond system causing one of the damns to breach. Downstream flooding caused a critical egress bridge to wash out. While all infrastructure has been repaired, there is opportunity to create a more natural system, which would be more resilient to future flood events, less maintenance for the landowner and enhance wetlands and riparian areas. Arapaho Ranch is under a conservation easement and is a wildlife refuge for migrating elk herds, moose, beaver, blue heron and other bird species and countless other wildlife. Wetland and riparian enhancement will elevate the biodiversity potential at this site. This project would complement a 30-acre forest restoration project in progress and 100-acre forest restoration project to occur in the near future. These projects provide a holistic approach to ecosystem restoration which protects the downstream community from future flood events, while also improving biodiversity, sediment storage potential, and wildfire resilience.

Crystal River Restoration at Riverfront Park

Grantee: Roaring Fork Conservancy

Basin: Colorado

Award: \$20,000

Summary: The Crystal River Restoration Project at Riverfront Park will restore and enhance a half-mile reach of the Crystal River through the Town of Carbondale. Based on the findings of the stakeholderdriven Crystal River Management Plan, this project brings together several identified management priorities in a cohesive project that is both beneficial to its target reach and a replicable demonstration of multi-benefit restoration. The project reach is identified as impaired based on flow regime, sediment regime, riparian vegetation, debris supply, morphology, stability, physical structure, and biotic structure. The preferred project alternative addresses many of these concerns by increasing aquatic habitat structure and in-stream connectivity, improving channel and bank stability, and enhancing riparian buffers. In addition, the improvements to Riverfront Park will provide an accessible path to the river and floodplain bench, improve an existing rustic trail, add dedicated angler access points, and create a natural outdoor classroom space. The proposed modifications to Riverfront Park will create the only opportunity within the Town of Carbondale for people of varying abilities to access the Crystal River, making it possible for all valley residents to experience the Crystal River up close. Interpretive programming and improved access to the Crystal River will foster the education of future river stewards to understand the importance of protecting critical riparian and riverine environments. Over four years of planning and outreach contributed to the current project. With diverse stakeholders, multiple funders, and several site-specific constraints, the completion of the planning and design process was complex. The preferred alternative was developed using feedback and input from the stakeholder group, including the Town of Carbondale, Roaring Fork Conservancy, Aspen Valley Land Trust, American Rivers, Colorado Parks and Wildlife.

Lincoln Hills Cares Science, Technology, Resiliency, Engineering, Arts, Math (STREAM)

Grantee: Lincoln Hills Cares

Basin: South Platte

Award: \$20,000

Summary: Lincoln Hills Cares, in partnership with The Lincoln Hills Cares Foundation, Trout Unlimited, CSU (Colorado State University) SPUR, and El Laboratorio will continue to build the youth and community leadership for the restoration of the urban South Platte River in the Denver, Colorado area.

Lower Poudre River – Reach 13 Design Phase 2

Grantee: Coalition for the Poudre River Watershed

Basin: South Platte

Award: \$20,000

Summary: In 2017, Coalition for the Poudre River Watershed (CPRW) worked w/the Lower Poudre Steering Committee to develop a flood recovery and resiliency master plan for the lower Cache la Poudre River (east of I-25 to the confluence with the South Platte). The focus of the plan was to prioritize reaches with the greatest need for restoration and resiliency building (www.poudrewatershed.org/plan). Using the plan, CPRW and the committee selected "Reach 13" to complete a 30% design. The Reach was identified as a prime location for restoration focused on river health, resiliency, and showcasing innovative restoration techniques. The Reach is 1.2 miles long, spanning the Town of Windsor and City of Greeley's growth management within Weld County. Landownership includes three landowners who have been involved in the previous design phase and are receptive to the current plans. Two of the landowners are actively gravel mining along Reach 13, so the future implementation will have to be carefully timed around their operations. The 30% design was completed in 2021 and last year CPRW received funding to complete a 60% design for the upstream half (0.5 miles) of the Reach which was completed in December 2022. The Reach 13 designs seek to maximize natural approaches like native vegetation, connecting the river to its floodplain, installing large wood jams, simulated beaver structures, and allowing the river to perform natural geomorphic processes to improve health, resiliency, and function. Funding from the CHRF will be used to complete the 60% design for the downstream half of Reach 13, which is the next step before seeking design-build funding in 2024 to complete the project. Phase 2 will also provide time for CPRW staff to engage with the three landowners and CPRW's Lower Poudre Steering Committee.

North Sand Creek Resource Restoration Project Planning

Grantee: Center for Collaborative Conservation (Colorado State University)

Basin: North Platte

Award: \$18,975

Summary: A diverse group of stakeholders have come together with the goal to improve the water quality of a 303d listed impaired stream in North Park, Colorado. This group has been meeting since 2021 and are looking to take the next steps in planning a stream restoration project. Initial efforts have been in partnership with a local landowner and water rights holder, BLM representatives, Ducks Unlimited, CDPHE, and the EPA. Knowing the importance of involving the local community, the grantee is also building relationships with Owl Mountain Partnership and the North Platte Basin Roundtable. North Sand Creek was listed as a 303d impaired stream in 2015, with sediment filling a local landowner's headgate within 24 hours of dredging it. A combination of weather and increased recreational use of the North Sand Hills (NSH) has led to a destabilization of the dune side slopes and increased sedimentation. The BLM manages the NSH and installed fencing within the headwaters to reduce recreation impacts in 2019, however they were unsure what else could be done to improve water quality. The Center for Collaborative Conservation (CCC) was invited to become involved in 2020, interviewing 25 stakeholders to better understand the complexities in an initial situation assessment. As facilitators, CCC has convened stakeholders, and have been in discussions with EPA and the NPS Program to help coordinate and collaborate on future water quality projects. The goals are to reduce sedimentation transportation, protect private landowner's water rights, and delist North Sand Creek from the 303(d) list. The CCC has worked to reduce tensions and build trust between the stakeholders, providing capacity as facilitators of this collaborative process and leading discussions for next actions this stakeholder group can take together.

San Miguel Stream Management Plan Project Planning

Grantee: San Miguel Watershed Coalition

Basin: Southwest

Award: \$20,000

Summary: It has never been more important to collaborate on water issues across the West and specifically within the Colorado River Basin. Stakeholders of the San Miguel Watershed embarked on a five-year Stream Management Planning (SMP) process starting in 2017 to identify non-consumptive (environmental and recreational) needs in the San Miguel River and identify multi-benefit, multi-use projects within the basin. The stakeholder process, called the San Miguel Partnership (Partnership) brought together 78 individuals representing local governments, state and federal agencies, municipalities, San Miguel and Montrose County, ditch companies and individual agricultural water users and many NGO's. The SMP process concluded in the Spring of 2022 with publication of "Strategies and Initiatives to Meet San Miguel Water Use Needs", a document which includes 18 unanimously agreed upon environmental and recreational projects within the San Miguel River. The San Miguel Watershed Coalition (SMWC) initiated the SMP process in 2017 with Trout Unlimited, then participated as a key stakeholder when the stakeholder group decided it was best to hire an independent, neutral, third-party contractor to facilitate the SMP. Trout Unlimited and SMWC applied to CWCB and the SWBRT to fund the SMP in 2019. With the completion of the SMP in Spring, 2022 the Partnership felt the next step was passing the project list to SMWC for facilitation. The SMWC needs funding to support the administration and facilitation of these projects.

Slate Creek Protection and Restoration Planning Project

Grantee: Yampa Valley Housing Authority

Basin: Yampa

Award: \$20,000

Summary: Yampa Valley Housing Authority (YVHA) will engage stream restoration consultants to perform a baseline analysis of Slate Creek and to prepare a concept-level design plan for its protection and restoration and for stormwater management. YVHA advocates for and provides safe, affordable housing and support to low- and moderate-income residents employed in Routt County. With an anonymous donation, YVHA purchased the 534-acre Brown Ranch in 2021 to develop long-term affordable housing for the local workforce. At full buildout, Brown Ranch will contain approximately 2,264 housing units in four neighborhoods, which will fulfill the entire projected housing need for the community through 2040. A robust open space and trails network will connect the neighborhoods. YVHA has conducted significant engagement efforts to inform the direction of Brown Ranch and to ensure the development is "by the community, for the community." Slate Creek runs seasonally through the Brown Ranch property before it flows under US Highway 40 into the Yampa River. The snowmeltdominated creek is a small but important part of the Yampa River watershed, as it directly affects the river's water quality. Consequently, Slate Creek must be protected during the development's infrastructure construction and resulting ground disturbance, then restored and improved upon completion, with its ecological values safeguarded into the future. Improvements to the creek corridor will be essential for stormwater detention. Based on stakeholder and community input, the Slate Creek corridor will be the primary pedestrian and open space backbone of Brown Ranch. A large community park will be integrated into the riparian corridor, connecting people to trails and providing experiences within the open space while retaining the natural character of the land with a focus on wildlife and

native plantings. Recreation, wildlife habitat, and district stormwater management have been identified as priorities for the corridor.

Smith Fork Creek Watershed Resiliency Project

Grantee: Western Slope Conservation Center

Basin: Gunnison

Award: \$10,000

Summary: The Smith Fork of the Gunnison River (Smith Fork) is located on the western slope of Colorado near the small town of Crawford. Headwaters of the Smith Fork begin in the West Elk Wilderness and flow approximately 24 miles through public and private land, draining a watershed of 3,761 acres, before joining the Gunnison River mainstem just downstream of the Black Canyon National Park. The watershed supports a tremendous farming and ranching economy, supplemented by tourism, including hunting and outdoor recreation. In 2016, the Western Slope Conservation Center (WSCC) completed the Smith Fork of the Gunnison River Watershed Assessment through the Bureau of Reclamation WaterSMART program. The purpose of the plan was to describe existing conditions, identify watershed needs, and outline project concepts that address those needs. The assessment identified four key goals for the watershed. Central to the goals was to "maintain and improve the integrity of terrestrial and aquatic species habitats within the watershed." The assessment outlined five objectives. The Smith Fork Creek Watershed Resiliency Project builds upon those objectives through a study and implementation of low-tech process-based restoration (LTPBR) opportunities in the area. The goal of this project is to improve the ecological resilience of the upper Smith Fork watershed through a stakeholder-driven study of LTPBR techniques. The project will focus on lands where river-wetland corridors exhibit opportunities to improve hydrologic function and boost wildlife forage and habitat.

Spanish Translation and Publication of River Access Guide

Grantee: Middle Colorado Watershed Council

Basin: Colorado

Award: \$1,330

Summary: The middle section of the Colorado River supports local communities that each rely on river water in a variety of ways: municipal drinking water, recreational tourism, and the quality of life enjoyed through having access to the river and its resources. In planning for economic diversification, these towns turn to the Colorado River corridor as a prime opportunity for recreational development. There is a recognized need to plan for new and improved river access with inclusive and equitable opportunities for all the population. "A River Running Guide to the Middle Colorado River" was created as an initial step for a collective and comprehensive planning process for sound river recreational development. The goal of the Guide includes: 1) raising awareness among the public (residents and visitors) around the value of the Middle Colorado River, 2) providing information on how to recreate in and around the river in a safe and responsible manner, 3) establishing an inventory of available recreational resources, opportunities, and constraints, and 4) fostering continued cooperation and planning coordination among recreational interests. The English version of the river access guide became available in 2021.

Because more than 30% of the watershed's population is Latino with a large percentage speaking Spanish as their primary language, a translated version of the guide will allow for stronger community participation in recreation activities in the river. It is important to expand equity and access for the entire population, so that the local population and regional visitors can recreate and engage in protecting and enhancing the watershed. Funds from the Healthy Rivers grant will be used for translation, production, printing and distributing of a Spanish version of the river guide for distribution to locals and visitors in the MCWC watershed.

(Steven Reeves)

Colorado Floodplain and Stormwater Criteria Manual (Use Steven Reeves write up)

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 74 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.

May 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:

- <u>Park County Phase 2</u>: Phase 2 (Data Development) is underway. Our Contractor is working on hydrology development.
- Logan County: A Phase 2 kickoff meeting is taking place on 5/2/2023. The County has been suspended from the NFIP. The County's NFIP participation status will not impact progress for the Risk MAP project.
- <u>Adams and Arapahoe Counties:</u> The draft BLE modeling and mapping are complete for both counties. Together, CWCB and MHFD held virtual meetings with the Adams communities on

January 18th, and with Arapahoe communities on January 26th. For portions of the counties outside the MHFD, BLE data will continue through the Risk MAP process that is being implemented in other counties across the state. Draft BLE data developed within the Denver Metropolitan Area have been provided to MHFD and will not be studied further by CWCB. MHFD will use the data for informational purposes and other uses within the service area. We are planning to hold Risk MAP Discovery meetings for the CWCB portions of both counties in the next month or two.

- <u>Morgan County BLE:</u> We have submitted the final Discovery packet to FEMA and will be scheduling a Phase 2 kickoff meeting in the coming weeks.
- <u>Weld Countywide</u>: 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.
- <u>Colorado Hazard Mapping Program (CHAMP) Physical Map Revisions (PMRs)</u>: The CWCB was able to leverage funds from FEMA to continue getting several CHAMP studies incorporated into updated Flood Insurance Rate Maps (FIRMs) and Flood Insurance Studies (FISs) through the FEMA Physical Map Revision process. CHAMP involved analyzing major streams across various Colorado counties (following the devastating 2013 flooding along the Front Range) and includes over 200 FIRM panel updates. Three remaining counties are being completed within the South Platte Basin. These include Boulder, Weld, and Larimer Counties.
 - 0 Boulder County PMR: Revised preliminary FIRMs will be prepared to incorporate some changes resulting from due process. Portions of the revised flood hazard information for Longmont will be split at the county boundary between Boulder and Weld Counties. The Scientific Review Panel (SRP) outcome will involve FEMA's restudy of a segment along Left Hand Creek. The restudy along Left Hand Creek will impact just over two FIRM panels and the revisions will become effective through the LOMR MT-2 process. To get the CHAMP data for these reaches (that is well removed from the SRP area) reflected on remaining portions of these two FIRM panels, CWCB is working with MHFD on getting LOMRs completed for a segment of Fourmile Canyon Creek and a reach of both Left Hand Creek and Geer Canyon from their confluence westward. Only revising areas where the SRP affects the panels in question, and rest of those three panels will remain with effective data for now. These panels will be pulled from the rest of the Boulder County PMR to allow the majority of the PMR to move toward becoming effective. The revised preliminary date for the other Boulder County FIRM panel is still July 10, 2023. The estimated date for the Boulder PMR Letter of Final Determination (LFD) is late 2023.
 - <u>Weld County PMR</u>: The final PMR products were submitted in August 2022, but the previously anticipated Letter of Final Determination (LFD) date of October 19, 2022 was delayed. Multi-county community issues have been addressed, and the LFD date to be May 30, 2023. The revised Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs) will go effective six months after the LFD has been issued. Four FIRM panels impacting the City of Longmont will be removed from the Weld County PMR, allowing the countywide study to move forward. The Longmont panels will move forward with a parallel PMR.
 - <u>Larimer County PMR</u>: Due process for this project has ended and there were several comments/appeals received. CWCB is currently coordinating with FEMA on resolving valid

appeal items. An updated schedule with the LFD date and other key milestones will be sent soon.

- <u>Phillips County Phases 2-3</u>: The 90-day appeals/comment period started on March 29, 2023. We expect to receive at least one hydrology-based appeal from CDOT. We have been coordinating with FEMA and other stakeholders.
- <u>Phillips Countywide:</u> We held the countywide Discovery meeting in January 2023, and we are preparing for a Phase 2 kickoff meeting in the coming weeks.
- <u>Sedgwick County:</u> A countywide BLE/Discovery effort will be starting for flooding sources that weren't recently updated with the CHAMP project.

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

- <u>Eagle County Physical Map Revision Phases 2-3</u>: The revised Roaring Fork River hydraulic analysis and floodplain mapping have been approved by FEMA. A revised preliminary FIRM distribution occurred December 29,2022. Communities were provided 30-days to verify the changes. . We are working to schedule the Consultation Coordination Officer (CCO) and Public Meetings in the coming weeks.
- <u>Garfield County Phase 2-3</u>: Survey information has been collected for all of the accessible properties. Some information will have to be estimated for remaining areas where property access was denied. FEMA approved a modification in the hydrology methodology to account for the high snowmelt influences to the gage data for this watershed. Hydraulic analyses are being performed for various streams. A debris flow analysis is also being produced for the Glenwood Springs area and we will share results with the community in the coming month or two.
- <u>Summit County BLE/Phase 2</u>: First part of the survey is complete. Remaining survey collection is weather-dependent. We will meet with the County to discuss some concerns from the previous countywide study that went effective in 2016. A number of these are being addressed with the ongoing study. Hydrology is being developed for other portions of the county.

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

- <u>Delta County Phase 2-3</u>. FEMA's QR3 review (Gunnison River updates, etc.) came back and we're working on addressing comments. The schedule for issuing the preliminary mapping products is being revised and will be shared soon. To address an existing gap in flood hazard data between Minnesota Creek and the North Fork of the Gunnison River, CWCB state-funded an updated study along Minnesota Creek. The resulting flood hazard information changes will be completed with a LOMR from the North Gunnison River confluence through the Town of Paonia. CWCB is also performing an internal review of the preliminary data for the county before it is distributed publicly near the end of May.
- <u>Ouray County PMR</u>: The Ouray County PMR appeal period ended March 29, 2023. No comments or appeals were received so we hope to have the LFD issued in June 2023.
- <u>Ouray Countywide BLE:</u> A countywide BLE/Discovery effort will be starting soon. A kickoff meeting with communities will be scheduled in the coming months.

- <u>Gunnison County PMR</u>: Hydraulic modeling had been approved by FEMA; however, the communities requested consideration of (non-dam feature) flood protection from an existing embankment/dam structure. CWCB is working with communities as they address options for ensuring the existing embankment can be credited with providing flood protection. Floodplain mapping submittals will take place once there is a path forward regarding this existing berm. We are also coordinating with FEMA on proposed shallow flooding floodplain zones for certain areas through the Town of Crested Butte. Once approved by FEMA, the approach may be used in other Colorado Counties as well. Gunnison has expressed concerns regarding the hydraulic modeling approach. It is currently two-dimensional(2D), and they are requesting consideration of a 2D-informed 1-dimentional (1D) model.
- <u>Gunnison Countywide BLE</u>: Phase 2 kickoff meeting with communities took place on January 17, 2023, to discuss the next steps in the Risk Map process and confirmed the proposed reaches for detailed study. We are currently waiting to get concurrence from the county on the proposed path forward, especially regarding the hydraulic modeling methodologies to be used.

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

- <u>Alamosa County BLE:</u> Communities have reviewed materials from the project kickoff meeting. Next steps include developing BLE and draft mapping data for Phase 1 of the countywide study (expected to be ready later this year). We are working with the City of Alamosa, USACE and FEMA, as the City works toward certification for portions of the existing levee system.
- <u>Costilla County Phase 2-3:</u> Our Consultant is now able to use the new high-resolution LiDAR data from the 2020 San Luis Valley acquisition to develop revised flood hazard information for modeling the remaining effective floodplain segments. Distribution of the FIRM panels showing the additional data is required before the project moves toward LFD. We are working with the Contractor for a new scope of work and subsequent contract to cover this additional data development for these required stream reaches.
- <u>Mineral County/City of Creede LOMR</u>: The Willow Creek LOMR for certification of the existing levee in the City of Creede has been issued. This LOMR meets FEMA's accreditation requirements to allow flood hazard mapping to reflect the levee providing flood protection for portions of the community. Mineral County preliminary distribution took place on January 13, 2023, and we are preparing to hold the CCO and Public meetings in the coming weeks.

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

- <u>Lake County Phase 2</u>: Hydraulic modeling along Georgia Gulch is moving forward. Next steps include submitting the hydraulics to FEMA for approval and progressing with the floodplain mapping. CWCB has been coordinating with FEMA on the best approach for mapping areas of shallow flooding areas along Georgia Gulch. We anticipate a path forward in the coming weeks.
- <u>Chaffee County Phase 2:</u> Field survey complete. Wrapping up hydrology development. CWCB has been discussing the Chalk Cliffs area with FEMA and the County to determine the best approach for providing updated information that will be useful for regulating development. This may result in providing supplemental non-regulatory products for debris flow as well as flood hazards.

- <u>Custer County BLE</u>: Phase 2 Kickoff materials are being prepared for an anticipated meeting in the coming months. We had a recent coordination call with the County to discuss the scope of work expectations.
- <u>Pueblo County BLE:</u> The Phase 2 scope of work has been finalized. The City of Pueblo has
 requested a potential Mitigation Technical Assistance project to further analyze risk around a
 local ditch. The Pueblo pre- levee assessment work is on hold. CWCB is working with FEMA to
 scale back the original scope for the assessment with language and level of detail that aligns
 with FEMA's authority relative to levees.
- <u>Huerfano County Phase 2</u>: Our Contractor finished revising the BLE hydrology and hydraulic analyses based on a FEMA-approved hydrology methodology. The revised hydrologic modeling results in more representative runoff characteristics for the watershed.
 Detailed hydraulic modeling for stream reaches scoped in Phase 2 is wrapping up. A Flood Risk Review meeting will be scheduled with communities in the near future.
- 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. In addition, CWCB has provided state funding to develop an Emergency Preparedness Plan and Interior Drainage Analysis for this levee. The EPP has been provided to CWCB for review. Both of these products are required and will be included by the levee sponsors as part of their levee certification package. CWCB has made a one-time funding contribution for the sponsors to complete the geotechnical evaluation. This evaluation is key in providing data to allow an accurate assessment and identification of the level of effort needed to obtain levee certification.
- <u>Otero County</u>: Floodplain mapping will be revised based on unrealistic hydrology tie-ins from the Apishapa River area. The subsequent delay to address changes will push the next community meeting into the summer months.
- El Paso Phase 2 and Templeton Gap (T-Gap) Levee: Data Development continues for updated hydrologic data and hydraulic modeling for the El Paso countywide Risk MAP study. CWCB's Risk MAP team is also in coordination with the LOMR Review Partners Team to coordinate consistency in hydrology and hydraulic modeling approaches for ongoing and proposed development underway within the communities. The study also includes addressing data gaps noted in the Templeton Gap pre-levee analyses. While the levee has been shown to provide flood protection in the past, it is not certified. CWCB's team is working with the City of Colorado Springs, the USACE and FEMA on updated flood hazard mapping in this area. Certification is required to allow the revised flood hazard mapping to reflect the levee providing flood protection. A coordination meeting with these stakeholders occurred February 12th.
- <u>Las Animas County Phase 2</u>: We will be repurposing FEMA FY22 grant funds originally identified for Phase 3/4 work to help cover the additional data development for flooding sources requested by communities. Survey efforts are complete for the detailed study reaches.
- <u>Fremont County Phase 2</u>: CWCB is wrapping up detailed hydraulic model development for Phase 2. This includes flood hazard mapping along reaches of specific flooding sources.

Floodway development is also taking place. Data will be provided to FEMA for review and approval in the near future.

- <u>Prowers County Phase 2</u>: Base floodplain models are complete and are currently under FEMA review. Once FEMA approves the base floodplain, floodway analysis will be performed and submitted for FEMA review and approval. The Flood Risk Review meeting is anticipated for summertime.
- <u>Towns of Granada/Holly/Lamar (Prowers County) Pre-Levee assessments</u>: The Lamar Levee Analysis and Mapping Procedure (LAMP) is in progress. State-funded Interior Drainage Reports and Emergency Preparedness Plans (EPPs) are with CWCB for review.
- <u>Kiowa County:</u> A countywide BLE/Discovery effort will be initiated for all flooding sources with drainage areas greater than a square mile within the county. A kickoff meeting with communities will be scheduled in the near future.
- <u>Baca County:</u> A countywide BLE/Discovery effort has been kicked off and communities received meeting materials.
- <u>Crowley County:</u> A countywide BLE/Discovery effort will be initiated for all flooding sources with drainage areas greater than a square mile 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:

- <u>Moffat County</u>: Hydraulic models for specific flooding sources have been approved by FEMA. We are coordinating with FEMA on the best approach for shallow flooding zone areas within the City of Craig. Once the shallow flooding mapping process has been approved by FEMA, floodplain mapping will be updated in coordination with the City.

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 nations, have ongoing studies.

- <u>Animas Watershed Phases 3-4 (La Plata, San Juan, Archuleta, and the SUIT)</u>: La Plata County Letter went out to Ignacio and La Plata County on requirements for updating floodplain maps. Some revised preliminary maps resulting from the due process will require a 30-day comment period. The revised mapping is with FEMA for review. Archuleta County – The LFD was issued April 5th, and the updated flood hazard information will become effective October 6th. CWCB's Contractor is working to submit the final Technical Study Data Notebook (TSDN). San Juan County – The revised flood hazard data will be effective May 5, 2023.
- 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 prior to receiving comments. The scope of work will be finalized for detailed study stream reaches once Phase 2 kickoff meetings take place with communities and tribal nations impacted by flood hazard modifications. These will be coordinated and are expected to take place over 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.

- <u>Elbert County:</u> Phase 2 (Data Development) is underway. CWCB's Contractor is developing hydrology for stream reaches included in this phase.
- <u>Mesa County Phase 2</u>: Surveying complete. Hydraulics for the Colorado River did go out for review. The remaining countywide flood hazard mapping will go out for review in the coming weeks. Hydrology review comments from FEMA are being addressed and resubmitted. After additional coordination with the City of Grand Junction, the Indian Wash hydrology was revised to reflect impacts of an existing flood control structure on flood flows.
- <u>Flood Risk Information System (Mesa County)</u>: 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. This project will be presented during the annual Association of Stormwater and Floodplain Managers conference in mid-May.
- <u>Hinsdale County/Lake City Partial Countywide</u>: The 90-day appeal and comment period began February 10th, however a new appeal period will be required due to omission of required FEMA language in the original newspaper publications.
- <u>Hinsdale Countywide BLE</u>: A Phase 2 kickoff meeting with communities is anticipated in the coming months so the Phase 2 scope may be finalized.
- <u>Teller County Phase 2</u>: CWCB's Contractor has completed the revised hydrologic analyses for Trout Creek and Fountain Creek. Additional analysis was required to verify flows were reasonable and in line with existing flood flows for the same flooding sources in adjacent counties. Results will be provided to CWCB in a few weeks for review. Coordination will take place to discuss the revisions and obtain concurrence from impacted communities and adjacent counties. This will allow the corresponding hydraulic analyses to be completed for this project.
- <u>San Miguel Countywide BLE</u>: A countywide BLE/Discovery effort will be starting soon. An inperson kickoff meeting with communities will be scheduled in the coming months. This also provides an opportunity to coordinate with communities on incorporation of their recent restoration project into the San Miguel hydraulic modeling and floodplain mapping.
- <u>Lincoln Countywide</u>: A countywide BLE/Discovery effort has begun for flooding sources with drainage areas greater than a square mile that were not included with the ongoing PMR revisions (summarized below). CWCB's Contractor is almost done with BLE modeling, and a Discovery meeting will be scheduled with communities to review results in the near future.
- <u>Colorado Hazard Mapping Program (CHAMP) Phase 3</u>: This set of studies originated from the Colorado Senate Bill (15-245) which was put forth as a response to the destructive 2013 flooding along the Front Range. 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.

- <u>San Miguel County</u>: This PMR has been on hold for two years pending as-constructed data from the Town of Telluride for the Valley Floor Restoration project. The Valley Floor Restoration project completely re-aligned the San Miguel River to its historic location through open space areas west of the Town. The dramatic changes along the San Miguel River resulting from the project are being revised with a LOMR on the effective FIRM and FIS information. Once the LOMR has been issued, the project data will be incorporated into the updated San Miguel River hydraulic analysis and flood hazard mapping for the PMR. CWCB will coordinate with San Miguel County communities through in-person meetings to wrap up the Data Development (Phase 2) before moving forward with development of preliminary products (Phase 3).
- <u>Lincoln County Phases 2-3</u>: The CCO and Public Meetings for revised flood hazard data along select major stream reaches took place on December 5, 2022 and we're waiting on the Federal Register publication. The appeal period will follow once publication in the Federal Register and local newspapers take place. The process provides communities and property owners 90-days to review, comment on, or appeal preliminary flood hazard products. The appeal start date is tied to the Federal Register publication and publishing of subsequent local newspaper notifications.
- <u>Saguache County</u>: Floodplain mapping has been approved by FEMA for all areas submitted outside of the Town of Crestone. A resilience meeting for areas outside the Town is anticipated to take place in the near future. The Town has significant alluvial fan considerations that will need to be addressed separately (outside the scope of the ongoing study). The Town is looking at risk mitigation projects to minimize hazards associated with the alluvial fan areas. Once a path forward has been determined by the Town, hydraulic analysis and flood hazard mapping will resume along North Crestone Creek.

LiDAR acquisition: As of late February 2023, we have statewide LiDAR coverage (with the exception of a small area in Pitkin County in and surrounding the Town of Aspen).



(Terri Fead and Marta Blanco Castaño)

Chatfield Downstream Channel Improvement Project Spatial Data

In the 1980's, the United States Army Corps of Engineers (USACE) constructed the Chatfield Downstream Improvement Project (Project). The Project consisted of improvements to the flow of water in the channel of the South Platte River in Arapahoe County to provide (1) drainage, (2) flood control, and (3) water flow. As part of its participation in the Project, the CWCB currently owns and controls approximately 7 miles on the South Platte River floodplain and Channel Lands through Littleton, Colorado in Arapahoe County. The CWCB's management of this land is subject to the terms of the September 7, 1977 and January 29, 1980 Agreements (USACE Agreements) between the CWCB and the USACE, which obligate the CWCB to operate and maintain the Project improvements.

The CWCB receives and acts on requests for easements on land owned by the CWCB as part of the Chatfield Downstream Improvement Project. In order to properly do this, it is necessary to know where easements currently exist and when they expire. Only three easements are on record with Arapahoe County, but hard-copy files exist showing that there are many more than that. Staff has been working on an ongoing effort to go through the existing hard-copy files and update a shapefile of all of the existing easements within the Chatfield Downstream Improvement Project, as well as digitize pertinent documents that we don't currently have electronic versions of. Additionally, staff is working to reconcile

parcel data that shows ownership of the channel and adjoining floodplains. This will allow for easier communication with the Attorney General's office when we have inquiries or legal questions that need review, and it will allow staff to better manage the South Platte program and monitor existing easements for compliance.

Andrea Harbin Monahan

NFIP Community Enrollment

The Town of Silver Cliff was approved and enrolled in the National Flood Insurance Program on May 5, 2023, following a year of conversations with the community and hard work by the Town's officials and staff.

As the Town does not currently have identified regulatory Special Flood Hazard Areas, it will enter the NFIP in the "Emergency Erogram" phase. The Emergency Program is the initial phase of a community's participation in the National Flood Insurance Program (NFIP) if no flood hazard information is available or the community has a Flood Hazard Boundary Map (FHBM) but no Flood Insurance Rate Map (FIRM). A limited amount of flood insurance coverage at less than actuarial rates is available for all residents of the community in this phase.

A CWCB Risk Mapping, Assessment, & Planning (RiskMAP) floodplain mapping project is currently underway in Custer County to include the Town of Silver Cliff. The project kicked-off in 2021 and, when complete, will provide the community with up-to-date flood risk information and Flood Insurance Rate Maps (FIRM). Upon adoption of the FIRMs, the Town will enter into the Regular Program of the NFIP.

(Doug Mahan)

New Flood Section Hire

The Watershed and Flood Protection Section are pleased to announce the hiring of Willem Lensink to fill the position of the Community Assistance Program Specialist. Willem will take over the position vacated by Melanie Swick in February. Willem comes from Dewberry and has many years of experience and involvement with the National Flood Insurance Program (NFIP). Willem will assist Doug Mahan with the management of the NFIP on behalf of the State of Colorado and will perform such tasks as community audits of their floodplain management regulation programs and general technical assistance to both communities and citizens in regards to floodplain regulations, flood insurance, and the NFIP. Willem starts on May 15 (a future date as of the date of this writing).

(Kevin Houck)

Flood Threat Bulletin Resumes Forecasting Operations on May 1

The Watershed and Flood Protection Section is excited to announce that 2023 operations began on Monday, May 1st with some major improvements. Our team has deployed a completely new website at <u>ColoradoFloodThreat.com</u> for delivering all the Program's products in a more impactful way. We have implemented multiple interactive tiles with the top-line flood threat metrics and severity for better situational awareness of the current and previous day's flood conditions. Each tile will take you directly to that Product's page, and there is also a Navigation Bar in the top right of the page to quickly jump between the products. Once you are on a specific Product page, there is a "Select a Day" drop down

calendar underneath the interactive maps to quickly view any day during the 2023 Season. Our products are summarized below and can be found on the <u>About Page</u>.

- <u>Daily Flood Threat Bulletin</u> This product is issued daily before 11:00 am and is used to identify areas of the state that are at risk of flooding. Updates can be issued as needed by weather situation.
- <u>Fire Burn Forecast</u> The FBF is issued daily by 11AM for select, high-risk burn areas in Colorado (May to Sept). This standalone forecast system was created to separate the higher-sensitivity burn area forecasts from the existing FTB product, but complement the overall goals of the program.
- <u>Flood Threat Outlook</u> This product is an outlook of the flood threat and precipitation amount/probabilities in the state over the next 15 days. It is presented in an event-based format that focuses on periods of potentially wet weather, and a precipitation map is included when the forecast precipitation exceeds 0.5 inches for any area during an event duration. The Outlook is updated on Mondays and Thursdays by 3PM.
- <u>State Precipitation Map</u> An overview of recent precipitation and flooding conditions across the state, using <u>MetStorm Live</u> data, heavy rain reports, and flood reports.
- <u>Streamflow Tracker</u> This product is a summary table updated monthly (mid-month) reflecting the last month's streamflow conditions across the 14 major basins in Colorado.

Our goal is to provide our subscribers and users an early outlook for threat awareness, Operations and Notifications began on May 1st, and notifications are available on Social Media: <u>*Twitter*</u> and <u>*Facebook*</u>.

(Kevin Houck)

Active Snowpack Season Leads to Active Runoff Season

The 2022-23 snowpack accumulation season has resulted in higher than average snowpack across the entire western slope area of the state, with readings in the SW basin higher than most stakeholders can ever remember (183% as of May 4), and very high readings present also in the Gunnison (168%) and Yampa (139%) watersheds, and elevated readings in all other watersheds with the exception of the Arkansas Basin.

Local and state officials have been preparing for elevated runoff for many weeks leading up to the runoff season. This includes planning for reservoir operations to accommodate high seasonal inflows, maintenance of infrastructure such as bridges and culverts, extensive coordination, and robust outreach and public awareness programs.

CWCB staff have been assisting local officials and the State Division of Homeland Security and Emergency Management with monitoring and technical assistance. Staff participate in the State Recovery Task Force (SRTF), normally an entity that is activated following a disaster but which has been active this year in a preparatory state. The Flood Threat Bulletin, SNODAS, and other state resources are being actively used by the SRTF to coordinate preparedness activities.

Indeed, runoff problems began to occur as early as the second week of April when an unusually strong warm front passed through the state while large amounts of low elevation snowfall still remained on the ground. This warm spell lasted 3-4 days and resulted in daily records being set all around the state, including the earliest historical reading of 85 degrees in Denver two days in a row (which set the record

high by over 5 degrees each day). Isolated flooding problems occurred in many areas of western Colorado, with the most visible being in the Town of Dolores and along Dry Creek in the Town of Hayden.

A Presidential Disaster for snowmelt flooding has not been declared in Colorado since 1984. Whether one occurs this year depends on numerous factors, with the daily weather being a significant contributor. With a significant amount of low-level snow having melted by May 4, a trigger event consisting of a warm, sustained period of several consecutive days (more likely) or a widespread rain on snow event (less likely, but more impactful if it occurs) will be needed to create flooding events in watersheds of high snowpack. Regardless of whether widespread regional flooding occurs or not, water managers and emergency managers should prepare for high water through the middle of June in many areas of western Colorado. CWCB staff will continue its involvement with other stakeholders and partners through the end of runoff season.

(Kevin Houck)

WATER SUPPLY PLANNING SECTION UPDATES

May 2023 Directors Report WSP & OWC

Water Supply Planning section staff have been hard at work implementing elements of several actions from the 2023 Water Plan. Some important recent or upcoming work includes:

- COLORADO DROUGHT SUMMIT: The Water Supply Planning team is holding a May 31- June 1 Colorado Drought Summit at History Colorado in Denver. The two-day event is at capacity with 275 registrants and now has a waiting list. The event will be recorded for those who are not able to be there in person. CWCB Board members who would like to attend and have not yet signed up will have access to reserve tickets, but staff need to know ASAP - please email Russ, Kat and Elizabeth today!
- URBAN LANDSCAPE CONSERVATION TASK FORCE: The Governor's Urban Landscape Conservation Task Force kicked-off its first official meeting on April 20th to begin exploring practical, informed approaches to advance action 1.7 in the Water Plan. The Task Force is looking into practical implementation of landscaping changes that support water efficiency and sustained water savings to enhance vibrant communities. The Task Force members will be participating in a workshop at the upcoming Drought Summit as well. The recording of that meeting is available on <u>CWCB's Youtube Channel.</u> (Russ/Kat/Jenna)
- TURF REPLACEMENT PROGRAM: Staff has reviewed its first round of applicants for the state's Turf Replacement Program. About 40 applications were received and the new Turf Replacement Program Coordinator, Jenna Battson, has begun reaching out to applicants to let them know the status of their applications. Jenna is diving right into her work and doing a great job!
- MEETINGS OF NOTE: Staff presented on the FACE Hazards tool to the National Conference of State Legislatures on May 12. The next Water Availability Task Force Meeting will be held virtually on May 25, 2023, at 9:30 AM.
- CO WATER LOSS INITIATIVE: At present, we have 75 utilities registered for the program and are
 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.
- LAND/WATER PLANNING NEXUS: Kevin has been participating on the core planning team for the Denver One Water Plan funded by a water plan grant. With the increasing interest in turf replacement the group has chosen to focus on sustainable landscaping as it relates to One Water Planning. A few new opportunities have been identified and Kevin is ensuring that they line up 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

- The Water and Land Use Planning Alliance has been focused on their work plan and communications plan and supporting the AWRA Specialty Conference for water and land use planning taking place in Denver in July 2023. (AWRA Specialty Conference- Connecting Land and Water for Healthy Communities (Denver - July 17-19, 2023)<u>https://www.awra.org/AWRA/Members/Events_and_Education/Events/2023_Summer_Conference.aspx</u>)
- WATER REUSE: Director Mitchell gave the keynote address at the Water Reuse Colorado Symposium on May 2, 2023. Director Mitchell discussed water reuse as it appears in the CO Water Plan along with all the water reuse related projects that the CWCB has funded, including the Direct Potable Reuse rules that the Water Quality Control Commission passed last October. Kevin also presented on funding opportunities available for water reuse projects.

Water Supply Reserve Fund Grants Director's Report – May 2023

WATER SUPPLY RESERVE FUND GRANTS:

The following table summarizes the Water Supply Reserve Fund Grants \$50,000 and under that will be sent to the CWCB Director, Rebecca Mitchell, for approval.

Basin	Applicant/Grantee	Name of Water Activity	Basin(s) Account Request	Total Request	Staff Funding Recommendation
North Platte	Prairie Gem Livestock	Hunter Reservoir Dam Rehabilitation Project	\$20,459	\$20,459	\$20,459
Southwest	Mountain Studies Institute	San Juan Snowtography Network Expansion & Regional Analysis	\$48,708	\$48,708	\$48,708

INSTREAM FLOW

RECENTLY DECREED ISF WATER RIGHTS: On April 10, 2023, the Division 4 Water Court decreed instream flow (ISF) water rights to the CWCB on a reach of Lottis Crek in Case No. 22CW3082 for 2.1 cfs (04/01 - 10/31), with an appropriation date of January 24, 2022. The upstream terminus is the headwaters of Lottis Creek, and the lower terminus is the confluence with the Taylor River. This reach is approximately 10.33 miles long and flows in a northwesterly direction through parts of Gunnison County. No statement of oppositions were filed in this case. This water right is in addition to an existing ISF on Lottis Creek decreed in Case No. 83CW0227, with an appropriation date of June 3, 1982, to the CWCB for 5.0 cfs (01/01-12/31). High Country Conservation Advocates recommended an increase to the existing ISF water right to protect the self-sustaining population of Colorado River Cutthroat Trout (*Oncorhynchus clarkii pleuriticus*), Brook Trout (*Salvelinus fontinalis*), brown trout (Salmo trutta), and rainbow trout (*Oncorhynchus mykiss*).

May 17-18, 2023 Board Meeting Instream Flow and Natural Lake Level Program Summary of Resolved Legal Protection Cases

The Board's Instream Flow ("ISF") Rule 8i(1) states:

In the event the pretrial resolution includes terms and conditions preventing injury or interference and does not involve a modification, or acceptance of injury or interference with mitigation, the Board is not required to review and ratify the pretrial resolution. Staff may authorize its counsel to sign any court documents necessary to finalize this type of pretrial resolution without Board ratification.

Since the last Board Meeting, staff has resolved issues of potential injury to CWCB's ISF water rights in the following water court cases. Staff, along with the Attorney General's Office, has stipulated in two cases in which CWCB had filed a Statement of Opposition. Two cases were dismissed by the Court. Staff obtained an agreement via a letter-in-lieu of filing a Statement of Opposition in three cases.

A. STATEMENTS OF OPPOSITION

(1) Case No. 22CW3030 (Water Division 4) - Application of Wolf Land Company, LP

The Board ratified this Statement of Opposition at its September 2022 meeting. Applicant requested "Change of Water Right". The Court entered an Order to Dismiss without prejudice on March 30, 2023. This case is closed.

The CWCB holds instream flow ("ISF") water rights, including the following, in Water Division 4 in the Uncompany River watershed that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
98CW0234	Dallas Creek	confl E & W Forks Dallas Cr	confl Ridgway Reservoir	9 (10/15 - 4/30) 20 (5/1 - 10/14)	07/13/1998
98CW0222 Uncompahgre Highv River bridg		Highway 62 bridge	confl Ridgway Reservoir	20 (10/15 - 4/30) 65 (5/1 - 10/14)	07/13/1998

(2) Case No. 19CW3022 (Water Division 5) - Application of Bailey Family Investment Company LLLP* and Cold Mountain Ranch LLLP (*fka Iron Rose Land & Cattle II, LLC)

The Board ratified this Statement of Opposition at its May 2019 meeting. Applicant requested "Change of Water Right". Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured. The case remains open before the water court Referee.

The CWCB holds instream flow ("ISF") water rights, including the following, in Water Division 5 in the Roaring Fork River watershed that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date	
W-2720 (1975)	Crystal River	confl Avalanche Creek	confl Roaring Fork River	60 (10/1 - 4/30) 100 (5/1 - 9/30)	05/01/1975	

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- "Applicants will limit the amount of land irrigated by the changed water rights to no more than 33.3 acres. Applicants will identify the acreage to be irrigated each year with the changed water rights no later than April 30 of each year and will submit such identification to the Division Engineer; the identified acreage must be within Areas 2 and 3 on Exhibit A."
- "Applicants will not irrigate the sloped and timbered hillsides above the Lowline Ditch in Area 3. All irrigation in Area 3 will be in pastures below the Lowline Ditch."

(3) Case No. 19CW3159 (Water Division 5) - Application of The City of Aurora

The Board ratified this Statement of Opposition at its March 2020 meeting. This is an application for Appropriative Rights of Exchange. As part of the water court application, the Applicant requested "Appropriative Rights of Exchange," that included both "river flow exchange" and "contract exchange," in which applicant would "instantaneously exchange a volume of its water already in storage" from one reservoir to another "notwithstanding the rate of stream flow" between the reservoirs. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured. CWCB's stipulation was approved by the Court on April

13, 2022. This case remains pending before the water court Referee.

The CWCB holds instream flow ("ISF") water rights, including the following, in Water Division 5 in the Roaring Fork River watershed that could have been injured by this application:

Appropriated ISF Water Rights

					Annron
Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Date
W-1945	Fryingpan River	confl Rocky Fork	confl Roaring	39 (11/1 - 4/30)	07/12/1973
(1973)		Creek	Fork River	110 (5/1 - 10/31)	
W-1948	Fryingpan River	confl Marten	confl SF	6 (10/1 - 3/31)	07/12/1973
(1973)		Creek	Fryingpan River	12 (4/1 - 9/30)	
W-1952	Ivanhoe Creek	hdgt Fry-Ark	confl Fryingpan	1 (10/1 - 3/31)	07/12/1973
(1973)		Project div	River	2 (4/1 - 9/30)	
W-1955	Fryingpan River	confl NF	confl Ruedi	30 (10/1 - 3/31)	07/12/1973
(1973)		Fryingpan River	Reservoir	200 (6/1 - 6/30)	
				150 (5/1 - 5/31)	
				100 (4/1 - 4/30)	
				100 (7/1 - 7/31)	
				75 (8/1 - 8/31)	
				65 (9/1 - 9/30)	
W-2936	Lincoln Creek	confl Galena	confl Roaring	8 (1/1 - 12/31)	01/14/1976
(1976)		Creek	Fork River		
W-2948	Roaring Fork	confl Difficult	confl Maroon	32 (1/1 - 12/31)	01/14/1976
(1976)	River	Creek	Creek		
W-2949	Roaring Fork	confl Lincoln	confl Difficult	15 (1/1 - 12/31)	01/14/1976
(1976)	River	Creek	Creek		
85CW0639	Roaring Fork	confl Fryingpan	confl Crystal River	75 (10/1 - 3/31)	11/08/1985
	River	River		145 (4/1 - 9/30)	
85CW0646	Roaring Fork	confl Maroon	confl Fryingpan	30 (10/1 - 3/31)	11/08/1985
	River	Creek	River	55 (4/1 - 9/30)	

In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

"Aurora will separately account for all water stored in Ivanhoe Reservoir via the Reservoir Trade. If
any portion of water stored in Ivanhoe Reservoir via the Reservoir Trade is not physically released to
Ivanhoe Creek or physically delivered through the Carlton Tunnel in a given water year, that water
will be carried over in an account separate from the accounts tracking other water rights stored in
Ivanhoe Reservoir. This same requirement will apply in subsequent years. In the current or
subsequent water year(s) following any Reservoir Trade, the space in Ivanhoe Reservoir created
when Reservoir Trade water is physically released to Ivanhoe Creek or physically delivered through
the Carlton Tunnel may only be refilled, including under the priorities for the Busk-Ivanhoe System

water rights decreed in Case No. CA-2621, at times when the Colorado Water Conservation Board's instream flow water right on Ivanhoe Creek adjudicated in Case No. W-1952, the Colorado Water Conservation Board's instream flow water right on the Fryingpan River adjudicated in Case No. W-1955, and that portion of the Colorado Water Conservation Board's instream flow water right on the Fryingpan River adjudicated in Case No. W-1948 downstream from the confluence with Ivanhoe Creek, all in Water Division 5, are satisfied. Aurora will use existing or other future gauges and measurement facilities to confirm the above instream flow water rights are satisfied and Aurora's Busk-Ivanhoe System rights are in priority."

(4) Case No. 20CW3044 (Water Division 6) - Application of Knott Land and Livestock Company, Inc.

The Board ratified this Statement of Opposition at its January 2021 meeting. Applicant requested a "Change of Water Rights". The Court entered an Order to Dismiss without prejudice on January 27, 2023. This case is closed.

The CWCB holds instream flow ("ISF") water rights, including the following, in Water Division 6 in the Upper Yampa watershed that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date	
W-1338 (1977)	Trout Creek	outlet Sheriff Res	confl Middle Creek	5 (1/1 - 12/31)	09/23/1977	

B. LETTERS-IN-LIEU

The following cases were resolved by Staff through negotiated letters in lieu of filing water court Statements of Opposition. This method of settlement is preferred when facts and time allow such negotiation before the Statement of Opposition period ends. In each case, CWCB staff will continue to monitor the proposed rulings and decrees. In each case, Applicant has agreed to not oppose a motion to intervene if the agreed upon terms are not included. The following were negotiated to resolution:

(1) Case No. 22CW3127 (Water Division 5) - Application of Scott Thompson and Jennifer Olson

During the December 2022 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. W-2720(1975) and W-2721(1975) on the Crystal River. This case was resolved with CWCB by a letter agreement, dated April 12, 2023, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

1. "Applicants recognize that the Colorado Water Conservation Board holds existing instream flow water rights on the Crystal River decreed in Case Nos. W-2720(75) and W-2721(75), which were decreed prior to the filing of this water court case."

2. "During times of local stream administration on the Crystal River, including for the CWCB's instream flow water rights decreed in Case Nos. W-2720(75) and W-2721(75), Applicants will cease diverting the Thompson-Olson Pump and Pipeline, and will allow the Thompson-Olson Pond to drop commensurate with evaporation."

(2) Case No. 22CW3133 (Water Division 5) - Application of Winter Park Recreational Association

During the February 2023 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 90CW289, 90CW302, 90CW307, 90CW0308, and 90CW315 on the Fraser River. This case was resolved with CWCB by a letter agreement, dated April 24, 2023, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following concepts for terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

Specifically, the applicant agreed to insert a reference to paragraphs 24.C - 24.H of the 16CW3159 decree to address several of CWCB's concerns regarding injury to its water rights, especially with respect to the 1000 acre-feet of environmental water decreed in 11CW152. The applicant also agreed to insert a reference to the terms for recapture of snowmaking return flows as specified in paragraph 13 of the 16CW3159 decree to address CWCB concerns regarding its instream flow appropriations on the Fraser River.

(3) Case No. 23CW3022 (Water Division 1) - Application of Leanne M. Teets, John C. Teets, Mountain Mutual Reservoir Company, and North Fork Associates, LLC

During the February 2023 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 94CW258, 94CW259, and 94CW260 on Bear Creek. This case was resolved with CWCB by a letter agreement, dated April 26, 2023, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

"The CWCB holds instream flow water rights on Bear Creek decreed in Case Nos. 94CW258, 94CW259 and 94CW260. At times of an administered call for any of these instream flow water rights, applicant shall replace all depletions at or upstream of the point of administration or curtail the Teets Diversion."



COLORADO Colorado Water Conservation Board Department of Natural Resources

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Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

То:	Colorado Water Conservation Board Members
From:	Rebecca Mitchell, Director
Date:	May 17-18, 2023 Board Meeting
Directors Report:	Severance Tax Operational Fund Approvals

The Programs, Projects, and Operational Activities shown on Table 1 were reviewed and approved by the Director. The funding source is the Severance Tax Operational Fund. Funding is available for the items listed on July 1, 2023 through June 30, 2024.

Background: CWCB has access to up to a 5% share of the Severance Tax Operational Fund managed by DNR. Funding becomes available from the Operational Fund on July 1 each year via the Long Bill enacted by the General Assembly. Per CWCB Policy 18, as approved by the CWCB Board in May 2022, requests for Programs, Projects, and Operational Activities are submitted by staff; reviewed by CWCB's Section Chief's and recommended for final approval by the CWCB Director. CWCB expects to receive a total of \$1,275,000 in funding this year; however, should that amount change or projects fail to materialize as planned, the funding will also be revised.

A final report of all funds spent will be provided to the Board at the September 2024 Board Meeting.



Table 1

SEVERANCE TAX OPERATONAL FUND

FOR FUNDING FROM JULY 1, 2023 TO JUNE 30, 2024

#	Name of Activity/Project/O	Description of the proposed Activity/Project/Operational Activity	Sponsor Section	PM	Cost	Matching	Approved FY 23/24
CWCB SL	pported Activitries/F	Projects/Operational Needs					
1	Colorado Climate Change Vulnerabilities Study Update	The Colorado Climate Change Vulnerability Study Phase II. Originally published in 2015, the study provides an overview of key vulnerabilities that climate variability and change will pose for Colorado's economy and resources. The purpose of the study is to provide state agencies, local governments, and others with background for preparedness planning. Since it was published in 2015, there have been updates to other important climate and hydrology datasets, and capacity for climate monitoring and data visualization has grown. Additionally, the demand for up-to-date, locally relevant information to inform adaptation practices and reduce risks has also significantly increased. CWCB seeks to update this report after the State of Climate in Colorado Report is revised, to leverage locally relevant data to address sector-specific vulnerabilities. Scoping this effort will include evaluating the existing report to identify existing strengths, information gaps, and opportunities to add update dinformation and improve the overall study. It may also include a series of scoping sessions with stakeholders to identify what information will be most useful and how best to communicate it in an update.	Water Supply Planning	Russ Sands	\$100,000	\$0	\$100,000
2	ISF outreach/educatio n/travel	In most years, the Stream and Lake Protection Section has budgeted between \$12,000 and \$16,000 to fund operating expenses such as travel, telecomm, printing, equipment, official functions, and conference registrations. However, those funds have been supplemented in most years by the Section's Severance Tax Operational Fund Education and Outreach Project, which historically has been funded at \$15,000. The Section's operating budget can vary significantly from year to year depending on the amount of outreach activities that are required to address issues associated with new instream flow (ISF) appropriations, acquisitions, legal protection, and implementation of Colorado's Water Plan, including Section staff's involvement in stream management plans and Water Plan grants. Staff estimates that \$15,000 of supplemental funding will be required to address travel associated with meetings, fieldwork, and other outreach activities related to over 60 ISF new appropriation recommendations, ISF water acquisitions generated from the Request for Water Acquisition Program, stream management plans, and Water Plan grants.	Instream Flow	Rob Viehl	\$15,000	\$0	\$15,000
3	ISF Hydrography Temporary Employee	Purpose: The instream flow (ISF) program is rerquired at certain times to install temporary gages to collect streamflow data. These temporary measuring devices require monthly measurements to ensure that the rating curves developed are accurate. With the demand for these gages for new appropriation and acquisitions projects increasing more help is needed to perform these measurements. Staff estimates this temporary position would conduct field work during the field season then process that data during the winter.	Instream Flow	Rob Viehl	\$35,000	\$0	\$35,000
4	Weather Modification Equpment	Purchase of equipment for weather modification. Weather modification is the only tool that adds water to the system.	Interstate & Federal	Andrew Rickert	\$100,000	\$0	\$100,000
5	Funding for UCRC Modeling	The UCRC will provide post-2026 planning and modeling to support ongoing negotiations between the Basin states.	Interstate & Federal	Amy Ostdiek	\$100,000	\$0	\$100,000
6	Flood Mitigation and Project Compliance	The CWCB has identified a substantial need for identification of deficiencies to flood mitigation projects throughout Colorado, a point vastly reinforced by the devastating floods of September 2013 and the post-wildfire events experienced in recent years. Funds from this program will be used to develop solutions to bring these projects back into technical or regulatory compliance. In some cases, some financial assistance may be provided to smaller communities to perform required one-time maintenance activities for regulatory purposes provided that the local governments and other entities benefiting from the project expend as many local resources as available to perform the work. The focus of this work will be to address local requests as well as identification and design of projects that can be implemented or upgraded to reduce the flood risk. The best example of the use of these funds are the current nationwide focus on the condition of levees, which has already impacted some colorado communities and is expected to impact many more in the coming years. Many of these levees and other flood control/mitigation projects are located in small or impoverished communities throughout the state that are in need of both technical and, in some cases, financial assistance. Finally, the section is evaluating the impacts of climate change to flood flows, and funds from this account could be used for a portion of this work. The CWCB staff is requesting this Severance Tax non-reimbursable investment to provide a means of leverage the severance tax dollars.	Watershed & Flood Protection	Kevin Houck	\$300,000	Local match as applicable (usually 50%)	\$150,000
7	Program Management Assistance for LOMR Delegation Program	For the past three years, CWCB has participated in a state level management program to process MT-2 Letters of Map Change on behalf of FEMA throughout the State of Colorado. This has resulted in increased efficiencies, faster response time, and better stakeholder service than if these map changes were processed at the national level. However, due to the startup nature of this program, staff has noticed that the workload was higher than anticipated at the start, resulting in a larger than expected backlog. This request would allow for the use of a consultant to help bring the backlog current and streamline functions moving forward. This will result in better handling of our stakeholders' needs.	Watershed & Flood Protection	Terri Fead	\$920,000	Funding would supplement our existing FEMA grant funding of \$870,000	\$50,000
8	Sheep Draw Master Drainage Plan	Request to assist the City of Greeley update Sheep Draw Drainag Basin Master Plan. The project will revise 7.5 stream miles of detailed flood hazard data with floodway. This is the primary flooding source for this basin and is tributary to the Cache la Poudre River. Once completed, the study will be submitted to Federal Emergency Management Agemcy (FEMA) as a Letter of Map Revision request to get the data incorporated into the FEMA regulatory products. These include the Flood Insurance Rate Maps (FIRMs) and Flood Insurance Study (FIS) for Weld County, Colorado and Incorporated Areas. incorporate into the FEMA	Watershed & Flood Protection	Terri Fead	\$200,000	Community will pay balance for project completion.	\$50,000
9	Accessibility testing for CWCB webpages	Accessibility testing for GIS and DSS webpages to ensure legal compliance with accessibility laws.	Agency	Carolyn Kemp	\$20,000	\$0	\$20,000

10	Community Assistance To provide technical and administrative assistance for communities in the state for administering floodplain regulations and other related issues. To assist communities in adopting updated floodplain management regulations, including the requirements promulgated in the Rules and Regulations for Floodplains in Colorado. 10 Non-Federal Cost Share		Watershed & Flood Protection	Kevin Houck	\$300,000	FEMA federal funding grant pays 75% of costs, this request pays 25%	\$75,000
11	CWCB Project Signage	CWCB will begin to utilize signage at project sites to idintify the funding source and support of the Department of Natural Resources - Colorado Water Conservation Board.	Agency	Lauren Ris	\$50,000	Walton Foundation	\$25,000
12	Contract with Alpine Geomatics, for continued GIS support	During the development of Wildfire Ready Watersheds, our efforts heavily relied upon Alpine Geomatics to compile data, analyse the data and execute the Statewide Suceptibility study. During this work, they were a sub-contractor to Enginuity, whom is the TA lead for the Watershed team. Enginuity is being aquired this month by Olson. The contract for the TA team will reamain in place. However, Alpine Geomatics sub-contract is suppose to end. They are currently hosting the web map / explorer for the Statewide Suceptibility study. We are getting requests to share specific datasets and may need to update the web map peridocially. If would be preferrable to have Alpine Geomatics on thier own contract in order to maintain continuity in web-hosting and their supportive role to Wildfire Ready Watersheds. Along with continued support for WRW, a dedicated GISP and CMS would be a great resource for CWCB to start engaging with Agency Action 3.8 - Develop an Interagency Watershed Planning Platform.	Watershed & Flood Protection	Steven Reeves	\$50,000		\$50,000
13	CWCB GIS Licensing	Annual fees for GIS licensing for CWCB staff.	Agency	Carolyn Kemp	\$20,000		\$20,000
14	Colorado Airborne Snow Measurement logistic support	Purchase order to fund Leonard Rice's ongoing contractor support for CASM.	Interstate & Federal	Erik Skeie	\$50,000		\$50,000
15	Platte River modeling to ensure ESA compliance	Purchase order with South Platte Water Related Activities Program (SPWRAP) to fund a point-source model on issues of shared interest. Ensures ongoing Endangered Species Act compliance for Colorado's water users in the South Platte Basin.	Interstate & Federal	Kara Scheel	\$50,000		\$50,000
16	UCRC Dues Increase		Interstate & Federal	Amy Ostdiek	\$35,000		\$35,000
					Total CWCB Appro	ved	\$925,000
Higher Ed	lucation Study/Proje	cts					
HE1	Research/Study	Hydrologic modeling to investigate irrigation impacts on the White River stream-aquifer system	CSU	Bailey, Ryan			\$49,990
HE2	Research/Study	Low-Cost IoT Technology for Runoff Water Quality Comparison with Traditional Methods	CSU	Brown, Ansley			\$48,125
HE3	Research/Study	Using Remote Sensing Data to Highlight Salinization Patterns Across an Irrigated River Basin in Relation to Contributing Factors	CSU	Chavez, Jose			\$50,000
HE4	Research/Study	Coupling StateMod with Forest Disturbance Scenarios to Inform Agricultural Operations in the San Miguel Watershed	CSM	Hogue, Terri			\$49,956
HE5	Research/Study	Water Management after Wildfires: Developing Standardized Testing Methods	CU	Mansfeldt, Cresten			\$50,000
HE6	Research/Study	Quantifying the role of mountain block recharge on the Denver Basin Aquifer System water budget using the stable isotopes of waters	CSU-CU	Rugenstein, Jeremy			\$45,838
HE7	Research/Study	Streamflow Forecasting in Colorado by Artificial Intelligence, Remote Sensing, and Data Mining for A Sustainable Future	MSU-Denver	Valipour, Mohammad			\$50,000
					Total HigherEd App	proved	\$343,909

Grand Total \$1,268,909



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

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Rebecca Mitchell, CWCB Director

то:	Colorado Water Conservation Board Members
FROM:	Kirk Russell, P.E., Finance Section Chief
Board Meeting:	May 17-18, 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: 1.85% - Agricultural 2.60% - Low-income Municipal 2.95% - Middle-income Municipal 3.30% - 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: May 17-18, 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.



Interstate Compact Compliance • Watershed Protection • Flood Planning & Mitigation • Stream & Lake Protection

Prequalified Project List

BORROWER	PROJECT NAME	APPLICATION DATE	BASIN	PROJECT DESCRIPTION	PROJECT COST/LOAN AMOUNT
Previously App	proved Applica	ations			
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



Interstate Compact Compliance • Watershed Protection • Flood Planning & Mitigation • Stream & Lake Protection

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
South Platte		
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)	\$54,000,000
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
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
Subtotal		\$2,769,400,000



BORROWER	PROJECT NAME	POTENTIAL
		LOAN
		AMOUNT
Arkansas		
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
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
Subtotal		\$20,000,000
		. , ,
San Miguel/Juan		
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	
Farmers Water Development Company	Poservoir Pohabilitation	
Farmer's water Development Company	Reservoir Renabilitation	TBD
Lone Cone Ditch and Reservoir Company	Reservoir Rehabilitation	IBD
Sellers McClane Reservoir and Ditch Co.	Reservoir Rehabilitation	TBD
Subtotal		\$22,000,000
Colorado		
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
Subtotal		\$7,820,000



BORROWER	PROJECT NAME	POTENTIAL LOAN
Gunnison		AWOONT
Duke Ditch Company	Ditch Piping Project	\$400.000
Bostwick Park Water Conservancy District	Dam Construction	7 100,000 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
Subtotal		\$2,780,000
North Platte		
Colorado Parks and Wildlife (*)	North Michigan Creek Reservoir	\$6,000,000
Spicer Ranches, LTD	Reservoir Rehabilitation	TBD
Walden, Town	New Well	TBD
Subtotal		\$6,000,000
Rio Grande		
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
Subtotal		\$24,000,000
Yampa		
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
Subtotal		\$105,600,000







1313 Sherman Street Denver, CO 80203 Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, Director

		D 1	

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То:	Colorado Water Conservation Board Members
From:	Kirk Russell, P.E., Finance Section Chief Jessica Halvorsen, Program Assistant
Board Meeting:	May 17-18, 2023 Board Meeting
Directors Report:	Water Project Loan Program, Design & Construction Status Report

The CWCB Loan Program has Substantially Completed (8) projects in Fiscal Year 2022/2023 as shown in the Table. There are currently (51) projects authorized to receive loan funding totaling \$352M. There are (43) projects currently under contract and in the Design/Construction phase totaling \$229M. 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. cwcb.colorado.gov/loans-grants/water-project-loan-program

	Borrower	Project	County	Loan Amount	Complete
1	Parker Water and Sanitation District	WISE - Phase 2 Infrastructure	South Platte	\$3,418,658	8/1/22
2	Southeastern Co Water Conservancy District	Pueblo Dam Hydroelectric Project	Pueblo	\$17,392200	1/1/23
3	Arapahoe County Water and Wastewater Authority	Chambers Reservoir Liner Rehabilitation	Arapahoe	\$4,404,000	3/1/23 (a)
4	Logan Irrigation District	Prewitt Reservoir Rehabilitation	Logan	\$1,257,750	3/1/23 (b)
5	North Sterling Irrigation District	North Sterling River Diversion Replacement	Logan	\$3,532,980	3/1/23
6*	Morrisania Water Supply Company	Ditch Rehabilitation Project	Garfield	\$101,000	5/1/23
7*	South Platte Ditch Company	Diversion Structure Rehabilitation	Washington	\$1,453,779	5/1/23
8*	Deuel and Snyder Improvement Company	Diversion Structure Replacement	Morgan	\$638,776	5/1/23
	* included in Director's Report		Total	\$32,065,413	

Fiscal Year 2022/2023 has added and preserved 4,700 acre-feet of reservoir storage; (a) 1,400; (b); 3,300





Ditch Rehabilitation Project

Morrisania Water Supply Company Substantially Complete May 1, 2023

The Morrisania Water and Supply Company's ditch had a 1,350 ft segment (seen in photo below on the left) that was losing as much as 20% of flows through seepage. The Ditch Rehabilitation Project restored the headgate to reduce risk of failure and piped the 1,350 ft of ditch to reduce seepage and evaporative losses.



Project Description

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 serves 65 shareholders on 880 acres.

The Ditch Rehabilitation Project focused on the aging headgate and a 1,350-foot reach of ditch which experienced notable losses due to seepage, preventing the ditch from delivering the Company's full water rights. To address these issues, the Company rehabilitated the headgate with new concrete in areas that had spalled and cracked, as well as piped the ditch with 24-in HDPE. Work took place between October 2022 and January 2023.

PROJEC	Τ Ο Α Τ Α
Sponsor: Morrisania Water Supply Co County: Ga	rfield Water Source: Battlement Creek
Type of Project: Ditch Rehabilitation	Board Approval Date: September 2022
Loan Terms: (Original) \$141,400.00 (Final) \$101,00)0.00 @ 2.45% for 20 years
Design Engineer: JUB Engineering	
Contractor: JC Excavating	



Diversion Structure Rehabilitation

South Platte Ditch Company

Substantially Complete May 1, 2023

The rehabilitated diversion structure offers more efficient and precise control of diversions into the South Platte Ditch. It features new bladder gates, and improved concrete floor, and a scour pad on the downstream side.



Project Description

The South Platte Ditch Company (Company) is a mutual ditch company that was incorporated in 1881. It provides direct flow irrigation water to 20 shareholders with approximately 4,440 acres in Washington and Logan counties between Atwood and Sterling. Shareholders grow primarily corn, alfalfa, beans, and sugar beets.

The original diversion structure was constructed in the early 1900s and underwent rehabilitation in 1997 to repair damage resulting from a flood in 1995. At that time, the Company decided to add a bladder gate, radial gate, and control building to improve operations. Since then, sand laden water damaged the bladder gate system, downstream concrete floor, and has eroded the downstream channel between 2 and 3 fee, with the downstream face of the structure being undermined. This project replaced the bladder gate components, overlaid the damaged structure floor, and installed a scour pad in the downstream channel floor with energy dissipation improvements. Construction began in December 2021.

P R	Ο Ј Ε С Τ Ο Α Τ	A					
Sponsor: South Platte Ditch	County: Washington	Water Source: South Platte					
Company	county. Washington	River					
Type of Project: Diversion Replacement Board Approval Date: May 2021							
Loan Terms: (Original) \$1,075,650 @ 1.10% (Final) \$1,453,779.19 @ 1.10%							
Design Engineer: Harris Engineering Consultants, Inc.							
Contractor: Ransom Boone Excavating							



Diversion Structure Replacement

Deuel and Snyder Improvement Company Substantially Complete May 1, 2023

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 Deuel & Snyder flume was also updated and allows for more precise measurement.





Project Description

The Deuel and Snyder Improvement Company (DSIC) was incorporated in 1884 and shares a diversion off the South Platte River with the Upper Platte and Beaver Canal Company (UOBCC). Together the two ditch companies provide irrigation water on 11,500 acres.

The existing diversion structure was 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. It had several deficiencies including seepage and erosion under the structure and concrete deterioration throughout the 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. This loan was for the DSIC share of the project costs for removal and replacement of the old structure.

P R	ΟJΕC	ΤΟΑΤ	A			
Sponsor: Deuel and Snyder	County: More	(an	Water Source: South Platte			
Improvement Company	County. More	san	River			
Type of Project: Diversion Replace	ment	Board Approva	Date: March 2020			
Loan Terms: (Original) \$649,430.00 @ 1.60% (Final) \$638,776.95 @ 1.60%						
Design Engineer: Harris Engineering Consultants, Inc.						
Contractor: Ransom Boone Excavating						

PROJECT							STATUS		
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update
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. Anticipated protracted schedule due to delays in ordering materials. RFP sent out. Contractor proposals due May 1st.
Billings Ditch Company	Billings Ditch Implemention Project	Rio Grande	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.
Breckenridge, Town of	Goose Pasture Tarn Dam Rehabilitation	Colorado	CT2023-0673	\$13,000,000	Cole Bedford		100%	75%	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 took place in December 2022. Construction will continue into 2024.
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.
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.
Florida Consolidated Ditch Company	Hess Lateral Improvement	Southwest	CT2019-2034	\$1,075,000	Kirk Russell		100%	0%	Company received a Water Smart Grant in Aril 2023. This \$2M will help cover the increase of construciton costs since the original bid in 2020. Company hopes to start construciton in the fall of 2023.
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 complete and construction bids were accepted. The Company is looking for options to fund project shortfalls now but still expect construction to start in the Fall of 2023.
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 reservior. The loan covers the cost of constructing a slurry wall around the reservoir to isolate future stored water from existing groundwater. The slurry wall is complete and the next phase of the construction will begin in late summer.
Fort Morgan Reservoir and Irrigation Company	Augmentation Pump Replacement Project	South Platte	CT2023-3300	\$1,753,000	Cole Bedford		100%	80%	Construction is currently underway on new pumps and new pump house. Substantial completion is expected in 2023.
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.

PROJECT								STATUS
Borrower	Project Name	Basin	Contract #	Amount	Manager	Design	Construction	Update
Genesee Water and Sanitation District	Reservoir No. 1 Enlargement	South Platte	CT2021-2851	\$5,500,000	Cole Bedford	100%	40%	The District was approved for this Ioan in Sep 2020 and a Water Plan Grant followed in March 2021. Bids were received in June 2021 and were well above expectations. A Ioan increase request was approved at the September 2022 Board meeting. Construction is now under way.
Glenwood Springs, City of	System Redundancy and Pre-Treatment Improvements	Colorado	CT2021-3104	\$8,000,000	Cole Bedford	100%	75%	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 Grizzley Creek Fire in 2020.
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. ESCO (contractor) demobilized. Grand Junction will finish construction by installing hydraulic lines for outlet gate in July 2023 when the snow melts. Then can begin filling reservoir.
Grand Junction, City of	Kannah Creek Flowline Replacement	Gunnison	CT2023-0568	\$3,200,000	Joshua Godwin	90%	0%	GJ is acquiring easements before starting construction.
Grand Junction, City of	Purdy Mesa Flowline Replacement	Gunnison	CT2021-2857	\$7,000,000	Joshua Godwin	80%	0%	Negotiating with selected contractor for work. Evaluating alternative options for storage tank since bids came bad unrealistically high for that component of project.
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.
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 ongoing.
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 began in Fall 2022.
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.
Lookout Mountain Water District	Upper and Lower Beaver Brook Dam Rehabilitation	South Platte	CT2021-3115	\$3,500,000	Joshua Godwin	100%	95%	Spillway and outlet work construction continues.

PROJECT							STATUS			
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update	
North Poudre Irrigation Company	Park Creek Expansion Project	South Platte	CT2023-2593	\$6,480,000	Cole Bedford		60%	5%	Project is currently in the design phase for a dam height increase which willincrease reservoir storage space. Some clearing took place over the winter as well as stockpiling material.	
Ogilvy Irrigating and Land Company	Seely Reservoir Dredging	South Platte	CT2019-2099	\$2,252,000	Joshua Godwin		85%	0%	OILC is obtaining county permits to cross county road with haul trucks. They plan to construct in the winter/spring 2023.	
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 purposees. Mobilization took place in January 2021. Dam work complete Spring 2021. Loan increase request (May 2021) for well power supply conversion.	
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.	
Rio Grande Water Conservation District Subdistrict No. 5	Saguache Pipeline	Rio Grande	CT2021-3846	\$6,020,000	Cole Bedford		100%	20%	Working on well owner agreement and Project easement agreements. Loan increase request in January 2023. Bidding will take place in spring 2024 and construction likely in the summer.	
Root and Ratliff Ditch Company	Ditch Piping and Rehabilitation	Southwest	СТ2022-2976	\$300,000	Kirk Russell		100%	99%	Project is nearly complete. All pipe is in place. Final grading and seeding is done. SC expected in May 2023	
Smith and Emmons Ditch Company	Diversion Structures Replacement Project	South Platte	CT2023-2473	\$410,000	Cole Bedford		100%	10%	Contractor has been selected and preliminary materials purchased. Construction will take place after the 2023 irrigaiton season.	
Special Improvement District No. 3 of the RGWCD	Alpha Hay Farms Augmentation	Rio Grande	CT2023-2843	\$2,555,000	Cole Bedford		100%	0%	Pay Requests for the initial land purchase was approved at the end of April. Construction work that will be ongoing into 2024.	
Special Improvement District No. 4 of the Rio Grande WCD	Peachwood Farms Augmentation & Sustainability	Rio Grande	CT2023-3361	\$3,456,000	Cole Bedford		100%	50%	Contract is complete and ready to disburse funds. The first pay request for land purchase is expected in spring 2023 after which some construction work will take place.	
Spring Dale Ditch Company	Diversion Structure Replacement	South Platte	CT2020-3110	\$1,210,000	Cole Bedford		100%	90%	This project will replace Springdale's aging diversion structure on the South Platte. All work except the final punch list items are complete. Two small pay requests are still expected before closeout.	

	PF	ROJECT			Γ			STATUS				
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update			
Sunnyside Park Ditch Company	Sunnyside Park Ditch Piping	Arkansas	CT2023-2022	\$533,430	Cole Bedford		100%	99%	This project will pipe a half-mile length of open ditch along the Arkansas River. The project was completed in fall 2022 and will be closed out in summer 2023 to set the repayment date for July 1.			
Trinchera Conservancy District Groundwater Management Subdistrict	Alpha Hay Farms Augmentation	Rio Grande	CT2023-2846	\$2,229,000	Cole Bedford		100%	0%	Pay Requests for the initial land purchase was approved at the end of April. The Trinchera Conservancy portion of the project is complete with the purchase and the loan closeout is being prepared now.			
Trinchera Conservancy District Groundwater Management Subdistrict	Augmentation Pipeline	Rio Grande	CT2022-3040	\$977,000	Kirk Russell		100%	99%	Project is complete. Substantial completioin expected in mid 2023.			
Triview Metropolitan District	Stonewall Springs Reservoir Complex	Arkansas	CT2022-3328	\$4,731,000	Kirk Russell		100%	75%	Reservoir under construction and working on pumphouse.			
Tunnel Water Company	West Half Laramie- Poudre Tunnel Rehabilitation	North Platte/South Platte	CT2019-3706	\$17,830,000	Kirk Russell		100%	98%	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.			
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.			
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. Construction is expected to begin in fall 2023.			
Victor, City of	Victor Reservoir No. 2 Dam Rehabilitation	Arkansas	CT2021-3873	\$510,000	Kirk Russell		100%	0%	Construciton delay until May 2024 due to supply delivery schedules. Town removed portion of outlet tower and DWR/Dam Safety issued a fill restriction.			
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.			
Windy Gap Firming Project Water Activity Enterprise	Windy Gap Project (Chimney Hollow Reservoir)	South Platte	CT2021-2039	\$89,108,911	Cole Bedford		100%	30%	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.			

	PF	ROJECT			'		STATUS				
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update		
Grand Valley Water Users Assocation	Vinelande Dower Diant	Colorado	CT2022-2084	\$778,011	Matt		100%	00%	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		
Orchard Mesa Irrigation District		Colorado	CT2022-0892	\$853,912	Stearns		100%	33%	November 2022 via a temporary interconnect with Xcel Energy, and will be fully operational in May 2023 via a permanent interconnect.		
Cottonwood Water and Sanitation District			CT2015-0105	\$1,116,000					Binney Connection Pipeline of Water Infrastructure and Supply Efficiency project will increase WISE flow capacity to 30MGD and provide infrastructure from		
Inverness Water and Sanitation District	WISE - Phase 2 Infrastructure	South Platte	CT2015-0119	\$1,413,000	Kirk Russell		100%	90%	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, pumpp cans have been delivered and installed, pump motors have arrived at the pump manufacture, preliminary SCADA meetings begun,		
Pinery (Denver SE Water and Sanitation District)			CT2015-0086	\$1,413,130				Glacier starting to form rebar for the flow control building, start laying pipe. Precast concrete walls for pump station complete.			
Cottonwood Water and Sanitation District			CT2015-0104	\$363,600					Annual disbursement to be made on this loan through 2021.Design Status		
Inverness Water and Sanitation District Parker Water and Sanitation District	WISE - Denver International Airport Connection	South Platte	CT2015-0120	\$450,000	Kirk Russell		80%	60%	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		
			CT2015-0110	\$1,089,000					continues focused on the DIA Connection.		

TOTAL UNDER CONTRACT \$229,136,733

APPROVED PROJECTS, NOT CONTRACTED

PROJECT

	PF	ROJECT			[STATUS					
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update				
Borrower	Project Name	Basin	Contract #	Amount	Manager		Design	Construction	Update				
	-			•					·				
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				
Logan Irrigation District	Prewitt Reservoir Rehabilitation	South Platte	CT2023-XXXX	\$1,831,000	Cole Bedford		0%	0%	This Project is currently on hold. Related work on the Prewitt Dam was completed in the fall of 2022 and dredging work may go forward in the fall of 2023.				
Keensburg, Town of	Alluvial Water Rights Extension Project	South Platte	CT2023-XXXX	\$2,100,000	Joshua Godwin		0%	0%					
Ogilvy Augmentation Company	Loloff Reservoir Acquisition	South Platte	CT2023-XXXX	\$1,129,000	Joshua Godwin		0%	0%	Greeley stock shares in treasury, JG - working on vauation of property				
Platte Valley Irrigation Company	Platte Valley Reservoir No. 1	South Platte	CT2023-XXXX	\$4,500,000	Joshua Godwin		0%	0%	JG - waiting for appraisal and legal description				
Twin Lakes Reservoir and Canal Company	Grizzly Reservoir Rehabilitation	Colorado	CT2023-XXXX	\$9,833,000	Joshua Godwin		0%	0%					
Colorado City Metropolitan District	Lake Beckwith Dam Modifications	Arkansas	CT2023-XXXX	\$3,333,000	Joshua Godwin		0%	0%					
Board of Water Works of Pueblo	Southside Diversion Dam Improvement Project	Arkansas	CT2023-XXXX	\$9,750,000	Cole Bedford		100%	0%	Construction is expected to take place in fall 2023. Design work is complete.				

NOT UNDER CONTRACT SUB \$122,476,000

GRAND TOTAL \$351,612,733

WATER PROJECT CONSTRUCTION LOAN PROGRAM LOAN REPAYMENT DELINQUENCY REPORT LOAN FINANCIAL ACTIVITY REPORT MAY 2023

LOAN REPAYMENT DELINQUENCY

Loan repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2022 through April 2023. The effective due date of the payment is inclusive of the Board's current 60 day late policy. Hence, the date the payment was received was compared to the last day allowable prior to the payment being considered late.

Repayments due for Fiscal Year 2023 total 320. Two Rivers is currently delinquent. All other payments are current.

LOAN FINANCIAL ACTIVITY

Loan financial activity relative to the Water Project Construction Loan Program for Fiscal Year 2023 is summarized as follows:

Funds received relative to loans in repayment totaled \$29.1M for this year.

Funds disbursed relative to new project loans totaled \$36.1M for this year.

Net activity resulted in \$7.0M disbursed by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total received.

Further breakdown is summarized as follows:

The Construction Fund portion consists of \$15.5 in receipts and \$14.9M in disbursements for a total net activity of \$.6M received over disbursed. The STPBF consists of \$13.6M in receipts and \$21.2M in disbursements for a total net activity of \$7.6M disbursed over received.

CONSTRUCTION FUND

Period	Period Principal		Interest		Т	Total Received		Disbursements		Net Activity	
July 2022	¢	271 761	¢	200 467	¢	501 000	¢		¢	501 000	
	¢ ¢	200 747	¢ ¢	209,407	ф ф	557 266	ф Ф	-	ф ф	501,220	
August 2022	ф ф	322,747	ф ф	234,319	ф ф	0.000.074	ф ф	50,449	ф ф	0 000 000	
September 2022	\$	1,102,786	\$	1,283,585	٦ \$	2,380,371	\$	50,148	\$	2,330,223	
October 2022	\$	1,708,676	\$	192,893	\$	1,901,568	\$	410,596	\$	1,490,973	
November 2022	\$	-	\$	-	\$	-	\$	286,904	\$	(286,904)	
December 2022	\$	-	\$	-	\$	-	\$	1,248,405	\$	(1,248,405)	
January 2023	\$	2,452,493	\$	1,544,067	\$	3,996,560	\$	2,201,187	\$	1,795,373	
February 2023	\$	2,196,321	\$	1,127,816	\$	3,324,137	\$	4,964,576	\$	(1,640,440)	
March 2023	\$	924,130	\$	627,709	\$	1,551,839	\$	2,535,352	\$	(983,513)	
April 2023	\$	865,923	\$	317,743	\$	1,183,666	\$	3,134,787	\$	(1,951,121)	
	-		-		r		1				
FY 2023 Totals	\$	9,944,835	\$	5,537,799	\$	15,482,635	\$	14,887,403	\$	595,232	

SEVERANCE TAX TRUST FUND PERPETUAL BASE ACCOUNT

Period Principal			Interest		Total Received		Disbursements		Net Activity	
hale 0000	^	00 707	*	04.000	^	105 101	^			105 101
July 2022	\$	90,797	\$	34,336	\$	125,134	\$	-	\$	125,134
August 2022	\$	3,870,987	\$	1,026,365	\$	4,897,353	\$	333,891	\$	4,563,462
September2022	\$	619,776	\$	725,418	\$	1,345,194	\$	157,189	\$	1,188,005
October 2022	\$	502,400	\$	410,987	\$	913,387	\$	426,931	\$	486,456
November 2022 *	\$	-	\$	-	\$	-	\$	1,213,033	\$	(1,213,033)
December 2022 *	\$	-	\$	-	\$	-	\$	456,812	\$	(456,812)
January 2023	\$	1,322,568	\$	1,621,703	\$	2,944,271	\$	2,826,788	\$	117,483
February 2023	\$	1,286,856	\$	926,218	\$	2,213,074	\$	1,769,605	\$	443,469
March 2023	\$	173,775	\$	252,995	\$	426,770	\$	6,378,876	\$	(5,952,106)
April 2023	\$	485,186	\$	217,422	\$	702,608	\$	7,613,138	\$	(6,910,530)
FY 2023 Totals	\$	8,352,345	\$	5,215,444	\$	13,567,789	\$	21,176,262	\$	(7,608,473)

	GRAND TOTAL	\$	18,297,180	\$	10,753,243	\$	29,050,424	\$	36,063,665	\$	(7,013,241)
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* no data in November and December due to position vacancy and deposits recorded in January and February