



COLORADO

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

DIRECTOR'S REPORT

January 2021

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



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: Rebecca Mitchell
Alana Holdren

DATE: January 25-26, 2021

SUBJECT: **Agenda Item 4b, January 2021 CWCB Board Meeting Director's Report**

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~STATEWIDE~

Finance Section Director’s Report Items – January 2021

CWCB SMALL FEASIBILITY STUDY GRANT FUND UPDATE:

New grant applications approved:

1. Dave Miller Ditch Company – Ditch Piping (\$4,450)
2. Bergen Ditch Company – Polly A Deane Reservoir Rehabilitation (\$17,898)

Previously approved grants in FY20/21:

1. Bear River Reservoir Company – Stillwater Reservoir No. 1 Rehabilitation (\$49,930)

Total funds approved for feasibility study grants in FY20/21: \$72,278

~COLORADO RIVER BASIN~

COLORADO RIVER WATER USE—

2021 Colorado River Storage as of January 4, 2021			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1,083.89	10.336	40%
Lake Powell	3,581.80	10.095	42%
Total System Active Storage		27.504	46%
2020 Total Active Storage		31.299	52%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell (Forecasted Water Year 2021)		6.231	58%

Forecasted CY 2021 Lower Basin Consumptive Use		
State	Use (MAF)	Total (MAF)
Arizona	2.455	
California		
California Agricultural	3.228	6.770
Metro. Water District	0.816	
Other	0.015	
Nevada	0.256	

*Note MAF = million acre-feet

IMPLEMENTATION OF RIVER DISTRICT LEASE OF RUEDI WATER FOR ISF USE ON FRYINGPAN RIVER:

The CWCB's Water Lease Agreement with the Colorado River Water Conservation District (River District) was finalized and became effective on November 24, 2020 with a term beginning on January 1, 2021. Coordination among the CWCB, Colorado Parks and Wildlife (CPW), Roaring Fork Conservancy (RFC), River District, and Bureau of Reclamation (Reclamation) on the timing and rate of releases of leased water began on December 28, 2020 in response to observations of anchor ice formation on the lower Fryingpan River. In an effort to extend the time frame for providing leased water, CPW requested Reclamation to start releases on January 1, 2021 at rates to bring Fryingpan River flows up to 60 cfs, even though the ideal target rate is 70 cfs. Reclamation has been releasing leased water since January 1 and maintaining flows at the Fryingpan near Ruedi gage at 60 cfs. On January 6, CPW staff observed that the additional flows appear to have broken down ice dams that had built up prior to the releases of leased water, and did not see any extensive anchor ice in the channel. CPW and RFC will continue to monitor conditions on the River.

~SOUTH PLATTE RIVER BASIN~

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM — DELISTING OF THE INTERIOR LEAST TERN

On January 13, 2021, the U.S. Fish and Wildlife Service published a final rule in the Federal Register announcing the removal of the Interior least tern from the Federal List of Endangered and Threatened Wildlife. The Interior least tern is one of the four target species of the Platte River Recovery Implementation Program. The de-listing process commenced in late 2019; this rule is the U.S. Fish and Wildlife Service's final action to delist the Interior least tern and will become effective on February 12, 2021. The Interior least tern has been deemed recovered and threats have been eliminated or reduced to the point that the species no longer meets the definition of an endangered or threatened species under the Endangered Species Act.

When the Interior least tern was listed as endangered in 1985, biologists estimated only 2,000 individuals surviving in the wild. Now, there are over 19,000 birds across 18 states with long-term protections for approximately 80% of the rangewide population of the species, including the Platte River Recovery Implementation Program's management actions. The Platte River Recovery Implementation Program will continue its long-term conservation and management actions for the Interior least tern through its Adaptive Management Plan, including implementing similar conservation actions that are necessary to protect the piping plover. There has been no reported extirpation of any population or subpopulation since the species was listed in 1985.

Despite the Interior least tern's small size — being the smallest of all North American terns measuring only 8 to 9 inches long — this bird is known for its high energy and fierceness in the wild. We consider this bird's fighting spirit as a symbol of our persistence to successfully work towards recovery for all target species, while providing for the development of water in Colorado. Together with water users, the Colorado Water Conservation Board is celebrating the Platte River Recovery Implementation Program's more than a decade record of success. With the completion of the first year of the Platte River Recovery Implementation Program's First Increment Extension, it has momentum to continue to support recovery of the threatened and endangered species. (*Jojo La*)



~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGF) UPDATE:

No grant applications have been received since the November 2020 Director's Report

One grant has been approved since the November 2020 Director's Report

- **Town of Hudson** – Water Efficiency Plan (\$20,000)

The following are deliverables sent to the CWCB since the last Director's Report:

- **Town of Erie** –Drought Management Plan – *50% & 75% Progress Report*
- **City of Evans** – Water Efficiency Plan Update – *Submitted Final Plan*

(Ben Wade)

WATER EFFICIENCY & DROUGHT PLANS UPDATE: The Office of Water Conservation & Drought Planning (OWCDP) continues to work with the following providers to approve their Water Efficiency and Drought Management Plans:

DROUGHT MANAGEMENT PLANS

Approved Plans

No new plans have been approved since the last board meeting.

Drought Management Plans in review

- City of Durango

WATER EFFICIENCY PLANS

Approved Plans

- City of Northglenn
- Town of Eagle
- City of Westminster
- City of Evans
- Pueblo West

The following plans have been given *conditional approval*. CWCB staff will continue to work with these entities until their respective Water Efficiency Plans achieve approval status.

Conditional Approval

- City of Lamar
- Sterling

Water Efficiency Plans in review

No plans in initial review at present time

(Kevin Reidy & Ben Wade)

GOVERNOR'S WATER AVAILABILITY TASK FORCE: The next Water Availability Task Force meeting will be held on January 21 from 9:30-11:30am. Please check the website (<http://cwcb.state.co.us/public-information/flood-water-availability-task-forces/Pages/main.aspx>) for additional information. **(Ben Wade)**

CO WATER LOSS INITIATIVE: Phase I of the Colorado Water Loss Initiative was completed in mid-November. A non-reimbursable request was successful through HB 20-1403 for Phase II of the CO Water Loss Initiative. Kevin has submitted the scope of work and budget to procurement to start the RFP process for this second phase to continue Phase I work. **(Kevin Reidy)**

LAND/WATER PLANNING NEXUS:

- Sonoran Institute, through a CWCB water plan grant, has extended their Colorado Growing Smart program to carry out 3 more additional workshops over the next 18-24 months. Kevin is on the advisory group for these trainings.
- Kevin has been participating on the core planning team for the Denver One Water Plan funded by a water plan grant. The team consists of various Denver city departments, Mile High Flood,

Denver Water, Metro Wastewater and the Greenway Foundation. The core team has been working on defining what the plan will cover and what goals the plan should address. The project sent out a community survey that will close in mid-January and the group is working on metrics and indicators for the project.

- The Water and Land Use Alliance met on 1/13/20 for its first quarterly meeting of 2021. **(Kevin Reidy)**

Drought/Water Plan Updates

- Water Year 2020 concluded as the third driest water year on record, trailing only 2002 and 2018. Climate outlooks for 2021 indicate drought conditions are expected to continue next year.
- The State Drought Plan has been in activation since June 2020, with the Agriculture Impact Task Force and Municipal Water Task Force working hard to coordinate between state, federal, and local agencies and impacted communities. These task forces aim to identify active problems and potential threats from the economic, physical, and social impacts of drought and also serve as essential forums to make recommendations for mitigation and response. Details on meetings can be found on the website (cwcb.colorado.gov/drought).
- Interagency and inter-industry drought coordination will continue until statewide conditions significantly improve.

~WATERSHED AND FLOOD UPDATES~

CWCB to Review Flood Insurance Rate Map (FIRM) Revision Requests in Colorado for FEMA Risk MAP

CWCB will be launching a new program to review and process FIRM revision requests for the State of Colorado (outside the Mile High Flood District) on behalf of FEMA. Revisions will be those that require technical analysis and result in physical changes to the flood risk information shown on a FIRM. CWCB will work closely with FEMA Region VIII to follow the MT-2 map revision process for review and management of Conditional Letters of Map Revision (CLOMRs) and Letters of Map Revision (LOMRs).

An FY20 grant from FEMA for \$670,000 has been awarded for the first year of this LOMR Review Partner Program. CWCB has met FEMA's requirements to be one of the few qualified Cooperating Technical Partners (CTPs) throughout the country to implement this program. The LOMR Review Partners Program benefits are the ability for CWCB to use local knowledge of ongoing flood hazard studies/projects and valuable local government relationships to leverage both FEMA and CWCB information and resources, help streamline and enhance the map revision process, and provide local access to resources and assistance for FIRM revision requests within the State. CWCB processing of map revision requests are anticipated to begin this Spring.

The program will be managed by Terri Fead, who recently came over to CWCB from the Mile High Flood District, where she performed similar services.

(Terri Fead)

Colorado Building Resilient Infrastructure and Communities (BRIC) – Flood Mitigation Assistance (FMA) Grant Review

January begins the application review and recommendation process for the Federal Emergency Management Administration’s Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) grant programs. As a member of the State Hazard Mitigation Team, the CAP NFIP Coordinator represents the CWCB on the BRIC/FMA application review panel. The review panel also includes representatives from CO Division of Homeland Security and Emergency Management (DHSEM), Dept. of Local Affairs/CO Resiliency Office (CRO), and the CO Div. of Water Resources/Office of Dam Safety.

Building Resilient Infrastructure and Communities (BRIC) supports states, local communities, tribes and territories as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards. BRIC is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program.

The Flood Mitigation Assistance Program is a competitive grant program that provides funding to states, local communities, federally recognized tribes and territories. Funds can be used for projects that reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program. FEMA chooses recipients based on the applicant’s ranking of the project and the eligibility and cost-effectiveness of the project.

The application period for these programs opened on September 30, 2020, and closed at midnight on January 12, 2021. Following independent review of all applications, the panel will meet (virtually) on Jan. 20 to discuss and rank the applicants and submit our recommendations to the DHSEM Mitigation Management Team for final acceptance. DHSEM will assemble and submit the selected applications to FEMA by Jan. 27.

(Doug Mahan)

Colorado Watershed Restoration Program Grant - The CWCB Colorado Watershed Restoration Program (CWRP) is a grant program developed in 2008 to protect or restore the ecological processes that protect land and water while protecting life and property from floods. Given the economic circumstances of the state due to COVID-19, the CWRP has received limited funding, approximately \$4 million, to be allocated over the next three years. The program has received 23 applications this winter, with a total request of approximately \$2.5 million.

Given our limited funding, we have taken the effort to create a rubric to quantitatively assess these applications and rank them against one another to determine the best use of state funds. This assessment takes into consideration factors such as the level of stakeholder involvement, whether or not match funds have been secured, and the likelihood of success, among others. Unfortunately, we will not be able to grant all of the funds requested, but using this assessment process, we hope to ensure

that state funds go to those projects that are the most sound and have the greatest likelihood of success.

(Andrea Harbin Monahan)

Flood Section Staff Member Receives Certification – Congratulations are in order to Andrea Harbin Monahan of the Flood Section, who passed her test and has received Certified Floodplain Manager (CFM) certification. Administered by the Association of State Floodplain Managers (ASFPM), the national certified floodplain manager program was established in 1998 to create a baseline testing of professional competence in floodplain management. Recognizing training/continuing education/professional development is a keystone of the program, as the floodplain management program is continually evolving and the knowledge and performance of local, state, federal and private-sector floodplain management professionals is ever changing. Congratulations to Andrea.

(Kevin Houck)

Grant Request Presentation Delivered to Capital Development Committee for Four Corners Radar – Kevin Houck delivered a presentation along with Chuck Stevens, La Plata County Manager to the Capital Development Committee (CDC) on December 15th in support of additional funding for the effort to implement a state- and locally-funded weather radar in the Four Corners area.

If implemented, the radar will address a well-known “radar hole” caused by beams from existing National Weather Service radars being blocked by mountainous terrain. As a result, this entire region of the state is mostly prevented from receiving real-time weather information, which hampers the ability to forecast weather, provide adequate emergency services, monitor and react to transportation impacts, and forecast spring runoff in order to manage water resources.

Although funding has been obtained through a grant awarded by the Colorado Department of Local Affairs as well as a consortium of local partners, uncertainties associated with the project required a need to develop contingency funding in case of problems discovered during the project. The request to the CDC was for \$300K, which would be matched by \$100K from CWCB funds and another \$100K from CDOT. Already \$400K of locally-derived funds have been identified.

A decision from the CDC is expected in early spring.

(Kevin Houck)

CWCB Staff Active in Technical Assistance Associated with Wildfire Recovery:

CWCB staff have had an active presence in local and regional efforts associated with watershed and water supply protection issues associated with the 2020 wildfires. Staff have assumed the lead role for technical assistance associated with these efforts. While efforts were initially focused on the Grizzly Creek Pine Gulch fires, emphasis has shifted in recent weeks to the East Troublesome and Cameron Peak Fires as well as to the Calwood Fire. These are the fire scars that have the highest remaining levels of infrastructure at risk due to flooding, debris flow, erosion, and water quality impacts to water resources.

Services that are ongoing include general technical assistance to local governments, watershed coalitions, and other state and federal agencies. In addition, work has included hydrologic and hydraulic modeling for the fires using spatial layers including post-fire burn severity along with structure and infrastructure layers. Results from these models provide an estimate of the post-fire risks and will help identify infrastructure values at risk for the coming years. The results can help identify and prioritize projects that can be implemented through the NRCS Emergency Watershed Protection (EWP) program and other funding sources.

Staff have also reviewed and commented on local scopes of work upon request and have been a steady presence at local stakeholder meetings. In addition, they have helped identify potential funding sources that can be used for recovery projects.

Staff are preparing for the potential of state economic stimulus money that could be used to implement wildfire recovery projects associated with watershed recovery and protection to agricultural and municipal water supplies. CWCB may be tasked with administering these funds, and preparations are being made in anticipation of this possibility.

The Statewide Floodplain Rules and Regulations (Rules) were promulgated by the CWCB Board in November 2010 and became effective in January 2011. These provide minimum requirements that local governments must follow in order to mitigate risks from flooding for Colorado residents and businesses. Although these rules are not voluntary, the CWCB staff have made an internal standard of practice of enforcing these rules in two ways – through its administration of the National Flood Insurance Program (NFIP) on behalf of the State, and by requiring communities to participate in the NFIP in order to be eligible for CWCB grants, and enforce the State Rules.

Because 99% of Colorado's population resides in communities that participate in the NFIP and enforce the Rules, this is often not an issue to consider. However, because Grand County does not participate in the NFIP and does not enforce the Rules, this may become a consideration as state funding becomes available. Based on recent conversations, Grand County has not expressed an interest in joining the NFIP or enforcing State Rules.

(Kevin Houck)

January 2021 Risk MAP Project Updates by Major Water Basin

We have a new Flood Mapping Program Manager, who started in November of 2020. Terri Fead and she brings over 35 years of experience to our program, and replaces Thuy Patton who left CWCB back in September 2020. Terri was previously working at the Mile High Flood District, and will be an invaluable resource in managing the new Letter of Map Revision (LOMR) Review Program, which will be formally beginning early this 2021. Terri's background in heavy in floodplain management, and she is both a Professional Engineer (PE) and Certified Floodplain Manager (CFM). Welcome, Terri!

North Platte – No work being conducted in this area.

South Platte – Park, Jefferson, Gilpin, Boulder, Larimer, Weld, Morgan, Washington, Sedgwick, and Logan Counties have ongoing studies (though some are managed/led by the Mile High Flood District, or MHFD):

- Weld County: The notice is to be published in the Federal Register this month. The Appeal Period is anticipated to start early February. Preliminary DFIRM information is to be issued the end of January. We are checking with communities on their preference for receiving the preliminary information digitally, hard copy, or a combination.
 - o Cache La Poudre Additional Studies: FEMA provided additional funds for this effort in FY 2018. The floodplain mapping was approved. Larimer County preliminary FIRM database distribution is scheduled for January 26, 2021.
- CHAMP Physical Map Revision, Phases 1-2: The CWCB was able to leverage \$929,729 from FEMA to continue CHAMP through the FEMA regulatory process. This study involves analyzing streams across seven counties in northeast Colorado and will include 233 FIRM panel updates. The counties include Boulder, Gilpin, Weld, and Larimer Counties.
 - o Boulder County: New appeal periods for the revised preliminary DFIRM panels to start January 20, 2021 for Unincorporated Boulder County, City of Boulder, City of Longmont, Town of Erie, Town of Jamestown, Town of Lyons, Town of Superior; and start January 21, 2021 for in the Town of Nederland, and Town of Ward. The need for two appeal periods was due to the timing of newspaper notice publications in the communities.
 - o Larimer and Big Thompson River areas: Provisionally Accredited Levee (PAL) letters were signed by Fort Collins for the Timberline and Drake levees in Fort Collins. These levees will be reflected on the revised mapping with a PAL notation. Larimer County preliminary information distribution is scheduled for January 26, 2021.
- The St. Vrain Risk Map phase 3: Project continues from its original funding in FY16. Gilpin County's appeal period began on December 24, 2020 and will last for 90 days.

- Elbert and Park Counties Base Level Engineering (BLE): BLE is a wide scale, automated approach to analyzing flood risk order to provide communities with an initial overview, but it is not a regulatory product.
 - o Elbert County: Contractor has finished processing topography and is working on basin breakouts for hydrology.
 - o Park County: Contractor is processing additional terrain data. They have processed the hydrology and are starting on the hydraulic analysis.

Colorado – Mesa, Eagle, Summit, and Garfield Counties have ongoing studies:

- Mesa County Phase 2: The hydraulic analysis for Colorado River was updated with survey data. There has been coordination with Grand Junction for an ongoing LOMR, and consideration is being given to incorporating the LOMR into the hydraulic model. The remainder of the County, including floodplain mapping, is being funded by the FEMA FY20 grant. Hydraulics for the remainder of the county has also been submitted. The two analyses will be combined into one floodplain mapping effort.
- Flood Risk Information System (Mesa County): Contractor is developing a web app to present draft flood risk products in Mesa County. This will include a public user interface as well as a community official (private) interface to highlight various types of flood risk information. Contractor has developed most components of the interface, and we are reviewing as well as quality checking/quality testing functionality. We expect this site to be ready to distribute/public to the public in the next couple of months (early 2021). No major updates.
- Grand Junction Levee (Mesa County): Project kicked off in the summer. This is a component of the larger countywide Mesa County project. We are working on obtaining as-built information for the levee system.
- Eagle County Physical Map Revision Phases 2-3: Some tie-in issues between the Eagle/Pitkin county products downstream of the Town of Basalt are being coordinated with the reviewer.
- Garfield County Phase 2-3: CWCB received a \$212,558 grant in FY17, to provide updated hydrologic and hydraulic engineering as well as floodplain mapping for the Roaring Fork River. Colorado River floodplain mapping services were also scoped within the County to convert the study to a countywide effort. The project was on hold due to addressing some hydraulic data tie-in issues with older flood risk information. We met January 5, 2021 with the Garfield County, FEMA and our Contractor to identify additional priority areas for updated flood hazard information. Including these areas will address the previous data source tie-in issues, and provide updated flood hazard information for informed decision making in areas of concern.

Gunnison/Uncompahgre – Delta, Gunnison, Hinsdale, San Miguel, and Ouray Counties have ongoing studies:

- Delta County Phase 2-3. Hydrology is expected to receive approval in the near future. Additional topographic data has been processed and submitted for review. Hydraulic modeling is being updated using the revised terrain information, and is almost complete. A flood risk review meeting will be scheduled for early 2021.
- Upper Gunnison Phases 2-3: This project is being continued under new grants (since the original FY15 grant), part of which are covered by state funds such as the Hinsdale County Partial Countywide Revision. The Gunnison Physical Map Revision process is being covered by FEMA FY19 funds.
 - o Hinsdale County: A flood risk review meeting was held December 17, 2020. Floodplain mapping is underway, and is anticipated to be submitted for review in February.
 - o Gunnison County: Hydrology has been approved. We are working with our Contractor to determine an appropriate approach to some complicated 2D modeling areas in the hydraulic analysis.

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

- Rio Grande River hydrology: We are waiting on FEMA approval of the hydrology Conditional Letter of Map Revision (CLOMR). This CLOMR will allow the hydrology update to be used as the new official source of hydrology data for future studies within this basin. Project is almost complete.
- City of Alamosa levee: Contractor working with City on wrapping up additional modeling scenarios. The final report is anticipated in February 2021, and will be based on two-feet of freeboard along the levee system.
- Costilla County: The DFIRM database and preliminary hydraulics are being developed.
- Mineral County: Hydraulic modeling continues. There is coordination taking place with FEMA and the local government on certification of an existing levee along Willow Creek through the City of Creede. The levee certification will be completed as a Letter of Map Revision (LOMR), and we anticipate accounting for the levee in the hydraulic analysis.

Arkansas – Lake, Chaffee, Fremont, Teller, El Paso, Custer, Huerfano, Las Animas, Otero, Bent, Prowers, and Lincoln Counties have ongoing studies:

- Arkansas River Physical Map Revision: Chaffee and Fremont Counties hydraulics were approved, and floodplain mapping will be incorporated into countywide studies. Prowers County floodplain mapping has been submitted for review. These projects are moving on as countywide studies thanks to FEMA FY19 and FY20 funds.

- Lake and Chaffee BLE: Contractor is completing the Base Level Engineering (BLE) hydraulic analysis for Lake County and anticipates submittal in late January. A submittal of the Chaffee County hydraulic modeling is anticipated to be in February.
- Custer and Fremont BLE: The initial stage of Base Level Engineering (BLE) hydraulic modeling for these two counties is underway. Coordination is taking place for inflow hydrographs needed from other counties to move forward with the hydraulic analysis.
- Huerfano BLE: Internal QA-QC currently underway for Base Level Engineering (BLE) hydraulic modeling. Discovery meeting anticipated in February. Plan to submit BLE hydraulics for review after meeting with communities and obtaining additional feedback.
- Bent and Otero BLE, and CHAMP 3 Phase 2 projects: Working to obtain inflow hydrographs from adjacent county to proceed with Base Level Engineering (BLE) work. An additional task order to supplement the existing project with missing inflows is being worked. This project will upgrade the Bent and Otero counties to countywide studies, since the Arkansas River corridor portions were part of CHAMP 3 Phase 2.
- Las Animas (Bent County) Pre-Levee: Project is part of the larger countywide map update for Bent County. Contractor is working with the local communities to obtain data and as-built information for the levee.
- Granada/Holly (Prowers County) Pre-Levee: Contractor to provide levee inspection reports to CWCB by mid-January. We are meeting with the communities January 19, 2021, and will discuss the levee findings in conjunction with the Base Level Engineering (BLE) results and the Arkansas River floodplain mapping.
- Prowers and Las Animas BLE projects: The Prowers County Base Level Engineering (BLE) results will be presented to the communities at a meeting January 19, 2021 where we will also discuss the Arkansas River floodplain mapping and results of the levee inspections. The Contractor will focus on the Las Animas BLE hydraulics toward the end of January.
- El Paso BLE/Phase 2 and Templeton Gap (T-Gap) pre-levee work: Original work in El Paso County was funded in 2014, but continues through FY19 and FY20 funds. Discovery meetings and Phase 2 kickoff meetings held in the summer. This county will have a 2-year study with about 50 miles worked on in the first year, and another 100 miles in the second year of data development. We are finalizing the scope of work, and have scheduled a call to resolve outstanding items of concern.
- Teller County BLE/Phase 2: Contractor is reviewing comments from the Discovery review. Hydrology is going through an internal QA/QC, and the Contractor is starting the hydraulic analysis. Around 20 miles of study were scoped throughout the County.

Yampa/White – Rio Blanco, Routt, and Moffat Counties have ongoing studies:

- Upper Yampa River hydrology: The updated hydrology has been approved. Meetings have been held with the communities, and we are waiting on community signatures for the Conditional Letter of Map Revision (CLOMR) submittal to FEMA.
- Upper White Watershed/Rio Blanco County Additional Studies: The appeal period for the preliminary products started October 29, 2020 and ends in late January. No appeals have been received to date.

San Miguel/Dolores/Animas/San Juan – La Plata, Montezuma, Archuleta, and San Juan Counties, along with the Southern Ute Tribe, have ongoing studies:

- Animas Watershed Phases 2-3: Preliminary DFIRM products will be issued January 18, 2021. Consultant Consultation Coordination Officer (CCO) meetings are anticipated in early March. We had a call in early December with FEMA, representatives for the Southern Ute Tribe (SUIT), and our Contractor to further discuss the potential of the SUIT participation in the National Flood Insurance Program (NFIP). FEMA will provide additional information to support presentation to the Tribal Council on joining the NFIP. It was decided that Flood Risk information will be shown on SUIT property in the Preliminary DFIRM, but may be removed in the future if SUIT does not join the NFIP.
 - Southwest Colorado (Montezuma, Dolores, San Juan, La Plata, Archuleta, Hinsdale, and Mineral Counties) BLE: Contractor is moving forward with hydrology and hydraulics for BLE-level Zone A draft floodplains. The last portion of topographic data was provided the end of December, and has been sent to the Contractor for processing.
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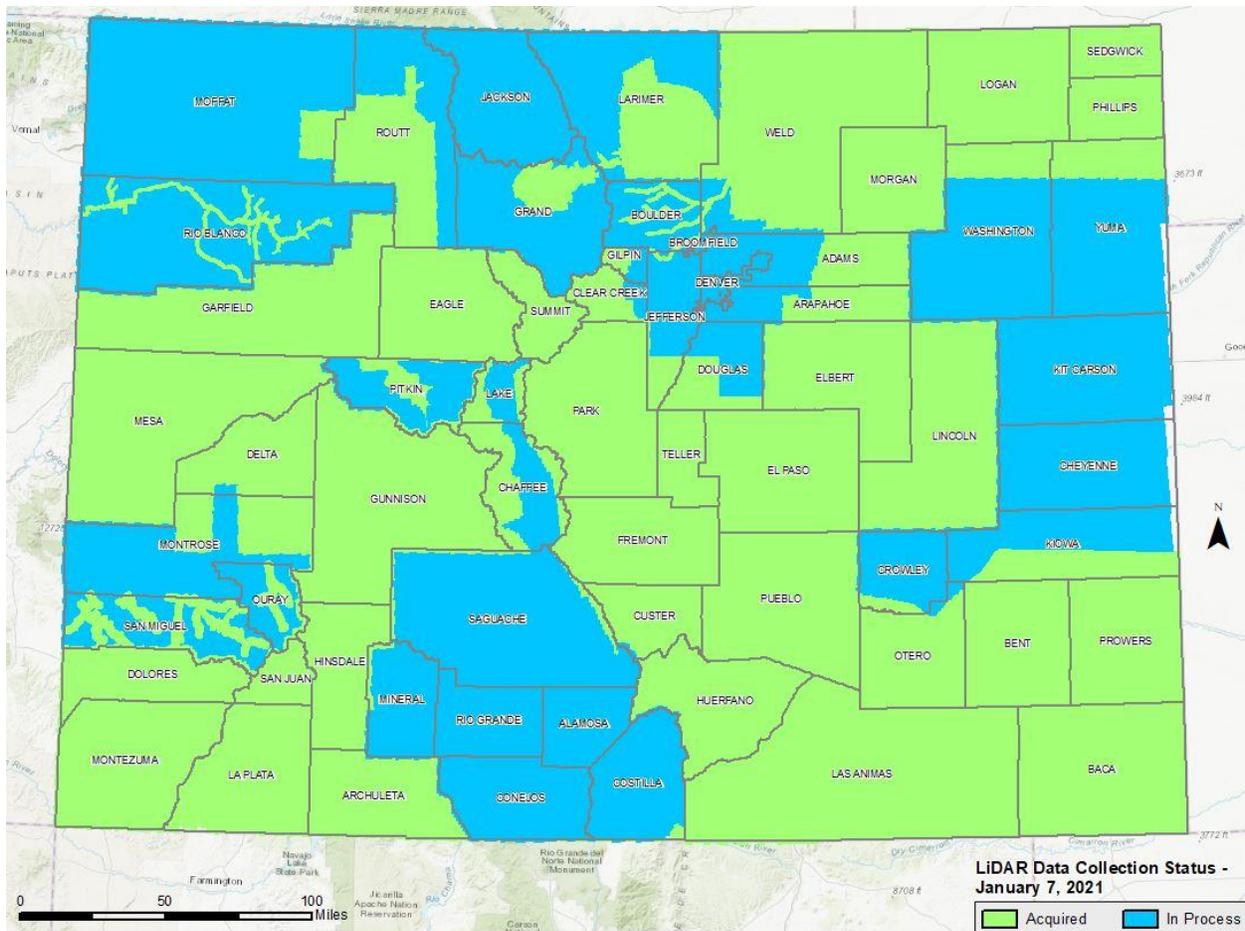
Multi-Watershed Risk Map Projects:

- CHAMP 3 Phase 2 (also see: Arkansas projects, and the Rio Grande River hydrology work for related information): Bent and Otero Counties addressed under the Arkansas Basin projects. Costilla County DFIRM submittal approved by FEMA. Ouray County model was updated to a HEC-RAS 2D format, and we received approval from FEMA Region 8 to use the presented flow regime, since the model is complex. Hydraulics were approved also in early January 2021. San Miguel County hydraulics also approved, and the flood risk review meeting is taking place 1/13/2021 with a new contractor (as the project is switching over).
- CHAMP 3 Phase 3: Moffat County hydrology has been approved by FEMA. Lincoln County H&H and draft floodplain mapping presented to the communities in a recent Flood Risk Review meeting, and will be submitted to FEMA for approval soon. Phillips County floodplain mapping task will be submitted for official FEMA review early 2021. Mineral County will have updated

hydraulics (1D and 2D) through the Town of Creede. Levee certification is currently being handled including a LOMR. Saguache County hydraulics were updated due to a diversion structure near Town of Crestone, and task will be finalized/completed once approved by FEMA in early 2021.

- LiDAR acquisition: CWCB received \$3.4 million in a FEMA FY16 grant and \$2.2 million in FY18 for LiDAR acquisition in Colorado for future floodplain mapping and hazard assessment projects.
 - o The 2016 grant money was used to leverage an additional \$1 million from the USGS to supplement a late spring 2018 LiDAR acquisition in Eastern Colorado. This data has been collected and final deliverables are now available by request on the Colorado Hazard Mapping website (www.coloradohazardmapping.com). The FY18 grant funded LiDAR in northeastern and southeastern corners of Colorado. Other LiDAR collection tasks that were recently completed included a project for Montrose, Gunnison, Lake, and Chaffee Counties. Finally, the Southwest CO data collection, led by the USGS, is in as a final data product and also available for sharing and redistribution (contact the CWCB Flood Mapping Program for more details). The rest of the state is currently being acquired and going through final QA-QC through 2021, including DRCOG project (for the Denver Metro Area data collection).
 - o DRCOG area LiDAR going through QA-QC. Some prelim data available already but finalized products will be ready mid-2021.
 - o Rest of Colorado funded for LiDAR data (including Northwest CO, San Luis Valley/San Miguel/Pitkin County area, and Eastern CO plains). More information to come soon.
 - o Preliminary Digital Elevation Models (DEMs) were provided by the USGS for post fire recovery and mitigation efforts in the East Troublesome fire area (Grand County). Final products still not available.

Below is a map of the most recent status for LiDAR data acquired in Colorado:



(Terri Fead and Marta Blanco Castano)

COLORADO WATERSHED RESTORATION PROGRAM UPDATE

The Colorado Watershed Restoration Program (CWRP) is designed to provide planning and project implementation funding for watershed and stream restoration and protection efforts. The program supports stakeholder driven collaboratives committed to restoring and protecting the ecological processes that connect land and water. The CWRP guidance document and application was approved by the Board in September of 2008. The Board approved revisions to the program in May 2012 and July 2015. The latest revision added Stream Management Plans (SMP) as a specific grant type. Other grant types include Watershed/Stream Restoration, Flood Mitigation, and Monitoring grants.

Since 2008, the program has funded 141 projects with over \$13 million. This does not include applications chosen or recommended for funding in 2021. Every CWCB dollar contributed to the program has leveraged \$4.00 from other local, state, and federal sources. The CWRP guidance has served as a template for several other grant programs. This includes the 2014 Special Release of the CWCB Colorado Watershed Restoration Program (\$1,925,000), the CWCB Senate Bill 14-179 River

Restoration Program (\$2,500,000), the Department of Local Affairs Community Development Block Grant – Disaster Recovery, Watershed Resilience Program (\$25,000,000), and the NRCS – CWCB Emergency Watershed Protection Program (>\$60,000,000).

On January 13, 2021 CWCB staff met to discuss the 23 applications submitted for review in November 2020. Seven staff members, including one person from Colorado Parks and Wildlife, scored each application. Applications requesting less than \$100,000 are approved for funding by the CWCB Deputy Director. Funding recommendations for applications over \$100,000 are included on the Board’s January meeting consent agenda. There are 13 applications requesting less than \$100,000 and 10 applications requesting more than or equal to \$100,000. The funding approvals for the 13 applications are listed in the table below. Ten applications were approved for full funding, one application was approved for partial funding, and two applications were not approved for funding.

(Chris Sturm)

**Stream Restoration/Flood
Mitigation Plans and Projects +
Monitoring Grants**

Applicant	Basin	Project	Funding Request	CWCB Funding Awarded
River Science	ARK	Van Norman Research Lab Phase 1: Impacts of Passive Restoration	\$99,900	\$99,900
Southern Plains Land Trust	ARK	Prairie Stream Restoration in the Lower Arkansas River Basin	\$27,200	\$27,200
Glenwood Springs	CO	Three Mile Creek Confluence Restoration Project	\$85,000	\$85,000
Colorado Open Lands	SP	Process-based restoration to improve watershed health, resilience, habitat, and recreation in the South Platte Headwaters	\$80,350	\$80,350
Estes Valley Watershed Coalition	SP	Fish Creek at Cheley Camp Restoration Project	\$30,000	\$30,000
City of Lone Tree and Mile High Flood District	SP	Preserving Stream Networks Through Land Planning	\$90,000	\$0
Big Thompson Watershed Coalition	SP	From Agrarian to Ephemeral (Wetland), Community-based Restoration at Prairie Ridge Natural Area	\$99,525	\$28,500
Colorado Watershed Assembly	STATE	Fluvial Hazard Zone Training and Education	\$30,000	\$30,000
Twin Buttes Metropolitan District # 2	SW	Lightner Creek Fisheries Enhancement	\$10,616	\$0
RiverEdge West	Yampa/ White	White River Partnership Initial Implementation Phase	\$69,191	\$69,191
			\$621,782	\$450,141

Stream Management Plans				
Applicant	Basin	Project	Funding Request	CWCB Funding Awarded
Mountain Studies Institute	SW	San Juan Basin Integrated Water Management Plan, Phase III	\$49,225	\$49,225
Upper Arkansas Watershed Partnership (UAWP), Upper Arkansas Conservation District (UACD, Fiscal Agent)	ARK	Upper Arkansas Watershed Resiliency Plan – Phase 1: Stakeholder Engagement, Needs Assessment, and Riparian/Floodplain Condition	\$99,000	\$99,000
West Denver Trout Unlimited	SP	Clear Creek Integrated Water Management Plan Phase 1	\$22,000	\$22,000
Total			\$170,225	\$170,225
Total CWRP Request and Match			\$792,007	\$620,366

~INSTREAM FLOW ATTACHMENTS~

- 01 Instream Flow and Natural Lake Level Program Summary of Resolved Opposition Cases
- 02 Stream and Lake Protection Section De Minimis Cases

~LOAN PROGRAM ATTACHMENTS~

- 01 Water Project Loan Program Interest Rates
- 02 Prequalified Project List and Loan Prospect Summary
- 03 Design and Construction Status Report
- 04 Loan Repayment Delinquency Report
- 05 Construction Fund, Special Funds and Severance Tax Funds Non-Reimbursable Investments Status Report Fiscal Year 2018-2019

**January 25-26, 2021 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.

Staff has resolved issues of potential injury in the following water court cases. Staff had (A) filed Statements of Opposition in the several cases listed below; and (B) obtained an agreement via a Letter-in-Lieu of filing a Statement of Opposition in two other cases, as listed below.

A. Statements of Opposition

(1) Case No. 18CW3090 (Water Division 1) - Application of City of Westminster

The Board ratified this Statement of Opposition at its September 2018 meeting. Applicant requested a change of water rights. 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. A 10-day trial is set for March 11, 2022. The case remains open before the water court judge.

The CWCB holds many instream flow water rights in Water Division 1 that could have been injured by this application. In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- Any post-decree contracted use "which is intended to replace depletions that occur within or upstream of a stream reach for which the Colorado Water Conservation Board ("CWCB") holds a decreed instream flow water right by means other than Westminster's existing decreed exchanges shall be implemented so as not to deprive any CWCB instream flow water rights of water to which those rights are entitled to by priority. In addition, unless otherwise publicly noticed, such third party shall provide written notice to the CWCB of its right to use the Subject Water Rights as part of its: 1) application for a substitute water supply plan; 2) application for a plan for augmentation; or 3) procedure for adding an augmentation source to a decreed plan for augmentation, whether or not the decreed plan requires such notice."

(2) Case No. 18CW3195 (Water Division 1) - Application of The City of Brighton

The Board ratified this Statement of Opposition at its March 2019 meeting. Applicant requested a change of water rights, appropriative rights of exchange and conditional appropriation of return flows. Staff, in cooperation with the Attorney General's Office,

has negotiated a settlement to ensure that the CWCB’s many instream flow water rights will not be injured. A 7-day trial is set for July 12, 2021. The case remains open before the water court judge.

The CWCB holds many instream flow water rights in Water Division 1 that could have been injured by this application. In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- “Extraterritorial Use. The uses of Brighton’s Water Rights changed herein, for use in extraterritorial areas, shall be limited to the following situations: (a) the contractual obligation exists at the time of this Decree; or (b) the contractual obligation is met by use of a metered water tap supplied by Brighton; or (c) the contractual obligation is of limited duration; or (d) the contractual obligation is pursuant to a water trade agreement whereby Brighton is obligated to deliver water to a party in return for deliveries by said party to Brighton of a similar amount of water from alternate sources.”
- “Brighton’s Water Rights delivered under a lease or trade agreement to a party for use in an extra territorial area may not be reused by Brighton. If the use of Brighton’s Water Rights in an extra territorial area include reuse and successive use, such use must be authorized pursuant to the terms and conditions of a decree or Substitute Water Supply Plan approved by the State Engineer pursuant to C.R.S. §37-92-308.”

(3) Case No. 18CW3077 (Water Division 2) - Application of Colorado Division of Parks and Wildlife

The Board ratified this Statement of Opposition at its March 2019 meeting. Applicant sought conditional and absolute groundwater rights, water storage rights, appropriative rights of exchange, and approval of a plan for augmentation. 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. A 5-day trial is set for April 29, 2022. The case remains open before the water court judge.

The CWCB holds instream flow water rights, including the following, in Water Division 2 in the Upper Arkansas watershed that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
95CW0233	Fourmile Creek	confl Oil Creek	confl Hay Creek	1.5 (9/15 - 3/14) 3.5 (3/15 - 9/14)	11/06/1995
00CW0101-106	Fourmile Creek	confl Barnard Creek	confl Wilson Creek	3.5-9.5 (dates vary)	01/26/2000

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

- “As of June 1, 1980, CPW’s uses associated with the Mueller SP Ponds, specifically: commercial, livestock watering, aesthetic, recreational, wildlife, piscatorial and fire protection, respectively, including the absolute one-refill rights for such uses of the Mueller SP Ponds decreed herein, were being made pursuant to appropriation or practices in existence at the time of the CWCB’s appropriation of its instream flow rights on Fourmile Creek in Case Nos. 95CW233, 00CW101, 00CW102, 00CW103, 00CW104, 00CW105, and 00CW106 (collectively, the “ISF Water Rights”). The CWCB’s ISF Water Rights are therefore subject to these in-pond uses pursuant to section 37-92-102(3)(b), C.R.S. However, the CWCB’s ISF Water Rights are not subject to any fill or refill of the Mueller SP Ponds in the same year or subsequent year(s) following releases for augmentation purposes, or any filling by exchange through any ISF Water Rights. The CWCB’s ISF Water Rights subordinated to CPW’s diversion discussed herein pursuant to section 37-92-102(3)(b), C.R.S., shall not result in general subordination of the CWCB’s ISF Water Rights to any other water rights junior to such ISF Water Rights.”
- “Due to septic returns accruing to Fourmile Creek upstream of the confluence with Hay Creek, a net accretion to this reach of Fourmile Creek will result and no replacements will be owed to the CWCB’s instream flow right decreed in Case No. 95CW233 regardless of a call. With respect to the CWCB’s downstream instream flow rights on Fourmile Creek decreed in Case Nos. 00CW101, 00CW102, 00CW103, 00CW104, 00CW105, and 00CW106 (collectively, the “Downstream ISF Water Rights”), Mueller SP Wells’ pumping depletions will be replaced when a Downstream ISF Water Right(s) is being administered. The upstream replacement sources of the Mueller SP Ponds and/or Mt. Pisgah Reservoir will be needed to replace to the Downstream ISF Water Rights when the Downstream ISF Water Rights are being administered. Therefore, CPW shall maintain at least 1 AF (or the rough equivalent of one year of required well depletions) in the Mueller SP Ponds and/or Mt. Pisgah Reservoir as a source to be used in the instance of a call for the Downstream ISF Water Rights. This condition will be maintained regardless of any new augmentation sources that may be added to the augmentation plan in the future.”

(4) Case No. 19CW0008 (Water Division 4) - Application of GW46 Irrevocable Trust (fka Rose Anne Guire and Jimmy R Guire II)

The Board ratified this Motion to Intervene and Statement of Opposition at its July 2019 meeting. Applicant requested a 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. No trial has been set. The case remains open before the water court referee.

The CWCB holds instream flow water rights, including the following, in Water Division 4 in the San Miguel watershed that could have been injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
11CW0129	San Miguel River	confl Calamity Draw	confl Dolores River	325 (4/15 - 6/14) 170 (6/15 - 7/31) 115 (8/1 - 8/31)	01/25/2011

				80 (9/1 - 2/29) 115 (3/1 - 4/14)	
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In addition to standard terms regarding measuring devices, accounting and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- Upon two amended applications, applicant dropped its claim to a change of water right, and instead is appropriating two new water rights, one for storage and one for direct flow. Therefore no additional terms and conditions were necessary to protect the instream flow water right.

(5) Case No. 19CW3070 (Water Division 5) - Application of Neal Shear and Jacqueline Shear

The Board ratified this Statement of Opposition at its September 2019 meeting. Applicants sought a storage water right, appropriative right of exchange, change of water right and plan for augmentation. 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 Court entered a Decree on December 20, 2020 in this case.

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

Appropriated ISF Water Rights

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
W-2656(1975)	Hunter Creek	confl No Name Creek	confl Roaring Fork River	14 (1/1 - 12/31)	02/26/1975
79CW0190*	Hunter Creek	confl No Name Creek	confl Roaring Fork River	16 (1/1 - 12/31)	01/31/1979
W-2948(1976)	Roaring Fork River	confl Difficult Creek	confl Maroon Creek	32 (1/1 - 12/31)	01/14/1976
85CW0646	Roaring Fork River	confl Maroon Creek	confl Fryingpan River	30 (10/1 - 3/31) 55 (4/1 - 9/30)	11/08/1985
85CW0639	Roaring Fork River	confl Fryingpan River	confl Crystal River	75 (10/1 - 3/31) 145 (4/1 - 9/30)	11/08/1985
W-2938(1976)	Woody Creek	headwaters	confl Roaring Fork River	6 (1/1 - 12/31)	01/14/1976

* Increased appropriated ISF water rights are additive to the previously appropriated ISF in the same reach.

Acquired Water Rights for ISF Use

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
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80CW0018^	Hunter Creek	Several Ditches	Conf Roaring Fork River or historic return flow points	0.005-15.3 (Dates Vary)	1884-1957
10CW0184^	Roaring Fork River	confl Maroon Creek	confl Owl Creek	3.54 (5/1 - 10/31)	06/30/1904
10CW0184^	Roaring Fork River	confl Owl Creek	confl Fryingpan River	0.15-0.89 (Dates Vary)	06/30/1904

^Donated/Acquired Water Right.

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 shall bypass via low-level outlet on Shear Pond or via pumping from Shear Pond, all precipitation and runoff collected in the Shear Pond when such collection is out of priority. The Shear Pond also includes a recycling and recirculation system, where water stored in the pond flows into a vault located adjacent to the pond and is pumped upgradient approximately 30 feet where it is then recirculated back to the pond.”
- “At any time the Shear Appropriative Exchange is out-of-priority due to a valid and administered call within the exchange reach, including a call from an instream flow water right, the plan for augmentation for replacement of historical return flows from Applicants’ changed Red Mountain Ditch Priority No. 205 water right described in the Third Claim below utilizing water supplies from the BWCD allotment contract is no longer operational and historical non-irrigation season return flow obligations from the change of use described in this Decree will be met by releasing a sufficient amount of net stream depletion (“NSD”) credits stored in the Shear Pond pursuant to the change of water rights decreed herein to the unnamed tributary on Applicants’ property that flows into Woody Creek.”

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. 18CW0046 (Water Division 4) - Application of Wild Cooperative, LLC (formerly Larry R. Jensen)

During the October 2018 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB’s instream flow water rights decreed in Case No. 06CW0228 on Smith Fork. This case was resolved with CWCB by a letter agreement,

dated November 30, 2020, 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 agreed to not oppose a Motion to Intervene by CWCB if such terms and conditions are not included.

- “Diversions of the Subject Right shall be limited to the amount of water legally and physically available at the originally decreed Young Ditch point of diversion and combined diversions at the original point of diversion and the three new alternate points of diversion (“APODs”) shall not the originally decreed rate of exceed 0.15 cfs.”
- “During times in which the CWCB's instream flow water right on the Smith Fork of the Gunnison River, decreed in Case No. 06CW228, is unmet and being administered in the reach of stream between the Young Ditch original point of diversion and the APOD, then diversions of the Subject Right at the Barnard Ditch headgate APOD shall be curtailed. At such times, diversions at the other APODs may continue.”

(2) Case No. 20CW3066 (Water Division 4) - Application of William Scott Matzelle and Gretchen Matzelle

During the September 2020 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB’s instream flow water rights decreed in Case Nos. 10CW0180, 14CW3097, 80CW0092 on the Slate River, and Case Nos. 83CW0228 and 83CW0230 on the East River. This case was resolved with CWCB by a letter agreement, dated November 30, 2020, 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 agreed to not oppose a Motion to Intervene by CWCB if such terms and conditions are not included.

- “The anticipated annual pattern of the total depletions due to irrigation and household use at full buildout is shown in the following table. The months of July through October are highlighted as these are the months when a call is likely, and augmentation of depletions must be provided. The depletions during this four-month period total 0.62 acre-feet; this is the anticipated maximum augmentation demand. Pond evaporation will reduce the amount of water available in the pond to replace these depletions but the pond is adequately sized to replace depletions during the likely call period. To ensure the required amount of water is available for the likely call period, Applicant shall ensure the pond is full on July 1st of each year.”

**Director's Report Attachment - January 25-26, 2021 CWCB Meeting
Stream and Lake Protection Section De Minimis Cases**

The following table summarizes applications that have the potential to injure the Board's instream flow water rights, but the impact is considered de minimis. In these cases, the cumulative impact to the Board's right is less than 1%. Pursuant to ISF Rule 8(e) (the de minimis rule), staff has not filed a Statement of Opposition in these cases and has provided the required notification to the Division Engineers and applicants.

Applicant Case No.	Water Division	Applicant	Stream/ CWCB Case No.	ISF Flow Amount (cfs/date)	Individual Injury (%)	Cumulative Injury (%)	Count
20CW3164	1	Juniper Mountain House, LLC	Beaver Brook 87CW272A	1.5 (4/16 - 7/31) 1 (8/1 - 4/15)	0.01520 0.02280	0.06950 0.08800	2



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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

Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Kirk Russell, P.E., Finance Section Chief

Board Meeting: January 25-26, 2021 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:

- 1.15% - Agricultural
- 1.60% - Low-income Municipal
- 1.80% - Middle-income Municipal
- 2.05% - High-income Municipal
- 6.00% - Commercial
- 2.00% - Hydroelectric

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

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





COLORADO
Colorado Water Conservation Board
Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203
P (303) 866-3441
F (303) 866-4474

Jared Polis, Governor
Dan Gibbs, DNR Executive Director
Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: January 25-26, 2021 Board Meeting

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

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

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



Prequalified Project List

BORROWER	PROJECT NAME	APPLICATION DATE	BASIN	PROJECT DESCRIPTION	PROJECT COST/LOAN AMOUNT
Previously Approved Applications					
<i>No prequalified projects at this time</i>					
Total					\$ -



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
Roxborough Water & Sanitation District	Reservoir Rehabilitation	TBD
Shawnee Water Consumers Association	Reservoir Rehabilitation	\$200,000
Boulder and White Rock Ditch & Res. Co.	Reservoir Dredging	TBD
Western Mutual Ditch Company	Reservoir Dredging	TBD
Bergen Ditch and Reservoir Company (*)	Reservoir Rehabilitation	TBD
Louviers Water and Sanitation District	Regional Connection	TBD
City of Fort Collins	Irrigation Ditch Piping	\$20,000,000
City of Fort Collins	Halligan Reservoir Enlargement	\$120,000,000
Northern Colorado WCD	Windy Gap Firming (increase)	\$40,000,000
Cherry Creek Water Project Authority	Walker Pit	\$14,500,000
City of Loveland	Reservoir Enlargement	TBD
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
Dave Miller Mutual Ditch Company	Ditch Piping Project	\$150,000
Standley Lake Operating Committee	Reservoir Expansion	TBD
Switzerland Park HOA	Reservoir Rehabilitation	\$300,000
Danna Ortiz	Knouth Reservoir Rehabilitation	\$3,000,000
North Sterling Irrigation District	Prewitt Reservoir Rehabilitation	\$1,500,000
North Sterling Irrigation District	Diversion Structure Rehabilitation	\$3,500,000
Tunnel Water Company (†)	Tunnel Rehabilitation	\$2,000,000
Tunnel Water Company	Ditch Improvements (WIL)	\$500,000
Subtotal		\$2,776,550,000



BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
Arkansas		
Oxford Ditch	Siphon Repair	\$1,800,000
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
Empire Lodge HOA	Water Rights Purchase	\$700,000
Lower Arkansas WCD	New Storage Account	TBD
Donala Water and Sanitation District	Ditch Construction	TBD
City of Colorado Springs	Irrigation System Improvements	\$3,500,000
Town of Victor (*)	Reservoir Rehabilitation	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
Subtotal		\$19,500,000
San Miguel/Juan		
Town of Bayfield	Ditch Piping Project	\$500,000
Redmesa Reservoir and Ditch Co. (*)	Redmesa Reservoir Enlargement	\$8,500,000
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
Ratliff and Root Ditch Company (‡)	Ditch Piping Project	\$1,000,000
Subtotal		\$20,000,000
Colorado		
Town of Breckenridge (*, ‡)	Goose Pasture Tarn Dam	\$10,000,000
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
Horse Pasture HOA	Ditch Piping Project	\$100,000
Orchard Mesa Irrigation District	Hydropower Plant	\$1,500,000
Grand Valley Water Users Association	Hydropower Plant	\$1,500,000
Perry Ranch	Taponas Project Phase 1	\$75,000
Gunther Covers	Christenson Dam	TBD
Subtotal		\$13,775,000



BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
Gunnison		
Gunnison County Electric	Taylor Park Hydro	\$1,000,000
Duke Ditch Company	Ditch Piping Project	\$400,000
Bostwick Park Water Conservancy District	Dam Construction	TBD
Kendall Reservoir Company	Reservoir Rehabilitation	\$140,000
Orchard City Irrigation District (‡)	Fruit Growers Reservoir Rehab	\$560,000
Subtotal		\$2,100,000
North Platte		
Colorado Parks and Wildlife (*)	North Michigan Creek Reservoir	\$6,000,000
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
Trinchera Water Conservancy District	Water Rights Purchase or Lease	\$2,000,000
Town of Center	Water Meter Project	\$200,000
San Luis Valley WCD (†)	Shaw Reservoir Purchase	TBD
Colorado Parks and Wildlife	Alberta Park Dam Rehabilitation	\$4,000,000
Subtotal		\$22,200,000
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
Subtotal		\$105,600,000





COLORADO

Colorado Water Conservation Board

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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

Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, Director

To: Colorado Water Conservation Board Members

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

Board Meeting: January 25-26, 2021 Board Meeting

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

The CWCB Loan Program has Substantially Completed (20) projects in Calendar Year 2020 as shown in Table 1. There are currently (45) projects authorized to receive loan funding totaling \$393 million. There are (34) projects currently under contract and in the Design/Construction phase totaling \$190 million. The attached spreadsheet summarizes the status of all loan projects. A detailed description about each project is provided under Water Project Loan Program on the CWCB website cwcw.colorado.gov

TABLE 1

	Borrower	Project	County	Loan Amount	Complete
1	Fort Lyon Canal Company	Adobe Creek Dam Rehab	Bent	\$8,053,081	2/1/2020 (a)
2	Walsenburg, City of	City Lake Dam Rehab & Enlargement	Huerfano	\$6,889,210	2/1/2020 (b)
3	Tunnel Water Company	Laramie-Poudre Tunnel Rehab	Larimer	\$1,654,041	2/1/2020
4	Roxborough Water & Sanitation District	Ravenna Development Interconnect	Douglas	\$1,464,050	2/1/2020
5	Big Elk Meadows Association	Emergency Raw Water Storage	Boulder/Larimer	\$1,729,427	2/1/2020 (c)
6	Bessemer Irrigation Ditch Co	Landslide Stabilization & Lining	Pueblo	\$903,602	4/1/2020
7	Dominion Water & Sanitation	Chatfield Reallocation Purchase	Douglas	\$4,191,989	4/1/2020 (d)
8	Consolidated Ditch & Headgate	Diversion & Headgate Project	Rio Grande	\$756,129	4/1/2020
9	Republican River WCD	Surface Water Rights Purchase	Yuma	\$5,570,150	5/1/2020
10	Arabian Acres	Automatic Meter Implementation	Teller	\$214,459	5/1/2020
11	San Luis Valley Canal Company	Canal Headgate Construction	Rio Grande	\$198,428	6/1/2020
12	Church Ditch Water Authority	Ditch Systems Improvements	Jefferson	\$2,236,657	6/1/2020
13	Lower Arkansas Water Management Association	West Farm Gravel Pit Storage Purchase	Prowers	\$3,556,598	7/1/2020 (e)
14	Firestone, Town of	Storage Development & Water Rights Purchase	Weld	\$5,964,859	7/1/2020 (f)
15	CCWCD, Well Augmentation Subdistrict	Shores Lake Pond C Infrastructure Improvement	Weld	\$2,367,440	8/1/2020 (g)
16	Centennial Irrigating Ditch Co	Centennial Diversion Replacement	Rio Grande	229,060	8/1/2020
17	Missouri Heights Mountain Meadow Irrigation Company	Ditch Piping Phase B	Garfield	\$178,971	8/1/2020
18	Orchard Ranch Ditch Company	Orchard Ranch Ditch Pipe Project	Delta	\$136,677	9/1/2020
19	Schneider Ditch Company	Diversion Structure Replacement	Logan	\$1,161,902	10/1/2020
20	Den SE WSD dba Pinery W&WD	WISE Project DIA Connection	Douglas/Arapahoe	\$280,235	11/1/20
			Total	\$47,736,966	

Calendar Year - 2020 has added and preserved 90,226 acre-feet of reservoir storage; (a) 81,692; (b) 651; (c) 108; (d) 500; (e) 1,683; (f) 1,092; (g) 4,500



Outlet Tower and Gates



Construction of Mud Mat and Outlet Terminal Structure



Project Description

Adobe Creek Reservoir (also known as Blue Lake) is owned by the Fort Lyon Canal Company (Company). The original dam was a 32-foot-high, high hazard dam that impounds approximately 77,400 acre-feet of active storage and 4,292 acre feet of dead storage. The Adobe Creek Reservoir water is used to irrigate approximately 93,000 acres of land in Bent, Otero, and Prowers County. The new dam height is 32.3 feet and has a crest length of 7,375 feet.

A storage restriction was issued by the Dam Safety Branch of the Office of the State Engineer on May 5, 2017 due to adverse seepage conditions and outlet deficiencies in the dam's foundation and deteriorated conditions in the 112-year-old, vitrified clay outlet works. Through this loan, the Company constructed new outlet works and seepage control systems in Adobe Creek Dam to regain the approximately 32,560 acre-feet of storage that was lost due to the storage restriction.

Construction was complete in 2019 with temporary storage approval in June 2019 and a Final Acceptance of Construction by Colorado Dam Safety in November 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> Fort Lyon Canal Company	<i>County:</i> Bent	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Dam Rehabilitation		<i>Board Approval Date:</i> September 2017
<i>Terms of Loan:</i> 1.50% for 40 years	<i>(Original)</i> \$8,181,000	<i>(Final)</i> \$8,053,081.83
<i>Terms of WSRF Grant:</i> <i>(Original)</i> \$1,100,000 <i>(Final)</i> \$1,071,714.28		
<i>Design Engineer:</i> W.W.Wheeler and Associates, Inc.		
<i>Contractor:</i> Moltz Construction, Inc.		



Outlet Works Construction



Outlet Valve Tower



Auxiliary Spillway



Upstream Slope of Dam

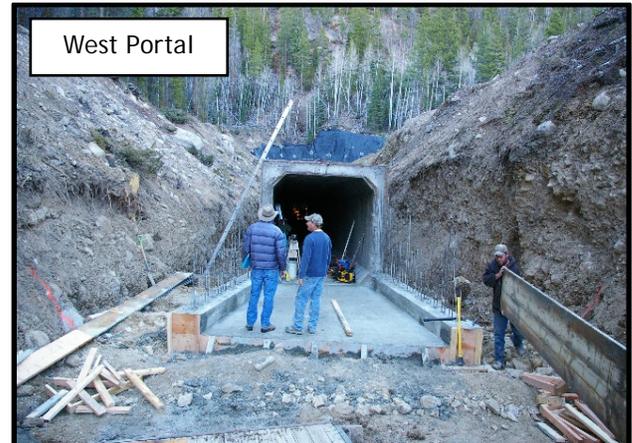
Photos show construction and completion of Walsenburg's City Lake Dam Project.

Project Description

The City of Walsenburg's City Lake dam and reservoir provides the primary water supply and storage for the City's water treatment plant located downstream of the dam. Its average annual water delivery is 730 acre-feet. The original dam was subject to a State Engineer's Office (SEO) safety compliance plan since September of 2014, and a formal storage restriction since April 2017 as a result of dam safety deficiencies including seepage, stability, and spillway capacity. The Colorado Dam Safety imposed a 1-foot storage restriction on April 1, 2017, a 2-foot storage restriction on November 15, 2017, and a 3-foot storage restriction on May 1, 2019. The City needed the full storage capacity of City Lake to adequately supply their water treatment plant and to ensure future water supplies.

Elements of the Project included dam embankment reconstruction, new outlet works, new spillway construction, riprap channel lining, and a temporary bypass conduit to route water to the water treatment plant. The Project increased storage by 120 acre-feet by raising the dam embankment three feet. Construction rehabilitation and enlargement was completed in 2019.

P R O J E C T D A T A		
Sponsor: City of Walsenburg	County: Huerfano	Water Source: Cucharas River
Type of Project: Reservoir Rehabilitation		Board Approval Date: July 2017
Terms of Loan: 2.0% for 30 years	(Original) \$6,889,210	(Final) \$6,889,210
Terms of Grant: (Original) \$804,000		(Final) \$804,000
Design Engineer: RJH Consultants, Inc.		
Contractor: Kirkland Construction		



Photos show West Portal and East Portal rehabilitation of the Laramie-Poudre Tunnel Project.

Project Description

The Tunnel Water Company operates the Laramie-Poudre Tunnel for the benefit of its two shareholders: Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). The tunnel diverts from the Laramie River, about 60 miles west of Fort Collins, and delivers water through a 2.15-mile tunnel to the Poudre River. WSSC delivers irrigation water to its shareholders, primarily for agricultural irrigation on approximately 40,000 acres lying below the Larimer County Canal. WRCC delivers water to its municipal shareholders via the Soldier Canyon and Bellvue Water Treatment Plants.

The Company purchased the Laramie Poudre Tunnel and its adjoining Laramie River System in 1938. The west portal (inlet) has deteriorated since its original construction in 1910. The interior timber cribbing and concrete lining were at or near the end of their useful service lives and the slope steepness at the portals made it difficult for maintenance access. The east portal's (outlet) concrete energy attenuation structure was resurfaced many times before and was heavily spalled, near failure. The west portal construction rehabilitation was completed in 2016. Construction rehabilitation on the east portal was completed in 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> The Tunnel Water Company	<i>County:</i> Larimer	<i>Water Source:</i> Laramie River/Cache La Poudre River
<i>Type of Project:</i> Water Supply and Storage		<i>Board Approval Date:</i> September 2015
<i>Terms of Loan:</i> 2.55% for 30 years (Original) \$1,717,000 (Final) \$1,654,041.46		
<i>Design Engineer:</i> Golder Associates, Inc.		
<i>Contractor:</i> Rock Solid Solutions and Connell Resources, Inc.		



COLORADO

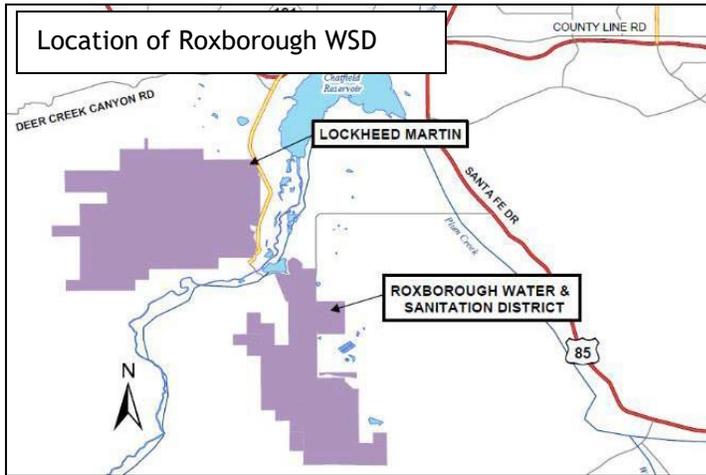
Colorado Water Conservation Board

Department of Natural Resources

Ravenna Development Interconnect

Roxborough Water and Sanitation District

Substantially Complete February 1, 2020



Project Description

The Roxborough Water and Sanitation District was established in 1971 and provides water and sewer service within its service area in northwest Douglas County. Ravenna sought inclusion into the District as a means to replace its non-renewable water supply—non-tributary groundwater wells—with a renewable supply. In the summer of 2017, the District installed a single emergency interconnect with Ravenna and has been the sole source of potable water since. The inclusion agreement required that in addition to the emergency interconnect, two additional interconnects between the District and Ravenna be construction in order to provide a permanent and reliable water supply to Ravenna. This project undertook the construction of those new interconnects. In addition to the new interconnects construction included new and relocated pressure reducing valves to keep pressures throughout the development as close to existing conditions as possible.

P R O J E C T D A T A		
Sponsor: Roxborough Water and Sanitation District	County: Douglas	Water Source: South Platte River
Type of Loan: Municipal Water Supply System New	Board Approval Date: July 2018	
Loan Terms: 3.15% for 30 years (Original) \$1,584,690		(Final) \$1,464,050.02
Design Engineer: TST Infrastructure, LLC		
Contractor: Redline Pipeline, LLC		



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

Emergency Raw Water Storage Repair

Big Elk Meadows Association

Substantially Complete February 1, 2020



Mirror Lake and Intake Structure



Willow Lake and Intake Structure



Rainbow Lake Reservoir

Project Description

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged. Measured rainfall in and around Big Elk Meadows exceeded the 1,000-year Average Recurrence Interval for rainfall. Flow along the West Fork reached historic levels and resulted in the destruction of all five dams; both flow monitoring stations; the community’s access road (CR-47); the majority of interior roads; and the water, power, and telephone services. The purpose of this project was to restore the community’s water supply by reconstructing five dams and two monitoring stations. During the next six years the community secured the funding and technical expertise to reconstruct the destroyed infrastructure. The lakes have been restored with new infrastructure and can now be utilized for community water purposes.

P R O J E C T D A T A		
<i>Sponsor:</i> Big Elk Meadows Association	<i>County:</i> Boulder/Larimer	<i>Water Source:</i> West Fork of the Little Thompson
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> January 2014
<i>Loan Terms:</i> 0.0% for 6 years, 2.75% for 27 years (Original) \$2,020,000 (Final) \$1,729,427.24		
<i>Design Engineer:</i> GEI Consultants, Inc.		
<i>Contractor:</i> Zak Dirt, Inc.		



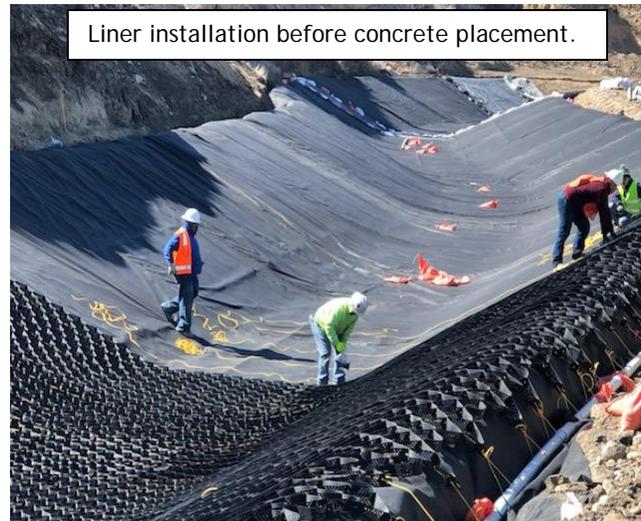
Landslide Stabilization



Landslide stabilization complete.



Lined ditch section complete.

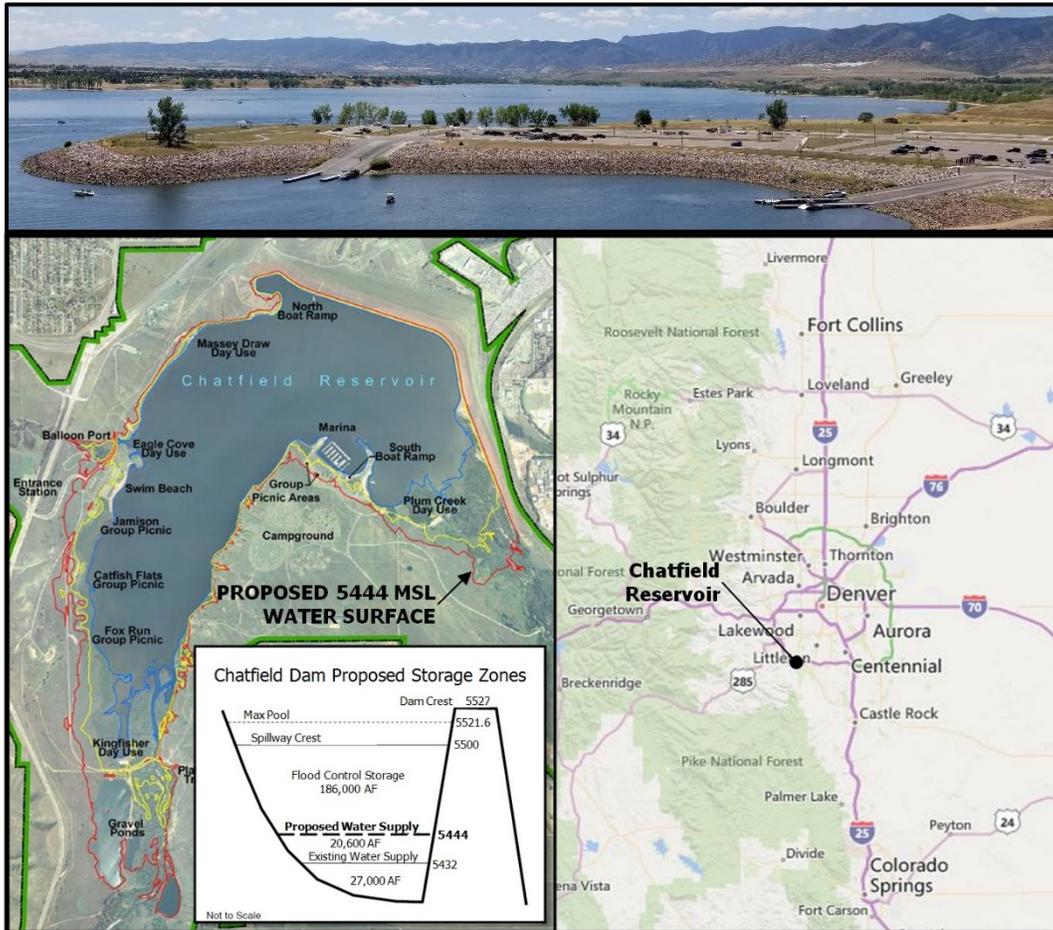


Liner installation before concrete placement.

Project Description

The Bessemer Ditch Company was incorporated in 1888 and construction of the ditch began in 1889. It serves nearly 20,000 irrigated acres in Pueblo County and provides water for municipal use. In the summer of 2017, land along limestone bluffs, approximately 2 miles east of Pueblo Dam, started sliding away from the Bessemer Ditch canal. The landslide area is approximately 200 feet wide. Stabilization and corrective work will occur in two stages; mechanical stabilization and ditch lining. Mechanical stabilization of the slide area will protect the canal and provide width for access and maintenance. The second stage of work includes synthetic liner installation, extending upstream and downstream from the slide area 1200 lineal feet to control canal seepage. Construction began in January 2018 and both construction stages were complete March 2019.

P R O J E C T D A T A		
<i>Sponsor:</i> Bessemer Irrigating Ditch Company	<i>County:</i> Pueblo	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Ditch Rehabilitation	<i>Board Approval Date:</i> January 2018	
<i>Terms of Loan:</i> 1.65% for 20 years (Original) \$909,000 (Final) \$903,602.24		
<i>Design Engineer:</i> Kidd Engineering and Construction Management Services, Inc.		
<i>Contractor:</i> Coggins and Sons, Inc. and K.R. Swerdfeger Construction, Inc.		



Project Description

The Dominion Water & Sanitation District is a wholesale water district participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. The Project will reallocate a total of 20,600AF of storage space from the flood control pool into a multipurpose pool. The District became a participant in the Project by purchasing 500AF of the reallocated storage and is proportionally responsible for all Reallocation Project cost.

The US Army Corps of Engineers issued the Project’s Record of Decision on May 29, 2014. The Selected Alternative recommended in the EIS provides 20,600 acre-feet of storage in the Chatfield Reservoir for M&I and agriculture water supplies, environmental restoration, and recreation and fishery habitat protection and enhancement. The District purchased shares owned by the CWCB at the current overall Reallocation Project cost estimate of \$8,300.97 per AF (\$171 million total). Use of storage is anticipated in the spring 2020.

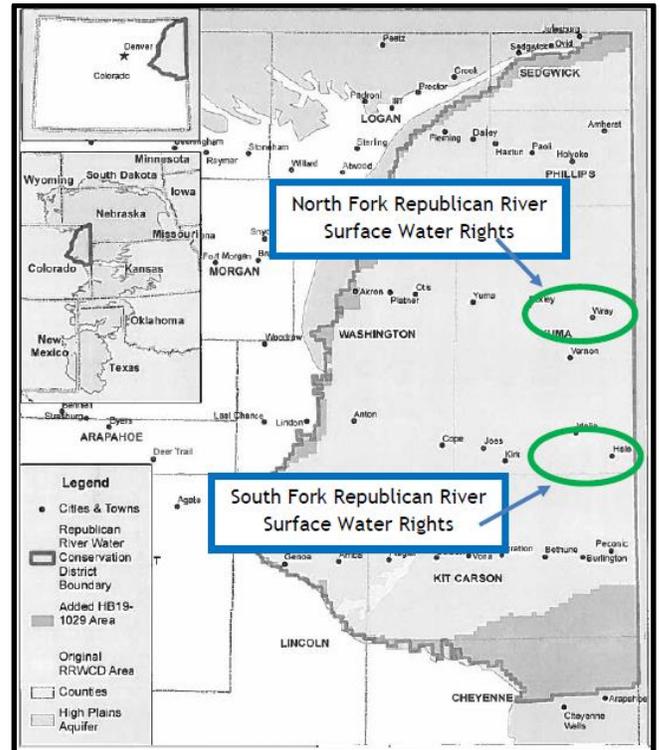
P R O J E C T D A T A		
<i>Sponsor:</i> Dominion Water & Sanitation District	<i>County:</i> Douglas	<i>Water Source:</i> South Platte River & Plum Creek
<i>Type of Loan:</i> Reservoir Storage		<i>Board Approval Date:</i> March 2019
<i>Loan Terms:</i> 3.30% for 30 years (Original) \$4,191,989.85 (Final) \$4,191,989.85		
<i>Design Engineer:</i> Various		
<i>Contractor:</i> Various		



Project Description

The Consolidated Ditch Implementation Project (The Project) was a diversion dam and headgate replacement project completed through a partnership with the Consolidated Ditch and Headgate Company and the Rio Grande Headwaters Restoration Project (RGHRP). The goal of the Project was to replace the aging and inefficient Consolidated Ditch and Pace Ditch diversion dam and headgates, while improving streambank stability and riparian condition throughout the project area. The Project included the construction of a new concrete diversion dam, concrete headgate, trash rack, sluice gate, and sluice channel for the Consolidated Ditch Company, as well as a new concrete headgate for the Pace Ditch, which shares the diversion point. In addition to replacing the infrastructure, the Project included the stabilization of 800 feet of streambank in the Project area. Throughout project implementation, the RGHRP gave tours, developed outreach materials, and provided updates to community groups as part of outreach and education. The RGHRP will continue to give tours and complete long-term monitoring to ensure that the project objectives stand the test of time. Benefits of the Project include improved diversion efficiency and reduced maintenance, enhanced water quality, improved riparian condition, increased capacity for sediment transport, improved aquatic and wildlife habitat, improved public safety and recreation opportunity, and increased public involvement in water improvement activities.

P R O J E C T D A T A		
<i>Sponsor:</i> Consolidated Ditch and Headgate Company	<i>County:</i> Rio Grande	<i>Water Source:</i> Rio Grande
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> May 2017
<i>Loan Terms:</i> 1.80% for 30 years (Original) \$1,010,000		(Final) \$756,129.65
<i>Design Engineer:</i> Natural Resources Conservation Service		
<i>Contractor:</i> Robins Construction, LLC		



Project Description

In December 2002, Colorado entered into a Stipulation with Kansas and Nebraska to address the U.S. Supreme Court Case of Kansas v. Nebraska and Colorado. Since then, the State of Colorado had exceeded its annual allocations of beneficial consumptive use under the Republican River Compact (Compact) by an average of 11,000 acre-feet per year. In 2004, the State of Colorado established the Republican River Water Conservation District (District) to assist with Compact compliance. Since, the District has actively sought to acquire senior surface water rights.

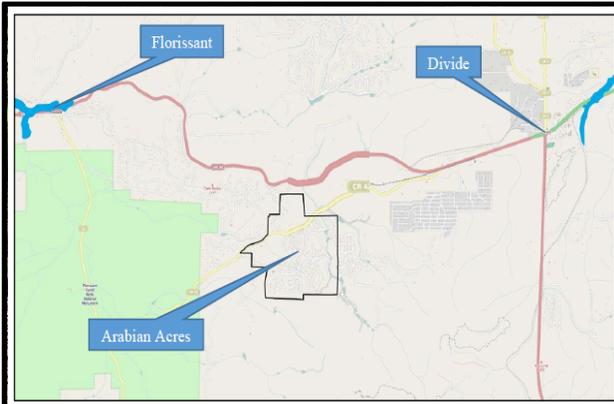
This Project included the purchase of senior surface water rights in both the North Fork and South Fork of the Republican River in order to assist the State in complying with the Compact by increasing stream flows. The Project provided multiple benefits that included preventing curtailment of existing water rights and wells due to noncompliance, avoiding a reduction of groundwater-irrigated acreage, furthering a collaborative approach to Endangered Species Act compliance, and minimizing costly litigation with Kansas and Nebraska.

PROJECT DATA		
Sponsor: Republican River Water Conservation District	County: Yuma	Water Source: North Fork and South Fork of the Republican River
Type of Project: Water Rights Purchase		Board Approval Date: November 2019
Terms of Loan: 1.20% for 20 years (Original) \$5,570,150.00 (Final) \$5,570,150.00		
Engineer: Randy Hendrix, P.E., Hendrix Wai Engineering, Inc.		
Appraiser: Kevin McCarty, McCarty Land & Water Valuation, Inc.		



Automatic Meter Implementation Project

Arabian Acres Metropolitan District
 Substantially Complete May 1, 2020



Project photos of Arabian Acres automatic meter installation and connection to distribution system.

Project Description

The Arabian Acres Metropolitan District (District) provides potable water service to the Arabian Acres subdivision and Trout Haven Estates in Teller County. The District currently serves 145 residential and 5 commercial taps for a population of approximately 392 people. The District has trouble providing reliable service with an approximately 40-year-old, poorly constructed distribution system that leaks considerably and lacks adequate flow measurement of potable water delivery.

Through this Automatic Meter Implementation (Project) the District installed an automatic meter reading (AMR) system, new meter pits, installed hardware, a drive-by meter read base station, and software. This Project helped improve the District’s operational efficiency by upgrading its water system. The meters help accurately measure the amount of water usage and help quantify the system water loss. In addition to the loan, the District received a DOLA Energy Impact Assistance Fund Grant which resulted in needing approximately 50% of the CWCB loan for project costs.

P R O J E C T D A T A		
<i>Sponsor:</i> Arabian Acres Metropolitan District	<i>County:</i> Teller	<i>Water Source:</i> Groundwater
<i>Type of Project:</i> Water Meter Implementation		<i>Board Approval Date:</i> September 2018
<i>Terms of Loan:</i> 1.85% for 10 years (Original) \$404,000.00 (Final) \$214,459.76		
<i>Design Engineer:</i> AquaWorks DBO, Inc.		
<i>Contractor:</i> Velocity Constructors, Inc.		



Before



After



Project Description

The San Luis Valley Canal Headgate Construction Project was a headgate replacement, streambank stabilization, and riparian restoration project completed through a partnership with the San Luis Valley Canal Company and the Rio Grande Headwaters Restoration Project. The goal of the Project was to replace the aging and inefficient San Luis Valley Canal headgate and improve streambank stability and riparian condition throughout the project area. The Project included the construction of a new concrete headgate for SLVCC, as well as river channel shaping for increased capacity. In addition to replacing the infrastructure, the Project included the stabilization of 750 feet of streambank in the Project area. Benefits of the Project include improved diversion efficiency and reduced maintenance, enhanced water quality, improved riparian condition, increased capacity for sediment transport, improved aquatic and wildlife habitat, improved public safety, and increased public involvement in water improvement activities.

P R O J E C T D A T A		
<i>Sponsor:</i> San Luis Valley Canal Company	<i>County:</i> Rio Grande	<i>Water Source:</i> Rio Grande
<i>Type of Loan:</i> Headgate Replacement		<i>Board Approval Date:</i> May 2018
<i>Loan Terms:</i> 1.45% for 20 years (Original) \$303,000.00 (Final) \$198,428.30		
<i>Design Engineer:</i> Riverbend Engineering, LLC		
<i>Contractor:</i> Cooley & Sons Excavating Inc.		



Project photos of Leyden Flushing Structure



Project photos of Headgate 53 Retaining Wall



Project photos of Area 15 Lining

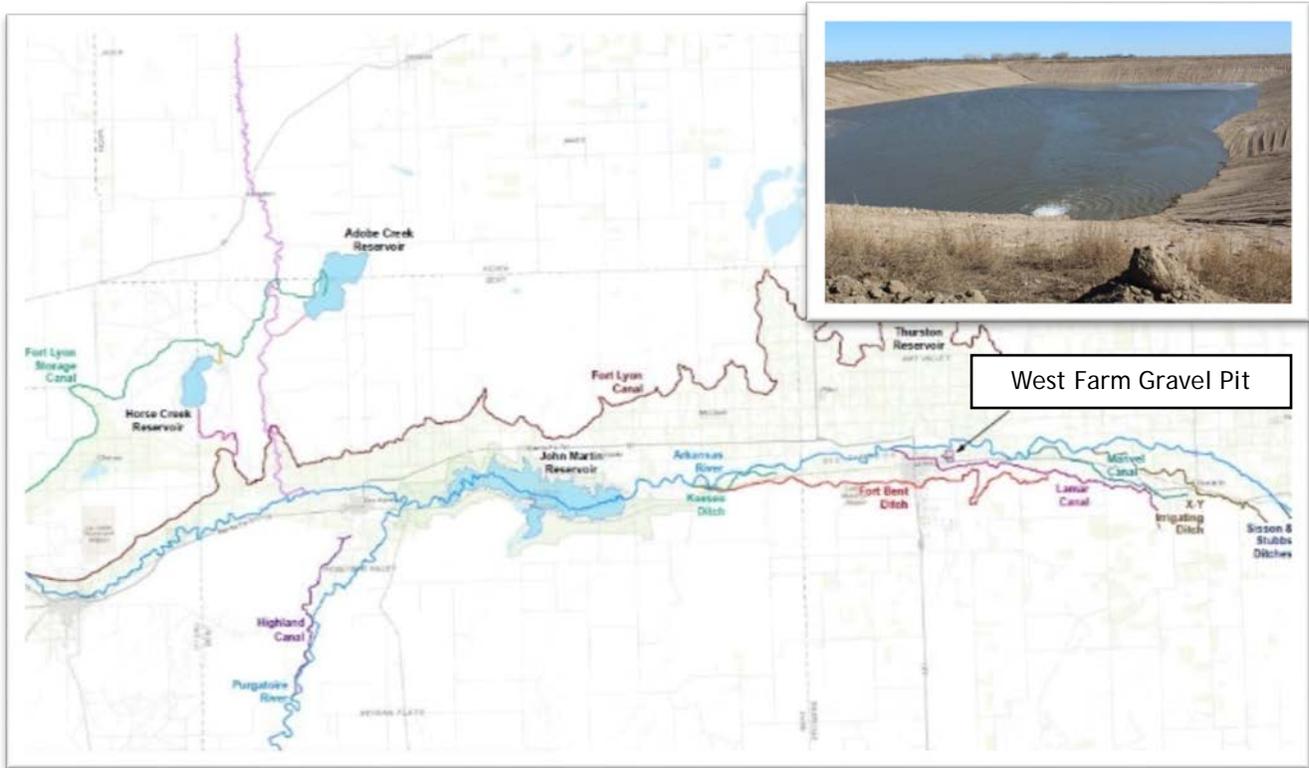
Project Description

There are 97 Contractual Users who receive water from Church Ditch. The 2009 Master Plan identifies areas in need of maintenance, modification, or replacement. Since 2009, the Church Ditch Water Authority (CDWA) has been completing the identified maintenance and replacement projects as time and budgets allow. The following five projects were identified as the highest priority for CDWA:

- (1) the Leyden Creek Flushing Structure work included replacement of the aging structure and improving efficiency, safety, and maintenance accessibility;
- (2) the Headgate 53 Retaining Wall project involved repairing a concrete block wall installed as an emergency fix due to the 2013 flood;
- (3) the Area 15 Ditch Lining rehabilitation included lining a ditch section where dewatering by new homes and businesses adjacent to the ditch increased water loss in the ditch;
- (4) the Ford Street Siphon project addressed a 75-year old culvert that was thought to be near the end of its expected lifespan; and
- (5) the Legacy Farms Culvert replacement of an undersized culvert created backwater.

The CDWA concluded that the Ford Street Siphon does not require replacement. The siphon is in good working condition and only required new grout which was applied and paid for by CDWA in 2020. The CDWA also decided to remove the Legacy Farms Culvert and not replace it, but leave the ditch open. The Area 15 Ditch Lining was reduced in length resulting in additional cost savings.

PROJECT DATA		
Sponsor: Church Ditch Water Authority	County: Jefferson	Water Source: Clear Creek
Type of Project: Ditch Systems Improvements		Board Approval Date: July 2017
Terms of Loan: 3.00% for 30 years	(Original) \$3,615,800.00	(Final) \$2,236,657.28
Design Engineer: Ecological Resource Consultants, Inc.		
Contractor: Merdiam Partners, LLC - JL Melton Construction, Inc. - Lillard and Clark Construction Co., Inc.		



Project Description

The West Farm Gravel Pit (WFGP) storage reservoir is located downstream of the City of Lamar on the Arkansas River. The Lower Arkansas Water Management Association (LAWMA) purchased approximately 1,638 acre-feet of open water storage capacity in the WFGP to store fully consumable water for use in LAWMA’s decreed plan for augmentation, its annual Arkansas River Use Rules replacement plan (Rule 14 Plan), LAWMA-operated Compact Compliance Plans under Rule 10 of the Compact Rules Governing improvements to Surface Water Irrigation Systems in the Arkansas River Basin in Colorado (Rule 10 Plan), and substitute water supply plans that include LAWMA shares as a source of replacement supply. Project benefits included an increased average annual allocation to a common share from 72% to 85% and a reduction in the number of dry year allocations. LAWMA was approved for a Water Plan Grant to fund a portion of this project from the water Supply and Storage grant program. A February 2015 final letter report prepared by the State Engineer’s Office determined the WFGP slurry wall was lined to their design standard. LAWMA completed the water storage purchase in June 2020.

P R O J E C T D A T A		
<i>Sponsor:</i> Lower Arkansas Water Management Association	<i>County:</i> Prowers	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Reservoir Storage	<i>Board Approval Date:</i> July 2019	
<i>Terms of Loan:</i> 2.45% for 30 years	<i>(Original)</i> \$3,630,950.00	<i>(Final)</i> \$3,556,598.35
<i>Terms of Water Plan Grant:</i> <i>(Original)</i> \$1,000,000.00		<i>(Final)</i> \$993,211.02
<i>Engineer:</i> Randy Hendrix, P.E., Hendrix Wai Engineering, Inc.		
<i>Appraiser:</i> Gregory T. Gerken, MAI, AI-GRS, Hegarty & Gerken, Inc.		



Project Description

The Town of Firestone's boundary encompasses approximately 9,089 acres and is generally located east of Interstate 25 between Highway 66 and Highway 52. The Town provides water and wastewater services to approximately 12,110 residents. The purpose of the project is to provide a water storage to help meet the current and the future non-potable water needs. The Town plans for approximately two times the demand, or 2,000 acre-feet (AF) of non-potable storage. They purchased the Carbon Valley Resource Pit and acquired 1,219 AF of lined storage and 1.41 shares of Rural Ditch Company with an average annual yield of 105 AF/share. Also purchased was 3.97 of preferred shares and 6.667 of common shares of Lower Boulder Reservoir and Ditch Company. A common share average annual yield is approximately 11.5 AF/share and a preferred share average annual yield is approximately 34.5 AF/share. The water purchased may be used to fill the reservoir. Construction is planned for the Fall of 2020. The Town has acquired a revenue bond to pay off the CWCB loan balance and complete the project. The CWCB loan allowed for the purchase of the cornerstone elements of the non-potable irrigation system.

P R O J E C T D A T A		
Sponsor: Town of Firestone	County: Weld	Water Source: St. Vrain River and Boulder Creek
Type of Project: Reservoir Storage and Water Rights Purchase		Board Approval Date: November 2016
Terms of Loan: 2.35% for 20 years	(Original) \$10,000,000.00	(Final) \$5,964,859.01
Engineer: David B. Lindsay, P.E., Colorado Civil Group, Inc. Engineering Consultants		



Outlet Structure to St. Vrain River



Variable Frequency Drive and Switch Gear



Pond C Column Pump

Project Description

The Shores Lakes is a gravel pit complex located near Firestone in Weld County and consists of four lined cells (Ponds A, B, C, D), which are interconnected via pipelines. The Well Augmentation Subdistrict (WAS) of the Central Colorado Water Conservancy District (CCWCD) had been storing water at the site since 2008. In order to make releases to the St. Vrain River for augmentation needs, temporary floating pontoon pumps were utilized. Prior to the project, Shores Lakes had all the infrastructure necessary for efficient operation except for the inlet and outlet structures and a column pump for Pond C.

In 2018 WAS retained Deere & Ault to design the necessary infrastructure and Concrete Works of Colorado undertook the site work in 2019 and 2020. The completed project provides WAS with operational flexibility including the ability to deliver water by gravity to the St. Vrain River; a unique feature of a gravel pit augmentation pond. The whole Shores Complex is now well designed and an efficiently operated storage vessel.

P R O J E C T D A T A		
<i>Sponsor:</i> Well Augmentation Subdistrict	<i>County:</i> Weld	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Reservoir Rehabilitation	<i>Board Approval Date:</i> January 2018	
<i>Terms of Loan:</i> 1.65% for 40 years	<i>(Original)</i> \$2,367,440.00	<i>(Final)</i> \$2,367,440.00
<i>Design Engineer:</i> Deere & Ault Consultants Inc.		
<i>Contractor:</i> Concrete Works of Colorado, Inc.		



Before



After



Obermeyer Gate

Project Description

The Centennial Irrigating Ditch Company, with the support of the Rio Grande Headwaters Restoration Project, hired Robins Construction to replace the company's diversion dam in October 2017. Robins mobilized in January 2018, building a coffer dam and dewatering half of the channel. After completing earthwork on the southern half of the channel, they placed rock for the diversion, grouted them with concrete, and installed an Obermeyer gate. Then, they removed the cofferdam and built a new one of the north side of the channel, completing the other side of the dam in March 2018. Channel shaping was completed upstream and downstream of the site and the area was revegetated with willow transplants. In spring 2020, robins built a concrete measuring structure in the ditch to improve the measurement accuracy. The project closeout took place on August 1, 2020.

P R O J E C T D A T A		
<i>Sponsor:</i> Centennial Irrigation Ditch Co.	<i>County:</i> Weld	<i>Water Source:</i> Rio Grande
<i>Type of Project:</i> Ditch Rehabilitation	<i>Board Approval Date:</i> September 2017	
<i>Terms of Loan:</i> 1.50% for 20 years	<i>(Original)</i> \$232,300.00	<i>(Final)</i> \$229,060.12
<i>Design Engineer:</i> Natural Resources Conservation Service (NRCS)		
<i>Contractor:</i> Robins Construction		



Pipe Installation



Framing Concrete Splitting Structure



Completed Structure



Completed Alignment

Project Description

The Missouri Heights Mountain Meadow irrigation Ditch provides irrigation water to approximately 2,000 acres of ranch land 12 miles northeast of Carbondale. Their mainline ditch was unlined and experiencing significant losses due to seepage. The company worked with the NRCS to design a three phase lining and piping project of which the Phase B piping was the last to be completed. The previously completed phases, A and C, lined 3,500 feet and 5,750 feet of ditch, respectively. Phase B began when Environmental Excavation LLC mobilized on site in October 2019. They started installing pipe soon afterwards. By March 2020 most of the Phase B work had been completed including the installation of 5,500 feet of pipe and two concrete structures. Seeding and demobilization continued into the spring and the project closeout took place on August 1, 2020.

P R O J E C T D A T A		
<i>Sponsor:</i> Missouri Heights Mountain Meadows Irrigation Company	<i>County:</i> Garfield	<i>Water Source:</i> Cattle Creek
<i>Type of Project:</i> Ditch Piping	<i>Board Approval Date:</i> July 2018	
<i>Terms of Loan:</i> 2.05% for 30 years	<i>(Original)</i> \$303,000.00	<i>(Final)</i> \$178,971.72
<i>Design Engineer:</i> Natural Resources Conservation Service (NRCS)		
<i>Contractor:</i> Environmental Excavation LLC		



Inlet structure during construction



Ditch turnout structures for shareholders



Inlet structure after construction



Project Description

The Orchard Ranch Ditch Company (Company) serves approximately 350 irrigated acres in Delta County, approximately 10 miles north of the town of Delta, diverting all its supplies via a concrete diversion structure on Surface Creek. The Company's ditch was constructed in the late 1800s by a group of early settlers working together to bring water to their farms, and the ditch has been in continuous operation since. The Company completed piping its main canal and portions of 4 laterals. Approximately 2.25 miles of pipe were installed. Pipe sizes ranged from 36" to 8". Twenty turnouts were installed. An inlet structure consisting of a headgate, a measuring flume, and a screening system was installed. The entire system is pressurized so landowners are able to convert from flood irrigation to sprinkler irrigation.

The project was done in conjunction with the U.S. Bureau of Reclamation's Colorado River Basin Salinity Control Program. Approximately 90% of project costs were provided by a grant from the U.S. Bureau of Reclamation. Construction began in December 2018, and was completed in June 2019. Currently the system is finishing its second year of operation and is functioning well.

P R O J E C T D A T A		
<i>Sponsor:</i> Orchard Ranch Ditch Company	<i>County:</i> Delta	<i>Water Source:</i> Surface Creek to Gunnison River
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> January 2016
<i>Terms of Loan:</i> 1.95% for 30 years (Original) \$151,500.00 (Final) \$136,677.22		
<i>Terms of WSRF Grant:</i> (Original) \$50,000 (Final) \$50,000		
<i>Design Engineer:</i> JUB Engineers, Inc. and Robert I. Gallegos, PE		
<i>Contractor:</i> Pitt Construction, LLC		



Before



After

Project Description

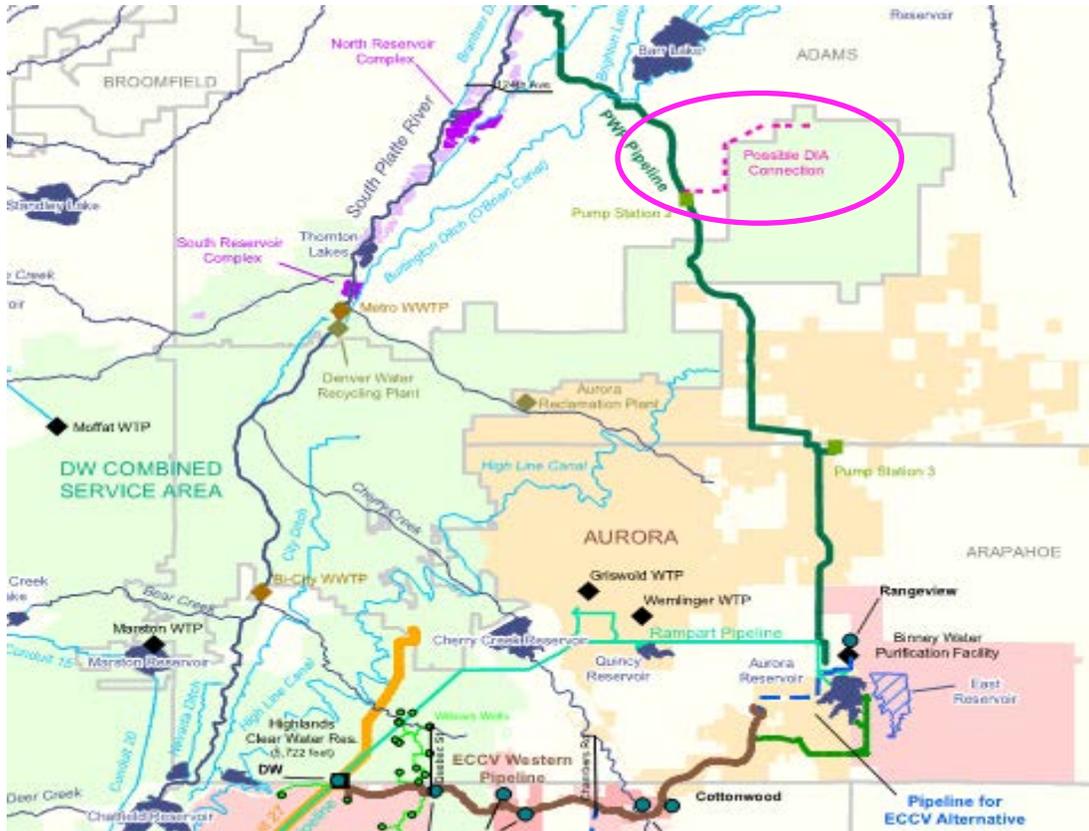
The Schneider Ditch Company diverts water from a side channel in the South Platte River for both irrigation and augmentation purposes. Water deliveries are made through the Schneider Ditch to recharge sites and irrigation lands lying south of the South Platte River and near the Town of Atwood. The diversion structure was constructed over 50 years ago and consisted of a concrete rolover wall with a flashboard system that diverted water into the ditch. The original structure had a problem with seepage, undermining, and sediment control. The project included the removal of the existing structure, installation of a new concrete structure with a 60-foot long inflatable bladder gate to act as a service spillway in the river channel, a 10-foot wide radial gate for headgate sand maintenance, a 10-foot wide intake headgate, and construction of a control building with new gate controls. Construction began in the fall of 2019 and was completed in the fall of 2020.

PROJECT DATA		
Sponsor: Schneider Ditch Company	County: Logan	Water Source: South Platte River
Type of Project: Diversion Structure		Board Approval Date: January 2019
Terms of Loan: 1.85% for 30 years (Original) \$1,245,330 (Final) \$1,161,902.11		
Design Engineer: Harris Engineering Consultants, Inc.		
Contractor: Ransome Boone Excavation		



Water Infrastructure Supply Efficiency (WISE) DIA Connection Project

Southeast Suburban Water and Sanitation District
 dba Pinery Water and Wastewater District
 Substantially Complete November 1, 2020



Project Description

The Pinery Water and Wastewater District (District) participated in WISE infrastructure components including 20,300 feet of a 42-inch pipeline from the intersection of Chambers Road and E-470 to the Parker Water Treatment Plant located just south of Reuter Hess Reservoir. At the Parker Water Treatment Plant site, a new 16.5 million gallons per day pump station is under construction. Downstream of the pump station, 9,000 feet of 24-inch pipe will be constructed that will allow WISE water to be conveyed to Reuter Hess Reservoir for storage.

The WISE Project is the result of regional cooperative planning efforts between Denver Water Aurora Water and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources. An agreement with Denver Water and WISE partners has not been reached regarding the DIA Connection pipeline and the District has determined that additional CWCB loan funds are no longer needed to complete the Project.

P R O J E C T D A T A		
<i>Sponsor:</i> Pinery Water and Wastewater District	<i>County:</i> Douglas	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Water Supply		<i>Board Approval Date:</i> May 2014
<i>Terms of Loan:</i> 3.00% for 30 years (Original) \$454,500 (Final) \$280,235.69		
<i>Design Engineer:</i> Denver Water		

Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update	
Projects in Design or Construction								
1	Arapahoe County Water and Wastewater Authority >Chambers Reservoir Liner Rehabilitation CT2021-513	Arapahoe	\$2,500,000	100%	May 2020 - Dec 2020	90%	RP	Under construction Aug 2020, liner prep/installation through Oct 2020. Material onsite, liner install 9/10/20, reservoir bottom and sides final acceptance 10/2020, all liner is placed, vents, access ladders, access ramp. Dam Safety temp. fill approval-Dec2020.
2	Cedar Mesa Ditch Company >Lower Cedar Mesa Ditch Piping CT2020-2680	Delta	\$1,346,000	100%	Sept 2020 - Spring 2023	15%	MS	Construction began in October. The intake structure is complete and pipe installation is proceeding along the ditch. Contractor is experiencing some delays due to backordered pipe material, but it is not expected to significantly affect the project.
3- CHATFIELD Reallocation Project - Phase 2 Mitigation							\$6,931,000	
a	Castle Pines North Metropolitan District >(C150404C) CT2018-1990	Arapahoe Douglas Park Weld	\$1,572,000	100%	Fall 2019 - Summer 2020	90%	KR	This contract provides reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 2 covers the construction work remaining after Phase 1 loan funds are fully depleted.
b	Centennial Water & Sanitation District >(C150405C) CT2016-2056	Arapahoe Douglas Park Weld	\$10,826,000	100%	Fall 2019 - Summer 2020	90%	KR	Phase 2 began disbursement of funds with the July 2019 pay request. It was originally estimated Phase 2 work could last until 2028. However, the on-site mitigation in Phase 1 is proving more effective than planned, lessening the amount of off-site mitigation in Phase 2.
c	Central Colorado Water Conservancy District >(C150407C) CT2016-2060	Arapahoe Douglas Weld	\$6,931,000	100%	Fall 2019 - Summer 2020	90%	KR	This reservoir begin filling in May of 2020. Final mitigation work and monitoring will continue over the next couple years.
4 - DIVERSION STRUCTURE REPLACEMENT								
a	Deuel and Snyder Improvement Company >Diversion Structure Replacement CT2020-3562	Morgan	\$643,000	100%	Aug 2020 - May 2021	15%	CB	This project will support the replacement of UPBCC/DSIC's 1,400 foot long diversion structure on the South Platte. Contractor mobilization and first purchase of materials took place in June 2020.
b	Upper Platte and Beaver Canal Company >Diversion Structure Replacement CT2020-0333	Morgan	\$4,392,000	100%	Aug 2020 - May 2021	15%	CB	This project will support the replacement of UPBCC/DSIC's 1,400 foot long diversion structure on the South Platte. Contractor mobilization and first purchase of materials took place in June 2020.
5	Duke Ditch Company >Piping the Duke Ditch CT2017-0915 CTGG1 2017-0212 (WSRF)	Delta	\$90,000	100%	On Hold	0%	MS	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.
6	Florida Consolidated Ditch Company >Hess Lateral Improvement CT2019-2034 CTGG1 2016-1319 (WSRF)	La Plata	\$1,075,000	100%	Winter 2020 - Fall 2021	0%	KR	Company received bids. The low bid exceeded the available funding. Company is in the process of value engineering and project adjustments.
7	Fort Morgan Farms, LLC >Delta Water Storage Phase 1 CT2021-2222	Weld	\$8,982,000	80%	Fall 2021 - Spring 2022	10%	CB	The Delta Storage Project will construct a below grade storage reservoir. The loan covers the cost of constructing a slurry wall around the reservoir to isolate future stored water from existing groundwater. Currently the slurry wall is under construction.
8	Fruitland Irrigation Company >Tunnel and Canal Renovation CT2019-2848 CTGG1 2019-2449 CTGG1 2019-2475	Delta & Montrose	\$1,729,000	100%	Jan 2020 - Dec 2023	24%	RP	Sept 2018 letter from Bureau of Reclamation recvd. Construction material delivery began 11/2019. Section 1 tunnel work bed pkg Dec2020. Section 2 Tribble - Pipe placement, compaction testing. Section 3&4 Rundel - begin breaking and removal of bedrock
9	Grand Mesa Water Conservancy District >Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	\$466,620	100%	Mar 2013 - Dec 2021	75%	MS	Construction on Peak Reservoir began in the 2013 season and was completed in Oct 2014. Construction on Blanche Park Reservoir began in July but has ceased for winter. Embankment fill stockpile is not sufficient and attempts to locate suitable material have not been successful so far.
10	Grand Junction, City of >Purdy Mesa Flowline Replacement CT2021-2857	Mesa	\$7,000,000	100%	Winter 2020 - Summer 2021	0%	CB	The Purdy Mesa Flowline is a large diameter pipeline that supplies raw water to the Grand Junction WTP. Most of the line was replaced as part of previous projects and this project will replace the last remaining out-of-date pipe material.
11	Groundwater Management Subdistrict of CCWCD >Hokestra Reservoir Purchase CT2020-3348	Weld	\$5,390,500	80%	May 2020 - Dec 2021	0%	CB	This Project will purchase an existing reservoir for use as augmentation storage. It has been contracted. No funds have been disbursed for the reservoir purchase.
12	Groundwater Management Subdistrict of CCWCD >Pioneer Reservoir CT2019-3687	Weld	\$8,611,000	50%	Sep 2019 - May 2022	0%	CB	This is a gravel pit retrofit for augmentation water supply. Funds for the initial reservoir purchase and some engineering were disbursed in May 2019. Construction efforts are expected to begin in 2020.
13	Hidden Valley Water District >Master Water Meter Connection CT2020-2244	Jefferson	\$1,720,000	100%	Feb 2020 - Dec 2021	95%	RP	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. Finishing warranty items and IGA with EMD items.
14	Huerfano County Water Conservancy District >Regional Augmentation Project C150364 (CT2015-0047)	Huerfano	\$2,640,000	100%	Jan 2014 - Dec 2021	95%	RP	Land and water rights purchase occurred in January 2014. Phase I completed Oct 2017. Ph 3 - Reservoir liner complete 8/2019. Approved loan increase and time extension 11/2019 mtg. Award to Frontier Environ. Services. Ph4 Rebar pump station footer placed, diversion structure wall poured 12/2020
15	Julesburg Irrigation District >Diversion Structure Rehabilitation CT2020-0396 WPG CTGG1-2020-2445	Sedgwick	\$2,858,000	100%	May 2020 - Dec 2021	10%	CB	This project is a diversion structure replacement on the South Platte. The Contractor has been selected and a first disbursal has been made for long lead-time materials. Construction had been slowed due to the State's shelter-in-place order, but is still moving ahead.
16	Lateral Ditch ML47, Inc. >Lateral Ditch Pipeline Project CT2021-515	Mesa	\$700,000	100%	Fall 2020 - Spring 2021	20%	CB	This project will pipe an existing open ditch for more efficient delivery of water. A \$538 million Federal grant is also being applied to this project. Construction is under way and expected to be completed before May 2021.
17	Left Hand Ditch Company >Allen's Lake Filler Canal Improvements CT2019-3463	Boulder	\$765,000	100%	Dec 2020 - Feb 2021	0%	CB	This project will replace 2,750 feet of open ditch with a buried pipe. No funds have been disbursed. Construction is expected to begin after Grading Permit is received. Loan Increase was approved in January 2020.
18	Left Hand Water District >Participation in Southern Water Supply Project II CT2018-2028	Broomfield & Weld	\$9,900,990	100%	Feb 2018 - Dec 2020	99%	CB	This contract is for LHWD's participation in Southern Water Supply Project II--a large pipeline supplying water to users in the Northern Front Range. The pipeline has been installed and 100% of loan funds have been disbursed. Substantial completion is expected in Fall 2020.

	Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update
19	Ogilvy Irrigating and Land Company >Seely Reservoir Dredging CT2019-2099 CTGG1 2019-2018 (WPG)	Weld	\$2,252,000	85%	Fall 2021 - Spring 2023	0%	RP	USACE 12/2019 non jurisdictional determination. Floating dredge proposed in lieu of draining/excavating reservoir convent. excavation/haul. OILC concerned floating dredge ability dewater sufficiently for adjacent property. Reviewing options.
20	Pueblo Conservancy District >Arkansas River and Wildhorse Creek Levees CT2019-0366	Pueblo	\$23,000,000	100%	Dec 2014 - Jun 2021	95%	RP	Funds approved June 2018. Phase 5 under construction - removing, replacing concrete where Ph4 ended. Phase 5A under construction - grouting, filling voids in toe of levee for future Ph6. Loan increase Projects Bill 2020. Wrapping up construction Phase 6.
21	Redlands Water and Power Company >Pumpline Replacement Project CT2021-0511, WSRF POGG1 2020-2970	Mesa	\$635,000	100%	Nov 2020 - Feb 2021	50%	CB	This project will replace an existing, out-of-date pipeline. Construction is currently under way.
22	Redlands Water & Power Company >Roller Gate Replacement CT2021-2837	Mesa	\$400,000	90%	Fall 2021 - Spring 2022	0%	CB	This project will replace existing, out-of-date gates on Redlands' diversion structure. A contractor has been selected and work may begin this spring if river conditions are favorable. Otherwise, work will begin next fall.
23	Rural Ditch Company >Diversion Structure Improvement CT2021-2043	Weld	\$805,000	100%	Spring 2021 - Spring 2022	10%	CB	The Rural Ditch Diversion Structure project will repair a diversion structure which was damaged in the 2013 flooding. It has operated at a reduced capacity since it was damaged, but as a result of this project will be restored to full operation.
24	San Luis Valley Irrigation District >Rio Grande Reservoir Rehabilitation CT-2018-3303, CTGG1-2018-1805	Hinsdale, Rio Grande	\$15,000,000	100%	Aug 2018 - June 2020	95%	KR	Project is near complete. Moltz has begun demobilization. Outlet is operable and the reservoir is releasing water. Final touches on the Gate House and site clean up will continue through the summer. Ribbon cutting ceremony was postponed due to the COVID-19 public gathering limitations.
25	Southeastern CO Water Conservancy District >Pueblo Dam Hydroelectric Project CT2018-0833	Pueblo	\$17,220,000	100%	June 2017 - Dec 2021	99%	RP	Construction beginning fall 2017. District anticipates power production by fall of 2018. Tie-in to SDS complete April 2018. Waiting on transformer approval from Black Hills. Turbine and generator placement and fiber optic line approval. Functional and producing power. Finalizing adjustments and design details. 2-yr performance time extension approved.
26	South Fork, Town of >Augmentation Water Purchase CT2020-3398	Rio Grande	\$440,000	100%	Jan 2021 - Dec 2021	100%	RP	Augmentation water purchase anticipate completion early 2021.
27	Spring Dale Ditch Company >Diversion Structure Replacement Project CT2020-3110	Logan	\$1,210,000	100%	Feb 2020 - Feb 2021	35%	CB	This project will replace Springdale's aging diversion structure on the South Platte. Some purchase of materials and mobilization has begun.
28	St. Vrain & Left Hand Water Conservancy District >Lake No. 4 Outlet Pipeline Repair CT2017-3213	Boulder	\$856,000	100%	Mar 2017 - Feb 2021	98%	CB	This project and the Emergency Rock'n WP are independent components of a larger rehabilitation of reservoirs destroyed in 2013. Early in the construction phase, disagreement arose between the owner and contractor and Work shut down, but is now back underway.
29	St. Vrain & Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair CT2016-2452	Boulder	\$4,500,000	100%	Jan 2016 - Feb 2021	98%	CB	This project and the Lake No. 4 Outlet Pipe are independent components of a larger rehabilitation of reservoirs destroyed in 2013. Early in the construction phase, disagreement arose between the owner and contractor and Work shut down, but is now back underway.
30	Tunnel Water Company >West Half Laramie-Poudre Tunnel Rehabilitation CT2019-3706	Larimer	\$17,080,000	100%	Sep 2019 - Apr 2023	40%	RP	Construction scheduled to begin the Fall 2019, when low water and non-irrigation season. Requesting loan increase 11/2019, 3/2020 from Projects Bill 2020. Construction delays due to Cameron Peak wildfire.
31- WALKER RECHARGE PROJECT								\$15,150,000
a	Central Colorado WCD >Walker Recharge CT2020-0310 CTGG1 2019-3648 WPG	Weld	\$2,250,000	100%	Sep 2019 - Sep 2022	35%	CB	The Walker Recharge project consists of diversions off the South Platte, a pipeline, and infiltration facilities to re-time augmentation flows. Two other loans and a grant are tied to the project. Construction related to the grant will began in November and the first dipursals were made in December.
b	Groundwater Management Subdistrict of CCWCD >Walker Recharge CT2020-0324	Weld	\$9,750,000	100%	Sep 2019 - Sep 2022	35%	CB	
c	Well Augmentation Subdistrict of CCWCD >Walker Recharge CT2020-0326	Weld	\$3,000,000	100%	Sep 2019 - Sep 2022	35%	CB	
32	Wiggins, Town of >Wiggins Recharge Facility at Glassey Farms CT2018-0892	Morgan	\$2,385,000	100%	Jul 2017 - Jul 2021	0%	CB	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.
33- WISE Project - Phase 2 Infrastructure								\$7,326,940
a	Cottonwood W&S Dist - C150408C (CT2015-0105)	Douglas/ Arapahoe	\$1,116,000	100%	Jan 2020 - Dec 2022	5%	RP	Binney Connection Pipeline of Water Infrastructure and Supply Efficiency project will increase WISE flow capacity to 30MGD and provide infrastructure from Aurora Binney Facility to SMWSA. Pumps/Treatment-Glacier, Pipeline/Infrastructure-T.Lowell, Jacobs is Engineer. Vault excavation began 9/2020. Construction trailer onsite through project duration. Glacier complete foundation work, pump cans have been delivered and installed, pump motors have arrived at the pump manufacture, preliminary SCADA meetings begun, Glacier starting to form rebar for the flow control building.
b	Inverness W&S Dist - C150409C (CT2015-0119)	Douglas/ Arapahoe	\$1,413,000	100%	Jan 2020 - Dec 2022	5%	RP	
c	Parker W&S Dist - C150410C (CT2015-0109)	Douglas/ Arapahoe	\$3,384,810	100%	Jan 2020 - Dec 2022	5%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-0086)	Douglas/ Arapahoe	\$1,413,130	100%	Jan 2020 - Dec 2022	5%	RP	
34- WISE Project - DIA Connection								
a	Cottonwood W&S Dist - C150408D (CT2015-0104)	Douglas/ Arapahoe	\$363,600	80%	N/A	60%	RP	Annual disbursement to be made on this loan through 2021 Design Status

Borrower/Projects	County	Loan Amount	Design Status	Const. Start/End	Const Status	PM	Status Description/Update
b Inverness W&S Dist - C150409D (CT2015-0120)	Douglas/ Arapahoe	\$450,000	80%	N/A	60%	RP	Annual disbursement to be made on this loan through 2021. Design Status indicates percent of funds disbursed to date. WISE WDA negotiations between parties continue with the goal of having an amended Water Delivery Agreement ready to be brought to the respective Boards and Council for review and approval by April 1, 2021. Group discussion continues focused on the DIA Connection.
c Parker W&S Dist - C150410D (CT2015-0110)	Douglas/ Arapahoe	\$1,089,000	80%	N/A	60%	RP	

Projects Under Contract : \$190,150,650

Approved Projects - Not Under Contract

a	Municipal Subdistrict >Windy Gap Project CT2021-XXXX	Larimer	\$90,000,000	0%	Spring 2021 - Summer 2024	0%	CB	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. Construction is tentatively planned to begin in November 2020.
b	Logan Irrigation District >Prewitt Reservoir Rehabilitation CT2021-XXXX Grant CTGG1 2020XXXX	Washington Logan	\$1,831,000	0%	Spring 201x - Fall 202x	0%	CB	This project will support dredging efforts to eliminate a dead pool at Prewitt Reservoir. The project is currently on hold.
c	Taylor & Gill Ditch Company >Ditch Piping CTGG1 2021-XXXX	Larimer	\$125,000	0%	Fall 2020 - Spring 2021	0%	CB	This project will replace 1,000 feet of open ditch with a buried pipe. Contracting documents are dated and need redone.
d	Southeastern Colorado Water Conservancy District >Arkansas Valley Conduit CT2021-XXXX	Pueblo, Crowley, Otero, Bent, Prowers	\$90,000,000	0%	Fall 2020 - Fall 2035	0%	RP	
e	Amity Mutual Irrigation Company >Queen Reservoir Dam Rehabilitation CT2021-XXXX	Kiowa	\$1,333,000	50%	Fall 2020 - Spring 2022	5%	RP	Dam breached. Final design underway then Dam Safety review/approval. Bid pkg Jan2021.
f	Genesee Water and Sanitation District >Reservoir No. 1 Enlargement CT2021-XXXX	Jefferson	\$4,200,000	50%	Spring 2021 - Spring 2022	0%	RP	Wait for a March WPGGrant consideration
g	Florida Consolidated Ditch Company >Florida Canal Diversion Replacement CT2021-XXXX WSRF CTGG1 2021-XXXX	La Plata	\$750,000	10%	Spring 2021 - Fall 2023	0%	MS	This project is the replacement of a low head dam diversion structure with multi beneficial outcomes. The project is currently in contracting.
h	Glenwood Springs, City of >System Redundancy and Pre-Treatment Improvements >CT2021-XXXX	Garfield	\$8,000,000	0%	Spring 2021 - Fall 2021	0%	CB	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 Grizzly Creek Fire in 2020.
i	Grand Junction, City of >Carson Reservoir Dam Rehabilitation CT2021-XXXX	Mesa	\$3,350,000	0%	Spring 2021 - Fall 2021	0%	CB	This project will update Grand Junction's Carson Reservoir in compliance with Dam Safety's recommendations including installing state-of-the-art flood advance warning equipment.
j	Lookout Mountain Water District >Upper and Lower Beaver Brook Dam Rehabilitation CT2021-XXXX	Jefferson	\$3,500,000	0%			RP	May need a push due to const in winter
k	Orphan Wells of Wiggins >Kiowa Creek Dam Rehabilitation CT2021-XXXX	Morgan	\$147,000	0%			RP	

Not Under Contract SubTotal = \$203,236,000

Grand Total = \$393,386,650

**WATER PROJECT CONSTRUCTION LOAN PROGRAM
LOAN REPAYMENT DELINQUENCY REPORT
LOAN FINANCIAL ACTIVITY REPORT
January 2021**

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2020 through December 2020. 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 2021 totaled 133. Two Rivers Water and Farming Company had an annual payment due March 1, 2020 in the amount of \$76,006.78 which has not been remitted to CWCB as of this Board Meeting (January 25, 2021)). This is the 5th year that the Company has not made their loan payment on time. A late fee of 5% or \$3800.34 has been assessed per CWCB policy because the payment has not been received within 60 days of the due date. Kirk Russell, Finance Section Chief, will address this during his presentation.

LOAN FINANCIAL ACTIVITY

Loan Financial Activity relative to the Water Project Construction Loan Program for Fiscal Year 2021 is summarized as follows: Funds received relative to loans in repayment totaled \$26.8M for this year. Funds disbursed relative to new project loans totaled \$16.5M for this year. Net activity resulted in \$10.3M received by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total disbursed.

Further breakdown is summarized as follows: The Construction Fund portion consists of \$17.4M in receivables and \$10.2M in disbursements for a total net activity of \$7.2M received over disbursed. The STPBF consists of \$9.4M in receivables and \$6.3M in disbursements for a total net activity of \$3.1M received over disbursed.

CONSTRUCTION FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July	\$ 9,602,286	\$ 329,415	\$ 9,931,700	\$ 924,682	\$ 9,007,018
August	\$ 1,412,152	\$ 250,382	\$ 1,662,534	\$ 233,385	\$ 1,429,149
September	\$ 1,853,472	\$ 1,059,132	\$ 2,912,605	\$ 1,656,149	\$ 1,256,455
October	\$ 205,556	\$ 80,356	\$ 285,912	\$ 489,052	\$ (203,139)
November	\$ 779,750	\$ 847,360	\$ 1,627,110	\$ 5,574,173	\$ (3,947,063)
December	\$ 531,255	\$ 484,365	\$ 1,015,620	\$ 1,346,275	\$ (330,655)
FY 2021 Totals	\$ 14,384,472	\$ 3,051,010	\$ 17,435,482	\$ 10,223,716	\$ 7,211,766

SEVERANCE TAX TRUST FUND PERPETUAL BASE ACCOUNT

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July	\$ 30,637	\$ 13,228	\$ 43,865	\$ 330,453	\$ (286,588)
August	\$ 3,162,873	\$ 934,758	\$ 4,097,632	\$ 647,738	\$ 3,449,894
September	\$ 332,706	\$ 805,224	\$ 1,137,930	\$ 2,878,670	\$ (1,740,740)
October	\$ 387,402	\$ 132,841	\$ 520,243	\$ 277,749	\$ 242,494
November	\$ 608,329	\$ 1,215,367	\$ 1,823,696	\$ 1,418,890	\$ 404,806
December	\$ 331,861	\$ 1,392,634	\$ 1,724,495	\$ 756,727	\$ 967,768
FY 2021 Totals	\$ 4,853,809	\$ 4,494,052	\$ 9,347,861	\$ 6,310,228	\$ 3,037,633

GRAND TOTALS	\$ 19,238,281	\$ 7,545,062	\$ 26,783,343	\$ 16,533,944	\$ 10,249,399
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Colorado Water Conservation Board

CONSTRUCTION FUND
AND
SEVERANCE TAX
PERPETUAL BASE FUND

SMALL PROJECT LOAN REPORT (2020 CALENDAR YEAR)



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

Colorado Water Conservation Board
Department of Natural Resources

January 15, 2021



COLORADO

Colorado Water Conservation Board

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

January 15, 2021

Members of the 2021 Colorado General Assembly

Re: CWCB - Small Project Loan Report
Loans Approved in Calendar Year 2020
Construction Fund and Severance Tax Perpetual Base Fund

Pursuant to C.R.S. § 37-60-122(b), the Colorado Water Conservation Board (CWCB) is submitting the attached written determination of the basis for all loans under \$10,000,000 authorized during the 2020 calendar year. The report will be presented to the CWCB at the January 25-26, 2021 Board meeting.

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

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

Sincerely,

A handwritten signature in blue ink that reads "Rebecca Mitchell".

Rebecca Mitchell, Director
Colorado Water Conservation Board



PREFACE

Pursuant to Section 37-60-122(b) of the C.R.S. the Colorado Water Conservation Board (CWCB) is required to submit a report by January 15th of each year to the Colorado General Assembly describing the basis of all Construction Fund and Severance Tax Perpetual Base Fund loans authorized by the CWCB under \$10,000,000. This report fulfills the CWCB reporting obligations for those “Small Project” loans for Calendar Year 2020.

The report includes a summary spreadsheet identifying each loan approval date, the project sponsor or borrower, the project name, the loan amount, and the name of the County and River Basin where the project is located. There were 17 new loan projects under \$10,000,000 approved by the CWCB in Calendar Year 2020. The total loan value is approximately \$44.1 million.

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

January 15, 2021

**Colorado Water Conservation Board
Small Project Loans
For Calendar Year 2020**

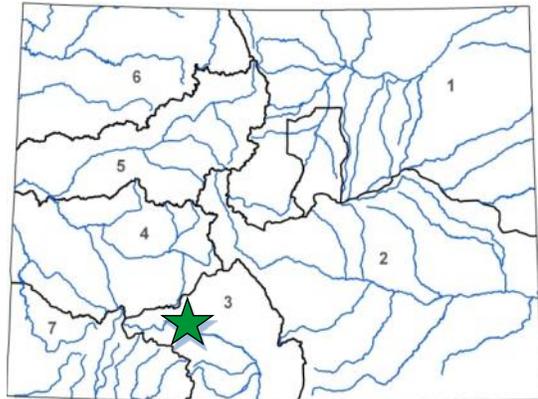
	Date Approved	Borrower	Project	Amount Approved	Funding Source*	County	Basin
1	01/28/20	Town of South Fork	Augmentation Water Purchase	\$ 440,400	CF	Rio Grande	Rio Grande
2	01/28/20	Highland Meadow Estates at Castle Peak Ranch, Inc.	Noecker Reservoir Repair	\$ 655,490	CF	Eagle	Colorado
3	03/11/20	Deuel and Snyder Improvement Company	Diversion Structure Replacement Project	\$ 649,430	CF	Morgan	South Platte
4	05/20/20	Arapahoe County Water and Wastewater Authority	Chambers Reservoir Liner Rehabilitation	\$ 2,525,000	ST	Arapahoe	South Platte
5	05/20/20	Lateral Ditch ML 47, Inc.	Lateral Ditch Pipeline Project	\$ 707,000	ST	Mesa	Colorado
6	05/20/20	Redlands Water and Power Company	Pumpline Replacement Project	\$ 641,350	ST	Mesa	Gunnison River
7	07/15/20	Amity Mutual Irrigation Company	Queen Reservoir Dam Rehabilitation	\$ 1,343,300	ST	Kiowa	Arkansas
8	07/15/20	Fort Morgan Farms, LLC	Delta Water Storage Phase I	\$ 9,071,820	ST	Weld	South Platte
9	07/15/20	Rural Ditch Company	Diversion Structure Improvement	\$ 813,500	ST	Weld	South Platte
10	09/16/20	Florida Consolidated Ditch Company	Florida Canal Diversion Replacement Project	\$ 757,500	ST	La Plata	San Juan/Dolores
11	09/16/20	Genesee Water and Sanitation District	Genesee Reservoir No. 1 Enlargement Project	\$ 4,242,000	ST	Teller	South Platte
12	09/16/20	The City of Grand Junction	Purdy Mesa Flowline Replacement Project	\$ 7,070,000	ST	Mesa	Gunnison
13	09/16/20	Redlands Water & Power Company	Roller Gate Replacement Project	\$ 404,000	ST	Mesa	Gunnison
14	11/18/20	The City of Glenwood Springs	System Redundancy and Pre-Treatment Improvements Project	\$ 8,080,000	ST	Garfield	Colorado
15	11/18/20	The City of Grand Junction	Carson Lake Dam Rehabilitation Project	\$ 3,030,000	ST	Mesa	Gunnison
16	11/18/20	Lookout Mountain Water District	Upper and Lower Beaver Brook Dam Rehabilitation Project	\$ 3,535,000	ST	Jefferson	South Platte
17	11/18/20	Orphan Wells of Wiggins, LLC	Kiowa Creek Dam Rehabilitation	\$ 148,470	ST	Morgan	South Platte

Total Amount Approved in 2020

\$ 44,114,260

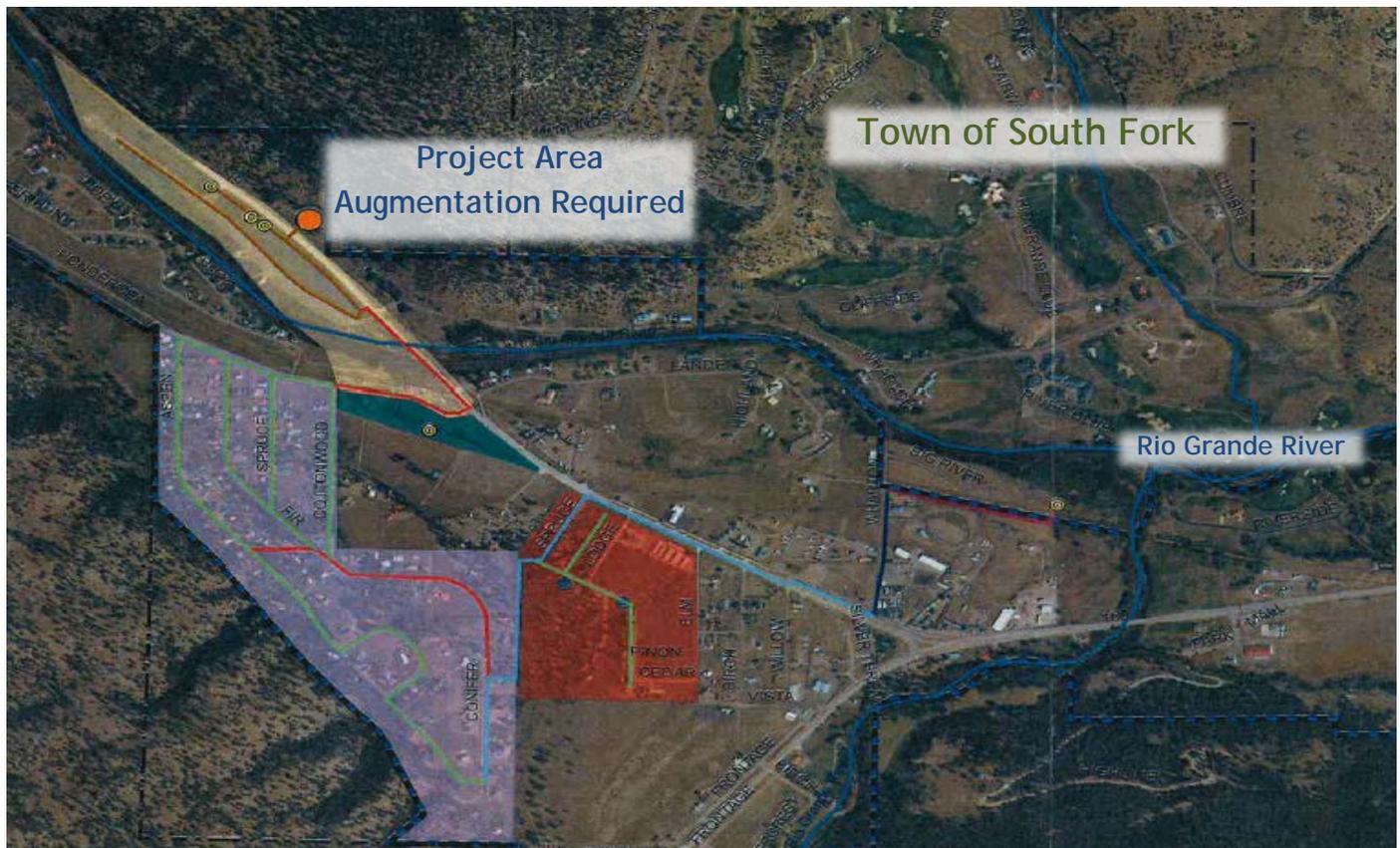
*Indicates whether the funding source is from Construction Fund (CF) or Severance Tax Fund (ST)

L O A N D E T A I L S	
Project Cost:	\$440,000
CWCB Loan (with 1% Service Fee):	\$444,400
Loan Term and Interest Rate:	30 Years @ 1.95%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Water Purchase



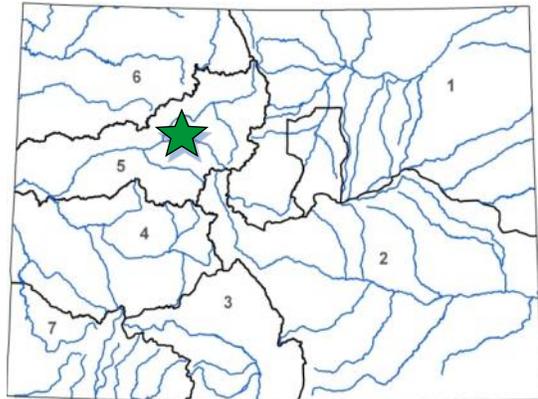
L O C A T I O N	
County:	Rio Grande
Water Source:	Rio Grande
Drainage Basin:	Rio Grande
Division:	3
District:	20

The Town of South Fork (Town), acting through its water enterprise, is creating a municipal water system to comply with the Rules Governing the Withdrawal of Groundwater in Water Division No. 3 (Rules). These Rules, approved by Water Court in 2019, require all non-exempt wells in the Rio Grande basin to replace their usage depletions through ownership of augmentation water and operation of an augmentation plan. Several private water systems in South Fork do not meet these requirements and may be subject to shut down by the State on or before March 15, 2021. In an effort to work toward compliance, the Town obtained five water systems and is requesting a loan to purchase augmentation water from the San Luis Valley Water Conservancy District. The purchase includes a certificate representing 22 acre-feet of augmentation water that will allow the Town to continue providing water to its customers and comply with the Rules for the Town's municipal water system. The purchase is anticipated to occur in June of 2020.





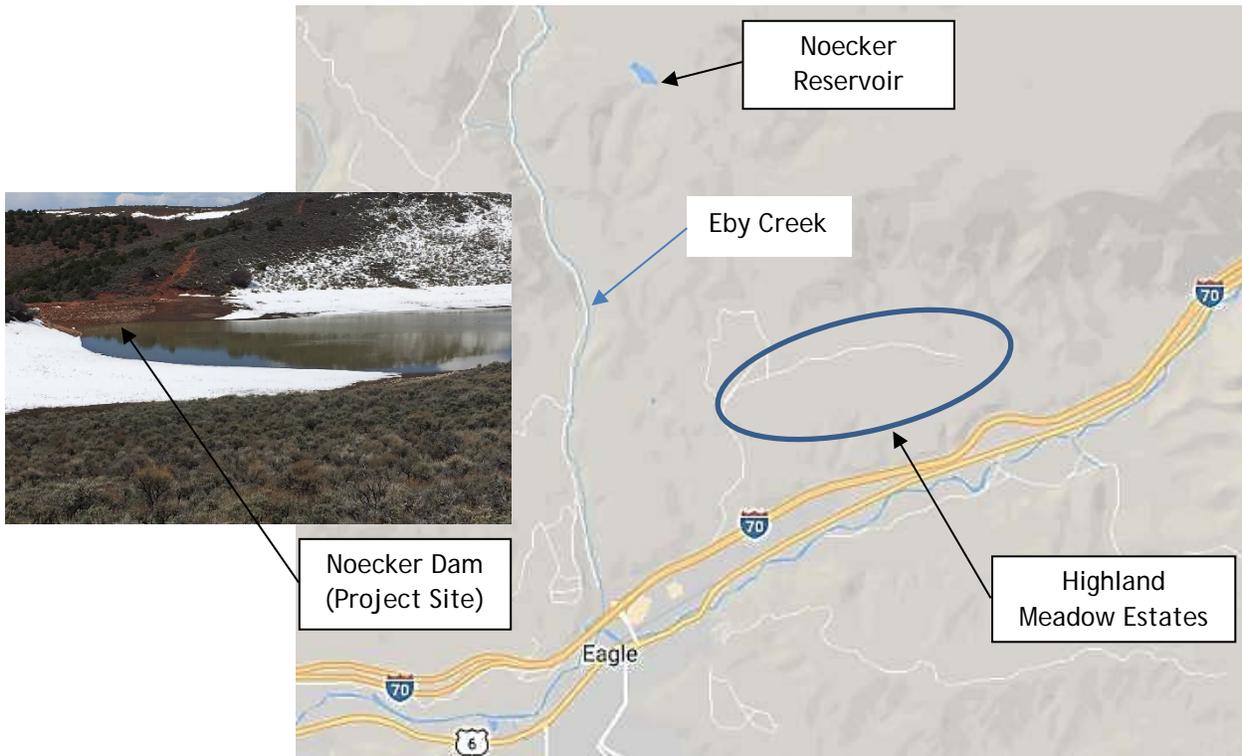
L O A N D E T A I L S	
Project Cost:	\$721,000
CWCB Loan (with 1% Service Fee):	\$655,490
Loan Term and Interest Rate:	20 Years @ 2.15%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
0%	0% Low - 0% Mid - 100% High 0%
P R O J E C T D E T A I L S	
Project Type:	Dam Rehabilitation
Total Reservoir Storage:	145 AF
Storage Preserved:	145 AF



L O C A T I O N	
County:	Eagle
Water Source:	Eby Creek
Drainage Basin:	Colorado
Division:	5 District: 37

The Highland Meadow Estates at Castle Peak Ranch, Inc. (Association or HOA) administers and maintains Noecker Reservoir to provide irrigation and outdoor use for the benefit of its members and five non-Association parties in the vicinity. The Association is located in Eagle County.

The dam of Noecker Reservoir is classified as High Hazard due to several inhabited structures and an Interstate 70 crossing located within the downstream flood inundation limits. The outlet pipe for the dam is in a deteriorated condition and the Office of the State Engineer Dam Safety Branch (SEO) is requiring rehabilitation and/or replacement of the outlet pipe and associated structures to address safety concerns. This project includes access improvements, and removal and replacement of the existing outlet pipe, outlet structure, and appurtenances. Construction is expected to occur in the summer and fall of 2020.



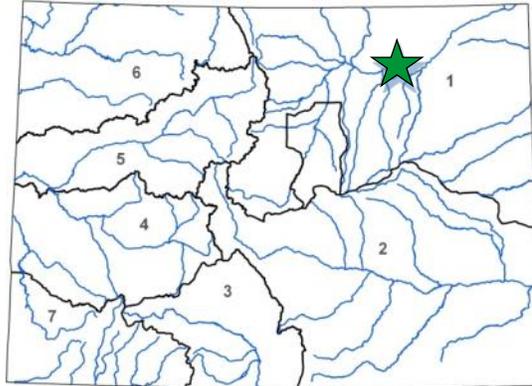


Diversion Structure Replacement

Deuel and Snyder Improvement Company

March 2020 Board Meeting

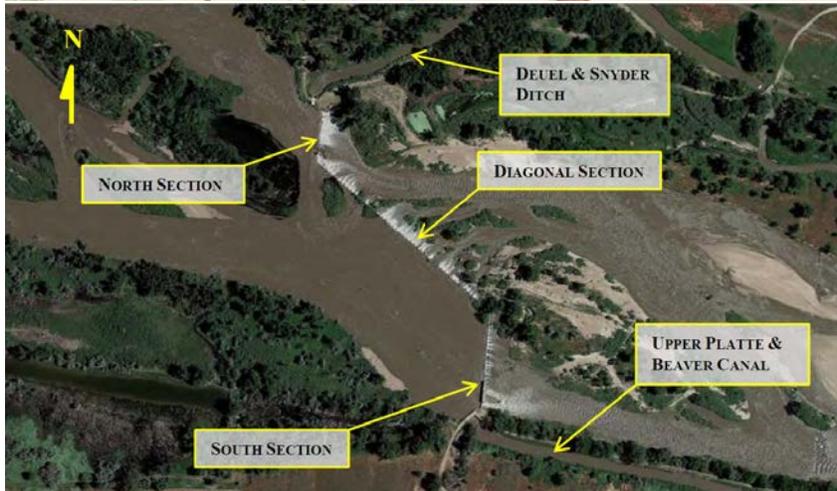
L O A N D E T A I L S	
Project Cost:	\$643,000
CWCB Loan (with Service Fee):	\$649,430
Loan Term and Interest Rate:	40 years @ 1.60%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
100%	0 % Low - 0% Mid -0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Diversion Structure Replacement
Average Annual Diversions:	5,333 AF



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 (UPBCC). Together the two ditch companies provide irrigation water to 11,500 acres.

L O C A T I O N	
County:	Morgan
Water Source:	South Platte River
Drainage Basin:	South Platte
Division:	1 District: 1

The existing diversion structure is a reinforced concrete slab and buttress structure with a height of 9 feet and a length of 1,330 feet. The diversion structure was originally built in 1936 and was improved in 1965. The existing structure has several deficiencies including seepage and erosion under the structure, and concrete deterioration throughout. The new structure will incorporate inflatable crest gate spillways (Obermeyer gate) and will restore channel continuity, improve sediment transport, and provide additional flow conveyance during floods. This loan is for the DSIC share of project costs (approximately 14.6%) for removal and replacement of the existing structure. UPBCC has already obtained a loan for the entire project cost, however, the companies now want to split project costs. Construction is anticipated to start in August 2020.



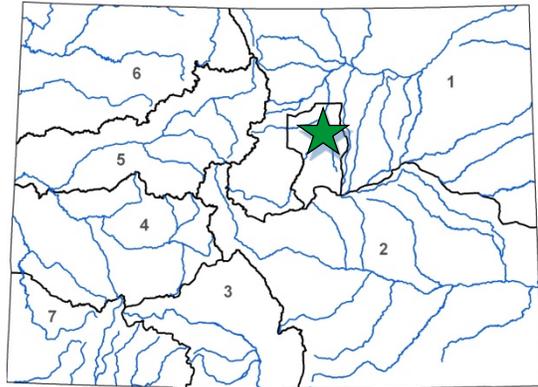


Chambers Reservoir Liner Rehabilitation

Arapahoe County Water and Wastewater Authority

May 2020 Board Meeting

L O A N D E T A I L S		
Project Cost:	\$2,500,000	
CWCB Loan (with Service Fee):	\$2,525,000	
Loan Term and Interest Rate:	20 Years @ 1.90%	
Funding Source: Severance Tax Perpetual Base Fund		
B O R R O W E R T Y P E		
Agriculture	Municipal	Commercial
0%	0% Low - 100% Mid - 0% High	0%
P R O J E C T D E T A I L S		
Project Type:	Reservoir Rehabilitation	
Preserved Storage:	1,400 AF	



L O C A T I O N			
County:	Arapahoe		
Water Source:	Cherry Creek		
Drainage Basin:	South Platte		
Division:	1	District:	8

The Arapahoe County Water and Wastewater Authority (ACWWA) was formed in 1988 to supply potable and non-potable water service and wastewater service to approximately 10,000 residents and numerous commercial and industrial customers in southern Arapahoe County and a small portion of northern Douglas counties.

Chambers Reservoir was constructed in 2010 for ACWWA, who owns and operates the reservoir for the purpose of storing alluvial aquifer well water for non-potable irrigation use within its service area. The original reservoir design included excavation below the natural ground surface, installation of a compacted clay liner, and construction of a dam across an unnamed tributary of Happy Canyon Creek. Due to design and construction defects, the reservoir was found to leak up to a calculated 27 AF per week when the reservoir was approximately ¾ full. The reservoir was subsequently drained in 2017 and a 500-foot long portion of the clay liner and reservoir side slope failed. The failure is thought to have occurred due to high groundwater from the leaking reservoir and insufficient clay liner thickness and material properties.

The proposed project includes raising the bottom of the reservoir, installing an underdrain system to capture and remove any groundwater that may damage the reservoir, and install a synthetic liner. Construction is expected to begin in summer 2020.

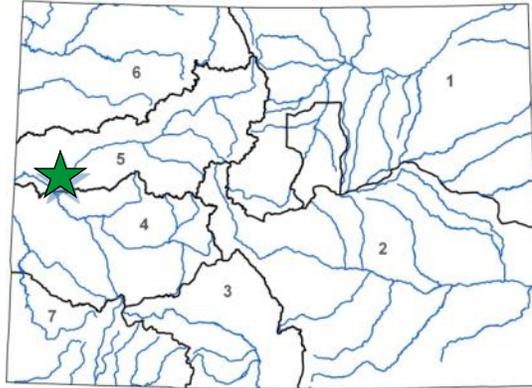




Lateral Ditch Pipeline Project

Lateral Ditch ML47, Inc.
 May 2020 Board Meeting

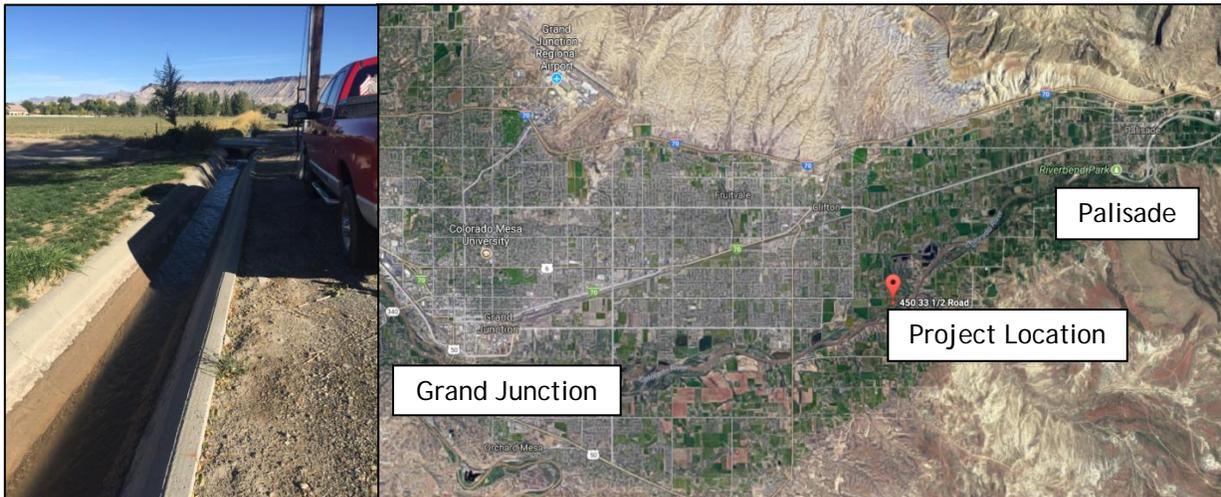
L O A N D E T A I L S	
Project Cost:	\$700,000
Initial CWCB Loan (with Service Fee):	\$707,000
Long Term CWCB Loan (with Service Fee):	\$169,000
Loan Term and Interest Rate:	30 years @ 1.60%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
50%	50% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Piping
Average Annual Diversions:	1,400 AF



L O C A T I O N	
County:	Mesa
Water Source:	Colorado River
Drainage Basin:	Colorado
Division:	5
District:	72

Lateral Ditch ML47, Inc. (Company) is a nonprofit corporation that operates and maintains a lateral serving 25 irrigators along 33 1/2 Road who grow hay, corn, alfalfa, hemp, as well as water lawns and pastures. These irrigators all own shares in the Grand Valley Irrigation Company (GVIC), which owns senior water rights on the Colorado River, and provides water to the lateral.

The lateral is primarily a concrete lined ditch, which occasionally experiences flooding when trash blows in and blocks the flow, and has developed significant cracks that leach water. The Company intends to improve the GVIC headgate, and pipe the ditch with a pressurized system to increase efficiency, safety, and improve the quality of water returning to the Colorado River while also reducing water loss, maintenance costs, and the risks and liabilities of flooding. The improved irrigation system will also allow the Company to regulate the amount of water members use, and determine if there is a need to adjust shares to meet current needs. The project will also leverage federal funding through a Bureau of Reclamation Basin States Program grant for \$538,000; however, this funding will not be paid until after construction is complete.



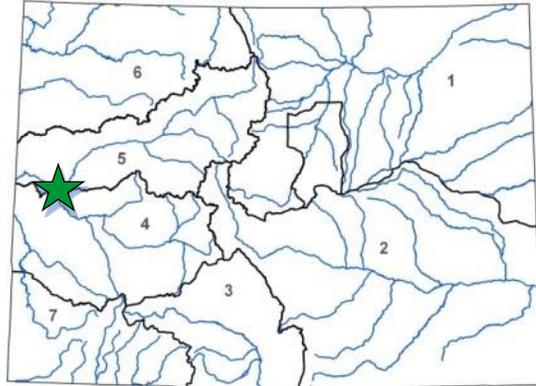


Pumpline Replacement Project

Redlands Water and Power Company

May 2020 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$860,000
CWCB Loan (with Service Fee):	\$641,350
Loan Term and Interest Rate:	20 years @ 1.65%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
28%	0% Low - 72% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Pipeline Replacement
Average Annual Diversions:	558,800 AF



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

The Redlands Water and Power Company (Company) is a non-profit corporation formed in 1905 to provide irrigation water and power to 1,970 acres of the Redlands area in the Grand Valley for residential landscaping, pasture grass, orchards and vineyards. Shareholders are predominantly located on bench lands above the Colorado and Gunnison Rivers, requiring most of the irrigation water to be pumped uphill to them. The Company system diverts approximately 800 cfs of water from the Gunnison River to its pumping plant and hydroelectric facility via the Redlands Power Canal. Of this water, approximately 60 cfs is pumped through a 48" concrete-lined steel pipe (Pumpline) to users, while the remaining water is run through the hydroelectric facility to power the pumping plant. Any extra electricity is sold to Xcel Energy as an additional revenue stream for the Company.

The current pumpline was constructed in 1944 and experiences leaks that require frequent repair. The Company replaced a portion of the pumpline in 2017, and will replace the remaining pipe with this project. This project will provide water security for shareholders since a pumpline failure would result in the majority of the service area not receiving irrigation water. The project will be funded with a loan, a previously approved WSRF grant of \$125,000, and cash reserves. Material acquisition is expected to occur over the summer with construction in the fall of 2020.



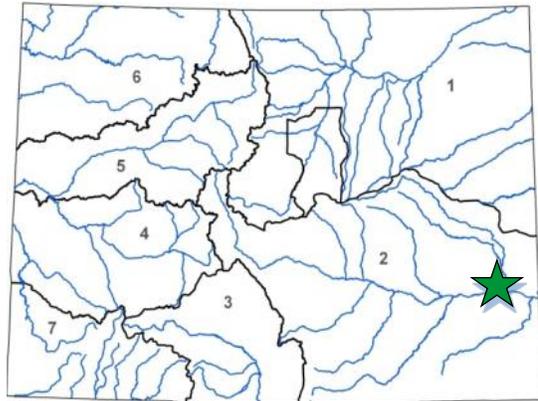


Queen Reservoir Dam Rehabilitation

Amity Mutual Irrigation Company

July 2020 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$1,330,000
CWCB Loan (with 1% Service Fee):	\$1,343,300
Loan Term and Interest Rate:	30 Years @ 3.10% ⁽¹⁾
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
50.5%	0% Low - 0% Mid - 0% High
	Commercial
	49.5%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Diversions:	44,474 AF
Storage Preserved:	35,657 AF



(1) Rate may be lowered if loan contract conditions met.

The Amity Mutual Irrigation Company was formed in 1936 as a nonprofit corporation by the shareholders of the Arkansas Valley Sugar Beet and Irrigated Land Company who originally constructed the reservoir in the late 1890s. The Great Plain Reservoir system has a total storage decree for 265,552 AF. The Company owns and operates the Amity Great Plain Reservoir System, which includes the 35,657 AF Queen Reservoir. This system serves 115 shareholders and irrigates 34,682 acres of land in Prowers County between the Town of Wiley and the Kansas border. The primary crops grown include alfalfa hay, corn, milo and wheat. Irrigating these crops provides a vital economic resource to the shareholders.

L O C A T I O N	
County:	Kiowa
Water Source:	Arkansas River
Drainage Basin:	Arkansas
Division:	2
District:	67

The dam was originally constructed in the late 1890s with documented seepage and erosion concerns at the outlet works since 1985. In July 2017, Colorado Dam Safety issued a storage restriction after an excavation above the outlet works found a void measuring several feet. This project will mitigate dam safety concerns and restore full operation of the reservoir to the Company by removing and replacing the entire outlet works. The loan includes engineering and construction of the project. Construction is expected to begin in the summer of 2021 and finish by early 2022.



Downstream Outlet Works



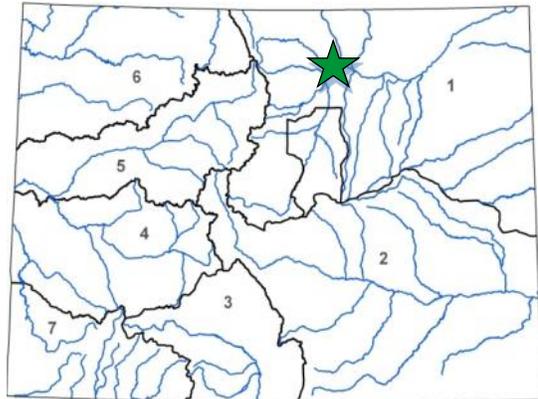


Delta Water Storage Phase 1

Fort Morgan Farms, LLC

July 2020 Board Meeting

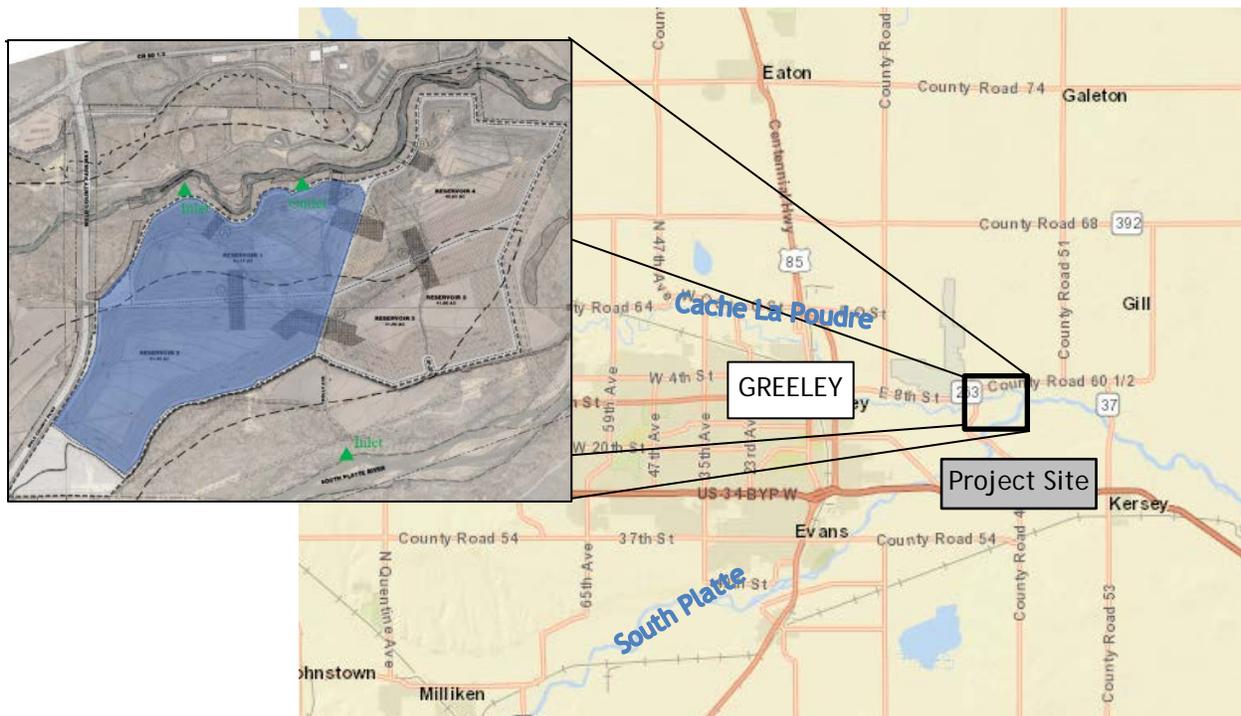
L O A N D E T A I L S	
Project Cost:	\$9,981,000
CWCB Loan (with 1% Service Fee):	\$9,071,820
Loan Term and Interest Rate:	30 Years @ 1.30%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
100%	0% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	New Reservoir
Storage Created:	750 AF (5,750 AF eventual)



Fort Morgan Farms, LLC (Company) was formed in 2000 and owns and leases a combined 2,260 acres of land in Morgan County. The Company, however, is only able to actively farm 1,480 acres due to junior water rights. The Company grows corn, wheat, hay, and straw, and rents unused land to other parties.

L O C A T I O N	
County:	Weld
Water Source:	Cache la Poudre and South Platte Rivers
Drainage Basin:	South Platte
Division:	1 District: 2,3

The Company, along with water rights co-applicant High Plains Grazing, LLC, has an application pending in Water Court for water storage at the confluence of the Cache la Poudre and South Platte rivers with conditional diversions of 100 CFS from each. This phase of the project will construct inlet/outlet infrastructure and a slurry wall around an area that will provide up to 750 AF of storage. Once the land is mined for sand and gravel, however, about 5,750 AF of storage will be available. The Company does not own the land but has obtained a permanent easement for water storage in the reservoir. The loan will pay for engineering and construction, with the project expecting to begin construction in 2020.

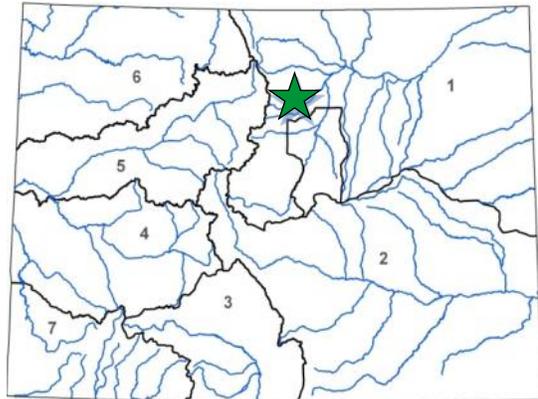




Diversion Structure Improvement

Rural Ditch Company
 July 2020 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$805,000
CWCB Loan (with 1% Service Fee):	\$813,050
Loan Term and Interest Rate:	30 Years @ 2.70%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
50%	4% Low - 15% Mid - 4% High 27%
P R O J E C T D E T A I L S	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	6,302 AF



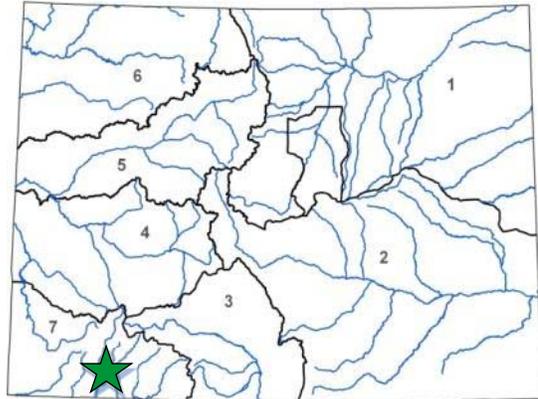
The Rural Ditch Company (Company) was organized in 1873 to deliver water to shareholders in Weld County. Currently the Company has 21 shareholders including farmers, commercial entities, special districts and municipalities that use the water for agricultural irrigation, drinking water, and augmentation.

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

The existing diversion structure was damaged and undermined during the September 2013 floods, but was still operational. Since then, the structure has continued to deteriorate and is in need of repair. This project will include engineering and construction to stabilize and repair the structure. Repairs will include rebuilding the rock dam with a center cutoff sheetpile and installing a grouted boulder apron on the downstream side of the structure. Construction is expected to begin in the fall of 2020.



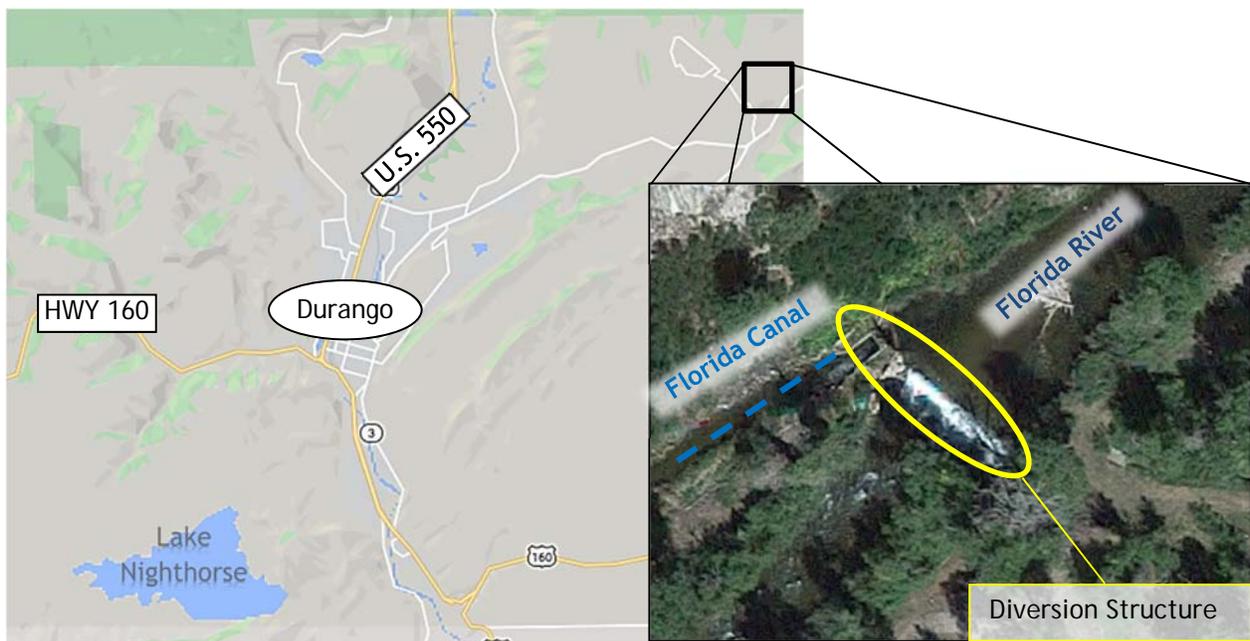
L O A N D E T A I L S		
<i>Project Cost:</i>	\$1,200,000	
<i>CWCB Loan (with 1% Service Fee):</i>	\$757,500	
<i>Loan Term and Interest Rate:</i>	30 years @ 1.30%	
<i>Funding Source:</i>	Severance Tax PBF & WSRF & WPG	
B O R R O W E R T Y P E		
<i>Agriculture</i>	<i>Municipal</i>	<i>Commercial</i>
94%	0% Low - 6% Mid - 0% High	<1%
P R O J E C T D E T A I L S		
<i>Project Type:</i>	Diversion Structure Replacement	
<i>Average Annual Diversions:</i>	10,254 AF	



The Company is a non-profit mutual ditch company established in 2014 out of the four original Florida Mesa canal companies. It owns and operates both the Florida Farmers Ditch and the Florida Canal, serving 293 shareholders and supporting approximately 16,000 acres of primarily pasture grass and hay production. The Florida Canal has pre-compact water rights totaling 80 cfs.

L O C A T I O N			
<i>County:</i>	La Plata		
<i>Water Source:</i>	Florida River		
<i>Drainage Basin:</i>	San Juan/Dolores		
<i>Division:</i>	7	<i>District:</i>	30

The existing diversion structure was constructed around the turn of the century, and currently diverts both natural streamflow and Lemon Reservoir storage water to shareholders and Project Water Users. In 2017, the timber face of the structure began to fail after a release from Lemon Reservoir and was temporarily repaired. Since then the Company has pursued a long-term solution that incorporates multi-beneficial outcomes, including removal of a dangerous low head dam and incorporation of in-stream fish passage components. Current funding for the Project will come from the CWCB loan, \$275,000 in requested WSRF grant funds, and \$175,000 in previously approved Water Plan grant funds. The Company also plans to request an additional Water Plan grant in March and a Southwestern Water Conservation District grant in November to reduce the loan to 50% of project costs. Construction is expected to begin in the fall of 2022.



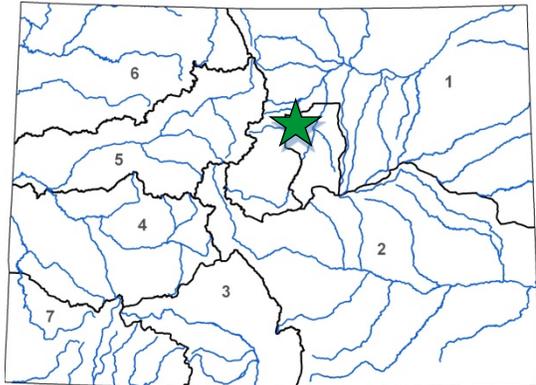


Genesee Reservoir No. 1 Enlargement

Genesee Water and Sanitation District

September 2020 Board Meeting

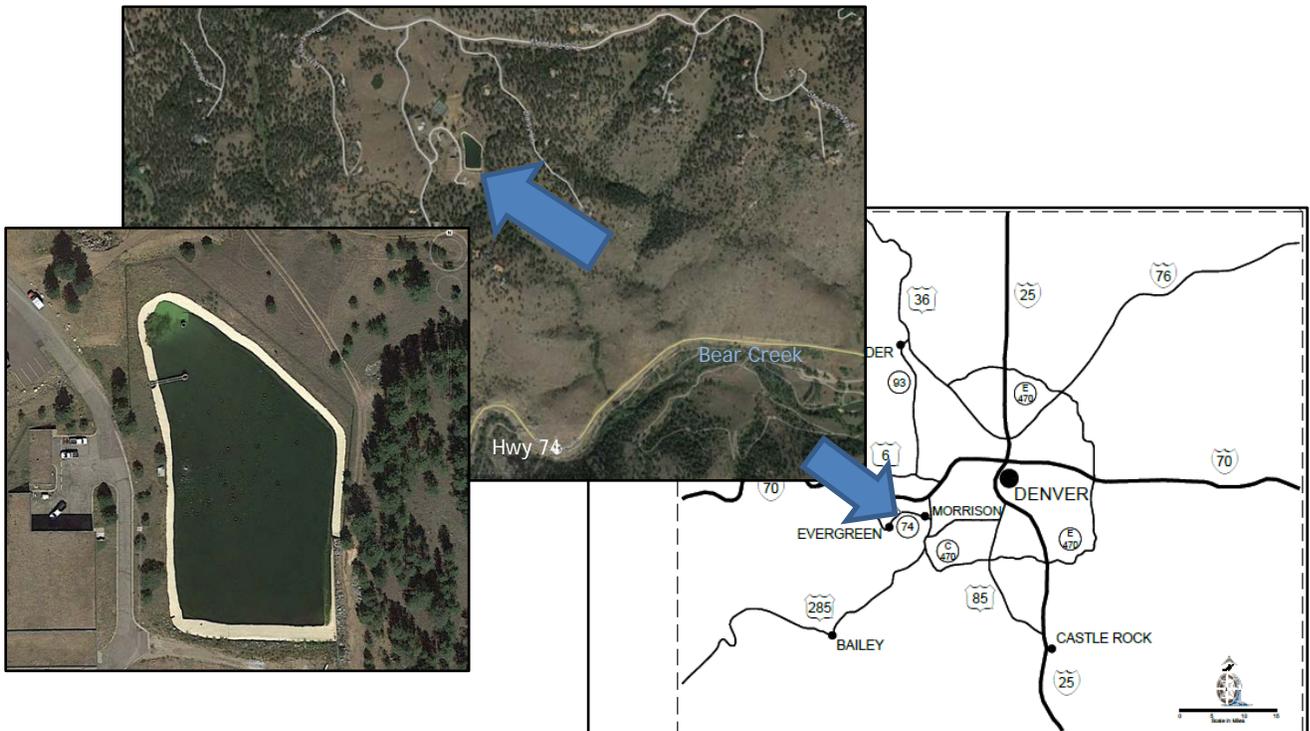
L O A N D E T A I L S	
Project Cost:	\$4,200,000
CWCB Loan (with Service Fee):	\$4,242,000
Loan Term and Interest Rate:	40 Years @ 2.50%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
0%	0% Low - 0% Mid - 100% High 0%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Enlargement
Average Annual Diversion	411 AF
New Storage:	46 AF



L O C A T I O N	
County:	Jefferson
Water Source:	Bear Creek
Drainage Basin:	South Platte
Division:	1 District: 9

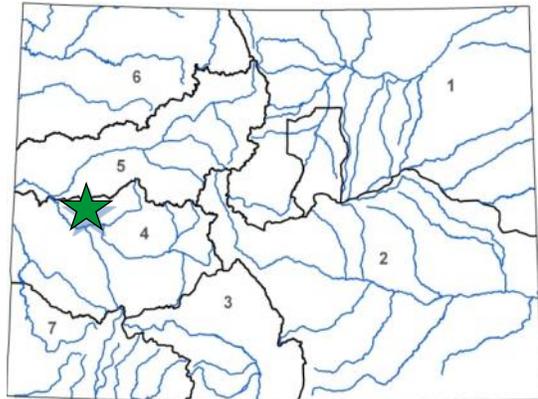
The Genesee Water and Sanitation District (District) was created in 1973 and currently services 1,442 taps and approximately 3,900 people in Genesee. Genesee Reservoir No. 1 was originally constructed in 1975 to provide a raw sewage lagoon for the District; however, it was later changed to a water augmentation reservoir for the District.

The Genesee Reservoir No. 1 Enlargement (Project) includes final design, permitting, and construction of a 30 AF enlargement to the 16AF existing reservoir. The Project includes replacement of the synthetic liner, construction of a new tie-in to the District's raw water transmission line, a 20-foot raise of the spillway, and construction of a parapet wall ranging from 8-24 feet high on top of the existing earthen dam crest to minimize changes to the downstream dam slope. This construction will increase the raw water storage in the District by almost 50%, and provide greater operational flexibility and better drought protection. The District also intends to apply for Water Plan Grant in December 2020 and if approved, the funds will go toward Project costs. Final design is expected to occur during the fall of 2020 and final construction is anticipated by fall of 2021.





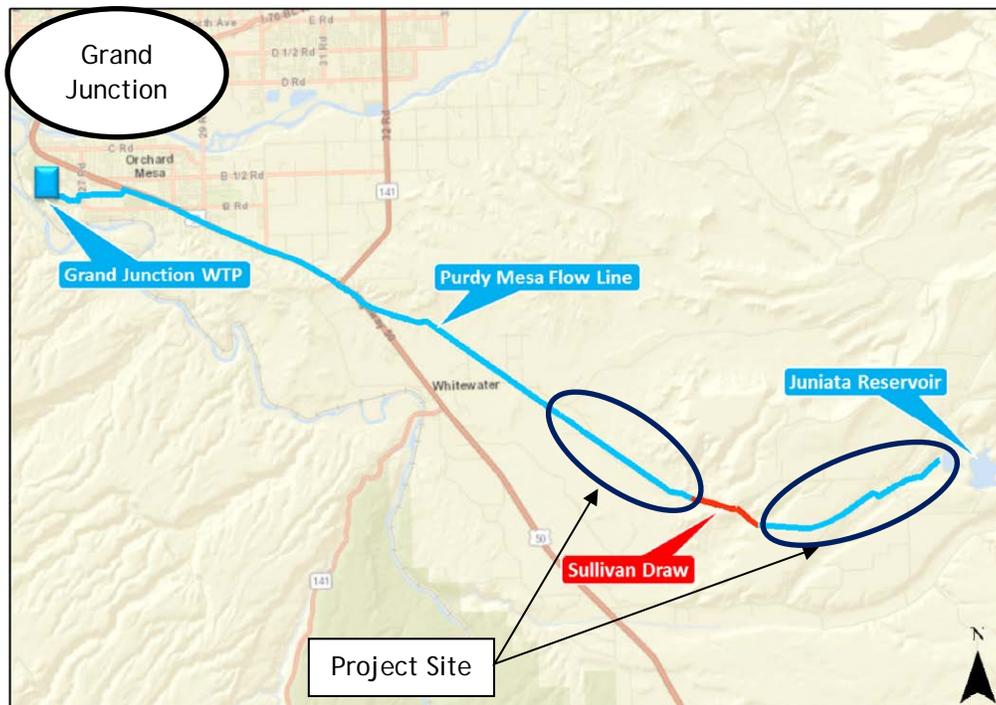
L O A N D E T A I L S		
Project Cost:	\$7,000,000	
CWCB Loan (with 1% Service Fee):	\$7,070,000	
Loan Term and Interest Rate:	20 years @ 1.50%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R T Y P E		
Agriculture	Municipal	Commercial
0%	100% Low - 0% Mid - 0% High	0%
P R O J E C T D E T A I L S		
Project Type:	Municipal System Rehabilitation	
Average Annual Diversions:	5,300 AF	



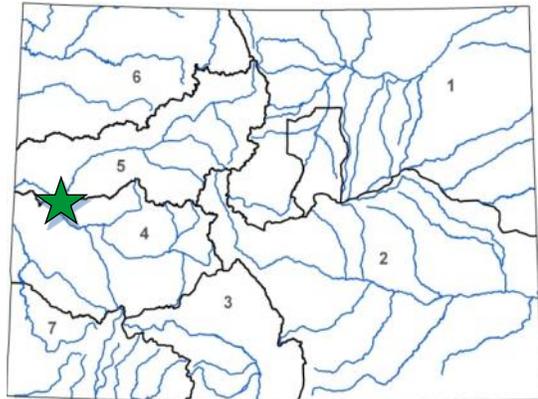
The City of Grand Junction, through its Water Activity Enterprise, has numerous water and storage rights on the Grand Mesa, as well as water rights in the Gunnison and Colorado Rivers. These rights can be used to provide for the municipal water supply needs of a portion of the City. Due to poor water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

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

The Purdy Mesa flow line, completed in 1948, is a 17.5-mile gravity transmission main from Juniata Reservoir on the Grand Mesa to the City's water treatment plant. It serves as the primary source of raw water for the service area. Approximately 11 miles of the flow line have been replaced over the last 20 years, and this loan will be used to fund replacement of the last two sections totaling 6.5 miles. This will extend the useful life of the flow line and increase the flow capacity for the growing population. Construction is expected to begin in early 2021.



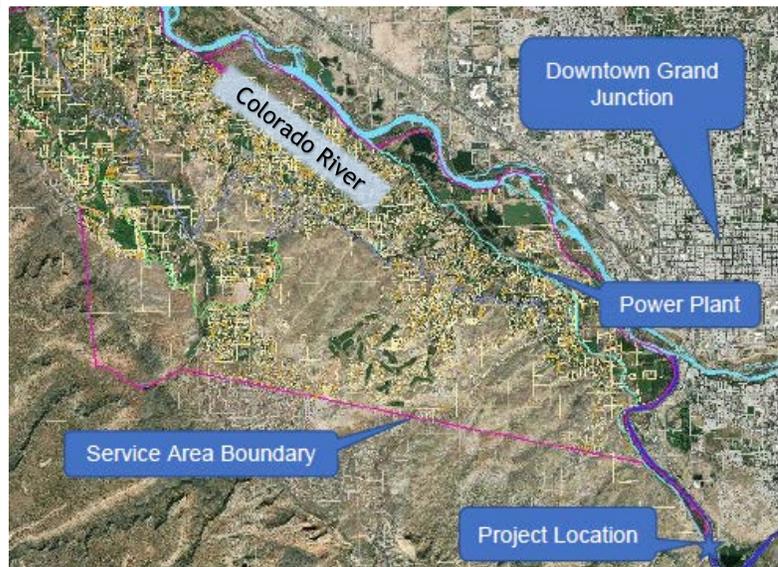
L O A N D E T A I L S	
Project Cost:	\$510,000
CWCB Loan (with 1% Service Fee):	\$404,000
Loan Term and Interest Rate:	20 years @ 1.50%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
28%	0% Low - 72% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	558,800 AF



The Company is a non-profit corporation formed in 1905 to provide irrigation water and power to 1,970 acres of the Redlands area in the Grand Valley for residential landscaping, pasture grass, orchards and vineyards. Shareholders are predominantly located on bench lands above the Colorado and Gunnison Rivers, requiring most of the irrigation water to be pumped uphill to them. The Company diverts approximately 800 cfs of water from the Gunnison River to its pumping plant and hydroelectric facility via the Redlands Power Canal. Of this water, a portion is pumped to users, while the remaining water is run through the hydroelectric facility to power the pumping plant. Any extra electricity is sold to Xcel Energy as an additional revenue stream for the Company.

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

The four existing roller gates control the flow into the Power Canal. These gates are approximately 80 years old and are significantly corroded and approaching the end of their useful life. In the event of a failure during the growing season, the canal and power plant could be flooded, or the company would not be able to divert as necessary. The project will include the design, fabrication and installation of new roller gates, with the loan covering approximately 78% of the costs of the project. The gates will be fabricated in the fall of 2020, with installation during a planned shut down in the fall and winter of 2021.

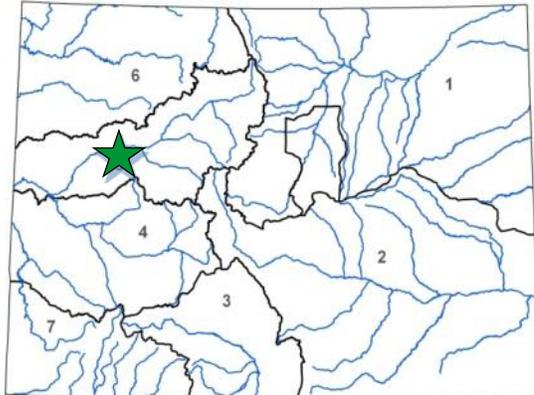




System Redundancy and Pre-Treatment Improvements

City of Glenwood Springs
 November 2020 Board Meeting

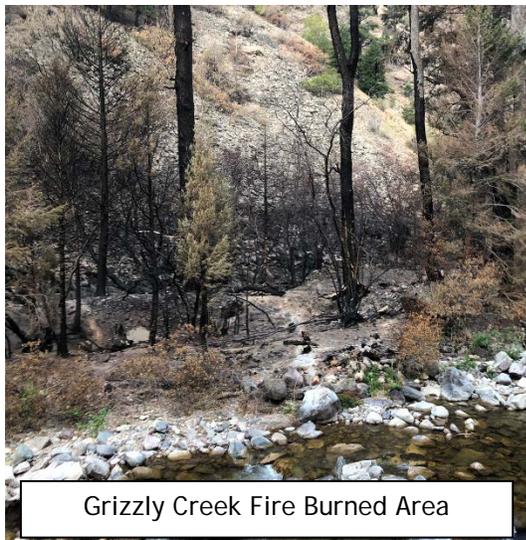
L O A N D E T A I L S	
Project Cost:	\$8,000,000
CWCB Loan (with 1% Service Fee):	\$8,080,000
Loan Term and Interest Rate:	3-yrs @ 0%, 27-yrs 1.80%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 100% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Rehabilitation
Average Annual Diversions:	2200 AF



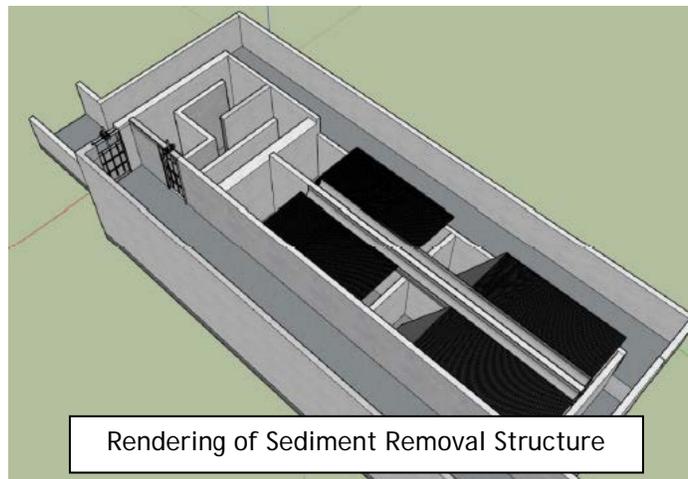
L O C A T I O N	
County:	Garfield
Water Source:	No Name Creek; Grizzly Creek; Roaring Fork River
Drainage Basin:	Colorado
Division:	5
District:	53, 38

During the unprecedented fire season of 2020, the primary source water watersheds for the City of Glenwood Springs were damaged by the Grizzly Creek Fire. The City is in need of immediate funding to construct raw water collection and transmission system improvements to ensure that the City can reliably provide domestic water despite spring runoff from these burn scar areas.

This project will include construction of a redundant pumpline from the primary source watersheds, and sediment removal infrastructure throughout the raw water collection and transmission system. The loan will be structured to provide needed funding for design and construction, while allowing for incorporation of future grant funds from state and federal sources to reduce the final loan amount. Construction will begin in November of 2020, with completion anticipated in the spring of 2022.

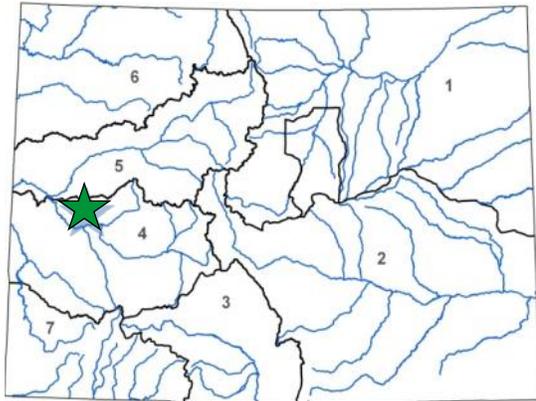


Grizzly Creek Fire Burned Area



Rendering of Sediment Removal Structure

L O A N D E T A I L S	
Project Cost:	\$3,350,000
CWCB Loan (with 1% Service Fee):	\$3,030,000
Loan Term and Interest Rate:	10 years @ 1.00%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	5300 AF
Preserved Storage:	637 AF



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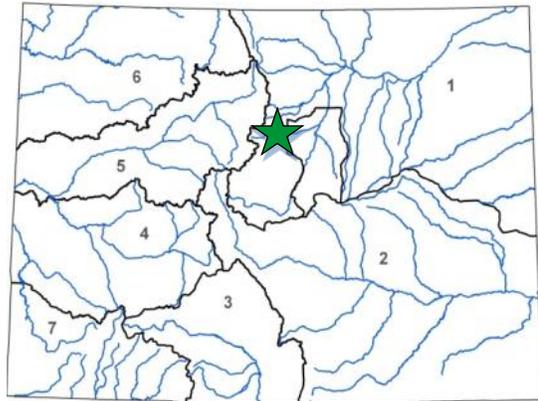
L O C A T I O N	
County:	Mesa
Water Source:	Kannah Creek
Drainage Basin:	Gunnison
Division:	4
District:	42

The City of Grand Junction owns and operates Carson (a.k.a. Hogchute) Reservoir located in the Grand Mesa National Forest. The reservoir provides water storage for the City's domestic water supply, downstream irrigation use, and fishing recreation. The dam is classified as high hazard and is currently rated as "Conditionally Satisfactory" by the State Engineer's Office (SEO); however, SEO has provided guidance for needed dam Improvements to avoid a potential future storage restriction. The loan will be used to address these improvements including rehabilitating the existing spillway, outlet works, and toe drain seepage collection system in addition to installing an early warning system. Construction is expected to begin in the summer of 2021.





L O A N D E T A I L S		
Project Cost:	\$7,750,000	
CWCB Loan (with 1% Service Fee):	\$3,535,000	
Loan Term and Interest Rate:	30 years @ 2.05%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R T Y P E		
Agriculture	Municipal	Commercial
0%	0% Low - 0% Mid - 100% High	0%
P R O J E C T D E T A I L S		
Project Type:	Dam Rehabilitation	
Average Annual Diversions:	185 AF	
Storage Preserved:	31 AF	



L O C A T I O N	
County:	Jefferson
Water Source:	Beaver Brook
Drainage Basin:	South Platte
Division: 1	District: 7

The Lookout Mountain Water District (District) was created in 1988 to serve a primarily residential area historically served by the City of Golden using their infrastructure. The District serves a 1,600 resident population with approximately 12 miles of pipeline.

Three reservoirs provide a total capacity nearly 530 AF.

The existing Lower Beaver Brook Reservoir is a concrete-faced rockfill structure originally constructed in 1903 and is the District’s raw water supply to its domestic water treatment plant just downstream of the dam. The dam is classified as high-hazard and is under a compliance plan with the State Engineer’s Office. The loan, in combination with FEMA Pre-Disaster Mitigation grant funding, will construct a replacement roller compacted concrete (RCC) dam with an enlarged spillway in order to protect the downstream population and reduce storage loss from leakage. The Project will also include modifying the Upper Beaver Brook outlet works to provide water to the treatment plant during construction and install a SCADA system to optimize operations. A Water Supply Reserve Fund grant for \$150,000 was approved in the September 2020 CWCB meeting. Construction is expected to begin early spring of 2021.

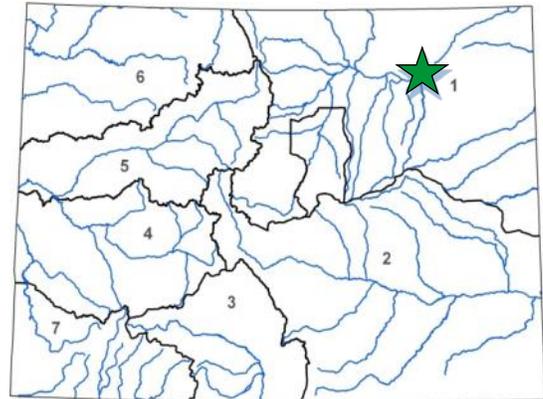




Kiowa Creek Dam Rehabilitation

Orphan Wells of Wiggins
 November 2020 Board Meeting

L O A N D E T A I L S		
Project Cost:	\$147,000	
CWCB Loan (with 1% Service Fee):	\$148,470	
Loan Term and Interest Rate:	30 Years @ 1.15%	
Funding Source:	Severance Tax Perpetual Base Fund	
B O R R O W E R T Y P E		
Agriculture	Municipal	Commercial
100%	0% Low - 0% Mid - 0% High	0%
P R O J E C T D E T A I L S		
Project Type:	Dam Rehabilitation	
Average Annual Kiowa Creek Diversions:	800 AF	



The Orphan Wells of Wiggins, LLC (Company) was incorporated in 2003 to build a recharge system that generates augmentation credits for shareholders who own junior wells in areas not served by an agricultural ditch system. This recharge system pumps water from a recharge well to recharge ponds during the winter months where it infiltrates to groundwater. This water reaches the South Platte during the irrigation season in order to offset shareholder well withdrawals. In case of an immediate need to offset depletions the Company can pump water from an augmentation well directly to the river. The Company has 15 members and 225 shares.

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

The loan will pay for repairs to the Kiowa Creek Recharge Project site for dam safety concerns. Kiowa Creek Recharge Facility includes five ponds and dams. Repair on the non-jurisdictional dams is strongly encouraged by the State Engineer’s Office Dam Safety Branch after the dams have failed multiple times and most recently in the spring of 2020. Construction began on the Kiowa Creek dam repairs in July 2020. The anticipated completion time of the Project is the spring of 2021.

