C O L O R A D O

Colorado Water Conservation Board

Department of Natural Resources

DIRECTOR'S REPORT

July 2019

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

STATE OF COLORADO

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: Rebecca Mitchell
Andrew Rickert

DATE: July 17-18, 2019

SUBJECT: **Agenda Item 5d, July 2019 CWCB Board Meeting Director's Report**

~TABLE OF CONTENTS~

- CO Water Loss Initiative
- Land/Water Planning Nexus
- Direct Potable Reuse

Pg. 9 – WATERSHED AND FLOOD UPDATES

- Mapping Update
- Chaotic Snowmelt Season Ends as Attention Shifts to Thunderstorm Season
- 2013 Flood Recovery Update
- Colorado LiDAR Update

Pg. 14 – AGENCY UPDATES

- Platte River Recovery Implementation Program Reauthorization
- Presentation on ISF Program at NWCCOG Q/Q Board Meeting
- Contract Exchanges Discussion

Pg. 15 – 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

Pg. 15 - 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

~STATEWIDE~

CWCB SMALL FEASIBILITY STUDY GRANT FUND UPDATE—
New grant applications approved:

1. Redmesa Reservoir and Ditch Company – Redmesa Reservoir Evaluation ($24,500)

Previously approved grants in FY18/19:

1. Logan Irrigation District – Prewitt Reservoir Rehabilitation ($29,512)
2. Town of Oak Creek – Sheriff Dam Rehabilitation ($50,000)
3. Silt Water Conservancy District – Harvey Gap Reservoir Upgrades ($13,400)
4. Evergreen Metro District – Evergreen Dam Evaluation ($50,000)
5. Little Thompson Water District – Dry Creek Reservoir Expansion ($25,500)
6. Lower Arkansas Water Management Association – West Farm Gravel Pit ($9,500)
7. Roxborough Water and San District – Lambert Reservoir ($46,275)
8. Genesee Water and Sanitation District – Genesee Water Storage Dam and Reservoir No. 2 ($37,387)

Total funds approved for feasibility study grants in FY18/19: $286,074. *(Anna Mauss)*

~COLORADO RIVER BASIN~

COLORADO RIVER WATER USE—

2019 Colorado River Storage as of June 30th, 2019			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1,084.71	10.405	40%
Lake Powell	3,611.82	12.914	53%
Total System Active Storage		31.640	53%
2018 Total Active Storage		30.400	51%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell (Forecasted Water Year 2019)		13.824	128%

Forecasted CY 2019 Lower Basin Consumptive Use		
State	Use (MAF)	Total (MAF)

Arizona		**2.504**	
California			
California Agricultural	3.402	**4.017**	**6.775**
Metro. Water District	0.602		
Other	0.013		
Nevada		**0.254**	

***Note MAF = million acre-feet

UPPER COLORADO WILD AND SCENIC STAKEHOLDER GROUP UPDATE— The Upper Colorado Wild and Scenic Stakeholder Group (SG) continues to make progress towards developing final Outstanding Remarkable Values (ORVs) indicators and Resource Guides related to recreational fishing and floatboating. The SG held its quarterly meeting on June 21, 2019—discussions included the role of Resource Guides, progress towards development of final ORVs, and ways to increase SG and subcommittee efficiency and reduce redundancy after the provisional period. The SG also approved its 2019/2020 funding requests. The SG plans to submit two Purchase Order requests from the CWCB Wild and Scenic Rivers Fund for the upcoming fiscal year; both Purchase Orders will come in around $100k.

The SG discussed the role of Resource Guides in the final Management Plan. Resources Guides are currently defined as "flow, temperature, and water quality ranges…to inform SG discussions under the Plan". The discussion included whether Resource Guides or other data can be used in determining significant risk of ORV impairment and the role of Resource Guides in informing management actions. This discussion will continue at the SG's next quarterly meeting in August.

The SG also completed a significant milestone by approving the final recreational fishing ORV, with a recommendation to use a 95% confidence interval for catch per unit effort. Strategies to increase SG and subcommittee efficiencies and reduce redundancy will be reviewed by the Executive Committee including ways to improve pre- and post-provisional period plan structure, committee organization including Data Review Groups, committee membership, and decision-making. The SG also finalized its 2018 Annual Report and Monitoring Report. (*Jojo La*)

RECENTLY DECREED ISF WATER RIGHTS ON ABRAMS CREEK — On June 16, 2019, the Division 5 Water Court decreed instream flow (ISF) water rights to the CWCB on a reach of Abrams Creek in Case No. 18CW3198 for 0.75 cfs (05/01 - 09/30), with an appropriation date of January 22, 2018. The upstream terminus is Abrams Creek's headwaters, and the lower terminus is the Mrs. Paye Ditch headgate. This reach is approximately 3.95 miles long and flows in a northeasterly direction through parts of Eagle County. This water right is in addition to an existing ISF on Abrams Creek decreed in Case No. 80CW0118, with an appropriation date of March 17, 1980, to the CWCB for 0.50 cfs (11/-12/31). The Bureau of Land Management (BLM) recommended an increase to the existing ISF for the betterment of the self-sustaining population of genetically pure Colorado River Cutthroat Trout – Green Lineage (Oncorhynchus clarkia pleuriticus) located in Abrams Creek. An improved flow regime will also be achieved through the implementation of the Abrams Creek project. The Abrams Creek project is an irrigation delivery efficiency project that has been facilitated by Trout Unlimited. The project commits Buckhorn Valley Metropolitan District No. 1, the owner of the JPO Ditch, to forego 40% of its Abram Creek diversions and curtail all diversions if flows are at or below 1.25 cfs. The CWCB granted a significant amount of funds to the Abrams Creek project from the Water Supply Reserve Account and the Fish and Wildlife Recovery Fund.

~ SAN MIGUEL/SAN JUAN/DOLORES RIVER BASIN ~

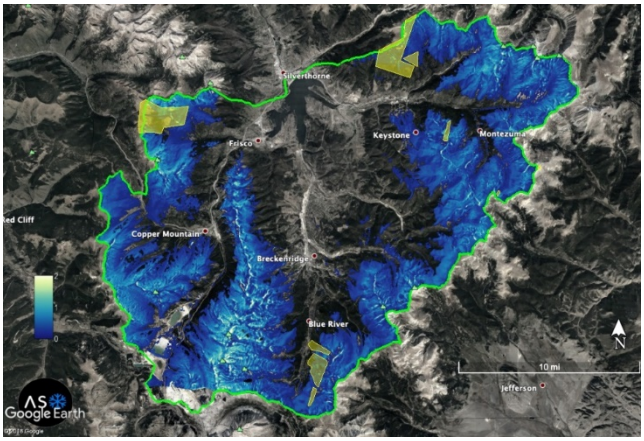
LOWER DOLORES WORKING GROUP UPDATE— The Lower Dolores Plan Working Group's Drafting Team, appointed by the Group's Legislative Subcommittee, completed the latest version of the draft National Conservation Area (NCA) legislation in December 2017. The Group continues to conduct outreach and education on the proposal, which Dolores and San Miguel Counties continue to support.

The Native Fish Monitoring and Recommendation Team (M&R Team) met in April 2019 to discuss projected accomplishments at the range of forecasted reservoir releases. The M&R Team also discussed multi-faceted native fish monitoring, a potential early release of water for thermal cooling to keep native fish from spawning in advance of the managed release, boating releases that will also allow Slickrock Canyon to be resurveyed, and the use of a pulse of water at the right time to disrupt smallmouth bass reproduction. All of these measures comport with the Native Fish Implementation Plan.

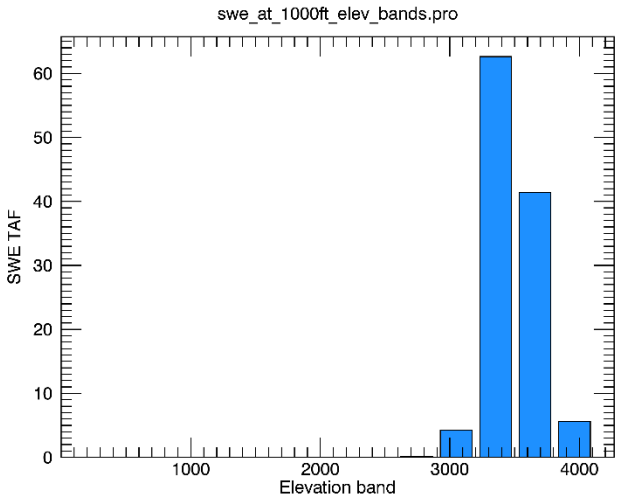
Water was released for boating over Memorial Day, with an extended release beginning June 6 and likely ending in late June or early July. Throughout the release, a subgroup of the M&R Team, including boating advocates, fishery managers, recreation and riparian coordinators, and water managers, has been meeting weekly to make adjustments in the release, and to jointly work on the website messaging, which is updated twice weekly at: http://doloreswater.com/releases/. All 2019 updates will remain posted to document the evolution of the release and set the stage for post-season evaluations. The M&R Team has developed hydrographs with flow objectives for different release rates. To date, the 2019 release exceeded 100,000 acre-feet, and all of the flow targets in the release range will be met. (*Linda Bassi)*

~ GUNNISON RIVER BASIN ~

SNOW MAPPING IN BLUE RIVER AND GUNNISON BASINS — This year Denver Water and the CWCB teamed up to hire both NASA Aerial Snow Observatory and Quantum Spatial as a team to collect, process, and analyze snow data for two flights each. One peak and one late melt in both the Gunnison and Blue River basins.



From June 24th 2019 flights snow depth was calculated using densities from the LIDAR flights. The snow depths were converted to SWE using densities at SNOTEL sites. The elevation profile shown in the bar graph from late June shows substantial amounts of snowpack above in the 9,500-14,000 feet elevation band. The total SWE left in the Blue River watershed is still about 114,000 AF still remaining as of June 24. That presents just under half of the full pool volume at Dillon Reservoir. It is a good water year. (Joe Busto)



~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE—

Two grant applications have been received since the May 2019 Director's Report

- **St Charles Mesa Water District** – Water Meters Upgrade
- **Town of Bayfield** – Drought Management Plan
- **Water Education Colorado** – Land Use Planning Addendum Workshops for Covered Entities

Two grants were approved since the May 2019 Director's Report:

- **City of Evans** – Water Efficiency Plan Update ($30,000)
- **Water Education Colorado** – Land Use Workshops & Webinars ($47,301)

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

- **Town of Olathe –**Water Efficiency Plan – *Final Plan Submitted for Approval*
- **4CORE –** Rainwater Harvesting Demonstrations **–**50*% & 75% Progress Reports*
- **City of Thornton –** Drought Management Plan **–** *Final Plan Submitted for Approval*
- **City of Alamosa –** Water Efficiency Plan Update **–** *50% Progress Report*
- **Town of Eagle –** Water Efficiency Plan **–** *50% Progress Report*

(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

- City of Thornton

Drought Management Plans In Review:

- No Drought Management Plans are currently under review.

WATER EFFICIENCY PLANS:

Approved Plans:

- **North Weld County Water District**
- **City of Cortez**

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.

- **Rifle**
- **Town of Superior**

Water Efficiency Plans in Review:

- **Widefield Water & Sanitation District**
- **Town of Olathe**
- **City & County of Broomfield**
- **City of Lamar**

(*Kevin Reidy & Ben Wade*)

GOVERNOR'S WATER AVAILABILITY TASK FORCE— The next Water Availability Task Force meeting will be on July 23 from 9:30am-11:00am at the Colorado Parks & Wildlife Headquarters 6060 Broadway, Denver, CO. Please check the website (http://cwcb.state.co.us/public-information/flood-water-availability-task-forces/Pages/main.aspx) for additional information. *(Ben Wade)*

DROUGHT UPDATE— For the first time in nineteen years, the U.S. Drought Monitor Map of Colorado has officially been free of D0-D4 for four weeks. The month of May brought cool temperatures across the state and midwest. Not far behind, June has delivered lower than average temperatures and increased precipitation in the form of rain and snow. The last week of June is anticipated to be fairly dry and warm following below average temperatures and above average precipitation. Streamflows are forecast to continue to increase from precipitation and remaining snowpack melt. Current reservoir storage is near normal.

- June has been completely free of D0-D4. The smallest amount recorded of D0 last occurred in May 2001, when only 0.13% of our state showed D0.
- A weak El Niño is in effect and forecast to remain through the fall. There is an increased chance of cool and wet extremes from July to September.
- The Yampa and White River Basins have accumulated 227 percent of average precipitation from the beginning of June to date while the Gunnison Basin has only received 78 percent of average precipitation this month. This is historically a drier time of year in both these basins.
- As of June 24th, the precipitation in June is 150 percent of average. The upcoming months of July, August, and September are projected to have an increased chance of above average precipitation as well. July and August are considered critical months of the year, as they are the wettest for the eastern plains.
- Current SNOTEL Water Year to-date precipitation is 124 percent of average, with all basins above average. June has been a wet month across the far eastern plains. According to SNOTEL, the 12 percent of this

year's remaining snowpack continues to melt. The 2019 peak snowpack ranked 6th at 130 percent median among the last 34 years. (*Taryn Finnessey*)

DROUGHT ECONOMIC IMPACTS ASSESMENT 2018— A multi-agency (DNR, CDA, OEDIT, DOLA) study is currently underway examining the economic impacts of the 2018 drought to agriculture and tourism and recreation. Preliminary results have been presented to staff and a final report will be available later this summer. This is being done in coordination with a broader regional southwestern analysis. (*Taryn Finnessey*)

COLORADO FUTURE VULNERABILITY STUDY — An RFP was issued in June and a contractor has been selected to move forward with this study over the next nine months. Meagan Holcomb will be taking over as the technical staff lead on this project as Taryn transitions out of her role with the State. (*Taryn Finnessey*)

CO WATER LOSS INITIATIVE— Kevin Reidy has started the CO Water Loss Initiative which will culminate in a 2-year training and technical assistance water loss control program for water providers across Colorado. Kevin convened a small advisory group to weigh in on the scope of work and to assist with the development of the programming. Approximately 120 water providers have signed up so far for the training. The first round of 8 workshops was completed in mid-May and were a resounding success. We have heard some great feedback from the participants as to the value and thoroughness of the program. At present, the consultant team is working through the one-on one technical assistance sessions with each participant utility to ensure the water loss audit data from the participating utilities is correct and valid. This represents phase Two of the Four phase project. Phase Three will consist of another round of in-person workshops in the fall of 2019 and another round of technical one-on-one meetings (Phase Four) happening in spring 2020. The initiative is still accepting participants so please spread the word *(Kevin Reidy)*

LAND/WATER PLANNING NEXUS— Kevin Reidy is working with counterparts from DOLA to create trainings and other related projects specified in SB 15-008 (AKA the land use bill). This bill stated that the CWCB and DOLA would create trainings for land use and water planning professionals in order to incorporate water conservation and demand management best practices into land use planning. Additional work is as follows:

- Sonoran Institute, through a CWCB water plan grant, has extended their Colorado Growing Smart initiative to carry out 3 more additional workshops over the nest 18-24 months. Kevin is on the advisory group for these trainings. The next training will take place in Estes Park September 11-13, 2019. As part of the same water plan grant, the Sonoran Institute is also designing a stakeholder process that will evaluate and ultimately select a set of metrics that community and state officials can use to track their progress in meeting the state water plan goal. The advisory team held a stakeholder workshop on June 5, 2019 that was well attended covering a lot of material.
- Water Education Colorado and the Babbitt Center are teaming up with CWCB to implement several workshops and webinars through the end of the year to train local governments on integrating a land use element into their local water efficiency plans. These trainings will be based on the *Best Practices for Implementing Water Conservation and Demand Management Through Land Use Planning Efforts-Addendum to 2012 Guidance Document* presented to the board in January 2019. (*Kevin Reidy*)

DIRECT POTABLE REUSE— Through a water plan grant, Reuse Colorado has convened stakeholders along with CDPHE and CWCB to create a regulatory framework for direct potable reuse in Colorado. This project has also enlisted a panel of experts from across the nation to weigh in on the discussions and make recommendations on

how to create the regulations and what should be in them. The final panel meeting will take place in October with the final report from this effort completed by the end of this year. (Kevin Reidy)

~WATERSHED AND FLOOD UPDATES~

MAPPING UPDATE—

FY19 Activities: The CWCB submitted nearly $7 million for FY19 FEMA grant funding for Risk Map projects. FEMA is currently reviewing submittals from Region 8 to determine which projects will receive funding. FEMA will notify recipients in early July regarding approved projects.

FY18 Activities: The CWCB was awarded $5.5 million from FEMA in their FY18 cycle for Risk Map projects. The following is a list of the FY18 Risk Map projects:

The CWCB received a $231,823 from FEMA for Project management tasks. This also includes $80,000 allocated to the Division of Water Resources Dam Safety office for a pilot project.

$350,000 was awarded to fund Delta County Risk Map Phase 2, which will include data development tasks such as hydrology, hydraulics, and floodplain mapping throughout Delta County. Delta County Risk Map Phase 2 includes 41.5 river miles of enhanced flood study, post-fire flooding analysis, and an evaluation of sediment-bulked flooding.

The Upper White Watershed Risk Map project received an additional $70,000 from FEMA to conduct analysis on two levees that were discovered within Rio Blanco County during the routine hydraulic analysis. The updated mapping results in a significant amount of shallow flooding in Rangely and the CWCB and FEMA are currently working with the local communities to discuss results of the hydrology analysis.

The Cache La Poudre Risk Map project is also receiving additional funds to address local community comments. A total of $195,000 of FEMA funding is awarded to resolve the comments and complete the Risk Map project for Cache La Poudre. The CWCB mapping contractor has addressed comments and submitted to FEMA for their review. Additional community review is currently taking place and the CWCB and FEMA are awaiting the additional comments.

Analyzing levees continue to be a challenge for the Risk Map program. Fortunately, FEMA provides funding and resources to help Cooperating Technical Partners (CTPs), such as the CWCB to assess levee pre-certification options. The CWCB received $275,000 from FEMA to evaluate the Templeton Gap levee in Colorado Springs. A portion of this funding will also be used to conduct a high level base level engineering analysis for Teller County. This grant covers both Colorado Springs, El Paso and Teller Counties. A kick off meeting for the Templeton Gap levee took place in early April with Colorado Springs designated officials and hydraulic analysis is under way.

For the Animas River watershed, FEMA has awarded $295,000 to complete this project through effective mapping. Phase 2 of this project was funded in 2017 and currently the mapping contractor is working through additional hydrologic and hydraulic analyses.

FEMA has awarded the CWCB $620,000 to complete the regulatory update for CHAMP Phase 3 projects through floodplain mapping and effective.

The CWCB funded regional hydrology updates for the Arkansas River from the headwaters near Leadville, Colorado to the Kansas State line as well as the Colorado River from Granby to the western border of Mesa County. The CWCB leveraged this work to obtain funds from FEMA this year to study the Arkansas River hydraulics and floodplain mapping. $340,000 was awarded for this effort. Garfield County Phase 3 received $346,752 from FEMA and this effort will include completing this Risk Map project through effective maps.

The CWCB has funded a hydrology update for the Yampa River basin. Work is underway currently, with paleo work conducted by Dr. Bob Jarrett.

As the project list continues to expand, the engagement and outreach needs also increase. FEMA is awarding $315,000 to the CWCB for outreach and community engagement activities for ongoing and new projects.

FY17 Activities: The CWCB received a $212,558 grant from FEMA to provide an updated hydrologic and hydraulic engineering and floodplain mapping for the Roaring Fork River and floodplain mapping services for the Colorado River within Garfield County (Phase 2). A kick off meeting was held on April 5, 2018 and survey data has been collected. The hydrology analysis has been approved by FEMA and Wood is currently working on the hydraulic analysis. FEMA has awarded the CWCB funds for Phase 3 of this project in FY 2018.

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, Logan, Larimer, Morgan, Weld, Washington, and Sedgwick Counties. The preliminary distribution for the Little Thompson River in Larimer County took place in January and the Consultation Coordination Officer (CCO) meeting took place in April. The CWCB is working with Larimer County to schedule a public meeting before the project enters in the appeal period. The Jefferson County PMR will be entering the Appeal Period shortly, awaiting the Federal Register.

The CWCB previously funded a Discovery project in the Animas River Watershed. From that effort, the local communities were able to identify several mapping needs. FEMA awarded CWCB $654,717 to fund the proposed projects that identified from the Discovery effort. This is Phase 2 and includes updated hydrologic and hydraulic engineering, (including post-fire conditions for Junction Creek), updated floodplain mapping, and sediment-bulked flooding along the Animas River, and an evaluation of ice jamming conditions in Silverton. Field survey work has been completed and additional coordination with local communities has taken place to determine if additional work to include impacts from the wild fires is needed. FEMA has awarded the CWCB funds for Phase 3 of this project, which will cover tasks through effective mapping.
The CWCB is funding a regional hydrology update for the Arkansas River from the headwaters near Leadville, Colorado to the Kansas State line. The CWCB is working with Wood (formerly Amec Foster Wheeler) on this analysis. The final report has been approved by FEMA. The final report is available on the CWCB website.

FY16 Activities: Upper White Watershed Risk Map Phase II preliminary map issuance will be delayed. A revised scope of work was submitted and approved by FEMA to conduct additional analysis. A meeting with the community officials took place in mid-December 2018 and a significant amount of coordination and discussion has taken place between Rangely, CWCB and FEMA regarding the hydrology analysis. A revised updated hydrology is being finalized by CWCB's mapping contractor and will be sent to FEMA and the local community for review

concurrently. The funds from Phase 2 grant have been expended and work moving forward will be funded under Phase 3.

CWCB received $3.4 million FEMA grant for LiDAR acquisition in Colorado for future floodplain mapping projects. This 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)

A regional hydrology study update on the Colorado River near Granby to the border with Utah has been completed and the results have been approved by FEMA. The CWCB has met with nearly every local community affected by this update. Final results are available for viewing on the Colorado Hazard Mapping website and on the CWCB website. A CLOMR process is underway to conditionally accept the hydrology results with FEMA.

FY15 Activities: The Cache La Poudre Phase III project funds were re-scoped to address comments from Fort Collins, City of Greeley, and the City of Windsor. Comments are now being addressed and an updated schedule for this project will be provided this Fall 2018. FEMA provided additional funds for this effort in FY 2018.

Upper Gunnison Risk Map Project Phase 2 hydraulic tasks were recently submitted to FEMA for review. Draft results show increased flood risk throughout the Town of Crested Butte. The model was done in 2D and the mapping contractor is working on refining the results. A Flood Risk Review with local community officials took place on February 11, 2019 and the mapping contractor is working with the Town to incorporate their latest construction work.

FY14 Activities: The erosion zone study for the Salt Creek Wash near the Town of Collbran in Mesa County was approved by FEMA. This report is now available on the Risk Map website.

FEMA has provided funding to conduct a countywide approximate floodplain mapping for El Paso County, referred to as a Base Level Engineering (BLE) study. A part of this grant funding will be rescoped to fund the revised preliminary project for the El Paso County DFIRM project, which became effective on December 7, 2018. (*Thuy Patton*)

CHAOTIC SNOWMELT SEASON ENDS AS ATTENTION SHIFTS TO THUNDERSTORM SEASON — 2019 will forever be regarded as a year of high statewide snowpack and late season melting. One would have to go back as far as 1997 to find a year that showed consistently high snowpack around the state. Some of the watersheds, particularly those in Southern Colorado experienced daily snowpack records at certain times of the year, although no peak season records were broken. By the time runoff season started, all major river basins were above 130% of normal, with southern basins all over 150%.

As if that weren't enough, unseasonably cool late spring weather statewide significantly stalled the runoff process. Indeed, most river basins were not in full runoff mode until after Memorial Day, and the majority of watersheds around the state did not peak until the second or third week of June. Throughout the state, most of the runoff patterns followed fairly predictable paths, although they were often shifted by 5-6 weeks, meaning the snowpack in most areas was typically consistent of what could be expected to be found 5-6 weeks earlier in an "average" year. Because significant warm-ups were not experienced until the final week of June, widespread runoff floods were avoided.

Added to the mix this year were the unprecedented numbers of avalanches around the state. These were created by unique circumstances regarding the timing of snowfall throughout the season. This was significant in that many of the avalanche paths were littered with debris which it was feared could become mobile in many watersheds as runoff season progressed. Many counties implemented stream closures and monitoring plans in preparation.

The most significant area of avalanches was in Hinsdale County along Henson Creek and the Upper Lake Fork of the Gunnison River. Nearly 50 slides, many of unprecedented magnitude, created enormous debris fields for which plans are still being considered for management. Indeed, a number of these slides created what are essentially temporary glaciers which debris packed snowfields over 200 feet high in some cases. CWCB Flood Section staff participated in planning and operations to address this unusual hazard.

It was a remarkable timeline as all the conditions were present for a statewide snowmelt runoff flood disaster. However, because the weather was favorable for a long, slow, and steady runoff, only localized minor flooding events were observed.

The CWCB Flood Threat Bulletin was extensively utilized throughout this period as emergency managers at the local and state levels were hungry for predictions and information in support of mitigation decisions to address circumstances throughout the state. As a reminder, the Flood Threat Bulletin can be accessed at www.coloradofloodthreat.com

Attention now shifts to the monsoon season, which typically begins around July 10th. This shift in weather pattern is notorious for creating slow-moving, high-intensity thunderstorms capable of producing flood events. Particular attention is being placed on areas downstream of recent burn scars – especially in La Plata, Huerfano, Costilla, Eagle, and Fremont Counties. These areas are particularly susceptible to flash flooding during intense rainfalls due to the hydrophobic conditions of soils following the wildfires. *(Kevin Houck)*

2013 FLOOD RECOVERY UPDATE — In the wake of Colorado's 2013 floods the CWCB led or co-led an effort to construct 117 river restoration projects that cost over $70 million. Most of the projects were built in Larimer, Boulder, Jefferson, Weld, and El Paso Counties across eight different watersheds. The CWCB is gathering data on all projects, and nearly 25% of the projects were chosen for robust field monitoring. Staff also recently assessed many projects during a high water tour. The intent of this qualitative assessment was to determine that the projects are adequately protecting life and property, and that they are meeting the objectives defined in the realm of ecosystem restoration and enhancement. Many of the projects are performing well based on the visual inspection, however staff will rely on quantitative evidence to determine the long term efficacy.

The "harder elements" of most of the projects appear to be serving the design objectives. These elements include rock stabilization features, large wood revetments, soil lifts, and wood toe stabilization. The recovery program emphasized the need to use biostabilization methods, and restoration of riparian areas was high priority. These "softer elements" of the projects are also doing well. Most projects are meeting the plant survivability metrics established during contracting, however many areas are in need of weed control. Staff is working with the remaining watershed coalitions to adaptively manage the projects. This includes weed control, installation of native plants where necessary, temporary irrigation to improve survival rates, and removal of plants that are encroaching into the low flow channel (minor concern). At this point, staff has not identified any areas where adaptive management of the harder project elements are necessary, however this may change as the flows recede this summer.

Several of the coalitions have developed their own monitoring programs. These programs include citizen science volunteers. Citizen science is monitoring conducted through public participation under the direction of the coalitions. Staff is working with the coalitions to ensure that CWCB monitoring activities are complementary and not redundant to their own monitoring programs.

More information on the projects can be found at coloradoewp.com. Navigate to the "success story" page by clicking the bottom on the landing page. There are descriptions of the entire recovery effort, projects at the watershed scale, and individual projects as well. The resources on this page are being widely applied throughout the State, and staff has heard from neighboring states that value the resources as well. Monitoring results will likely be posted to this webpage as the CWCB and local coalitions develop information with the data being collected.

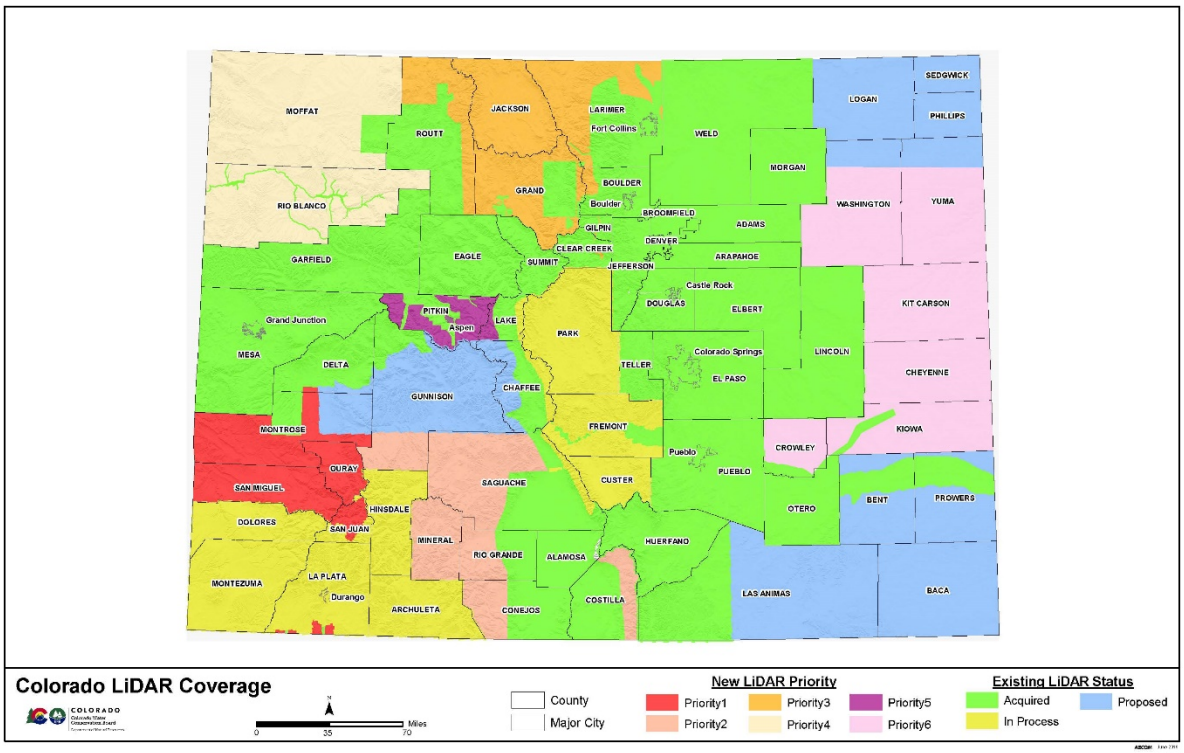
A staff presentation will be presented to the Board at the September meeting to discuss results. (*Chris Sturm*)

COLORADO LiDAR UPDATE — The CWCB was awarded approximately $534,000 from the USGS for Lidar acquisition in parts of Montrose, Gunnison, Chaffee, and Lake Counties. FEMA, State, and local funds will be contributed to this project as well.

The acquisition along eastern Colorado from Weld County down to Huerfano County is complete and final deliverables are available at www.coloradohazardmapping.com. Park, Custer and Fremont Counties are in process of being acquired and it is anticipated that Park County Lidar data is now available to the public.

The 2018 FEMA grant will be utilized this summer for a new acquisition in southeast and northeast Colorado. The CWCB has been coordinating with DRCOG to contribute funds for their 2020 proposed acquisition around the Denver metro area. With the CWCB's contribution the are acquired will be expanded to include small portions of Grand and Larimer Counties.

FEMA Region 8 may receive additional funding for Lidar and has submitted a request to obtain data in the remaining areas in Colorado that have not yet been acquired. Please see the map below for a snapshot of the LiDAR status for Colorado and the proposed and requested areas for future acquisition.



(Thuy Patton)

~AGENCY UPDATES~

PLATTE RIVER RECOVERY IMPLEMENATION PROGRAM REAUTHORIZATION — Significant progress has been made on the reauthorization of the Platte River Recovery Implementation Program in Congress. The Platte River Recovery Implementation Program Extension Act was introduced by Representative Neguse (D-CO-2) (H.R.3237) and Senator Barrasso (R-WY) (S.990). Co-sponsors of the bills include the entire Colorado delegation and delegates from Wyoming and Nebraska. These bills authorize the Secretary of the Interior to participate in the implementation of the Program, provides congressional reauthorization to extend the Program's First Increment for another 13 years (terminating on September 30, 2033), and authorizes $78,000,000 of federal appropriations for the extension.

On June 26, 2019, the Senate Energy and Natural Resources Subcommittee on Water and Power held a hearing on S.990. During the hearing, the Program received overwhelming support from Senator Barrasso and witness Kiel Weaver, U.S. Department of the Interior Principal Deputy Assistant Secretary for Water and Science, acclaiming the Program as a "model" and "marquee example of collaboration" where "its success is unquestioned" and "we need to make sure [this Program] stays".

Over 16 letters of support across the three states were submitted including a joint letter from the three governors of Colorado, Nebraska, and Wyoming. Letters from Colorado water users and non-governmental organizations

included the South Platte Water Related Activities Program (70 municipal, 20 agricultural, 10 industrial, and several water conservancy and water conservation district members), Denver Water, Northern Water, Aurora Water, Colorado Water Congress, and The Nature Conservancy. In addition, written testimony urging reauthorization was provided by Colorado Department of Natural Resources Executive Director Dan Gibbs and Wyoming Water Development Commission Acting Director Jason Mead. The House Natural Resources Subcommittee on Water, Oceans, and Wildlife is tentatively planning to hold a hearing on H.R.3237 in July.

The immediate passing of the Platte River Recovery Implementation Program Extension Act is critical because the Program's First Increment (2007-2019) is set to expire at the end of this year. The passing of a congressional bill is the last step for reauthorizing the Program. (*Jojo La*)

PRESENTATION ON ISF PROGRAM AT NWCCOG Q/Q BOARD MEETING — On June 14, 2019, CWCB staff member Linda Bassi gave a presentation on the Instream Flow Program at the quarterly Board meeting of the Northwest Colorado Council of Governments Water Quality/Quantity Committee ("Q/Q Committee") in Carbondale, CO. Attendees at the meeting included county commissioners from Grand County, Summit County, Pitkin County, and Eagle County, CWCB Board member Gail Schwartz, State Representative Julie McCluskie, and representatives of municipalities in the region. CWCB staff appreciated this opportunity for education and outreach to local governmental leaders, who asked several questions and engaged in discussion about the ISF Program.

CONTRACT EXCHANGES DISCUSSION — On July 2, 2019, the Division of Water Resources held a meeting in Pueblo, CO to hear from water users and their representatives about their operations that include contract exchanges, and their opinions regarding the State Engineer's legal authority to allow the exercise of contract exchanges and whether contract exchanges can result in material injury to other water rights, particularly river exchanges and instream flow water rights. CWCB Stream and Lake Protection Section staff attended the meeting to listen to the discussion. Also in attendance were representatives of municipalities, ditch companies, and water conservancy districts, and other interested parties. Points raised by attendees included: (1) a desire to continue practices that have occurred for many years and benefit multiple interests; (2) a desire to better understand potential injury resulting from these practices; (3) concerns over water quality problems resulting from some current practices; and (4) a need to more clearly identify the issues by cataloging current practices and developing definitions and a common vocabulary on contract exchanges. Next steps may include the formation of a smaller group to continue discussions and dig deeper into questions raised at the meeting.

~INSTREAM FLOW ATTACHMENTS~

- 01 Instream Flow and Natural Lake Level Program – Summary of Resolved Legal Protection 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

July 17-18, 2019 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; the Director has authorized the Attorney General's Office to enter into stipulations that protect the CWCB's water right(s).

A. STATEMENTS OF OPPOSITION

(1) Case No. 19CW3016 (Water Division 1) - Application of Arapahoe County Water and Waste Water Authority, East Cherry Creek Valley Water and Sanitation District, United Water and Sanitation District, and 70 Ranch, LLC.

Applicant withdrew its application for change of water rights, conditional appropriation of return flows, and plan for augmentation. The Court's Order to Dismiss was granted on May 7, 2019. The case is closed on Colorado Courts E-Filing.

(2) Case No. 89CW0230 (Water Division 1) - Application of Shambala USA, fka Vajradhatul, dba Rocky Mountain Dharma Center

The Board ratified this Statement of Opposition at its March 1990 meeting. Applicant requested Approval for Plan of Augmentation, Change of Water Rights, Exchange, Application for Underground Water Rights, and Application for Water Rights. Staff, in cooperation with the Attorney General's Office, previously negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured. This case was bifurcated and a decree was entered for Part A on December 30, 1991. This year, Applicant filed a motion to dismiss the bifurcated claim, which involves a conditional water storage right. The Court granted Applicant's Motion to Dismiss Bifurcated Claim Without Prejudice on May 6, 2019. The case is closed on Colorado Courts E-Filing.

The CWCB holds instream flow water right, including the following in Water Division 1 in the Cache la Poudre watershed, that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
W-9262 (78)	Elkhorn Creek	headwaters	confl Cache la Poudre River	2 (1/1 - 12/31)	01/19/1978

(3) Case No. 17CW0006 (Water Division 3) - Application of Adalberto Herrera

The Board ratified this Statement of Opposition at its January 2018 meeting. Applicant requests a change of water right to re-irrigate dry-up land. 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 decree was entered in this case on June 5, 2019. The case is closed on Colorado Courts E-Filing.

The CWCB holds instream flow water rights, including the following in Water Division 3 in the Alamosa-Trinchera watershed, that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate	Approp. Date
13CW3013^	Alamosa River	outlet Terrace Reservoir	hdgt Gabino Gallegos Ditch	2.5	04/15/1870
13CW3013^	Alamosa River	Gabino Gallegos hdgt	County Road 10	2.5	04/15/1870

^ 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:

- "The South Field is part of the Gabino Gallegos Ditch historical service area and, pursuant to the decree entered in Case No. 2013CW3013 and the Dry-Up Covenant recorded in the real property records of Conejos County, Colorado at Reception No. 10000940 ("2010 Dry-Up Covenant"), is encumbered with a dry-up covenant. Applicant proposes to dry-up, acre for acre, land historically irrigated by the Subject 3.0 cfs in exchange for CWCB releasing the South Field from the 2010 Dry-Up Covenant."
- "The CWCB has agreed to partially terminate the 2010 Dry-Up Covenant to release the South Field from the dry-up encumbrance to allow Applicant to re-irrigate the South Field with the Subject 3.0 cfs, subject to the terms and conditions herein."
- "Applicant provided the CWCB with a Dry-Up Covenant for the Trade Dry-Up Land dated April 15, 2019 and recorded in the real property records of Conejos County, Colorado at Reception No. 19000587."

(4) Case No. 17CW3008 (Water Division 4) - Application of Sound of Music, L.L.C.

The Board ratified this Statement of Opposition at its May 2017 meeting. Applicant seeks a change of water right and approval of augmentation plan to augment its requested new junior storage 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. A decree was entered in this case on June 17, 2019. The case is closed on Colorado Courts E-Filing.

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

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
84CW0435	Big Bear Creek	headwaters in vicinity	confl San Miguel River	2 (1/1 - 12/31)	07/13/1984
84CW0429	San Miguel River	confl S Fk San Miguel River	conf Fall Creek	20 (1/1 - 12/31)	07/13/1984
02CW0277	San Miguel River	confl Fall Creek	pt immed u/s of confl Horsefly Cr	93 (5/1 - 10/14) 61 (10/15 - 4/30)	01/23/2002

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

- Applicant clarified its plan and how it will maintain historical return flows in the final decree.
- CWCB assisted applicant with documenting its uses existing at the time of CWCB's appropriations in the decree, as follows. "Under section 37-92-102(3)(b), C.R.S. (2018), CWCB and Applicant recognize that the piscatorial and wildlife uses associated with Applicant's SOM Pond water right decreed absolute herein for 2.7 acre-feet with a surface area of 0.66 acres with an appropriation date of June 24, 1995 were being made under appropriations or practices in existence at the time of the CWCB's appropriation of the instream flow water right on the San Miguel River decreed in Case No. 02CW0277. A call placed by CWCB under its 2002 San Miguel River instream flow water right will not be enforced against the portion of the SOM Pond water right decreed absolute herein for piscatorial and wildlife uses, and the net evaporation of the current pond as described in Column C of Exhibit C will not have to be replaced during such a call. Applicant will replace the difference between net evaporation of the expanded SOM Pond and the current pond as described in Exhibit C in the event of a CWCB call from its 2002 San Miguel instream flow water right."

(5) Case No. 18CW3199 (Water Division 5) - Application of William Powell

The Board ratified this Statement of Opposition at its March 2019 meeting. Applicant withdrew his application for Approval of Plan for Augmentation on March 29, 2019. The case is closed on Colorado Courts E-Filing.

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

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
80CW0126	Eagle River	confl Lake Creek	confl Brush Creek	45 (10/1 - 4/30) 110 (5/1 - 9/30)	03/17/1980
80CW0124	Eagle River	confl Brush Creek	confl Colorado River	50 (10/1 - 4/30) 130 (5/1 - 9/30)	03/17/1980

(6) Case No. 15CW3056 (Water Division 6) - Application of Needmore Water, LLC, A Texas Limited Liability Company

The Board ratified this Statement of Opposition at its March 2016 meeting. Applicant claims new absolute surface water rights, as historical uses "superior" to CWCB's instream flow water rights under Section 37-92-102(3)(b), C.R.S., to irrigate and to fill certain reservoirs for several in-reservoir uses. 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 Referee's Ruling was entered on May 27, 2019.

The CWCB holds instream flow water rights, including the following in Water Division 6 in the Upper Yampa watershed, that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
77W1334	Big Creek	confl NF Big Creek	confl Elk River	15 (1/1 - 12/31)	09/23/1977
77W1331	Elk River	confl Rock Creek	confl Yampa River	65 (1/1 - 12/31)	09/23/1977

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

- CWCB assisted applicant with documenting its uses existing at the time of CWCB's appropriations in the decree, as follows. "Pursuant to Section 37-92-102(3)(b), C.R.S. (2018), the water rights for Ditch Creek Upper Diversion and Ditch Creek Lower Diversion can operate during a valid call by the Colorado Water Conservation Board in Case No. W-1331-77 (Lower Elk River) and Case No. W-1334-77 (Big Creek) ("Instream Flow Water Rights").The subordination of the Instream Flow Water Rights, as described above, will not result in a general subordination of the CWCB's Instream Flow Water Rights to any other junior water rights. While the Instream Flow Water Rights are, under section 37-92-102(3)(b), subject only to the Applicant's uses and amounts described above for the Ditch Creek Upper Diversion and Ditch Creek Lower Diversion, the water rights approved in this decree will be administered subject to the prior appropriation system in relation to all other water rights."
- "Ditch Creek flows reduce substantially after snowmelt runoff and the primary source of water for Ditch Creek is the Nicholson Ditch after it is turned on for the season. The Nicholson Ditch diverts water from the North Fork of Mad Creek tributary to the Elk River. Applicant must track and account for water diverted at the Ditch Creek Upper Diversion and Ditch Creek Lower Diversion points of diversion that is both native to Ditch Creek and from the North Fork of Mad Creek through the Nicholson Ditch. To properly account for such water, applicant must install a measuring device on the Nicholson Ditch immediately before it delivers water into Ditch Creek. Records of all diversions must be submitted to the Division Engineer annually by November 15. Applicant will not divert water under the Ditch Creek Upper Diversion and the Ditch Creek Lower Diversion between October 1 and May 1."

(7) Case No. 16CW3039 (Water Division 6) - Application of Donald Lee Johnson

The Board ratified this Statement of Opposition at its March 2017 meeting. Applicant is requesting a "determination of water right" such that the instream flow water rights, would be administered as subject to applicant's previously decreed junior water rights with junior appropriation dates, pursuant to C.R.S. 37-92-102(3)(b). This case also implicated a previous decree in Case No. 11CW45, which has been successfully modified as re-decreed on May 28, 2019. 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 Referee's Ruling in this case was entered on May 27, 2019.

The CWCB holds instream flow water rights, including the following in Water Division 6 in the Upper Yampa watershed, that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
77W1331	Elk River	confl Rock Creek	confl Yampa River	65 (1/1 - 12/31)	09/23/1977
77W1335	Hot Spring Creek	headwaters in vicinity	Forest Service boundary	2 (1/1 - 12/31)	09/23/1977
04CW0024^	Hot Spring Creek	Forest Service boundary	confl Elk River	2 (1/1 - 12/31)	07/31/1965

^ 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:

- As stated in the water court application, "this matter is not an application for new conditional or absolute surface water rights. This application relates to the scope and content of the Routt Hot Springs Diversion with respect to the administration of the Water Right relative to certain instream flow rights held by the CWCB."
- CWCB assisted applicant with documenting its uses existing at the time of CWCB's appropriations in the decree, as follows. "The diversion of water for the beneficial uses decreed to the Routt Hot Springs Diversion in Case No. 82CW40 for bathing, recreation, health, and therapy was occurring at the time of the appropriations of Instream Flow Rights by the CWCB on Hot Spring Creek decreed in Case No. W-1335(77) and the Elk River decreed in Case No. W-1331(77). As contemplated in Section 102(3)(b), the described uses in this decree, excluding those uses described in Paragraph 14(G), constituted present uses by users of water pursuant to practices in existence at the time of the CWCB's appropriations. The Applicant is not required to augment out-of-priority evaporative depletions of water resulting from the Routt Hot Springs Diversion through Applicant's hot springs ponds up to a surface area of 2350 square feet, solely to satisfy a call under the Instream Flow Rights entered in Case Nos. W-1335(77) and W-1331(77)."
- In the application for this case, applicant requested a 102(3)(b) exception for CWCB's acquired water right on Hot Spring Creek as decreed in 04CW24. However, under statute, Section 102(3)(b) does not apply to CWCB's ***acquired*** water rights, but rather only to CWCB's ***appropriated*** instream flow water rights. During the pendency of this case, CWCB and applicant discovered an error in applicant's previous case decreed in 11CW45 wherein a 102-3-b exception was mistakenly applied to CWCB's acquired water right. By stipulation in this case, applicant agreed to petition the court to fix the error and to remove the

04CW24 reference from its decree in 11CW45. That petition has been filed the modified decree was entered on May 28, 2019.

B. LETTERS-IN-LIEU

The following case was resolved by Staff through a negotiated letter in lieu of filing a water court Statement 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 was negotiated to resolution:

(1) Case No. 18CW0011 (Water Division 5) - Application of Homeplace Holdings, LLC (fka Knorr Lakeside Ranch LLC)

During the June 2018 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 80CW0038 on Cataract Creek. An amended application was filed and accepted by the Court on Feb 19, 2019. This case was resolved with CWCB by a letter agreement, dated Feb 7, 2019 and finalized on May 9, 2019, by which CWCB agreed not to file a statement of opposition, provided Applicant incorporates the certain terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included. The Referee's Ruling was entered on May 29, 2019.

The agreed upon terms are as follows:

- "15.1. Pursuant to section 37-92-102(3)(b), C.R.S., CWCB and Applicant recognize that the Applicant's diversion of the Cataract Creek #2 Ditch right was being made at the Westlake Ditch point of diversion as described herein at the time of the CWCB's appropriation of instream flow rights on Cataract Creek in Case No. 80CW038.
- 15.2. The subordination of the instream flow water right decreed in 80CW038 to the Applicant's diversion of the Cataract Creek #2 Ditch Right at the Westlake Ditch Headgate recognized herein shall not interfere with the administration of the Cataract Creek #2 right in priority as against other water rights, and shall not result in general subordination of the CWCB's Cataract Creek decreed instream flow right to any other water rights junior to that instream flow water right.
- 15.3. While the CWCB's instream flow water rights described herein are subject to the Applicant's use pursuant to section 37-92-102(3)(b), the water right decreed herein will be administered subject to the prior appropriation system in relation to all other water rights."

Director's Report Attachment – July 17-18, 2019 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	Waterbody/ CWCB Case No.	ISF Amount (cfs/date)	Individual Injury (%)	Cumulative Injury (%)	Count
19CW3032	5	Camp Grandma Lukey, LLC	Lime Creek 73W1954	1.5 (10/1 - 3/31) 3.0 (4/1 - 9/30)	0.15910 0.09890	0.15910 0.09890	1
19CW3032	5	Camp Grandma Lukey, LLC	Fryingpan River 73W1955	30 (10/1 - 3/31) 100 (4/1 - 4/30) 150 (5/1 - 5/31) 200 (6/1 - 6/30) 100 (7/1 - 7/31) 75 (8/1 - 8/31) 65 (9/1 - 9/30)	0.00480 0.00490	0.00480 0.00490	1
19CW3016	7	Marilyn K. Paxton	Florida River 77W1763	14 (10/15 - 6/30) 7 (7/1 - 10/14)	0.00370 0.00190	0.77877 0.43530	29
19CW3016	7	Marilyn K. Paxton	Florida River 77W1764	20 (10/15 - 6/30) 12 (7/1 - 10/14)	0.00220 0.00140	0.37654 0.21691	16
19CW3012	7	Sheri Ligtenberg & Julie Winkleman, Trustees of the Ligtenberg-Winkelman Trust Dated 5-4-94	Florida River 77W1764	14 (10/15 - 6/30) 7 (7/1 - 10/14)	0.01400 0.02790	0.79277 0.46320	30
19CW3012	7	Sheri Ligtenberg & Julie Winkleman, Trustees of the Ligtenberg-Winkelman Trust Dated 5-4-94	Florida River 77W1764	20 (10/15 - 6/30) 12 (7/1 - 10/14)	0.00980 0.01630	0.37654 0.21691	17

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: July 17-18, 2019 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:
1.65% - Agricultural
2.30% - Low-income Municipal
2.65% - Middle-income Municipal
3.00% - 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 0.65% 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: Anna Mauss

DATE: July 17-18, 2019 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					
				No prequalified projects at this time	
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.

BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
South Platte		
NISP Participants	NISP	$100,000,000
Woods Lake Mutual Ditch Company	Culvert Replacement	$150,000
Town of Kersey	Water Line Project	TBD
Tunnel Water Company	Ditch Rehabilitation	$8,800,000
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
Northern Colorado WCD	Windy Gap Firming (increase)	$40,000,000
Subtotal		**$169,900,000**
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
Southeastern Colorado WCD	Arkansas Valley Conduit (increase)	$40,000,000
Subtotal		**$56,000,000**
San Miguel/Juan		
Town of Bayfield	Ditch Piping Project	$500,000
Redmesa Reservoir and Ditch Company	Redmesa Reservoir Enlargement	$5,000,000
City of Cortez	Distribution System (Loss Prevention)	$10,000,000
Subtotal		**$15,500,000**
Colorado		
Town of Breckenridge	Goose Pasture Tarn Dam	$20,000,000
Orchard Mesa Irrigation District	Lateral Piping	$300,000
Silt Water Conservancy District	Harvey Gap Reservoir	$300,000
Middle Ditch	Ditch Piping Project	TBD
Subtotal		**$20,600,000**

BORROWER	PROJECT NAME	POTENTIAL LOAN AMOUNT
Gunnison		
Gunnison County Electric	Taylor Park Hydro	$1,000,000
Subtotal		**$1,000,000**
North Platte		
No projects at this time		
Subtotal		**$0**
Rio Grande		
Manasa Land & Irrigation Co.	Ditch Rehabilitation	$6,000,000
Baca Grande Water and Sanitation District	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
Town of South Fork	Water Rights Purchase	$450,000
Subtotal		**$18,650,000**
Yampa		
Town of Oak Creek	Reservoir Rehabilitation	$500,000
Rio Blanco Water Conservancy District	Wolf Creek Reservoir	$100,000,000
Subtotal		**$100,500,000**

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: July 17-18, 2019 Board Meeting

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

The CWCB Loan Program has Substantially Completed thirteen (13) projects in Fiscal Year 2018 - 2019 as shown in Table 1. There are currently fifty seven (57) projects authorized to receive loan funding totaling $413 million. There are forty four (44) projects currently under contract and in the Design and Construction phase totaling $163 million.
The attached spreadsheet summarizes the status of the projects. A detailed description about each project is provided in the digital version of the Director's Report.

TABLE 1

	Borrower	Project	County	Loan Amount	Complete
1	Dixon Canon Ditch & Reservoir Company	Dixon Reservoir Dam Improvements	Larimer	$280,881	7/1/2018 (a)
2	Bennett, Town of	Wells #3 and #6 Replacement Project	Adams/Arapahoe	$1,454,400	8/1/2018
3	North Poudre Irrigation Company	Mountain Supply Reservoir No. 10 Repairs	Larimer	$726,214	8/1/2018 (b)
4	Corsentino Dairy Farms, Inc.	Holita Dam Rehabilitation	Walsenburg	$99,263	9/1/2018 (c)
5	Grand Valley Water Users Association	Government Highline Canal Lining	Mesa	$151,500	9/1/2018
6	Sanchez Ditch and Reservoir Company	Sanchez Reservoir Outlet Rehabilitation Project	Costilla	$1,502,466	9/1/2018 (d)
7	Monte Vista, City of	Augmentation Water Rights Acquisition	Rio Grande	$1,627,359	9/1/2018
8	Lupton Bottom Ditch Company	Diversion Structure Repair	Weld	$561,832	10/1/2018
9	North Poudre Irrigation Company	Fossil Creek Reservoir Diversion Structure Repair	Larimer	$846,222	11/1/2018
10	Lake Durango Water Authority	Source Water Supply Project	La Plata	$2,525,000	1/1/2019
11	Riverside Reservoir and Land Company	Riverside Reservoir Spillway Project	Weld	$1,493,650	5/1/2019 (e)
12	Parker Water and Sanitation District	Water Infrastructure and Supply Efficiency (WISE)	Douglas/Arapahoe	$5,650,933	6/1/2019
13	Overland Ditch and Reservoir Company	Overland Reservoir Rehabilitation	Delta	$271,655	6/1/2019
			Total	$17,191,375	

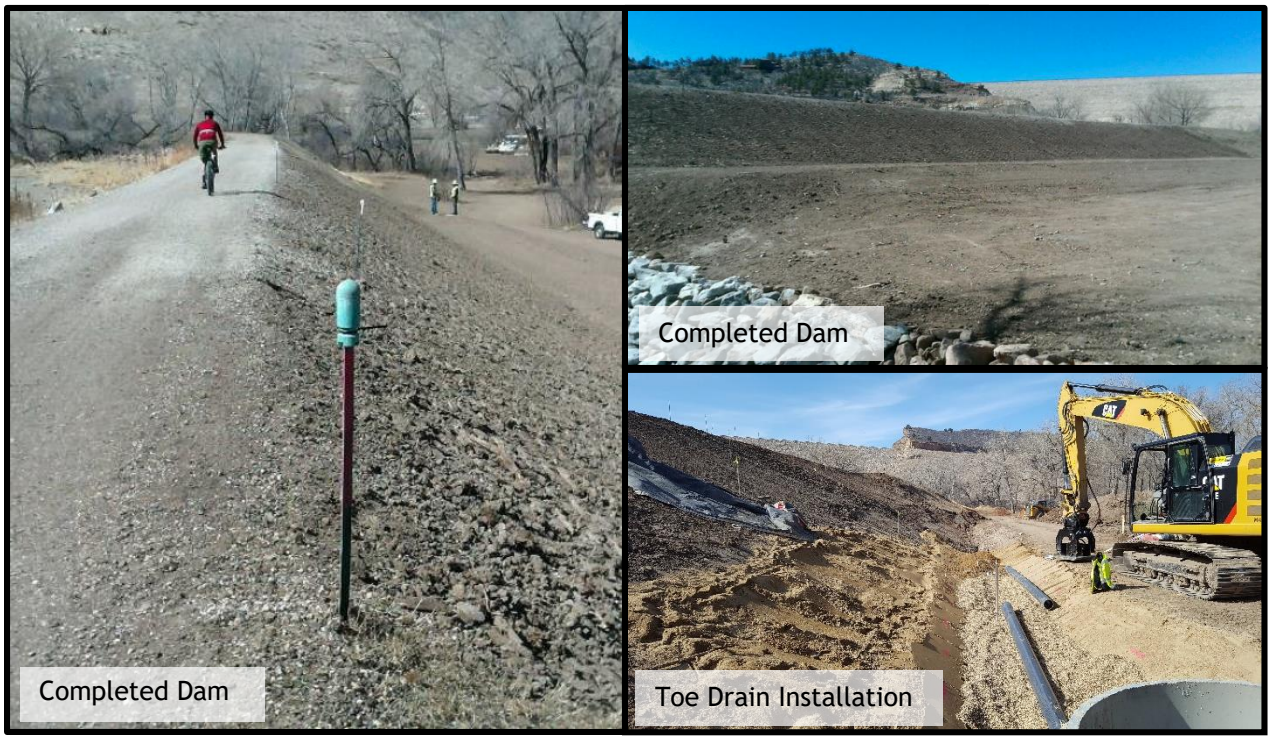
Fiscal Year 2018 - 2019 has added or preserved 120,030 acre-feet of reservoir storage (a) 412; (b) 344; (c) 274; (d) 55,000; (e) 64,000

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Dixon Reservoir Dam Improvements

Dixon Canon Ditch and Reservoir Company

Substantially Complete July 1, 2018



Project Description

Dixon Canon Ditch and Reservoir Company owns and operates the Dixon Reservoir Dam and associated ditch located in Larimer County on the west side of Fort Collins. The ditch diverts water off of Dixon Creek and provides water for outdoor irrigation to a 206-acre service area via approximately 9,000 feet of pipe and ditch. The dam was constructed in 1885 and is classified as a Significant Hazard Dam by the Dam Safety Branch of the Office of the State Engineer (SEO). The Reservoir has a decreed storage volume of 412 acre-feet. Recent SEO inspections identified areas of seepage that need to be addressed in order to maintain the full storage decrees. To address the SEO concerns, this Project installed a seepage filtration and collection system including a sand and gravel filter with a toe drain, cleanouts, and flow monitoring weirs. Construction occurred from January 2018 through April 2018.

P R O J E C T D A T A		
Sponsor: Dixon Canon Ditch and Reservoir Company	*County:* Larimer	*Water Source:* Dixon Creek
Type of Project: Reservoir Rehabilitation	*Board Approval Date:* May 2016	
Loan Terms: 2.55% for 30 years *(Original)* $280,881 *(Final)* $280,881		
Design Engineer: Gauthiere Engineering, Inc.		
Contractor: Zak Dirt, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Well #3 and #6 Replacement Project

Town of Bennett

Substantially Complete August 1, 2018

The Town of Bennett pr[illegible]per Arapahoe and Lower Arapahoe, and Laramie-Fox Hills aquifers. A 2014 study revealed the need to address operational reliability, efficiency, and safety of the Town of Bennett's well #3 and well #6. The replacement of the wells provided the Town with additional supply to meet demands and needed redundancy in its water supply system. Construction activity included drilling the wells, electrical work, testing, and bringing the wells online.

P R O J E C T D A T A		
Sponsor: Town of Bennett	*County:* Adams & Arapahoe	*Water Source:* Non-Tributary Groundwater
Type of Loan: Well Drilling	*Board Approval Date:* November 2014	
Terms of Loan: $1,454,400 at 3.25% for 30 years		
Design Engineer: Jehn Water Consultants and Pure Cycle Corporation		
Contractor: Hydro Resources – Rocky Mountain, Inc. (Fort Lupton, CO)		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Mountain Supply Reservoir No. 10 Repairs

North Poudre Irrigation Company

Substantially Complete August 1, 2018

Project Description

The North Poudre Irrigation Company is a mutual ditch company established in 1901. The Company's service area encompasses approximately 28,000 irrigated acres in Larimer County north of Fort Collins near Wellington, and includes service to 14 communities and municipal water providers.

The Mountain Supply Reservoir No. 10 is owned and operated by the Company and was constructed in 1905. Major rehabilitation of the reservoir's dam was completed in 1973. In August 2015, the reservoir experienced a failure in its corrugated metal pipe (CMP) outlet, prompting the Company to drain the reservoir and the State Engineer's Office to impose a full storage restriction. Temporary emergency repairs were made in 2016 which permitted the Company to store 80 AF. This project made permanent repairs which resulted in the State Engineer's Office removing all storage restrictions. Repairs to the reservoirs outlet structure included construction of a new gate tower and walkway and lining the length of the outlet pipe using a cured-in-place pipe (CIPP) liner. Additionally, the Company made repairs to the reservoir's inlet structure off the No. 10 ditch, and installed a new spillway cutoff wall. Construction occurred from November 2017 to April 2018.

P R O J E C T D A T A		
Sponsor: North Poudre Irrigation Company	*County:* Larimer	*Water Source:* Cache la Poudre River
Type of Project: Reservoir Rehabilitation	*Board Approval Date:* March 2017	
Loan Terms: 2.50% for 30 years *(Original)* $802,950 *(Final)* $726,213.77		
Design Engineer: Tessara Water, Inc		
Contractor: Zak Dirt, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Holita Dam Rehabilitation

Corsentino Dairy Farms, Inc.

Substantially Complete September 1, 2018

Figure 1 – Reservoir before construction

Figure 2 – Downstream view of dam before construction

Figure 3 – Construction – Dam core

Figure 4 – Embankment reconstruction

Figure 5 – Finished dam

Project Description

Corsentino Dairy Farms, Inc. is located on 1,019 acres located approximately three miles east of the City of Walsenburg, along the north and south sides of State Highway 10. The Dairy has been in the Corsentino family since 1936 and is currently operated as an organic dairy. The primary water for the dairy operation comes from a well. The well is operated in accordance with the Corsentino Dairy plan for augmentation. The replacement water comes from the Holita Reservoir.

Holita reservoir has a storage capacity of 498 acre-feet and was built in 1889. In September of 2014 the Dairy received a letter from the Office of the State Engineer (SEO) that identified the Holita dam as unsatisfactory and restricted the storage level to five feet below the low point of the west dam crest.

Through this loan, the Dairy addressed seepage issues by reconstructing the embankment and permanently lowered the spillway to allow a storage volume of 274 acre-feet.

PROJECT DATA		
Borrower: Corsentino Dairy Farms, Inc.	*County:* Huerfano	*Water Source:* Cucharas River
Type of Loan: Reservoir Rehabilitation		*Board Approval Date:* July 2017
Loan Terms: 0.5% for 10 years (Original) ***$112,716.00*** *(Final)* ***$99,263.32***		
Design Engineer: Nicholas Kock, P.E.		
Contractor: Double M Excavating, Inc., La Veta, CO		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Government Highline Canal Lining

Grand Valley Water Users Association

Substantially Complete September 1, 2018

Project Description

The Grand Valley Water Users Association (Association), obtained loan and grant funding for the Government Highline Canal Lining Project. The Association is the managing entity of the Bureau of Reclamation's Grand Valley Project. The Grand Valley Project facilities includes the Grand Valley Diversion Dam (also known as the Roller Dam) on the Colorado River in De Beque Canyon and the 55-mile-long Government Highline Canal. The embankment immediately below the Roller Dam is relatively narrow and separates the Government Highline Canal from the Colorado River. This section of canal was constructed around 1915. Over the last 100 years the embankment settled and degraded. Erosion within the embankment led to material loss and sinkholes. As a result of canal degradation, water flow was restricted and the canal cross section was reduced, causing a reduction in capacity of the canal channel. Through this loan the Association lined the upper section of the canal to increase the conveyance capacity.

P R O J E C T D A T A		
Sponsor: Grand Valley Water Users Association	*County:* Mesa	*Water Source:* Colorado River
Type of Project: Ditch Rehabilitation	*Board Approval Date:* September 2016	
Loan Terms: 1.55% for 30 years *(Original)* $151,500 *(Final)* $151,500		
Design Engineer: SGM, Inc.		
Contractor: Mountain Valley Contracting, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Sanchez Reservoir Outlet Rehabilitation Project

Sanchez Ditch and Reservoir Company

Substantially Complete September 1, 2018

Figure 1 –Before construction - original outlet tower

Figure 2 – New staff gage construction

Figure 3 – After construction – new outlet controls

Figure 4 – After construction – new intake

Figure 5 – After construction – new staff gage

Project Description

The Sanchez Ditch and Reservoir Company provides irrigation water for users in Costilla County, southwest of the town of San Luis. The Company's primary storage reservoir is Sanchez Reservoir. The approximately 104,000 acre-foot reservoir was built in 1910. The reservoir's original outlet included a 135-foot tall concrete gate tower. In order to operate the dam, a tramway/gondola ran along a cable and was powered by a portable gasoline generator. Because daily operation of the gate is required during irrigation season, the reliability and safety of the gondola system was a concern of the Company. Using loan and grant funds, the Company demolished the gate tower; the installed new control gates and operators; lined the outlet conduit with shotcrete; repaired the downstream outlet structure; and, installed a new perimeter drain and weir along the right side of the outlet structure to control seepage. Additional seepage monitoring was also funded through the project.

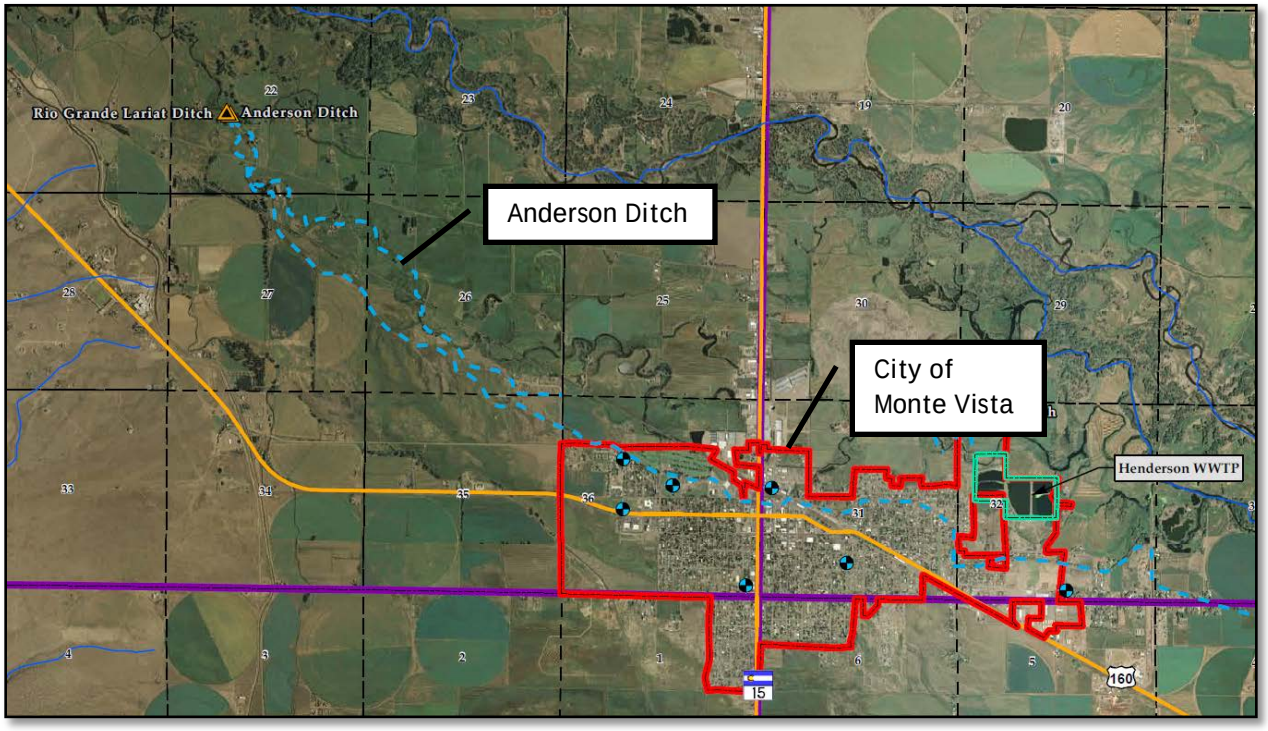
P R O J E C T D A T A		
Sponsor: Sanchez Ditch and Reservoir Company	*County:* Costilla	*Water Source:* Ventero Creek
Type of Loan: Reservoir Rehabilitation	*Board Approval Date:* September 2012	
Loan Terms: 2.0% for 40 years (Original) *$1,502,476.00 (Final)* *$1,502.465.51*	***WSRF Funding**: $914,400*	
Design Engineer: Smith Geotech & AECOM		
Contractor: Moltz Construction, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Water Rights Acquisition Project

City of Monte Vista

Substantially Complete September 1, 2018



Project Description

The City of Monte Vista, by and through its water activity enterprise, provides water to 4,300 residents in the San Luis Valley. The City's water system consists of five wells in a confined aquifer and three wells in an unconfined aquifer. Recent rules from the Office of the State Engineer require water users in the San Luis Valley to replace depletions from pumping of wells in both the confined and unconfined aquifers tributary to the Rio Grande River. As a result, the City needed an additional 321 acre-feet of replacement water. In order to meet this need, the City borrowed funds from the CWCB to purchase Anderson Ditch water rights and storage in the Rio Grande Reservoir to store the excess credits from the water it purchased.

P R O J E C T D A T A		
Sponsor: City of Monte Vista	*County:* Rio Grande	*Water Source:* Rio Grande River
Type of Loan: Water Rights Purchase	*Board Approval Date:* May 2010	
Terms of Loan Loan Terms: 4.5% for 30 years (Original) $1,693,770.00 *(Final)* $1,627,359.48		
Design Engineer: Bikis Water Consultants, LLC		
Contractor: N/A		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Repair Project

Lupton Bottom Ditch Company

Substantially Complete October 1, 2018

Figure 1 – Diversion repair on North side of diversion structure and Lupton Bottom headgate.

Figure 2 – Diversion repair on South side of diversion structure.

Figure 3 – Diversion structure.

Figures 4 & 5 – Bank stabilization upstream and downstream of diversion structure.

Figure 6 – Lupton Bottom Ditch headgate.

Project Description

The Lupton Bottom Ditch Company diverts water from the South Platte River near Wattenberg in Weld County. The original check dam was built in 1949 and the gates were replaced in 2001. Damage to the structure began when high river flows overtopped the rock dam and scoured a large hole on the downstream side and subsequently extended that scour into the structure. The structure was initially damaged during September 2013 flooding and further damaged in subsequent high river flows. This repair work was completed in a two-stage process due to the requirement for construction to occur during low flow conditions within the river. During the first stage, upstream stabilization and installation of sheet piling and the construction of a concrete apron occurred. The downstream side of the structure was stabilized with grouted boulders. The second stage included rebuilding the rock dam on the southern side of the diversion structure.

With this project, the Company repaired and improved the diversion and intake structures, provided water deliveries to the shareholders, and improved operation safety. Design commenced in 2017, project construction occurred in early 2018 through summer 2018 and construction is complete.

P R O J E C T D A T A		
Sponsor: Lupton Bottom Ditch Company	*County:* Weld	*Water Source:* South Platte
Type of Loan: Diversion Structure Repair	*Board Approval Date:* January 2018	
Loan Terms: 1.6% for 10 years (Original) ***$606,000 (Final) $561,832***		
Design Engineer: Civil Resources, LLC		
Contractor: Zak Dirt, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Fossil Creek Res Emergency Inlet Diversion Repair

North Poudre Irrigation Company

Project Closeout November 1, 2018

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 including the Company's Fossil Creek Reservoir inlet diversion off the Cache la Poudre River. The entire concrete dam spanning the river was undermined and washed out during the flood. This Project repaired the existing diversion structure by rebuilding the check dam, abutment, and bypass gate. Additionally, the Company worked with Colorado Parks and Wildlife to incorporate a fish ladder on the north end of the check structure. Construction occurred from December 2015 to March 2016. The Project was eligible for FEMA public assistance and received grant funding to help offset the construction costs.

P R O J E C T D A T A		
Sponsor: North Poudre Irrigation Company	*County:* Larimer	*Water Source:* Cache la Poudre River
Type of Loan: Diversion Rehabilitation	*Board Approval Date:* October 2013	
Terms of Loan: (Original) $876,680 at 2.35% for 32 years *(Disbursed)* $846,222.20		
Design Engineer: Ronald H. Slosson, P.E.		
Contractor: Naranjo Civil Constructors		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Source Water Supply Project

Lake Durango Water Authority

Substantially Complete January 1, 2019

Figure 1 - New road down to Intake Tower

Figure 2 – 30 in. DIP pipe

Figure 3 – Discharging of water into Lake Durango

Figure 4 – Pump station at Lake Nighthorse Intake Tower

Figure 5 – Map of pipeline route

Project Description

In response to inadequate water supply and poor treated water quality the Authority was established in 2008 to purchase and assume operation of the Lake Durango Water Company's system. A Yield Analysis indicated that additional water rights were needed and purchase/use of water in the Animas–La Plata Project (ALP) was determined to be the best solution.

This Project included a water rights purchase, a pump station and 4.5 miles of pipeline delivery system from the ALP (aka Lake Nighthorse Reservoir) to the Lake Durango Reservoir.

In order to pump from Lake Nighthorse to Lake Durango it was necessary to enter into an agreement with the La Plata West Water Authority (LPWWA) for the use of the intake structure that was built prior to the filling of the Lake. LPWWA and its partners, the Southern Ute and Ute Mountain Ute Tribes, entered into a three-party agreement in August 2013. The agreement allowed for the upsizing of a portion of the pipeline to benefit the partners for future use. The first project water was pumped to Lake Durango in March 2018.

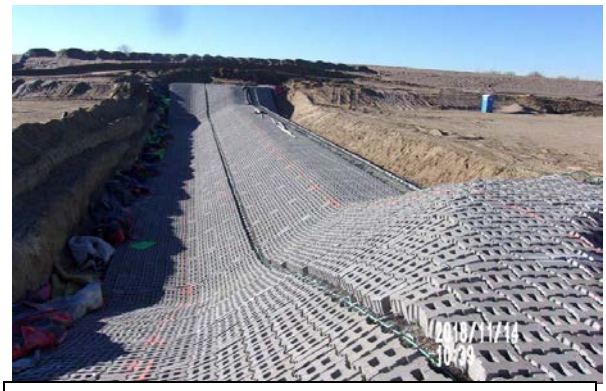
P R O J E C T D A T A		
Sponsor: Lake Durango Water Authority	*County:* La Plata	*Water Source:* Animas River
Type of Loan: Water Rights & Infrastructure	*Board Approval Date:* May 2011	
Loan Terms: 4.0% for 30 years (Original) ***$2,525,000*** *(Final)* ***$2,525,000***	***WSRF Funding****: $500,000*	
Design Engineer: Bartlett and West Inc.		
Contractor: Canyon Construction, Underwater Services Inc. (installed screens in Lake Nighthorse)		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

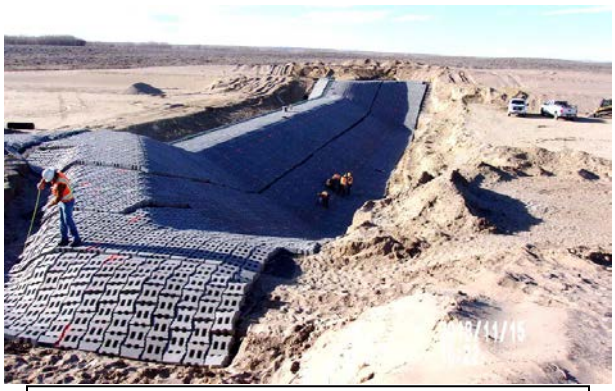
Riverside Reservoir Spillway Project

Riverside Reservoir and Land Company

Substantially Complete May 1, 2019



ACB mat installation at Station 17+00 completed. Mat joints still require concrete fill.



ACB mat installation at Station 8+00 completed.

Completed structure looking downstream. Texture provided on side-slopes to minimize erosion prior to vegetation establishment.

Completed project looking upstream toward reservoir at spillway entrance.

Project Description

The Riverside Reservoir and Land Company (Company) owns and operates the 64,000 acre-foot capacity Riverside Dam and Reservoir, the Riverside Ditch inlet and the river diversion structure near the town of Kersey, Colorado. The Company diverts water from the South Platte River, approximately 10 miles downstream of Greeley, Colorado. It stores water primarily during winter months for irrigation releases during the following water season. The Company, formed in 1902, delivers irrigation water to approximately 50,000 acres. The Colorado Division of Water Resources, Dam Safety placed a jurisdictional restriction on the reservoir due to the lack of a spillway. In order to enhance the safety of the reservoir and prevent further storage restrictions, the Company constructed a spillway. On March 15, 2019, the Chief of Colorado Dam Safety removed the reservoir storage restriction and the facility was accepted for full use to the decreed storage level of gage height 33.55', when water is legally and physically available.

P R O J E C T D A T A		
Sponsor: Riverside Reservoir and Land Company	*County:* Weld	*Water Source:* South Platte River
Type of Project: Reservoir Rehabilitation	*Board Approval Date:* May 2009	
Terms of Loan: 2.5% for 30 years *(Original)* $2,838,100	*(Final)* $1,493,650.48	
Design Engineer: W.W.Wheeler and Associates, Inc.		
Contractor: Connell Resources, Inc.		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Water Infrastructure and Supply Efficiency (WISE) Phase 1 Infrastructure Project

Parker Water and Sanitation District

Substantially Complete June 1, 2019

All photos show installation and welding of the new 42-inch Ridgegate pipeline near Rueter-Hess Reservoir. The pipline extends from Chambers Road and E-470 to the Parker Water Treatment Plant south of Rueter-Hess Reservoir.

Project Description

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

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

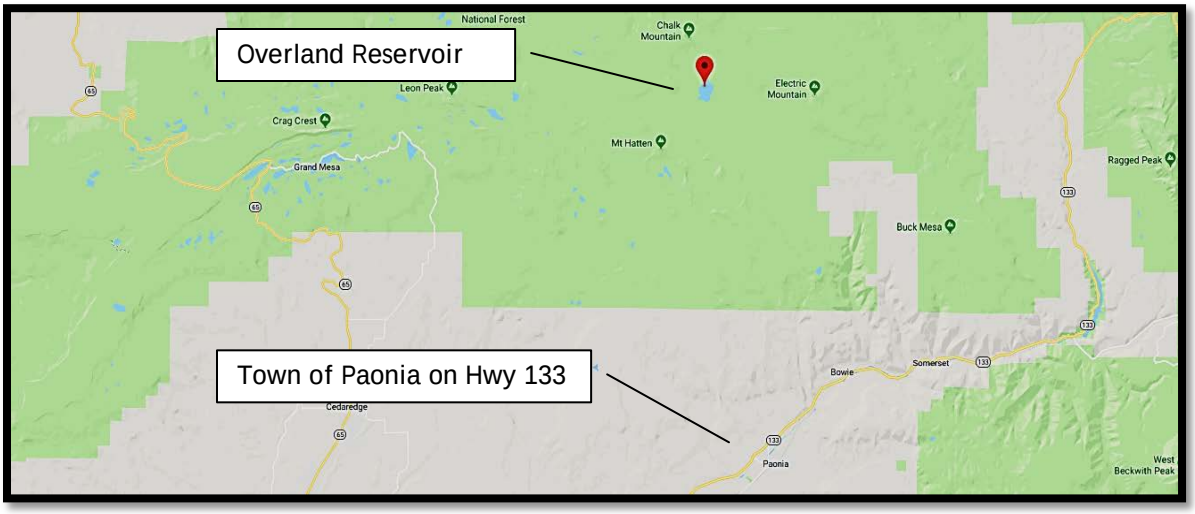
P R O J E C T D A T A		
Sponsor: Parker Water and Sanitation District	*County:* Douglas and Arapahoe	*Water Source:* South Platte River
Type of Project: Water Supply and Storage	*Board Approval Date:* May 2014	
Terms of Loan: 2.75% for 20 years *(Original)* $6,718,140 *(Final)* $5,650,933		
Design Engineer: CH2M		
Contractor: Layne Heavy Civil, Inc.		

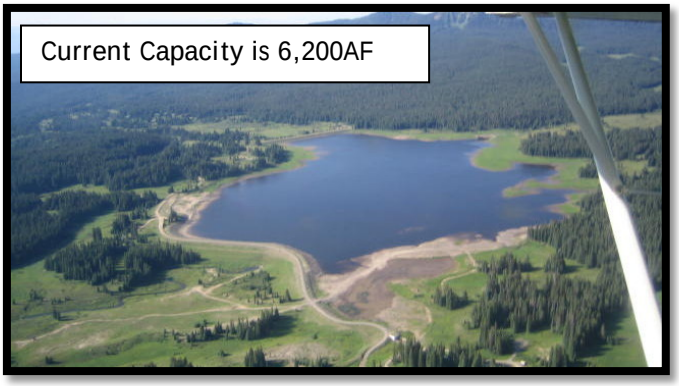
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Overland Reservoir Enlargement Project

Overland Ditch & Reservoir Company

Project Closeout June 1, 2019





Project Description

The Company owns and operates the Overland Reservoir for its 120 shareholders. It delivers an average of 17,000 AF of irrigation water annually. The Reservoir is in the Gunnison National Forest at 10,000 feet elevation. The Project proposed to increase the Reservoir's storage capacity by approximately 1,000AF. The Project was to include a raise of the spillway elevation by four feet and increase the dam's crest width. The Company spent nearly $200,000 in cash and grants in addition to the nearly $200,000 in loan funds in order to address permitting issue. The primary deterrent to the reservoir enlargement was the impact to Fens in the enlargement area. After this exhaustive permitting effort, the Company elected to table the project and begin repayment of the CWCB loan. The enlargement continues to be important to the Company; however, the price of the enlargement and the additional permitting costs exceeded the Company's capacity to continue with the enlargement at this time.

P R O J E C T D A T A		
Sponsor: Overland Ditch & Reservoir Company	*County:* Delta	*Water Source:* Cow Creek
Type of Loan: Dam Enlargement	*Board Approval Date:* July 2005	
Terms of Loan: (Original) $1,141,300.00 at 2.50% for 30 years *(Disbursed)* $271,654.57		
Design Engineer: Bruce Marvin, P.E., Western Engineers Inc. – Permitting Efforts		
Contractor: N/A		

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
	Projects in Design or Construction							
1	Arabian Acres >Automatic Meter Implementation CT2019-2792	Teller	$404,000	100%	Fall 2018 - Fall 2020	0%	RP	
2	Bessemer Irrigation Ditch Company >Landslide Stabilization and Ditch Lining CT2018-2829	Pueblo	$909,000	100%	March 2018 - Dec 2019	95%	RP	Ditch stabilization phase complete. Backfill complete along wall. Winter 2019 design/bid ditch lining. Ditch lining complete by 3/17/2019.
3	Big Elk Meadows Association >Emergency Raw Water Storage Repair CT2015-039 (C150391)	Boulder/ Larimer	$2,020,000	80%	July 2014 - Sept 2019	60%	JH	Project will rebuild 5 dams damaged in 2013 flood. 3 dams completed: Mirror Dam (2015), Rainbow Dam (2016), Willow Dam (2017). Meadow Dam construction started Oct 2017. Sunset Dam design pending. Loan increased at March 2017 Board meeting, 0% interest thru 2/2020.
4	Bonus Ditch Company > St. Vrain Diversion Replacement CT2018-2081	Longmont & Boulder	$1,309,970	100%	Dec 2018 - Apr 2019	98%	JH	City of Longmont is performing project management on behalf of the ditch company. Construction began in of December 2018. Project substantially completed and awaiting final billing.
5 - CHATFIELD Reallocation Project - First Cost of Storage								
a	Castle Pines North Metropolitan District >(C150404A) CT2018-1617	Arapahoe Douglas Park Weld	$723,160	N/A	N/A	0%	JH	This contract is to provide reimbursement for the Chatfield Reallocation Project, specific to the "first cost of storage." Payment will be due once storage in the new reservoir pool is allowed (after Phase 1 Mitigation contract is complete).
b	Centennial Water & Sanitation District >(C150405A) CT2016-2053	Arapahoe Douglas Park Weld	$4,978,290	N/A	N/A	0%	JH	
c	Center of Colorado Water Conservancy District >(C150406A) CT2016-2047	Arapahoe Douglas Park Weld	$94,637	N/A	N/A	0%	JH	
d	Central Colorado Water Conservancy District >(C150407A) CT2016-2057	Arapahoe Douglas Park Weld	$3,187,560	N/A	N/A	0%	JH	
6 - CHATFIELD Reallocation Project - Phase 1 Mitigation								$39,334,349
a	Castle Pines North Metropolitan District >(C150404B) CT2018-1616 *$	Arapahoe Douglas Park Weld	$5,462,484	100%	Sept 2017 - Fall 2019	95%	JH	This contract is to provide reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 1 covers the work required before storage is allowed.
b	Centennial Water & Sanitation District >(C150405B) CT2016-2055	Arapahoe Douglas Park Weld	$37,573,717	100%	Sept 2017 - Fall 2019	95%	JH	Several of the modified recreation areas within the park are already completed and are now open to the public including the North Boat Ramp and the perimeter road. Remaining construction activities and revegetation efforts along the west side of the Park associated with Season One

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
c	Center of Colorado Water Conservancy District >(C150406B) CT2016-2048	Arapahoe Douglas Park Weld	$511,363	100%	Sept 2017 - Fall 2019	95%	JH	construction are expected to be completed by December 2018. Impacted construction areas in Season Two include the Marina (docks and landside), South Boat Ramp, Roxborough Cove, Plum Creek Day Use Area, Kingfisher, Gravel Pond, and a portion of the Perimeter Road from Jamison Day Use Area to the Park Headquarters. Overall, CRMC is anticipating reopening a large majority of the recreational areas impacted by Memorial weekend 2019.
d	Central Colorado Water Conservancy District >(C150407B) CT2016-2058	Arapahoe Douglas Park Weld	$19,812,059	100%	Sept 2017 - Fall 2019	95%	JH	
7 - CHATFIELD Reallocation Project - Phase 2 Mitigation								$7,000,310
a	Castle Pines North Metropolitan District >(C150404C) CT2018-1619	Arapahoe Douglas Park Weld	$1,587,720	0%	Fall 2019 - Summer 2020	0%	JH	This contract is to provide reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 2 covers the work remaining after storage is allowed. 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, lessoning the amount of off-site mitigation in Phase 2. It is currently ancitipated that Phase 2 could be completed by summer 2020.
b	Centennial Water & Sanitation District >(C150405C) CT2016-2056	Arapahoe Douglas Park Weld	$10,934,260	0%	Fall 2019 - Summer 2020	0%	JH	
c	Central Colorado Water Conservancy District >(C150407C) CT2016-2060	Arapahoe Douglas Weld	$7,000,310	0%	Fall 2019 - Summer 2020	0%	JH	
8	Centenial Irrigating Ditch Company >Centenial Diversion Replacement CT2108-1999	Rio Grande	$232,300	100%	Jan 2018 - Feb 2019	95%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and consisted of replacing the existing diversion dam. Contractor mobilized to site in January 2018 and construction was substantially completed by the end of March 2018. Miscellaneous site clean up will occur winter 2019 and then final billing will occur.
9	Central Colorado Water Conservancy District >Shores Lakes Pond C Infrastructure Improvement CT2018-2851	Weld	$2,367,440	100%	Feb 2019 - Dec 2019	75%	JH	This project will increase the efficiency by which the Shores Lakes can capture and release water for augmentation use by making infrastructure improvements at the site of an old gravel pit. Contractor mobilized to site at the end of February. Construction to be complete by Dec 2019.
10	Chilcott Ditch Comapny >Chilcott Augmentation Station CT2019-2252	El Paso	$505,000	100%	Jan 2019 - May 2019	99%	RP	Construction to begin in Spring 2019. Out for bid November 2018. PreCon 12/18/2018. Construction begins Jan2019.
11	Church Ditch Water Authority >Ditch System Improvements CT2018-1335	Jefferson	$3,615,800	90%	Dec 2017 - Apr 2020	90%	RP	Loan covers 5 individual projects within the Church Ditch system. Leyden Flushing Structure, Headgate 53 Retaining Wall complete. The Area 15 Ditch Lining, Ford Street Siphon, and Legacy Farms Culvert will be completed after the 2018 irrigation season. Area 15 Ditch lining complete April 2019.
12	Consolidated Ditch and Headgate Co >Consolidated Diversion and Headgate Replacement CT2018-1017	Rio Grande	$1,010,000	100%	Jan 2018 - Apr 2019	98%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and will consist of replacing the existing diversion dam and headgate. Contractor mobilized to site in January 2018 finished the headgates and trash rack structures by the end of March 2018. Project is substantially completed and awaiting final billing.
13	Duke Ditch Company >Piping the Duke Ditch CT2017-915 CTGG1 2017-212 (WSRF)	Delta	$90,900	100%	No Est.	0%	AM	NRCS finalized the design in August 2018. Federal grant expired. Company is evaluating options of reapplying for federal funding in 2019 or possibly applying for a loan increase and completing project without federal grant dollars.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
14	Fort Lyon Canal Company >Adobe Creek Dam Rehabiliatation CT2018-1960 CTGG1 2018-806 (WSRF)	Bent	$8,181,000	100%	Sept 2018 - May 2020	99%	RP	Waiting Dam Safety conditional approval 8/31/2018. Out for bid 7/31/2018. Award 9/5/2018. PreCon 9/13/2018. Work continues placement mud mat, outlet conduit, intake gate tower and left toe drain 2/2018. Final walk-thru 6/2019
15	Fowler, Town of >Augmentation Pipeline Project C150359 (CT2015-054)	Otero	$277,245	100%	Fall 2018 - Fall 2019	0%	RP	Engineering completed. Easement and appraisal processes causing delay; might result in litigation per disc with Town 5/23/17. Bid process on hold. tt Kelly (Town Clerk) - no updates, no response on extension letter request 11/2018. May 2019 update: per L.Spady Oxford Farms Ditch company and City of Fowler are at a stand-still with easement issues with property owners and will have to start over on their planning.
16	Fruitland Irrigation Company >Tunnel and Canal Renvation CT2019- 2019-2848 CTGG1 2019-2449 CTGG1 2475	Delta & Montrose	$1,746,290	95%	Spring 2019 - Fall 2022	5%	RP	Contract needed by - 11/30/2018. Sept 2018 letter from Bureau of Reclamation recvd. Require letter prior to CWCB contract. Finishing permitting process, anticipate pre-bid in August 2019
17	Grand Mesa Water Conservancy District >Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	$227,250	100%	Mar 2013 - Sept 2019	50%	JH	Construction on Peak Reservoir began in the 2013 season and was completed in Oct 2014. Blanche Park construction was delayed due to Forest Service permit issues. Access road construction began Fall 2018 and dam construction will begin summer 2019.
18	Grand Valley Water Users Association >Grand Valley Power Plant Rehabilitation CT2017-2875 - SCTF	Mesa	$1,717,000	100%	Fall 2019 - Spring 2021	0%	JH	Project was delayed due to a Dept of the Interior review of pending projects nationwide. Design is 100% complete but has not had final approval from Bureau of Reclamation. Final approval is pending. Meeting with Reclamation Technical Services scheduled for late July 2019
19	Groundwater Management Subdistrict of CCWCD >Pioneer Reservoir CT2019-3687	Weld	$8,697,110	50%	Fall 2021 - Spring 2022	0%	JH	This Project invovles the purchase of a slurry wall lined gravel pit that will be reclaimed into a water storage reservoir. The subdistrict initially closed on the property in May 2019 and final closing will occur by January 2022 with construction being complete by spring 2022.
20	Huerfano County Water Conservancy District >Regional Augmentation Project C150364 (CT2015-047)	Huerfano	$2,222,000	95%	Jan 2014 - Jun 2020	95%	RP	Land and water rights purchase occurred in January 2014. Phase I completed Oct 2017. Sheep Mtn. Ph2 construction of access roads and pipeline to Aug. Pond under construction. Ph 3 - Reservoir and Embankment PreCon 4/2019.
21	Lamar, City of >Repurposing of Wells 12 and 13 CT2017-917 CTGG1 2017-211 (WSRF)	Prowers	$101,000	100%	Jun 2017 - Jul 2019	99%	RP	City staff is doing construction. Work has been postponed due to staffing/workload issues. Staffing changes. JVA additional scope approved by CWCB Board Sept2018. Approved scope extension new well pump and interconnecting piping construction begin 3/2019. Construction complete 6/28/2019.
22	Larimer & Weld Irrigation Company >Headgate Structure Replacement CT2017-2253	Larimer & Weld	$681,750	100%	Nov 2017 - Apr 2018	98%	JH	Constructin began in November 2017 and was substantially completed in April 2018. Final billing remains.
23	Left Hand Ditch Company >Allen's Lake Filler Canal Improvements CT2019-3463	Boulder	$671,650		Summer 2019 - Fall 2019	0%	JH	This Project will pipe a 2,400-foot reach of the Lake Ditch which parallels the west shore of Allen's Lake. The existing ditch experiences notable losses due to seepage and excessive sedimentation.
24	Left Hand Water District >Participation in Southern Water Supply Project II CT2018-2028	Broomfield & Weld	$10,000,000	100%	July 2018 - March 2020	50%	JH	Project is managed by Northern Water with Left Hand Water District paying for its prorata share based on pipeline capacity. Contractor mobilized July 2018 and began laying pipe at the end of August 2018.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
25	Missouri Heights Mountain Meadow Irr Company >Ditch Piping Phase B CT2019-2241	Garfield	$404,000	100%	Oct 2018 - Spring 2020	50%	JH	Phase B1 lining began in October 2018 and completed Dec 2018. Phase B2 lining to begin Fall 2019 pending NRCS approval of grant funds. Company was notified at end of May 2019 Phase B2 was approved for NRCS funding.
26	Ogilvy Irrigating and Land Comapny >Seely Reservoir Dredging CT2019-2099 CTGG1 2019-2018 (WPG)	Weld	$2,274,520	0%	Spring 2019 - Fall 2020	0%	RP	Contract needed by - unknown (permitting considerations being made) Permitting/Eval Jul 2018 and Construction Aug 2018
27	Orchard Mesa Irrigation District >Grand Valley Power Plant Rehabilitation CT2017-2878 - SCTF	Mesa	$1,717,000	100%	Fall 2019 - Spring 2021	0%	JH	Project was delayed due to a Dept of the Interior review of pending projects nationwide. Design is 100% complete but has not had final approval from Bureau of Reclamation. Final approval is pending. Meeting with Reclamation Technical Services scheduled for late July 2019
28	Orchard Ranch Ditch Company >Orchard Ranch Ditch Pipe Project CT2016-2795 POGG1 2017-493	Delta	$151,500	100%	Dec 2018 - Dec 2019	75%	RP	Design and permitting work is underway. Construction is expected to begin in Fall 2018. PreBid 7/23/18. Material supply issue - JUB redesign and rebid 10/2018. Construction begin 12/2018. One of two concrete intake structures placed, smaller pipe installed 3/2019.
29	Pueblo Consevancy District >Arkansas River and Wildhorse Creek Levees CT2019-366	Pueblo	$17,170,000	100%	Dec 2014 - Sep 2019	99%	RP	Phases 1-4 complete. KRS awarded Phase 5 Oct 2018. 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. Waiting on as-builts.
30	Roxborough Water and Sanitaion District >Ravenna Development Interconnect CT2019-2250	Douglas	$1,584,690	100%	Nov 2018 - Apr 2019	95%	JH	This Project will connect the Ravenna water service area into Roxboroughs water system. Construction started of November 2018 and on track for completion for April 2019. Final billing to occur.
31	San Luis Valley Canal Company >San Luis Valley Canal Headgate Construction CT2019-2046	Rio Grande	$303,000	100%	Jan 2019 - May 2019	95%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and consists of replacing the existing diversion dam. Contractor mobilized onsite in Jan 2019 and construction was substantially completed in May 2019. Final billing to occur.
32	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	40%	KR	Moltz Constructors completed the first year of Outlet Tunnel work. Res. filling w/ heavy season snow. Crews will remain on site over the summer to work on outlet gate house.
33	St. Vrain & Left Hand Water Conservancy District >Lake No. 4 Outlet Pipeline Repair CT2017-3213	Boulder	$864,560	100%	Spring 2019 - Spring 2020	0%	JH	Project is being done in partnership wtih Emergency Rock'n WP Ranch Lake No. 4 Repair, as well as repairs to Boulder County's West Lake and A-Frame Lake. County is lead agency for all projects. Project was bid and construction contracting is underway.
34	St. Vrain & Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair CT2016-2452	Boulder	$4,545,000	100%	Spring 2019 - Spring 2020	0%	JH	Project is being done in partnership wtih Emergency Rock'n WP Ranch Lake No. 4 Repair, as well as repairs to Boulder County's West Lake and A-Frame Lake. County is lead agency for all projects. Project was bid and construction contracting is underway.
35	Southeastern CO Water Conserv. District >Pueblo Dam Hydroelectric Project CT2018-833	Pueblo	$17,392,200	100%	June 2017 - Oct 2019	98%	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. Waiting SDS and connect approval BOR.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
36	Town of Firestone >Storage Development and Water Rights Purchase CT2017-2880	Weld	$10,000,000	95%	May 2018 - Dec 2019	50%	RP	LG Everist to complete mining and reclamation of future reservoir in Fall 2017/Winter 2018. Lower Boulder water rights purchased in July 2017. Final design pending - engineer looking to fill reservoir via wells/pipelines instead of diversion off river. Change case appl filed 2017 reservoir water rights.
37	Trinchera Irrigation Company >Mountain Home Dam Outlet Rehibilitation Phase III CT2018-3122 CTGG1 2018-1773 (WSRF)	Costilla	$440,360	100%	Oct 2018 - Mar 2019	98%	JH	This is a loan/grant project to replace outlet valves at Trinchera Reservoir. Company received a loan increase to add outlet lining. Construction started October 2018. Outlet work is finished and reservoir begining to store water. Final walk thru to occur in March 2019. Final billing to occur.
38	Tunnel Water Company >Laramie-Poudre Tunnel Rehabilitation CT2016-2001	Larimer	$1,111,000	100%	Sept 2015 - Fall 2019	55%	JH	Phase 1 (Inlet) complete in 2016. Phase 2 (outlet) construction was dealyed due to need to reroute access road. Construction of Phase 2 started fall 2018, stopped for winter, and will resume fall 2019. Company received a loan increase at March 2018 meeting to fully cover expected Phase 2 costs.
39	Tunnel Water Company >West Half Laramie-Poudre Tunnel Rehabilitation CT2019-3706	Larimer	$9,090,000	100%	Sep 2019 - Spring 2020	0%	JH/RP	Construction scheduled to begin the Fall 2019, when low water and non-irrigation season.
40	Walsenburg, City of > City Lake Dam Rehabilitation & Enlargement CT2019-648 Grant CTGG1 2019-094	Huerfano	$6,889,210	100%	Jan 2019 - May 2019	50%	RP	Construction scheduled began in January of 2019. Dam embankment has been removed. Foundation excavation and corresponding fill and filter placement is underway.
41	Wiggins, Town of >Wiggins Recharge Facility at Glassey Farms CT2018-892	Morgan	$2,408,850	95%	Spring 2019 - Summer 2019	0%	JH	Town purcahsed Galssey Farms in 2017. Final design of the project is pending, looking for spring construction. Town is finishing agreement with Morgan Community College to allow land to be used for an experimental precision agricultural program.
42 -WISE Project - Phase 1 Infrastructure								$10,017,180
a	Cottonwood W&S Dist - C150408B (CT2015-106)	Douglas/ Arapahoe	$2,636,100	100%	Spring 2015 - Jan 2020	95%	RP	Infrastructure to treatment plant completed. 42-inch Pipeline construction on Ridgeway line continues. E470 bore complete. All lines in ground and connections in place. Next step, testing. Waiting on water treatment piece before startup testing in May 2018. Ridgegate pipeline complete - punchlist items. WISE system has been delivering water since August of 2017 as connection come online. All but 2 members connected to the pipeline and those connections have been tested. Centennial Water and Sanitation has built their connection and is working on finalizing the controls programing. Anticipate CWSD start up around Fall 2018. Pinery working on physical connection and anticipate accepting water Fall 2018.
b	Inverness W&S Dist - C150409B (CT2015-118)	Douglas/ Arapahoe	$1,181,700	100%	Spring 2015 - Jan 2020	95%	RP	
c	Parker W&S Dist - C150410B (CT2015-108)	Douglas/ Arapahoe		100%	SC June1, 2019	100%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-085)	Douglas/ Arapahoe	$6,199,380	100%	Spring 2015 - Jan 2020	95%	RP	
43 - WISE Project - Phase 2 Infrastructure								$7,400,078
a	Cottonwood W&S Dist - C150408C (CT2015-105)	Douglas/ Arapahoe	$1,127,160	80%	Spring 2019 - Fall 2021	0%	RP	

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
b	Inverness W&S Dist - C150409C (CT2015-119)	Douglas/ Arapahoe	$1,427,130	80%	Spring 2019 - Fall 2021	0%	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 SMWA. Prebid 11/15/18.
c	Parker W&S Dist - C150410C (CT2015-109)	Douglas/ Arapahoe	$3,418,658	80%	Spring 2019 - Fall 2021	0%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-086)	Douglas/ Arapahoe	$1,427,130	80%	Spring 2019 - Fall 2021	0%	RP	
44 - WISE Project - DIA Connection								
a	Cottonwood W&S Dist - C150408D (CT2015-104)	Douglas/ Arapahoe	$363,600	60%	N/A	60%	RP	Annual disbursment to be made on this loan through 2021.Design Status indicates percent of funds disbursed to date.
b	Inverness W&S Dist - C150409D (CT2015-120)	Douglas/ Arapahoe	$454,500	60%	N/A	60%	RP	
c	Parker W&S Dist - C150410D (CT2015-110)	Douglas/ Arapahoe	$1,099,890	60%	N/A	60%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-087)	Douglas/ Arapahoe	$454,500	60%	N/A	60%	RP	
	Projects Under Contract		$249,987,903	100%				
	Approved Projects - Not Under Contract							
a	Florida Consolidated Ditch Company >Hess Lateral Improvement CT2020-XXXX CTGG1 2020-XXXX (WSRF)	La Plata	$1,085,750	0%	Spring 201x - Fall 202x	0%	KR	Contract need by ?? may bid proj before loan contracting. concern $ total $1M CDOT money. Using CDOT seed $ for ROW Loan contract in their hands since 12/2017 - Peg Const fall of ?? (two seasons)
b	San Juan Water Conservancy District >Dry Gultch Reservior Land Acquistion CT2020-XXXX	Archuleta	$2,000,000	0%	Spring 201x - Fall 202x	0%	JH	Contract needed by - Postponed Indefinitely CWCB approval is conditioned on voters approving debt. Debt approval failed at November 2017 election. District is regathering to determine if/how/when to move the project forward.

	Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
c	Southeastern CO Water Conserv. District > Arkansas Valley Conduit CT2020-XXXX	Crowley	$40,000,000	0%	Spring 201x - Fall 202x	0%	KR	Pending Federal Appropriation. Southeastern's Pueblo Dam Hydro project was taken out of these loan funds.
d	Municipal Subdistrict >Windy Gap Project CT2020-XXXX	Larimer	$90,000,000	0%	Spring 201x - Fall 202x	0%	JH	Contract needed by - Contracts waiting on participant water storage agreements with Northern.
e	Julesburg Irrigation District >Diversion Structure Rehabilitation CT2020-XXXX	Sedgwick	$3,341,080	0%	Spring 201x - Fall 202x	0%	RP	Contract needed by - unknown Per Rachel-there is a delay before Julesburg is ready to execute a loan contract. The District seeking additional funding. They plan to gather additional funding sources prior to holding special election.
f	Central Colorado WCD >Walker Recharge CT2020-XXXX	Weld	$2,272,500	0%	Fall 2019 - Spring 2020	0%	JH	2019 Projects Bill - Signed
g	Groundwater Management Subdistrict of CCWCD >Walker Recharge CT2020-XXXX	Weld	$9,847,500	0%	Fall 2019 - Spring 2020	0%	JH	2019 Projects Bill - Signed
h	Well Augmentation Subdristrict of CCWCD >Walker Recharge CT2020-XXXX	Weld	$3,030,000	0%	Fall 2019 - Spring 2020	0%	JH	2019 Projects Bill - Signed
i	Schneider Ditch Company >Diversion Structure Replacement CT2020-XXXX	Logan	$1,245,330	50%	Sep 2019 - May 2020	0%	RP	Contract needed by - Aug2019
j	Dominion Water & Sanitation District >Chatfield Reallocation Project CT2020-XXXX	Douglas	$4,191,989	100%		N/A	JH	
k	Empire, Town of >Guanella Reservoir Storage Purchase CT2020-XXXX	Clear Creek	$124,230	100%	Aug 2019 - Dec 2019	0%	RP	
l	Logan Irrigation District >Prewitt Reservoir Rehabilitation CT2020-XXXX Grant CTGG1 2020XXXX	Washington and Logan	$1,849,310	0%		0%	JH	
m	Upper Platte and Beaver Canal Company >Diversion Structure Replacement CT2020-XXXX	Morgan	$4,435,920	0%		0%	JH	

Projects	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
Not Under Contract SubTotal =		$163,423,609					
Grand Total =		$413,411,512					

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Automatic Meter Implementation

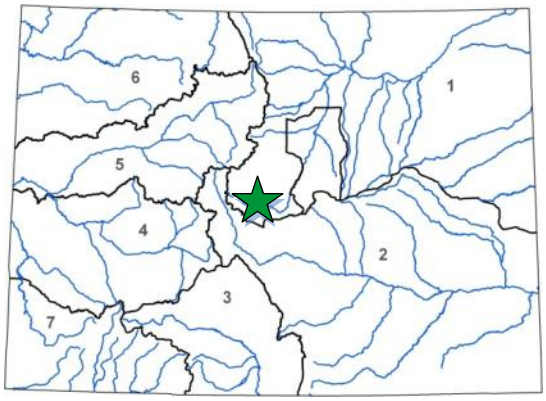
Arabian Acres Metro District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$404,000
Loan Term and Interest Rate:	10 Years @ 1.85%
Funding Source:	Construction Fund

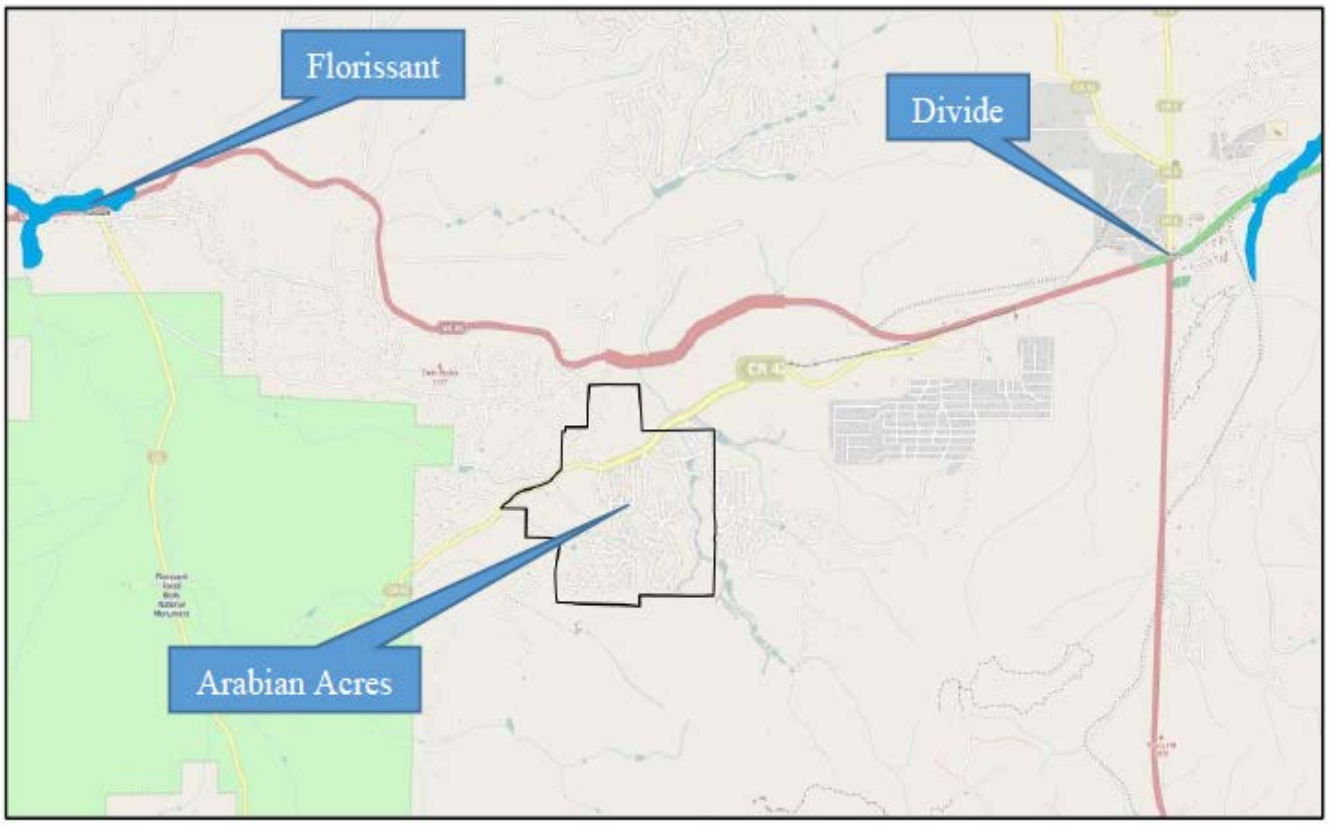
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Water Meter Replacement
Average Annual Diversions:	17 AF



LOCATION			
County:			Teller
Water Source:			Groundwater
Drainage Basin:			South Platte
Division:	*1*	*District:*	*23*

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 had 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 intends to install an automatic meter reading (AMR) system, new meter pits, installation hardware, a drive-by meter read base station, and software. This Project will help improve the District's operational efficiency by upgrading its water system. The meters will help accurately measure the amount of water usage and help quantify the system water loss. In addition to the loan, the District is also seeking a DOLA Energy Impact Assistance Fund Grant for 50% of the project cost.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Landslide Stabilization and Ditch Lining Project

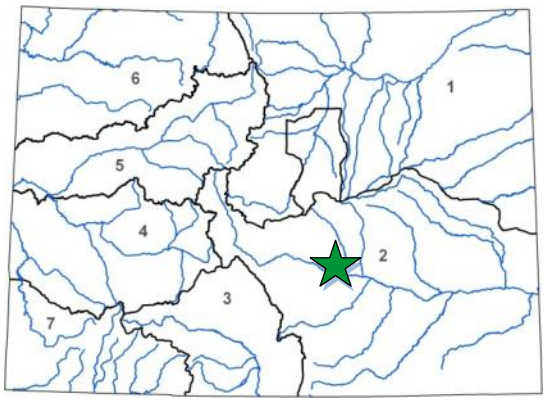
Bessemer Irrigation Ditch Company

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$900,000
CWCB Loan (with Service Fee):	$909,000
Loan Term and Interest Rate:	20 years @ 1.65%
Funding Source:	Construction Fund

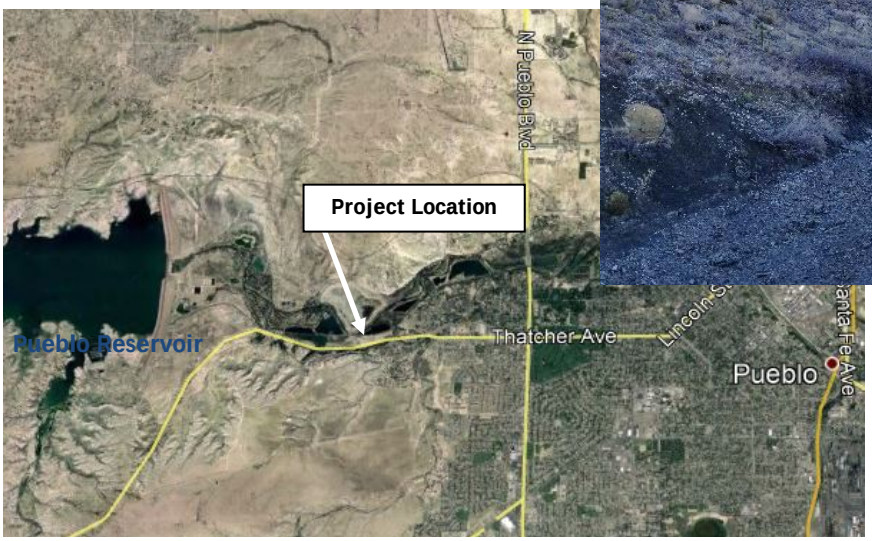
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
62%	38% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	71,600 AF



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	14

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 is expected to begin in January 2018.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Emergency Raw Water Storage Repair

Big Elk Meadows Association

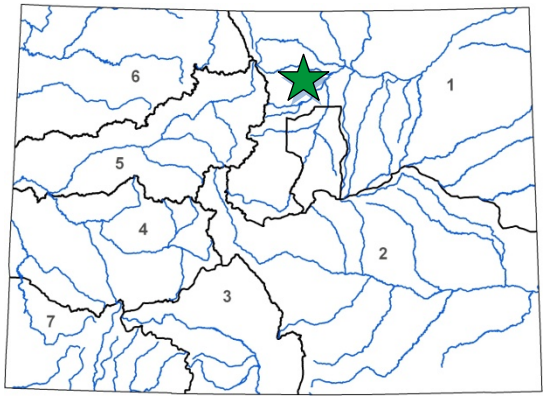
March 2017 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$4,162,453
CWCB Loan:	$2,020,000
Loan Term and Interest Rate:	6-Yrs @ 0%, 30-Yrs @ 2.75%
Funding Source:	Severance Tax PBF

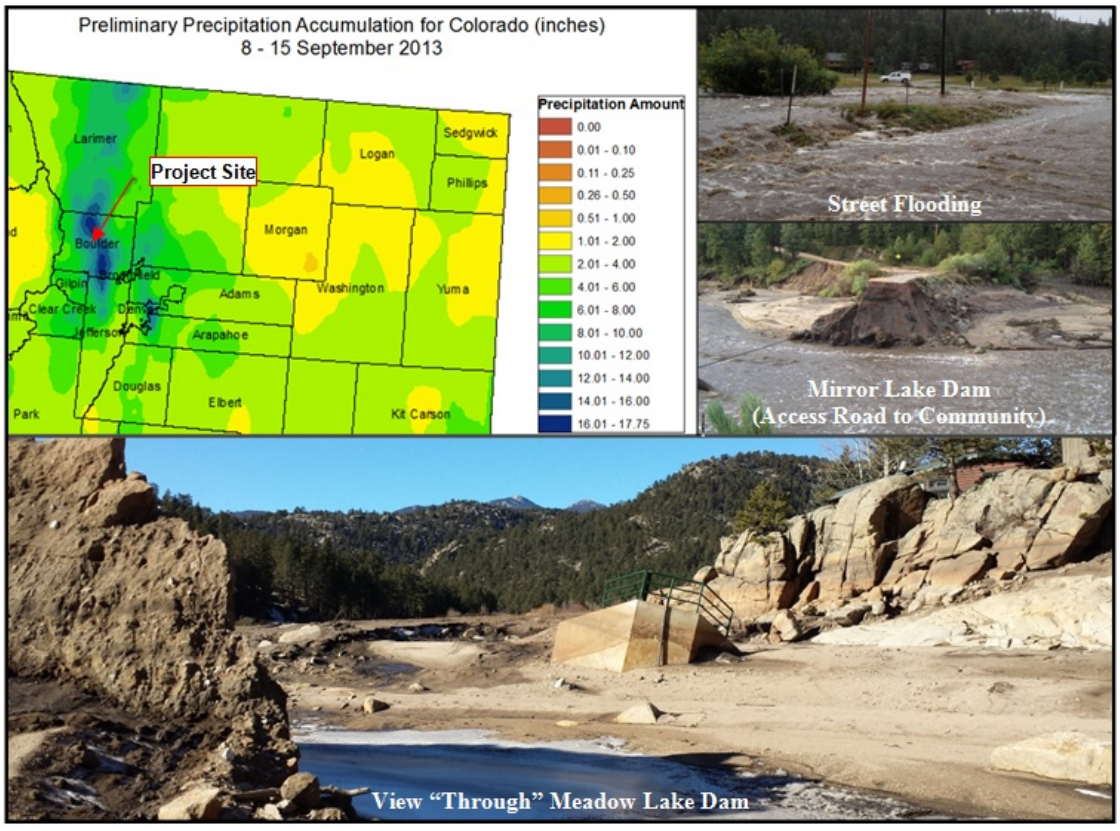
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 100% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Water Storage Preserved:	108 AF



LOCATION			
County:	Boulder/Larimer		
Water Source:	W. Fork Little Thompson R.		
Drainage Basin:	South Platte River		
Division:	1	*District:*	4

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 is to restore the community's water supply by reconstructing the five dams and two monitoring stations. Two of the five dams have been rebuilt and the Association is seeking an increase to the emergency loan to help with its cash flow during construction and through the FEMA grant reimbursement period.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

St. Vrain Diversion Replacement

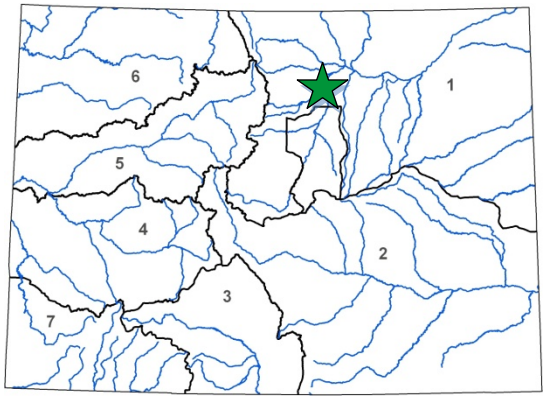
Bonus Ditch Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$1,297,000
CWCB Loan (with Service Fee):	$1,309,970
Loan Term and Interest Rate:	30 Years @ 2.90 %
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
2%	0% Low - 52% Mid -46% High	0%

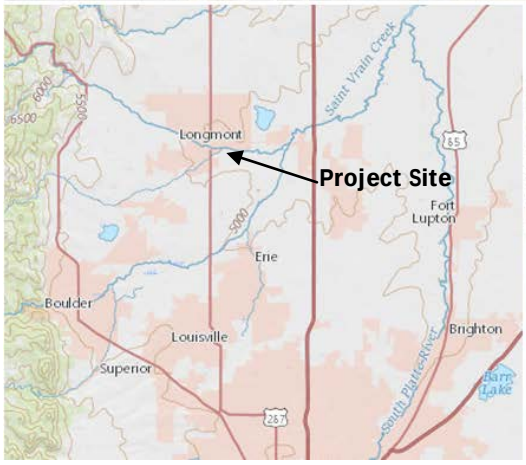
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,221 AF

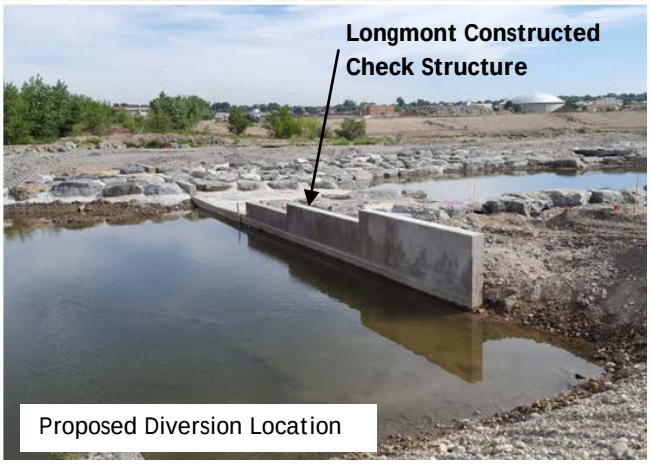


LOCATION			
County:			Boulder
Water Source:			St Vrain Creek
Drainage Basin:			South Platte
Division:	1	*District:*	5

The Bonus Ditch irrigates open space property leased to farmers in Boulder County and Weld County. Its diversion structure on St. Vrain Creek was destroyed during the September 2013 flood in the South Platte Basin.

The Company is working with Longmont under the Resilient St. Vrain (RSV) project, a multi-year project to fully restore the St. Vrain Greenway trails and improve the St. Vrain Creek channel to protect people and property from future flooding. The Company's diversion structure is located with the "City Reach" of the RSV project. The selected alternative for repairing the diversion structure fits with the goals of the RSV project. The Company has an approved Project Worksheet with FEMA to cover the "like for like" replacement cost of the project. Construction of the repair project is on hold until FEMA acts on a funding request to instead fund an "improved project" as replacing the diversion like for like is no longer feasible due to the post flood channel condition, and does not fit with the goals of the RSV project.





COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Castle Pines North Metropolitan District

Chatfield Reallocation Project

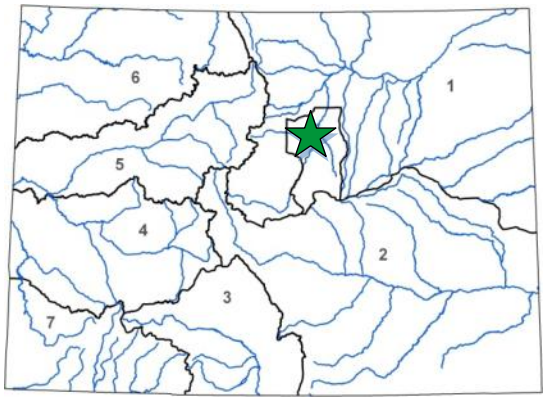
January 2018 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$8,350,776
CWCB Loan (with Service Fee):	$7,773,364
Loan Term and Interest Rate:	30 years @ 3%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0 % Low - 0% Mid -100% High	0%

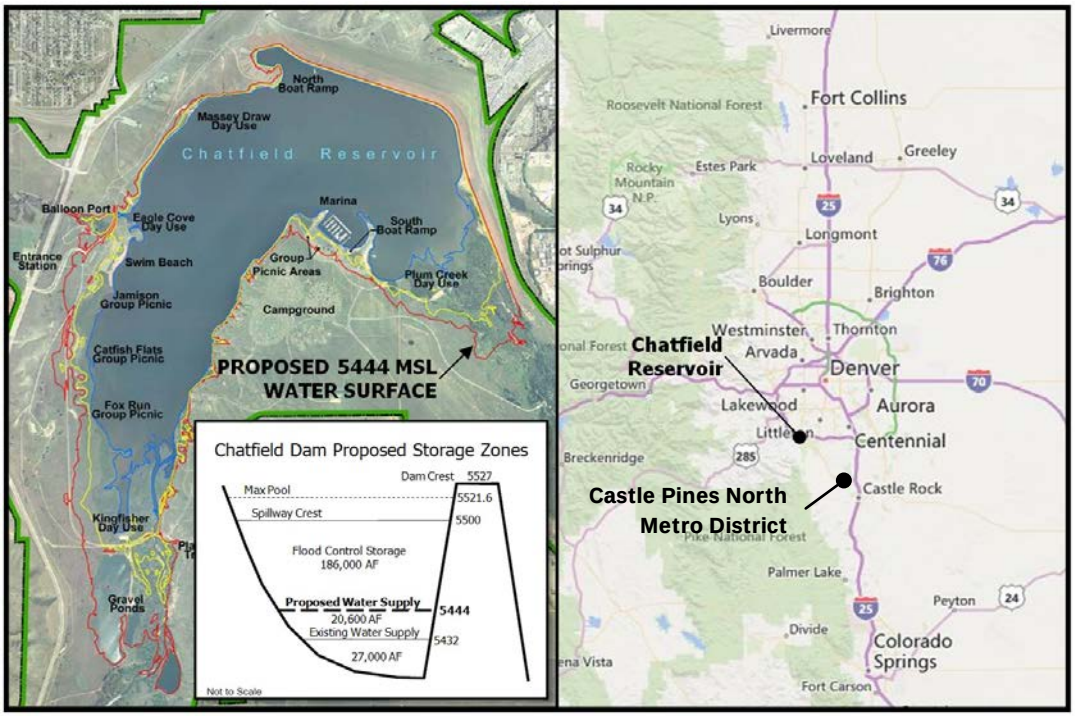
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	1,006 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Castle Pines North Metropolitan District provides water and wastewater services to the residents and businesses in the City of Castle Pines, Douglas County. The District is participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. Successful completion of the Project would result in the District securing renewable water rights that on average would supply 32% of its average annual water demand. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 1006 AF of storage, or 4.88% of the total reallocation. The District will use Chatfield storage through exchanges as authorized in water court Case Nos. 04CW308 and 09CW279.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. The District is seeking an increase to its Chatfield loan to cover its share of the cost difference.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Centennial Water and Sanitation District

Chatfield Reallocation Project

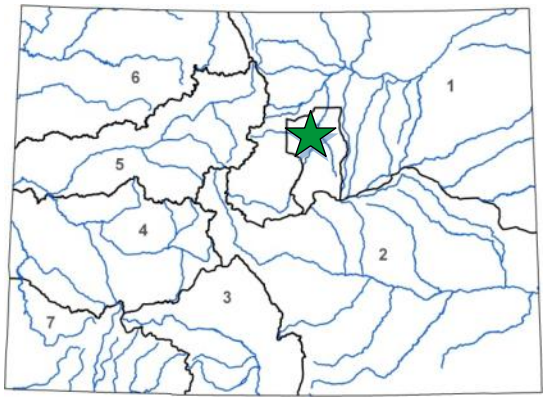
January 2018 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$57,459,314
CWCB Loan (with Service Fee):	$53,486,267
Loan Term and Interest Rate:	30 years @ 3%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0 % Low - 0% Mid -100% High	0%

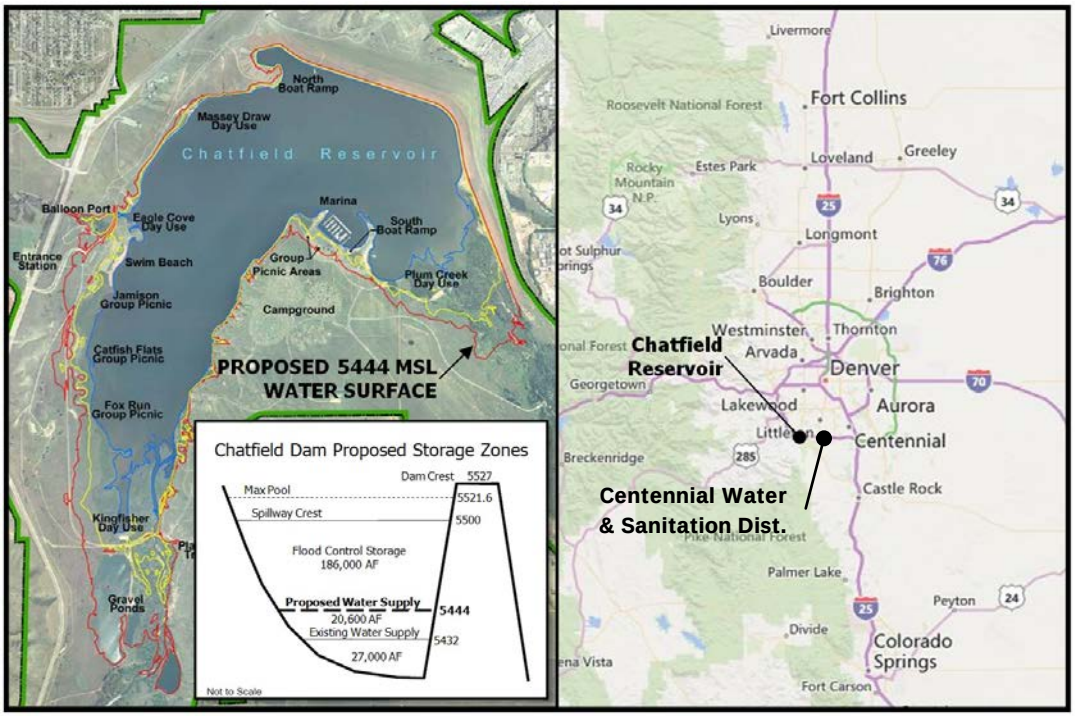
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	6,922 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Centennial Water & Sanitation District provides water and wastewater services to the residents and businesses of Highlands Ranch in Douglas County. The District is participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. Successful completion of the Project would result in the District securing renewable water rights that on average would supply 16% of its average annual water demand. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 6,922 acre-feet of storage, or 33.6% of the total reallocation. The District will store Chatfield water in accordance with water court Case Nos. 83CW184, 84CW411, and 85CW314.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. The District is seeking an increase to its Chatfield loan to cover its share of the cost difference.



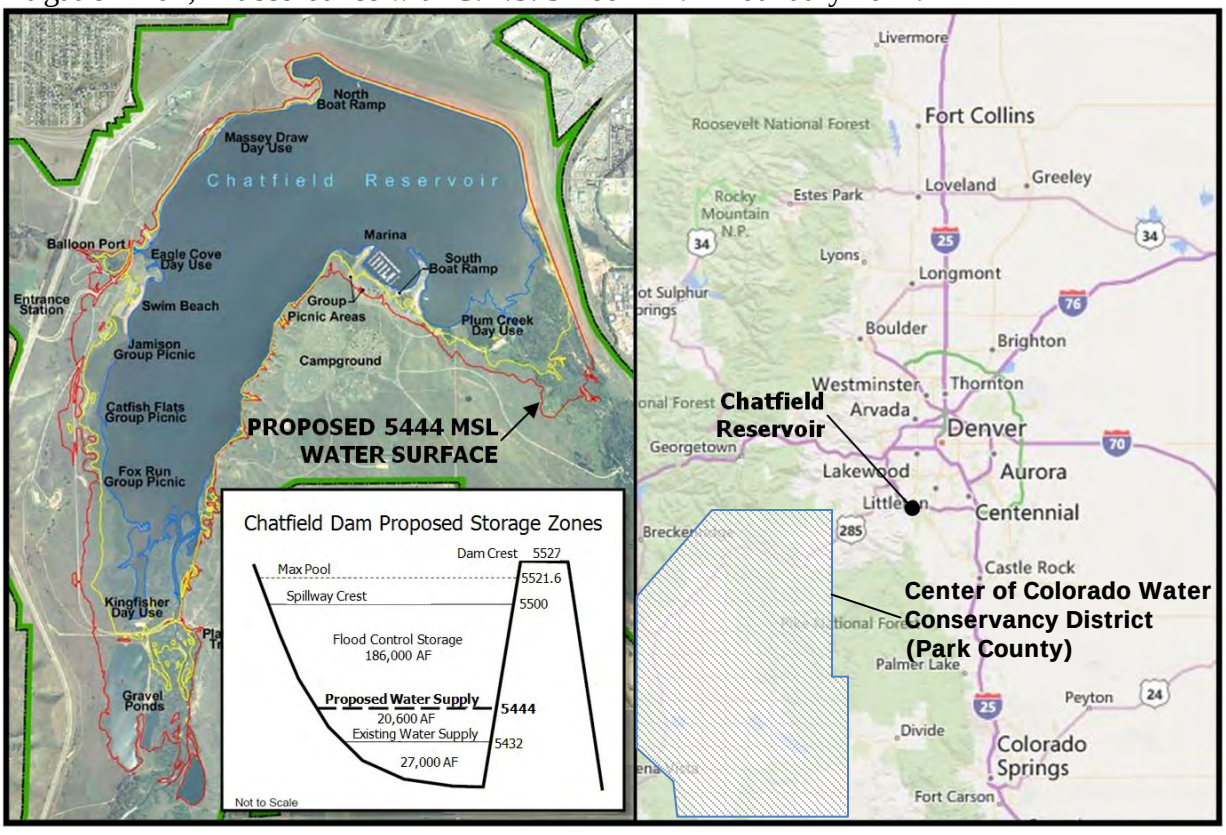
CWCB Water Project Loan Program
Project Data Sheet

C150406

Borrower: Center of Colorado Water Conservancy District
County: Park
Project Name: Chatfield Reallocation Project
Project Type: Reservoir Storage
Drainage Basin: South Platte
Water Source: South Platte River
Plum Creek
Total Project Cost: $931,000
Funding Source: Severance Tax Perpetual Base Fund
Type of Borrower: Middle-income Municipal
Average Annual Diversion: 700 AF
Added Water Supply Storage: 131.3 AF
CWCB Loan: $606,000 (with 1% service fee) **Interest Rate:** 2.5% **Term:** 15-years

The Center of Colorado Water Conservancy District co-owns and manages a blanket augmentation plan with the Upper South Platte Water Conservancy District through the Headwater Authority of the South Platte. The District is participating in the Chatfield Reallocation Project in order to improve its augmentation operations by needed storage space at the lower reaches of its augmentation plan. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 131.3 acre-feet of storage, or 0.64% of the total reallocation. The District will use Chatfield storage to store senior and junior rights as authorized in water court Case Nos. 12CW50 and 13CW3148.

The US Army Corps of Engineers issued the Project's Feasibility Report and Environmental Impact Statement (FR/EIS) in July 2013 and a Record of Decision is expected in 2014. The Selected Alternative recommended in the Final FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Project participants completed the Project's Fish, Wildlife and Recreation Mitigation Plan, in accordance with C.R.S. 37-60-122.2 in January 2014.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Central Colorado Water Conservancy District

Chatfield Reallocation Project

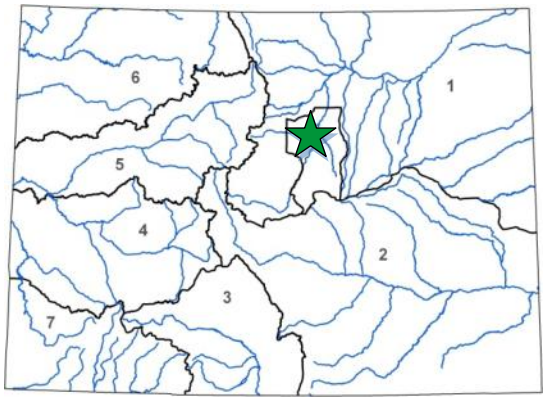
January 2018 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$35,478,346
CWCB Loan (with Service Fee):	$29,999,929
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid - 0% High	0%

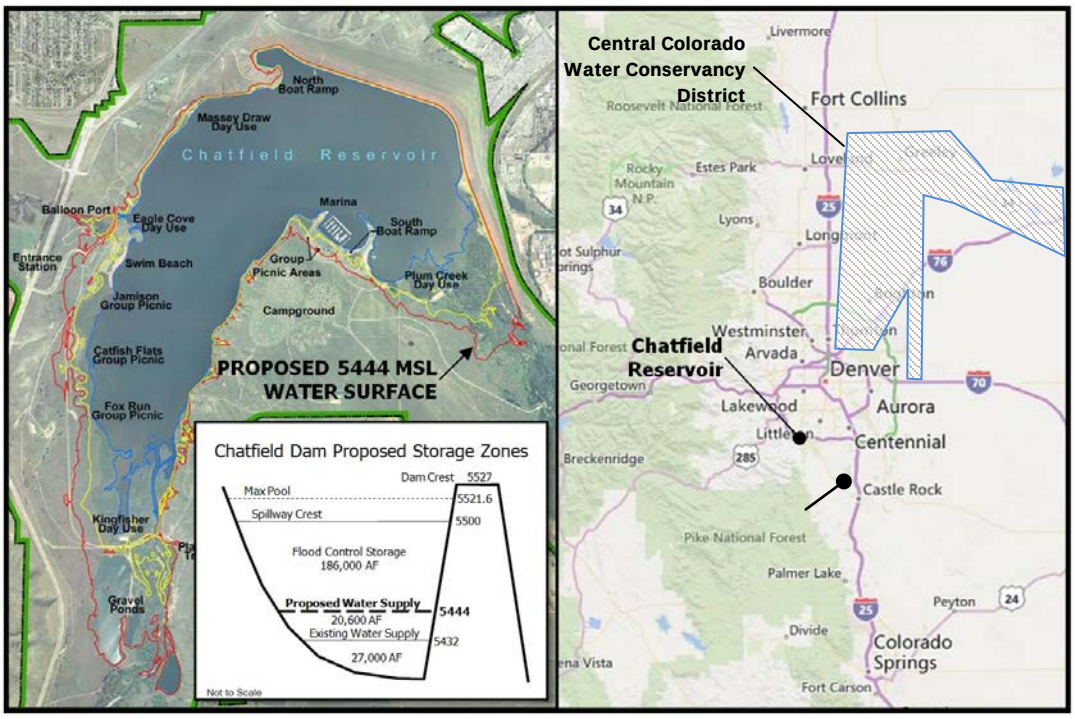
PROJECT DETAILS	
Project Type:	Reservoir Storage
New Storage:	4,274 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Central Colorado Water Conservancy District is located in the South Platte River basin between Denver and Fort Morgan including Beebe Draw, and the lower portions of the Box Elder Creek and Lost Creek drainages. Approximately 210,000 acres of irrigated agricultural lands are served by the District. The District is participating in the Chatfield Reallocation Project to increase the availability of augmentation water for users within its District. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 4,274 acre-feet of storage, or 20.75% of the total reallocation. The location of Chatfield provides the ability to replace well depletions to all locations within the District.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. Construction cost in October 2015 estimated the overall Reallocation Project to cost to $134 million. An October 2017 cost estimate revised this cost to be $171 million. The District is seeking an increase to its Chatfield loan to cover its share of the cost difference.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Centenial Diversion Replacement

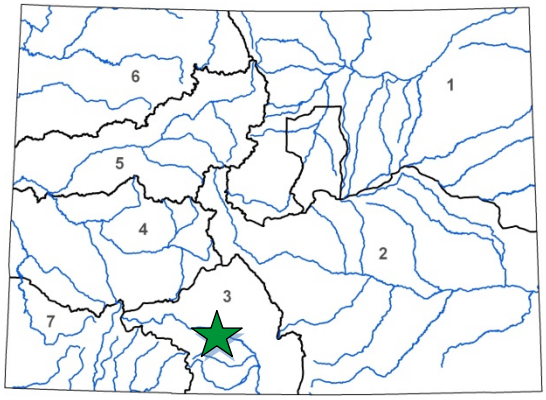
Centenial Irrigating Ditch Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$512,000
CWCB Loan (with Service Fee):	$232,300
Loan Term and Interest Rate:	20 Years @ 1.50%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

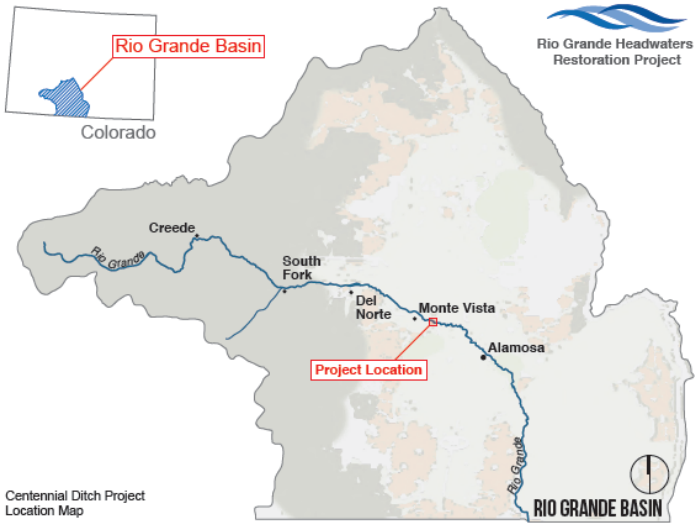
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	21,700 AF



LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The Company's diversion and headgate structures are located four miles east of Monte Vista on the Rio Grande. 8,500 acres are irrigated under the system. The diversion was highlighted as a river rehabilitation priority in a 2001 study titled "Rio Grande Headwater Restoration Project." That study analyzed the condition of riparian habitats and structures along a 91-mile reach of the Rio Grande from the town of South Fork to Alamosa, and was sponsored by the San Luis Valley Water Conservancy District and funded with a grant from the CWCB. A 2007 Rio Grande Watershed Restoration Strategic Plan highlighted the importance of continued efforts to implement the 2001 study recommendations.

The Company partnered with the Colorado Rio Grande Restoration Foundation, the fiscal agent for the Rio Grande Headwater Restoration Project, to organize and raise funds for the Project. The Foundation similarly worked with four other ditch companies and consolidated those needs into one WSRF grant request ("Five Ditches: Rio Grande Diversion and Headgate Improvement"). That grant request will also be heard at the September 2017 Board Meeting. The existing diversion dam will be replaced with a grouted rock diversion dam spanning the width of the river. The dam will include a low flow channel to allow for sediment transport. Project stakeholders worked with Colorado Parks and Wildlife, and at CPW's request, final design will incorporate a partial fish barrier to protect native fish upstream from downstream non-native predators such as the pike.



Centennial Ditch Project Location Map


Diversion Structure

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Shores Lakes Ponds C Infrastructure Improvement

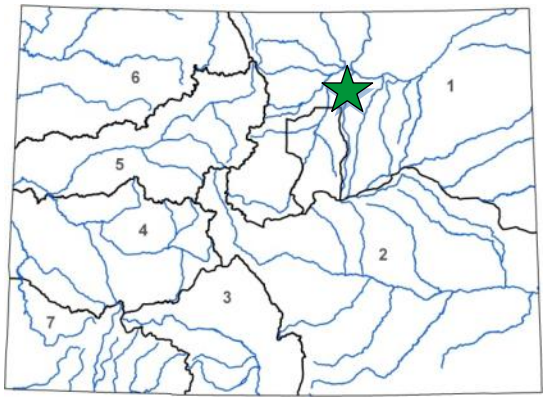
Central Colorado Water Conservancy District

January 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,430,000
CWCB Loan (with Service Fee):	$2,367,440
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

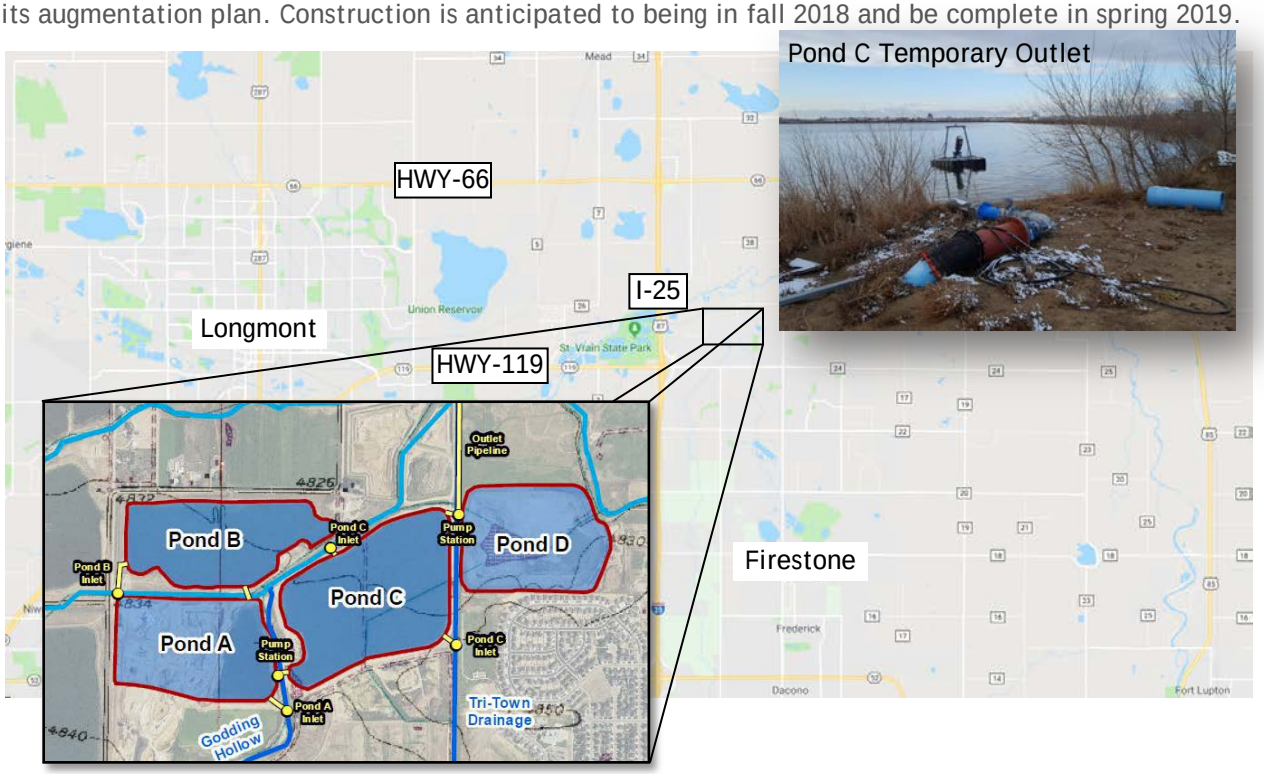
PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Storage Maintained:	4,500 AF



LOCATION			
County:			Weld
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Well Augmentation Subdistrict (WAS) was formed in 2004 to develop a permanent augmentation plan for well owners who were previously members of the Groundwater Appropriators of the South Platte (GASP), and covers land in Adams, Weld, and Morgan counties. There are currently 275 wells contracted for coverage in the WAS Augmentation Plan, covering 78 square miles, for a total of 15,250 AF. WAS issues an annual pumping quota to its member wells based on WAS overall augmentation supplies. The first seven years the quota was set to 0%, but in recent years the quota has ranged from 35%-60%.

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. Shores Lakes has all planned infrastructure installed except Pond C's inlet and outlet structures. This Project will install the inlet and outlet infrastructure for Pond C, thereby allowing WAS to efficiently store and release water under its augmentation plan. Construction is anticipated to being in fall 2018 and be complete in spring 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Chilcott Augmentation Station

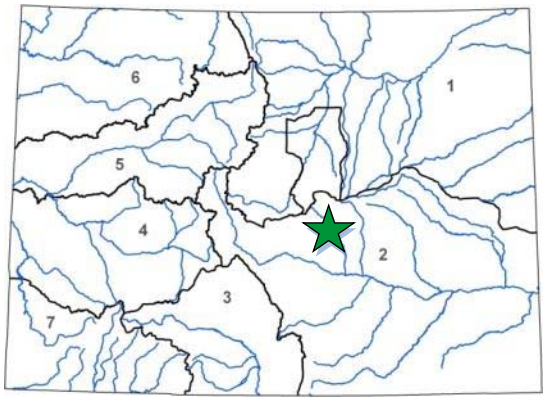
Chilcott Ditch Company

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$500,000
CWCB Loan (with Service Fee):	$505,000
Loan Term and Interest Rate:	20 Years @ 2.55%
Funding Source:	Construction Fund

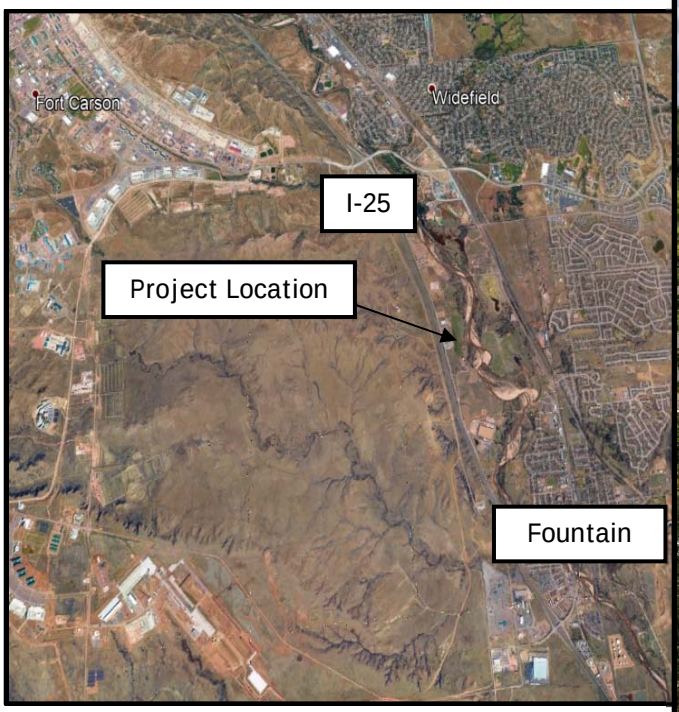
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 100% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	4,961 AF



LOCATION			
County:			El Paso
Water Source:			Fountain Creek
Drainage Basin:			Arkansas
Division:	2	*District:*	10

The Chilcott Ditch Company operates the Chilcott Ditch for the benefit of its shareholders by providing direct flow irrigation water. The ditch diverts from Fountain Creek, just north of the Town of Fountain, and water travels through the Company's eight-mile-long ditch to land under the ditch as well as to an augmentation station that measures return flow to Fountain Creek on behalf of shareholders taking delivery of their pro-rata share through the augmentation station. Over time the streambank near the augmentation station has eroded and undercut the augmentation station flume. This has caused concern about the structural stability and discharge functionality and operation of the augmentation station. The Company has concluded that the protection of the augmentation station is needed. The Company desires to stabilize the embankment and reconstruct the outfall and sand discharge line considering a 100-yr flood recurrence interval and associated streamflow and water surface profile. Construction is scheduled for the fall of 2018/winter of 2019.



Current streambank and outfall conditions

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Ditch System Improvements

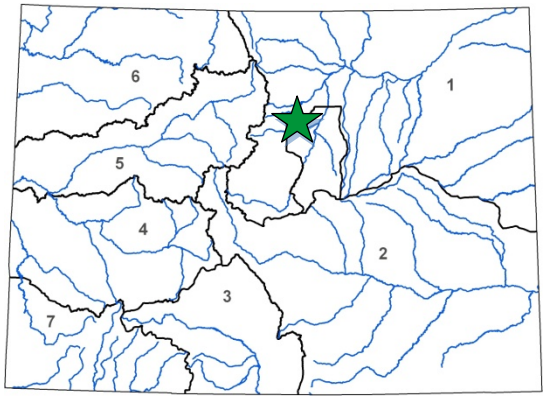
Church Ditch Water Authority

July 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$3,580,000
CWCB Loan (with Service Fee):	$3,615,800
Loan Term and Interest Rate:	30 Years @ 3.0%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 33% Mid - 67% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	10,500 AF

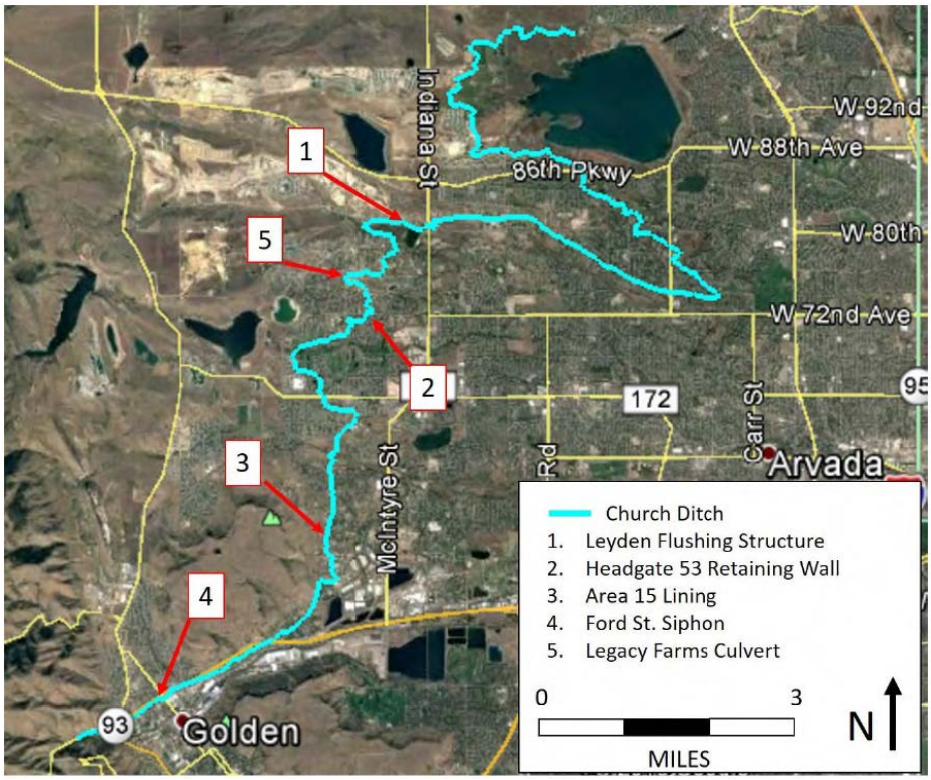


LOCATION			
County:			Jefferson
Water Source:			Clear Creek
Drainage Basin:			South Platte
Division:	1	*District:*	7

The Authority was formed in 2004 by the cities of Northglenn and Westminster to operate the Church Ditch. The ditch is 26-miles long and carries water from its headgate in Clear Creek, near Golden, through Jefferson County until it ends near the intersection of 100th Ave and Simms St at the Wilson Flume. There are 97 Contractual Users who receive water from the ditch.

The Authority and Ecological Resource Consultants (ERC) created a Master Plan in 2009 to identify areas in need of maintenance, modification, or replacement. Since 2009, the Authority has been completing identified projects as time and budgets have allowed. Currently, the following five projects have been identified as the highest priority for the Authority over the next two years. (1) The Leyden Creek Flushing Structure will replace the aging structure and improve efficiency, safety, and maintenance. (2) The Headgate 53 Retaining Wall project will repair a concrete block wall which was installed as an emergency fix due to the 2013 flood. (3) The Area 15 Ditch Lining will line a section of ditch where the dewatering by new homes and businesses adjacent to the ditch are causing increased water loss in the ditch. (4) The Ford Street Siphon will address a 75 year old culvert that is at or near the end of its expected lifespan. Finally (5) the Legacy Farms Culvert will replace an undersized culvert which is currently creating a bottleneck.

All projects will be constructed during the non-irrigation season and are planned to be complete by spring of 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Consolidated Diversion and Headgate Replacement

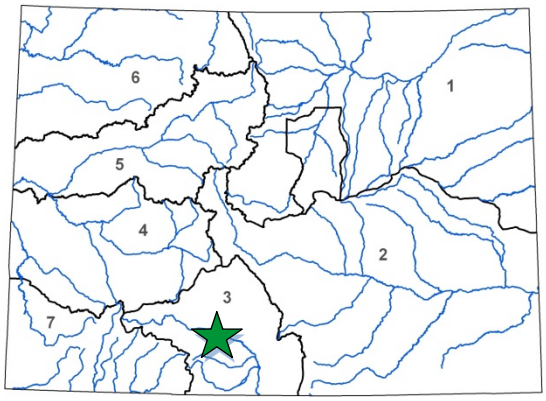
Consolidated Ditch and Headgate Company

July 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$1,862,000
CWCB Loan (with Service Fee):	$1,010,000
Loan Term and Interest Rate:	30 Years @ 1.8%
Funding Source:	Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

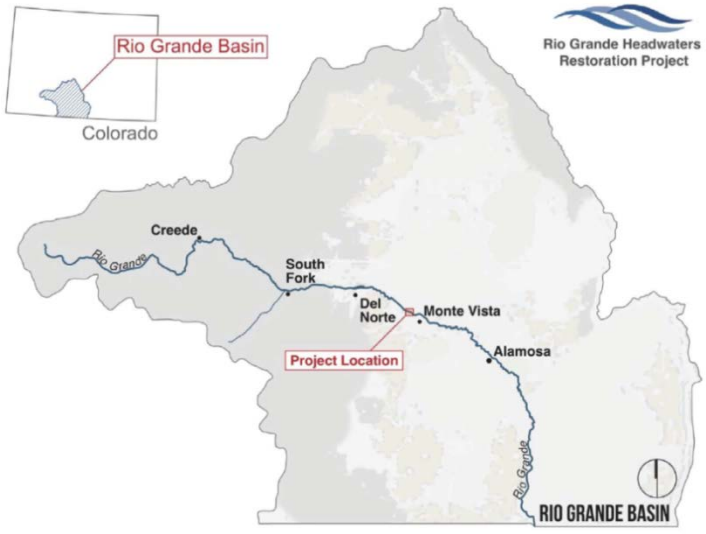
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	33,500 AF



LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The Company is a Mutual Ditch Company formed in 1910. Its diversion and headgate structures are located five miles northwest of Monte Vista on the Rio Grande. The company serves 38 shareholders made up of water right owners who use the ditch as a carrier ditch. The diversion dam and headgate structures are at the end of its service life and are no longer effective at low or high river flows. These structures were highlighted as river rehabilitation priorities in 2001 study titled "Rio Grande Headwater Restoration Project." That study analyzed the condition of riparian habitats and structures along a 91-mile reach of the Rio Grande from the town of South Fork to Alamosa.

The Company has partnered with the Colorado Rio Grande Restoration Foundation, the fiscal agent for the Rio Grande Headwater Restoration Project, to organize and raise funds for the Project. The Natural Resources Conservation Service is providing design and construction oversight for the project, as well as a $750,000 grant from its Environmental Quality Incentive Program (EQIP). The Foundation will be including this Project as part of a WSRF grant request that, if approved by the Rio Grande Roundtable, will be heard at the CWCB September 2017 Board Meeting. The EQIP grant funds are subject to forfeiture if the Project does not begin construction in Fall 2017. Therefore, to ensure construction can begin as soon as river conditions allow, the Company is seeking this CWCB loan to cover its full cost share. Any WSRF grant funds obtained for this Project will reduce the final loan amount.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Piping the Duke Ditch

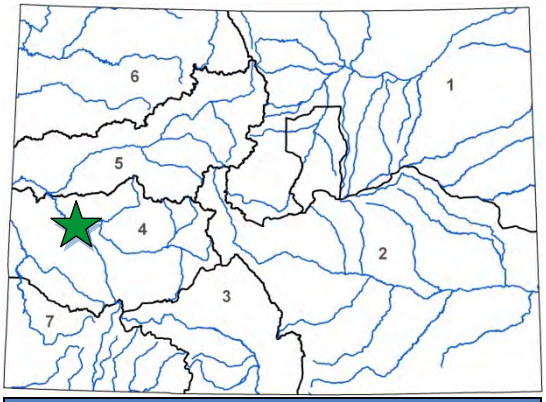
Duke Ditch Company

March 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$749,374
CWCB Loan (with Service Fee):	$90,900
Loan Term and Interest Rate:	30 years @ 2.0%
Funding Source:	Construction Fund, WSRA, Salinity Control

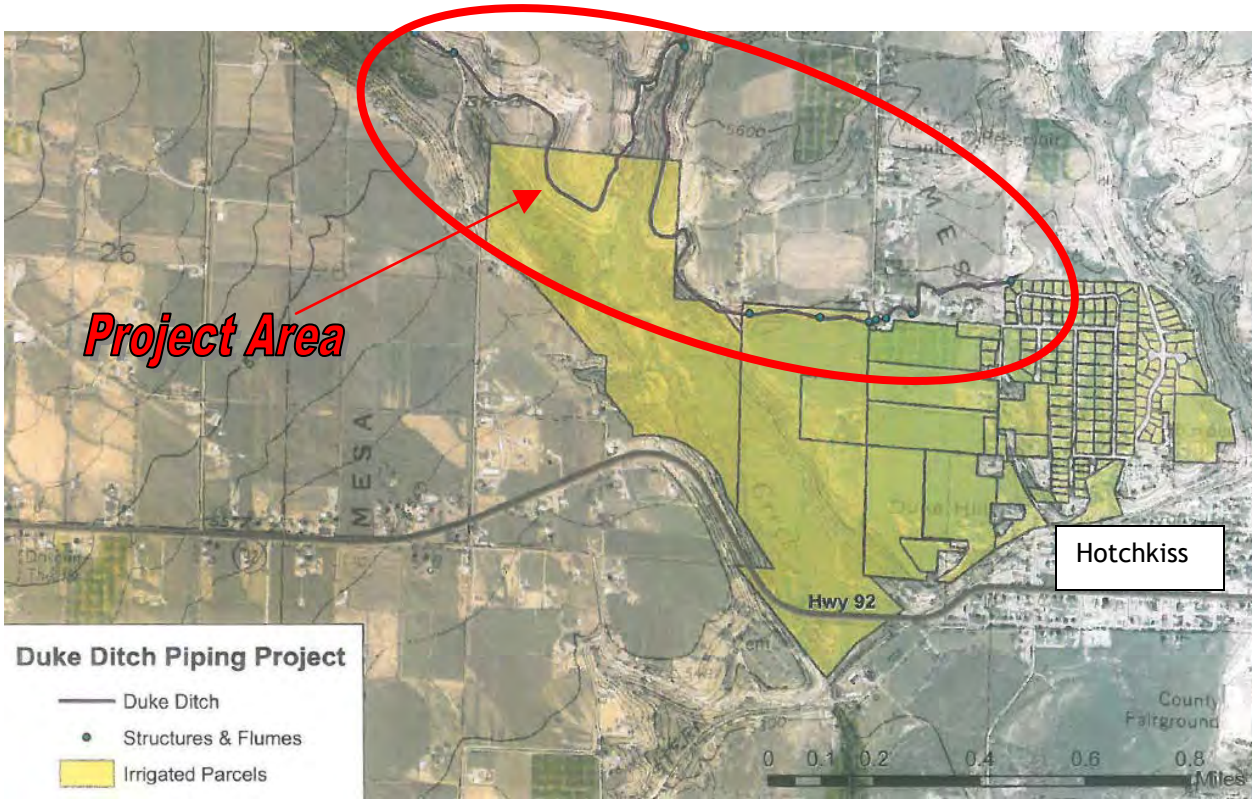
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
68%	32% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,424 AF



LOCATION			
County:			Delta
Water Source:			Leroux Creek
Drainage Basin:			Gunnison
Division:	4	*District:*	42

The Duke Ditch Company diverts from Leroux Creek and Barrow Gulch, west of the Town of Hotchkiss, and delivers water through the Company's ditch to a 380-acre service area. The earthen ditch traverses a steep hillside in the Leroux Creek canyon where it is prone to washout and is subject to significant seepage and evaporative losses. As a result of the location, it has significant maintenance and aquatic vegetation growth issues. The deep percolation of irrigation water in this area contributes salinity and selenium to the Colorado River system; therefore, the Company obtained a $464,000 Salinity Control Program grant (61% of project costs) and a $100,900 NRCS grant (13% of project costs), as the project is expected to reduce salt loading to the Colorado River system by 395 tons/year. In addition, the Company is applying for a $47,237 basin grant and a $47,237 statewide grant from the Water Supply Reserve Account Grant Program to pipe the entire 2.7 miles of ditch. Construction is scheduled for the fall/winter of 2016/2017.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Adobe Creek Dam Rehabilitation

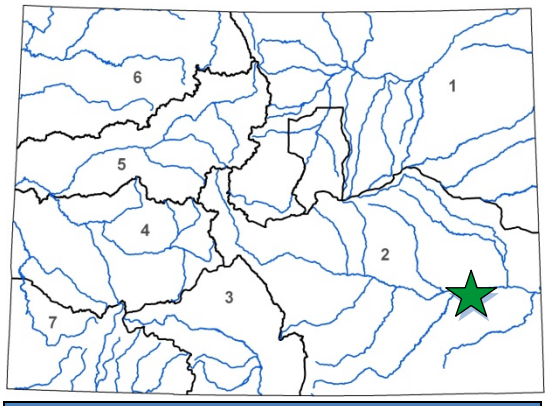
Fort Lyon Canal Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$9,200,000
CWCB Loan (with Service Fee):	$8,181,000
Loan Term and Interest Rate:	40 years @ 1.50%
Funding Source:	WSRF & Severance Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
99.1%	<1% Low - TBD% Mid -0% High	<1%

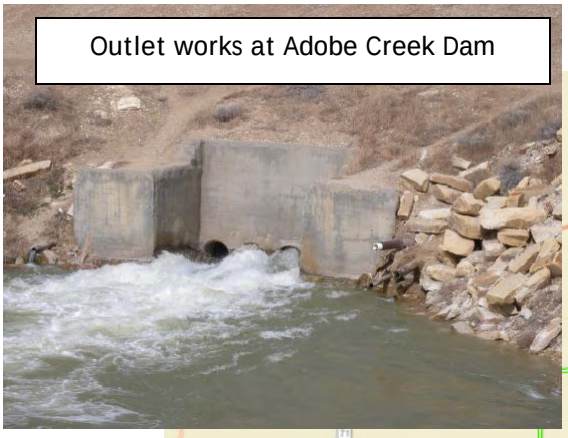
PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	221,000 AF
Recovered Storage:	32,560 AF
Preserved Storage:	81,692 AF



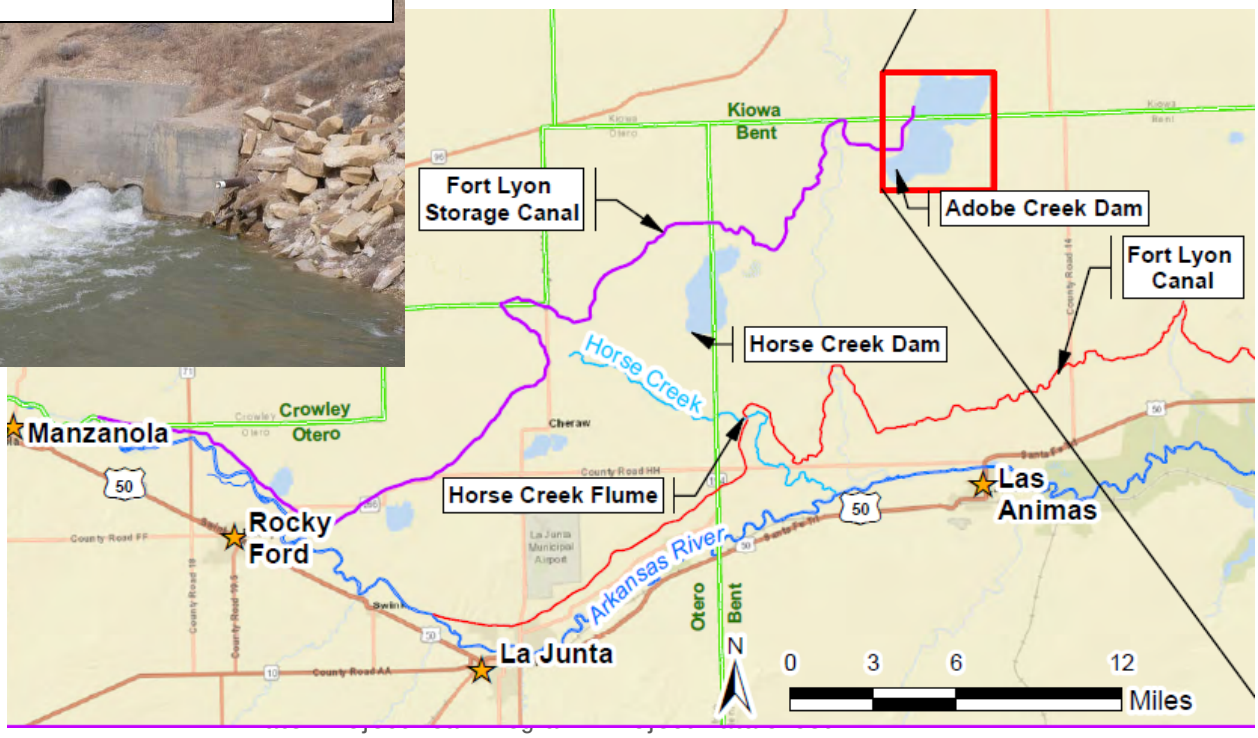
LOCATION			
County:			Bent
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	17

Adobe Creek Reservoir (also known as Blue Lake) is owned by the Fort Lyon Canal Company. The dam is 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 water is used to irrigate approximately 93,000 acres of land in Bent, Otero, and Prowers County.

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 in the dam's foundation and deteriorated conditions in the 112-year-old, vitrified clay outlet works. Through this loan, the Company intends to design and construct 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. The project will also be funded by a $100,000 Water Supply Reserve Fund (WSRF) Arkansas Basin grant and a $1,000,000 Statewide WSRF grant. Construction is expected to being in late 2018.



Outlet works at Adobe Creek Dam



CWCB Water Project Loan Program
Project Data Sheet

C150359

Borrower: Town of Fowler, Water Enterprise

County: Otero

Project Name: Augmentation Pipeline Project

Project Type: Augmentation

Drainage Basin/ District: Arkansas / 17

Water Source: Arkansas River

Total Project Cost: $305,000

Funding Source: Construction Fund

Type of Borrower: Municipal (Low)

Average Annual Diversion: 157 AF

CWCB Loan: $277,245
(with 1% Service Fee)

Interest Rate: 2.25% **Term:** 30 years

The Town is located in Otero County along Highway 50, approximately 35 miles east of Pueblo. It has approximately 1,185 residents. The Town's water system service area includes the Town and adjacent areas within unincorporated Otero and Crowley Counties for a total of 709 taps. Per a water court mandate, the Town must separate its augmentation water from its stormwater. The purpose of this project is to construct a diversion box to separate stormwater from augmentation water and to pipe the augmentation water to the Arkansas River. Construction of the Project is scheduled for the fall of 2013 with completion expected to occur by the end of the year.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Tunnel and Canal Renovation

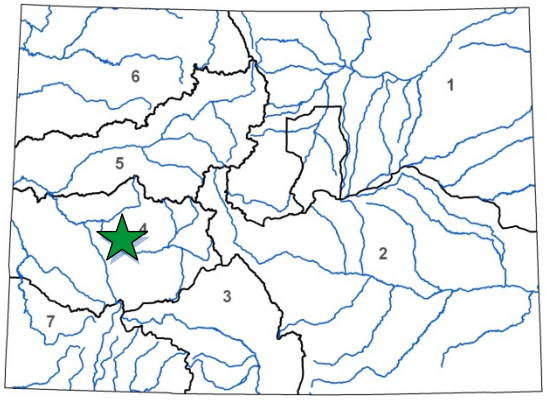
Fruitland Irrigation Company

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$10,509,000
CWCB Loan (with Service Fee):	$1,746,290
Loan Term and Interest Rate:	40 Years @ 2.0%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	10,103 AF



LOCATION			
County:			Delta & Montrose
Water Source:			Crystal Creek
Drainage Basin:			Gunnison
Division:	4	*District:*	40

The Company owns and operates the 17.7 mile-long earthen Fruitland Highline Canal, the 22 mile-long earthen Gould Canal including 0.8 miles through two rock tunnels, and the 10,168 AF Gould Reservoir. The Fruitland Highline Canal diverts from Crystal Creek, 13 miles south of the Town of Crawford and provides irrigation water to approximately 5,900 acres in Delta and Montrose Counties.

The Company is seeking a CWCB Loan and a WSRF Grant as part of an overall funding package for the Tunnel and Canal Renovation Project. The two tunnels in the Gould Canal are over 100 years old and have eroded to the point that its structural integrity is threatened. A collapse would eliminate the ability to deliver irrigation water after the junior direct flow rights are out of priority, typically in mid-June. Additionally, the Fruitland Highline and Gould Canals are located within the Colorado River salinity control area. The seepage losses are estimated to be 12.5 cfs, or 1856 AF annually which equates to approximately 6,053 tons of salt to the Colorado River system.

CWCB funding will be used to pipe the Gould Canal from Gould Reservoir through the two tunnels, a distance of approximately 2.1 miles and line the earthen canal for approximately 10.3 miles.


Canal to be piped


Canal to be lined

CWCB Water Project Loan Program
Project Data Sheet

Borrower: Grand Mesa Water Conservancy District

County: Delta

Project Name: Peak Reservoir and Blanche Park Reservoir Rehabilitation

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: Gunnison / 40

Water Source: Surface Creek

Total Project Cost: $640,000

Funding Source: Construction Fund/ WSRA Gunnison Basin Funds

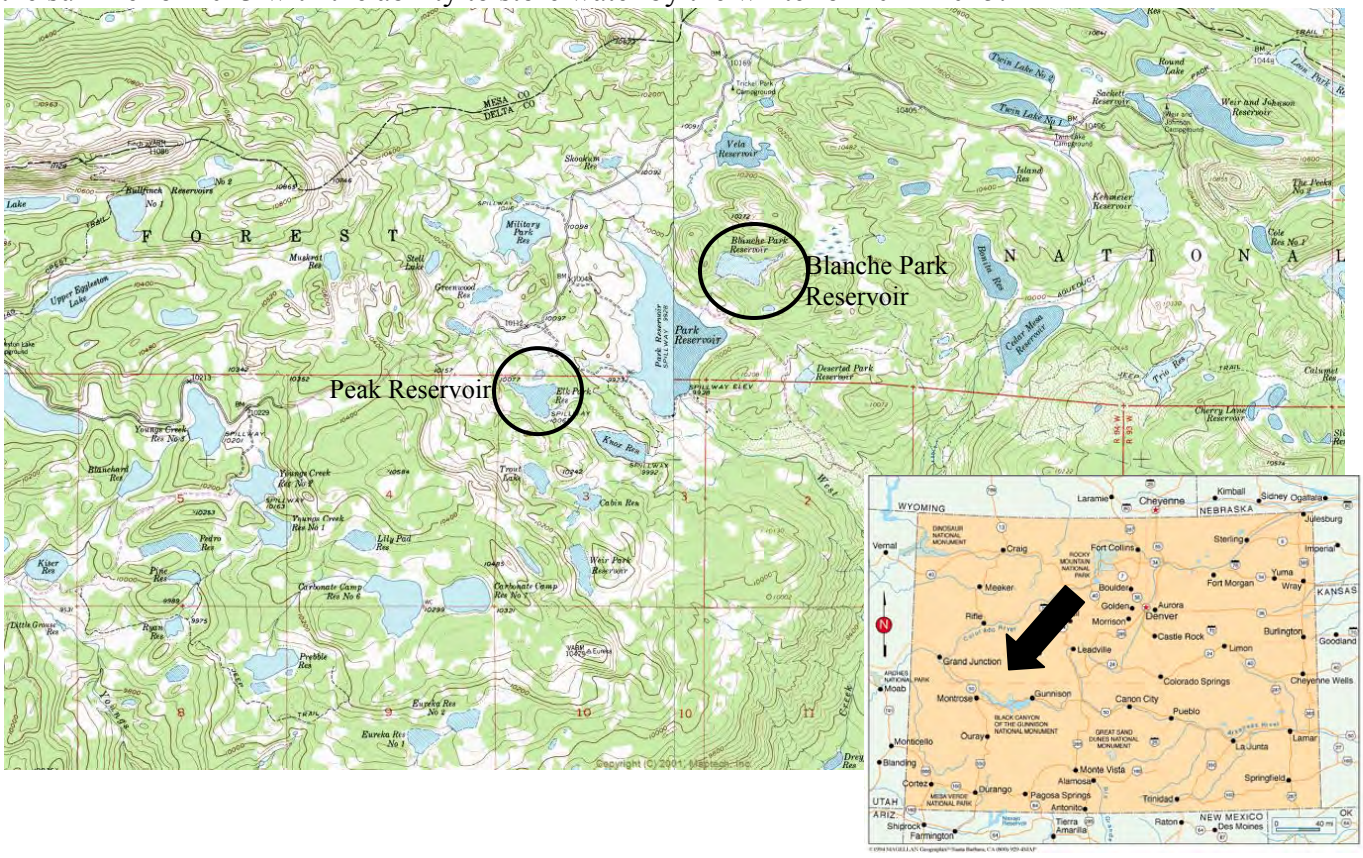
Type of Borrower: Municipal/Agricultural

Average Annual Diversion: 400 AF
Storage Added: 155 AF

CWCB Loan: $227,250
(with 1% Service Fee)

Interest Rate: 1.55%* **Term:** 20 years
(Reduced from 1.8% blended rate)

The Grand Mesa Water Conservancy District owns several reservoirs and a network of ditches to service agricultural users and municipal users including the Town of Orchard City and Cedaredge. It is requesting a loan to rehabilitate Peak Reservoir and Blanche Park. Both reservoirs are located in the Grand Mesa National Forest and have not been used in nearly 50 years. The District has already contributed $352,500 towards Project costs and has also been awarded $75,000 in Water Supply Reserve Account (WSRA) Gunnison Basin Roundtable grant funds. Peak Reservoir involves earthwork on the dam and new outlook works. Blanche Park reservoir work will be a complete rebuilding of the dam. Construction is expected to resume in the summer of 2013 with the ability to store water by the winter of 2014-2015.



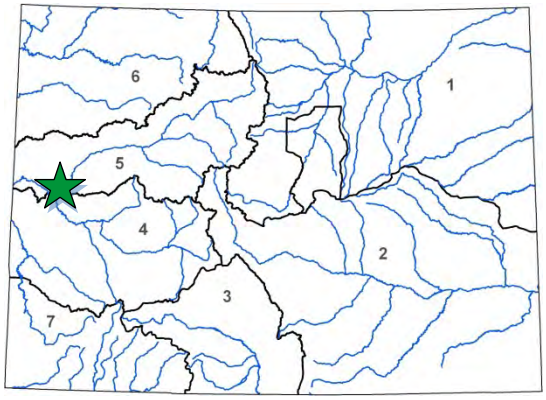
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Grand Valley Power Plant Rehabilitation

Grand Valley Water Users Association

November 2016 Board Meeting

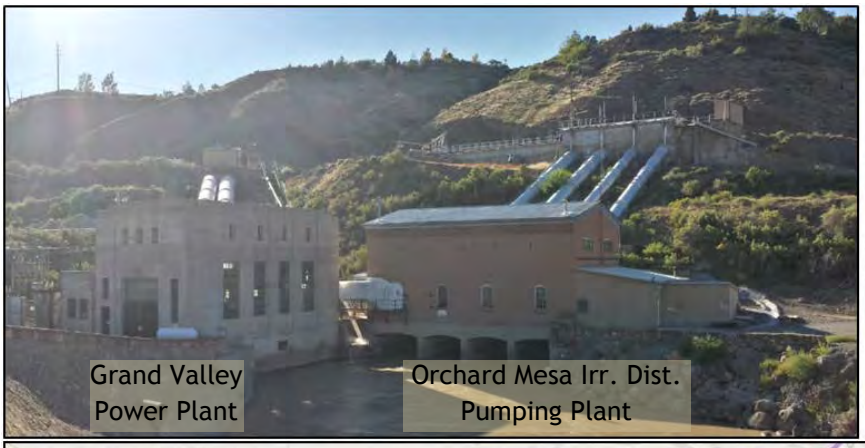
LOAN DETAILS	
Project Cost:	$5,200,000
CWCB Loan (with Service Fee):	$1,717,000
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Construction Fund
BORROWER TYPE	
Hydropower	
PROJECT DETAILS	
Project Type:	Hydroelectric
Average Annual Power Production:	17M kWh



LOCATION			
County:			Mesa
Water Source:			Colorado River
Drainage Basin:			Colorado
Division:	5	*District:*	72

The Grand Valley Water Users Association (Association) and Orchard Mesa Irrigation District (District) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Engergy) in conjunction with the Cameo coal fired power plant. The Association and District took operational control of the plant when Xcel decided to cease its operations. The Association and District equally split costs and revenues from the GVPP under a Lease of Power Privilage with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an importnant role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat. The non-consumptive hydropower water right ensures continued flows for this important stretch of river.

The goal of the Project is to bring the GVPP up to a sustainable operating condition and meet current electric and safety standards. The GVPP was built in the early 1930s and has seen no major upgrades or modernization to date. Under current operations, the "water-to-wire" efficiency is approximately 54% with a maximum generation output of 2.5 MW. Calculations show as much as 4.1MW production should be feasible based on flow rate and available head.


Grand Valley Power Plant


Orchard Mesa Irr. Dist. Pumping Plant

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Pioneer Reservoir

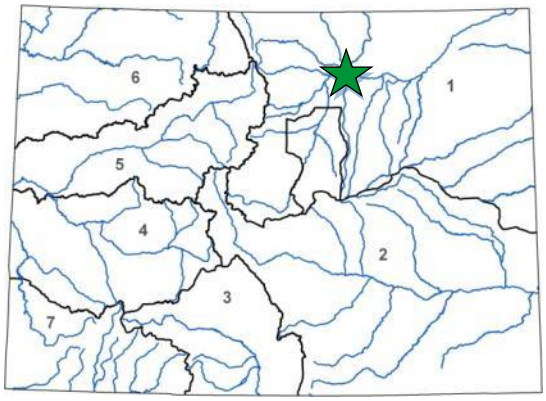
Groundwater Management Subdistrict of Central Colorado Water Conservancy District

March 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$8,611,000
CWCB Loan (with Service Fee):	$8,697,110
Loan Term and Interest Rate:	10 years @ 1.20%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

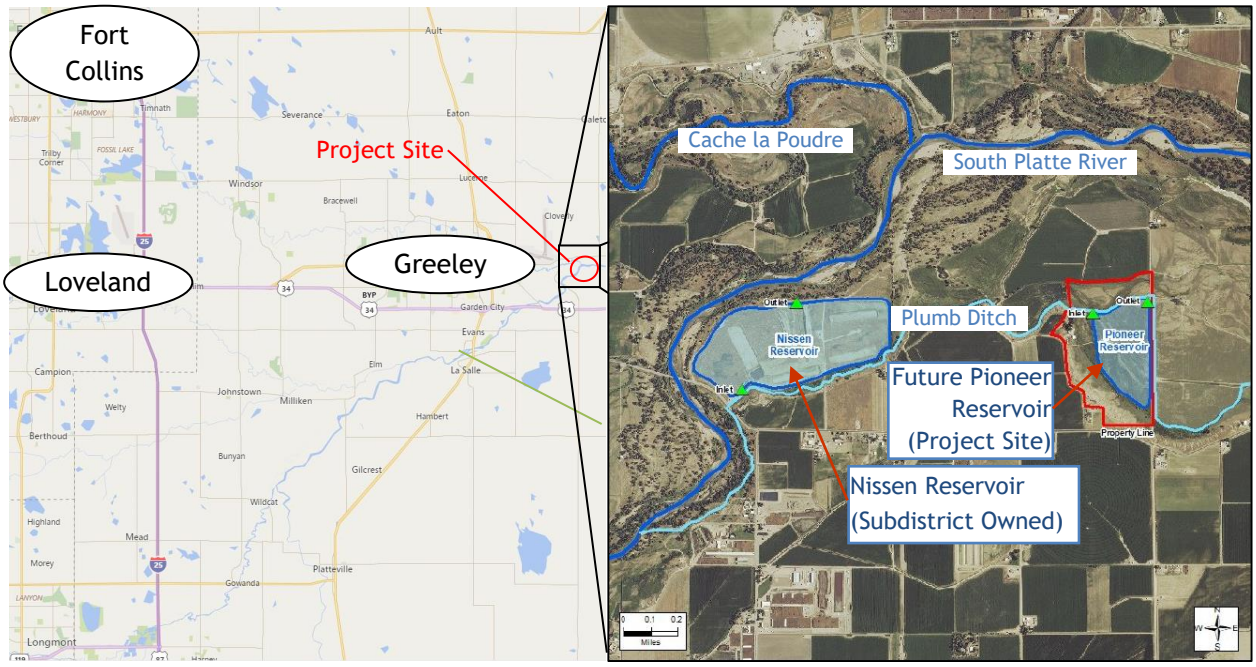
PROJECT DETAILS	
Project Type:	Reservoir New
Storage Created:	2,000 AF



LOCATION			
County:			Weld
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. The Groundwater Management Subdistrict, formed in 1973, is a Subdistrict to CCWCD and operates an augmentation plan for alluvial irrigation wells.

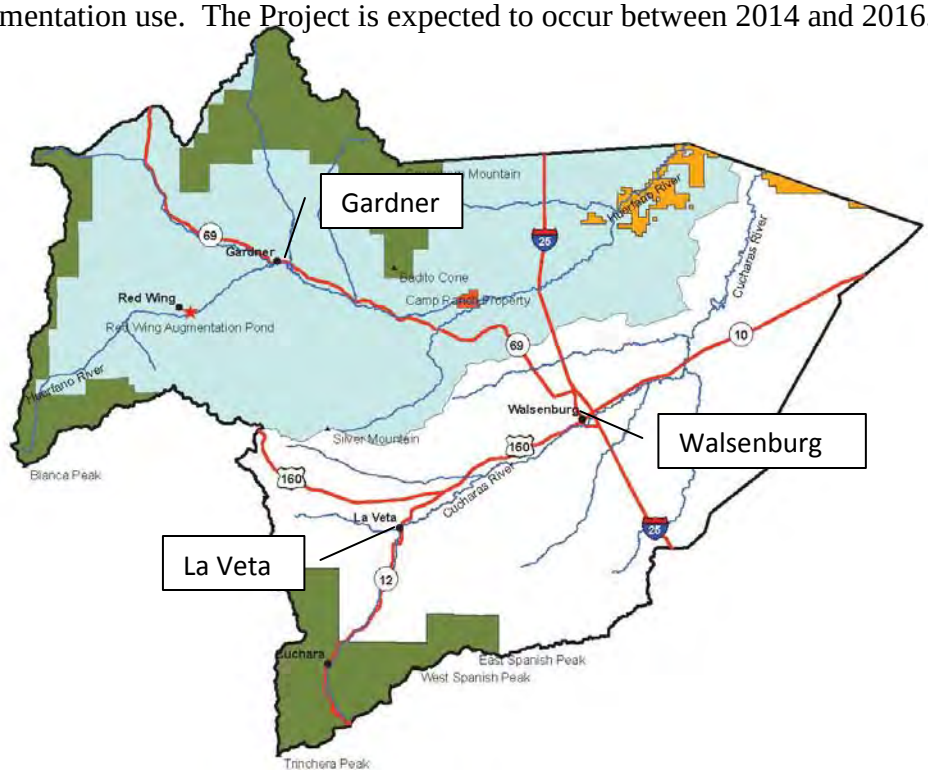
The Pioneer Reservoir Project is located east of Greeley in Weld County near the confluence of the South Platte River and the Cache la Poudre. The Project involves the purchase of a slurry wall lined gravel pit which will be reclaimed into a water storage reservoir. Water stored in the reservoir will be used in the Subdistrict's plan for augmentation as a replacement supply for depletions caused by pumping of member alluvial wells. The purpose of the Project is to increase irrigation opportunities for agricultural production within the Subdistrict's service area by increasing the Subdistrict's reliable water supplies. Diversions into and out of the reservoir will occur via the Plumb Ditch off the South Platte River. Mining and reclamation of the pit is expected to be complete by 2021 and infrastructure improvements are expected to be completed by 2022.



Water Project Loan Program
Project Data Sheet

Borrower:	Huerfano County Water Conservancy District	**County:**	Huerfano
Project Name:	Regional Augmentation Project	**Project Type:**	Water Rights Acquisition and Augmentation
Drainage Basin:	Arkansas / District 67	**Water Source:**	Huerfano River
Total Project Cost:	$3,050,000	**Funding Source:**	Construction Fund
Type of Borrower:	Low-Income Municipal	**Avg. Annual Diversions:**	19.5 AF
CWCB Loan:	$2,222,000 (w/ 1% service fee)	**Interest Rate:**	2.25% **Term:** 30 years

The Huerfano County Water Conservancy District is applying for a CWCB loan to develop a regional augmentation program to replace depletions of wells in unincorporated communities in Huerfano County through a regional augmentation program. Within Huerfano County there are many water users that are at risk of being curtailed due either to being out of priority or due to failing (or failed) augmentation plans. The users include schools and domestic, commercial, and agricultural users. The District has utilized a Substitute Water Supply Plan and Regional Rule 14 Replacement Plan from 2009 to 2013 to provide augmentation water to five entities that were in danger of having water use curtailed due to out of priority usage. The District believes that other water users will find it necessary to join the regional augmentation plan and the Division Engineer has indicated an urgent need for such a plan. Project components include: the purchase of land and water rights, the construction of a recharge reservoir, and the construction of a reservoir for augmentation use. The Project is expected to occur between 2014 and 2016.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Repurposing of Wells 12 and 13

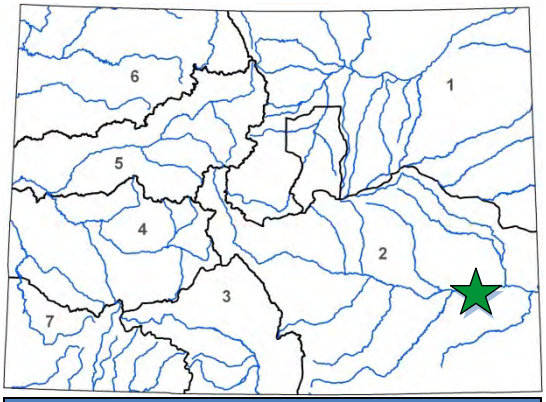
City of Lamar

September 2015 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$101,000
Loan Term and Interest Rate:	10 Years @ 1.95%
Funding Source:	WSRA & Sev. Tax Perpetual Base Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Municipal & Industrial
Average Annual Delivery:	2,005 AF



LOCATION			
County:			Prowers
Water Source:			Arkansas River
Drainage Basin:			Arkansas River
Division:	2	*District:*	67

The City of Lamar, through its Water and Wastewater Department, has been providing the city with water and sewer services for over 135 years. Although the City has undertaken numerous upgrades, rehabilitation, and expansion projects over the years, most of the existing infrastructure was funded and built during New Deal-era programs. The City's Wells 12 and 13 were developed in the 1950s and used for municipal potable water supply until 2012, when Microscopic Particulate Analysis water quality testing was conducted, resulting in a reclassification of both wells as Ground Water Under Direct Influence of Surface Water (GWUDI) by the Colorado Department of Public Health and Environment (CDPHE). The wells were taken out of service at that time. A Feasibility Study conducted in 2014 concluded that it is feasible to redevelop both wells for non-potable irrigation use. Once this project is completed, water can be used for any non-potable municipal application, including irrigation of a city-owned cemetery and a golf course, both of which are currently watered with potable water.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Headgate Structure Replacement

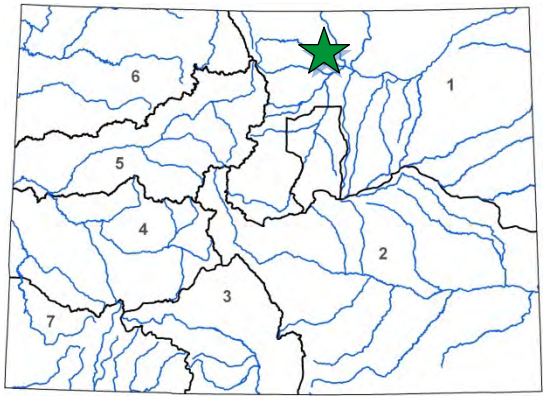
Larimer and Weld Irrigation Company

September 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$750,000
CWCB Loan (with Service Fee):	$681,750
Loan Term and Interest Rate:	30 Years @ 1.5%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
96%	0% Low - 4% Mid - <1% High	0%

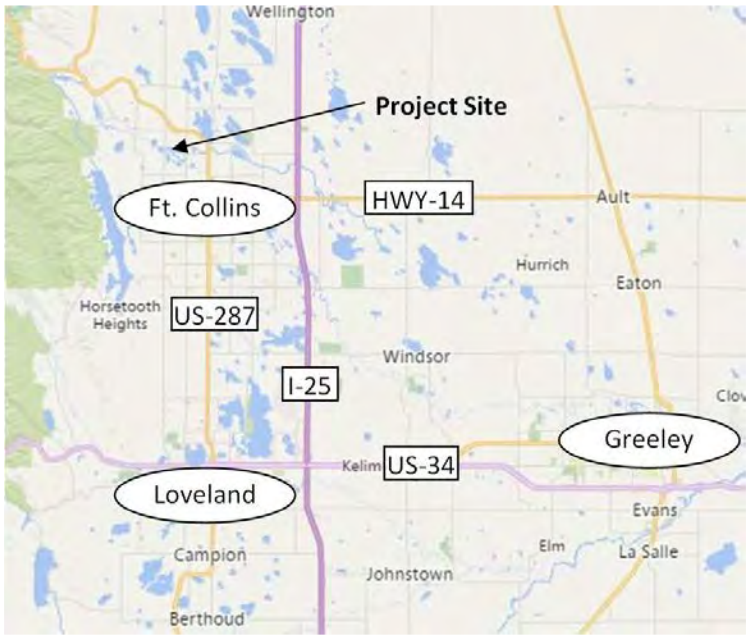
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	85,000 AF

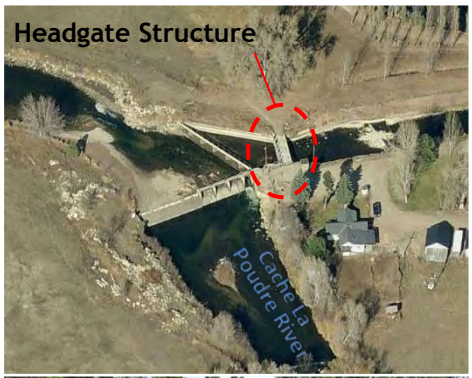


LOCATION			
County:			Larimer & Weld
Water Source:			Cache la Poudre River
Drainage Basin:			South Platte
Division:	1	*District:*	3

The Larimer and Weld Irrigation Company is a Colorado Mutual Ditch Company and a nonprofit corporation. The Company's service area extends from the Cache la Poudre River diversion north of Fort Collins, east to near the town of Galeton, encompassing approximately 61,000 acres of irrigated land in Larimer and Weld Counties. The Company's diversion off the Cache la Poudre River is aging and in need of repair. This Project will focus on replacing the headgate structure, including the concrete structure, gates, and gate operators. The replacement of the trash rack and forebay structure, and repairs to the diversion structure, are planned to take place within the next few years and are not a part of this Project.

The City of Fort Collins has developed a flood control plan for the Dry Creek Basin, which in part uses the Larimer & Weld Ditch as a conveyance for flood flows in Dry Creek. Therefore, should a flood occur in the Dry Creek Basin, it is of great importance for life, safety, and prevention of property damage, that the ditch's upstream headgate off the Poudre River be able to close so there is capacity available in the ditch to handle flood flows. Construction activities will include the replacement of the concrete structure, new gates and operators, and a new control building. Construction is expected to occur between the 2016 and 2017 irrigation seasons.





COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Allen's Lake Filler Canal Improvements

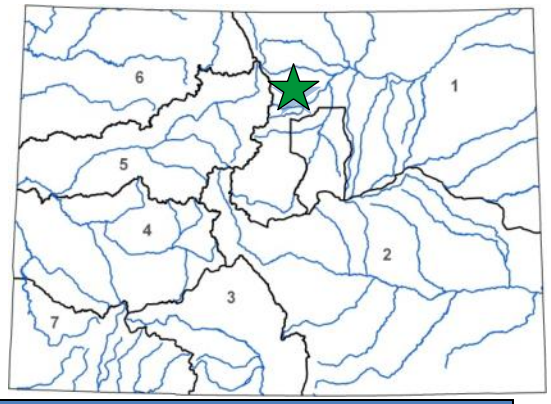
Left Hand Ditch Company

January 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$665,000
CWCB Loan (with Service Fee):	$671,650
Loan Term and Interest Rate:	30 Years @ 2.50%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
49%	<1% Low - 19% Mid - 32% High	0%

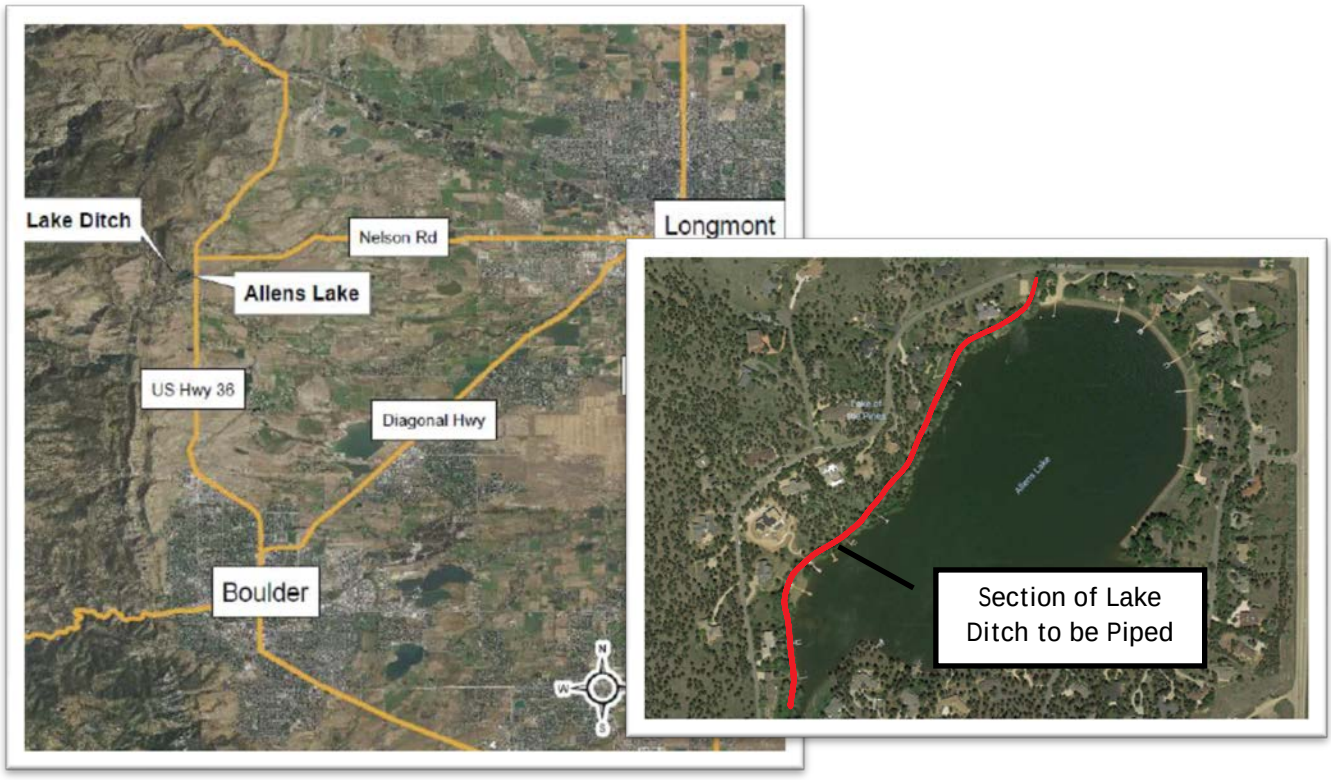
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	50,000 AF



LOCATION			
County:			Boulder
Water Source:			Left Hand Creek
Drainage Basin:			South Platte
Division:	1	*District:*	5

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

The Allen's Lake Filler Canal Improvements Project focuses on a 2,400-foot reach of Lake Ditch which parallels the west shore of Allen's Lake. The existing ditch is experiencing notable losses due to seepage and excessive sedimentation. This is preventing the ditch from delivering the Company's desired 25 cfs design flow. Due to the extremely narrow right-of-way (7.5 feet on both sides of ditch centerline), proper cleaning and maintenance of the ditch is uneconomical. Additionally, residents of the adjacent community surrounding Allen's Lake have built their own crossings and patios on the ditch. This gives rise to concerns of public safety and further restricts ditch cleaning efforts. To address these issues, the Company has opted to pipe the ditch with a 3.5-ft diameter pipe. Construction is anticipated to begin in the spring of 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Participation in Southern Water Supply Project II

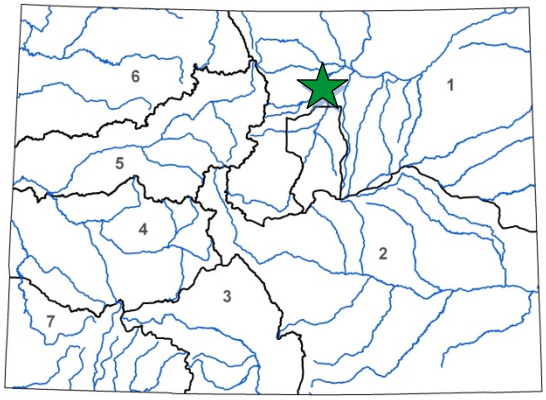
Left Hand Water District

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$10,735,300
CWCB Loan (with Service Fee):	$10,000,000
Loan Term and Interest Rate:	20 Years @ 2.75%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 30% Mid -70% High	0%

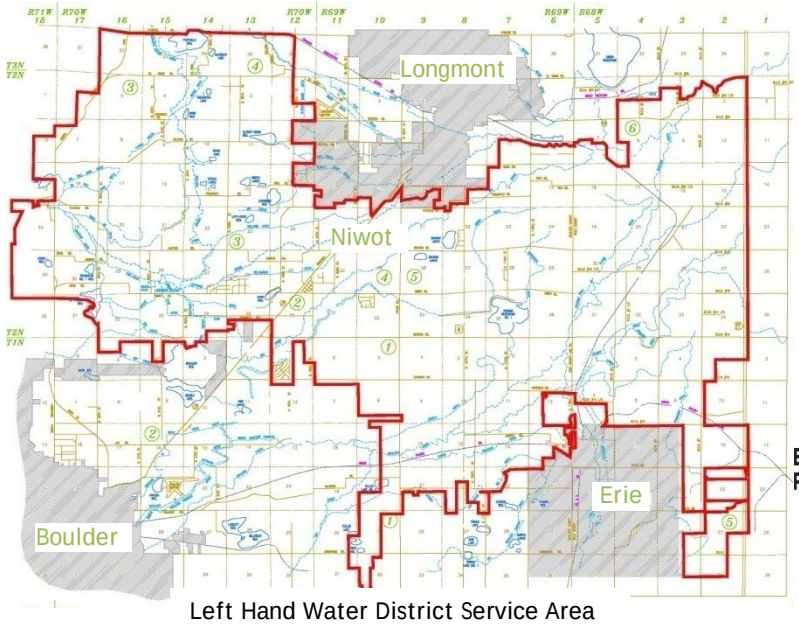
PROJECT DETAILS	
Project Type:	Municipal Water Supply System New
Average Annual Delivery:	4,400 AF



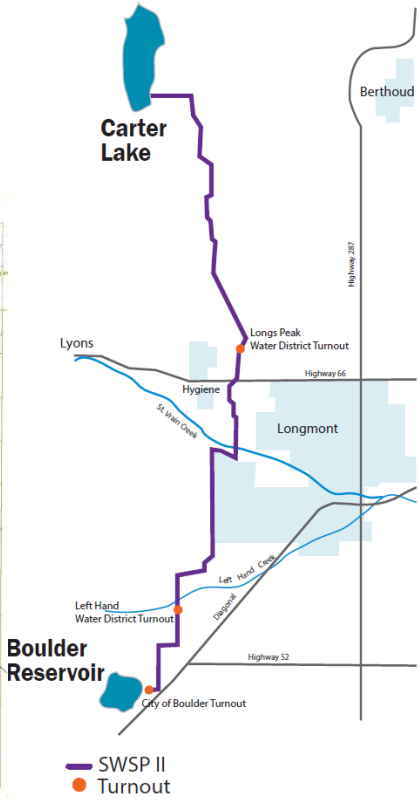
LOCATION			
County:			Broomfield, Weld
Water Source:			
Drainage Basin:			South Platte
Division:	1	*District:*	5

The District provides potable water service within a 108 square mile service area within unincorporated areas of Boulder and Larimer Counties; serving approximately 20,000 people through 7,154 individually metered taps. Water is treated at the Spurgeon Water Treatment Plant (WTP) and Dodd WTP. Spurgeon WTP is operated year-round while Dodd WTP is operated only during the irrigation season. By participating in the Southern Water Supply Project (SWSP) II, the District will be able to supply Dodd WTP with a year-round water supply, significantly reducing the risk associated with having only one water supply during the non-irrigation season, as well as reducing the maintenance associated with an open canal supplying water for treatment.

The SWSP II, proposed by Northern Colorado Water Conservancy District, is a 20-mile pipeline from Carter Lake to the Boulder Reservoir. The pipeline will deliver raw water for municipal use to Left Hand Water District (Borrower), Longs Peak Water District, and the City of Boulder. The full cost of the project is estimated to be $43,890,000. The Districts participation cost is estimated to be $10,735,000.The $10,000,000 CWCB loan will cover a majority of the District's participation cost. The District will use its cash reserves for any cost exceeding that exceeds the CWCB loan.



Left Hand Water District Service Area



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Ditch Piping Phase B

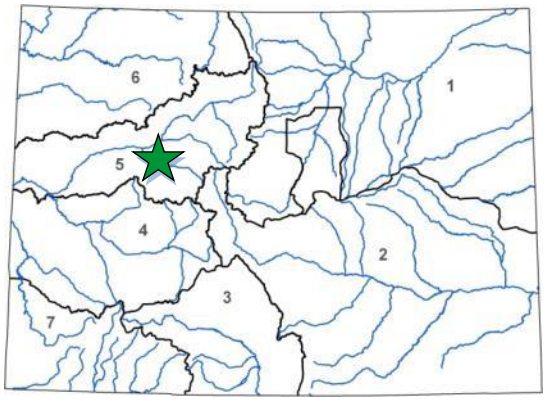
Missouri Heights Mountain Meadow Irrigation Company

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$400,000
CWCB Loan (with Service Fee):	$404,000
Loan Term and Interest Rate:	30 Years @ 2.05%
Funding Source:	Construction Fund

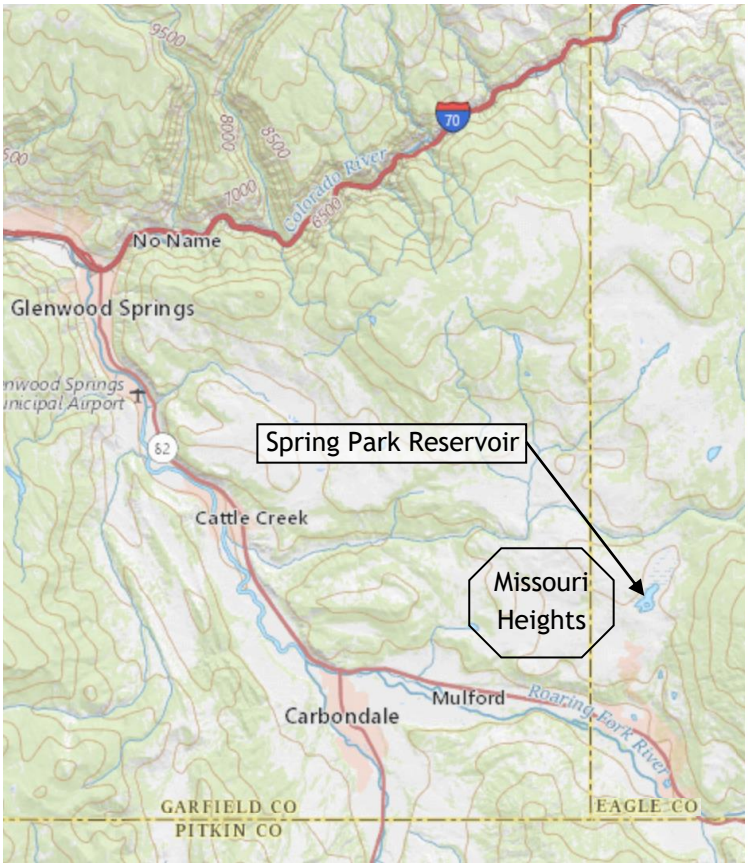
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
78%	0% Low - 0% Mid -22% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	5,500 AF



LOCATION			
County:			Garfield
Water Source:			Cattle Creek
Drainage Basin:			Colorado
Division:	5	*District:*	38

The Company operates the Missouri Heights Mountain Meadow Irrigation Ditch to provide irrigation water from the Spring Park Reservoir to approximately 2,000 acres of ranch land located 12 miles northeast of Carbondale. The Company worked with the Natural Resources Conservatio service (NRCS) to evaluate water losses within its ditch. Previous construction activity lined 3,500 LF of ditch and piped 5,750 LF of ditch. This Project will pipe 9,120 LF of ditch, a section where water losses are estimated to be as high as 20%. Construction for Phase B-1 is scheduled for fall of 2018. Construction for Phase B-2 is planned to occur in fall 2019.




Existing Lined Ditch Section


Existing Piped Ditch Section


Ditch Section To Be Piped

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Seeley Reservoir Dredging

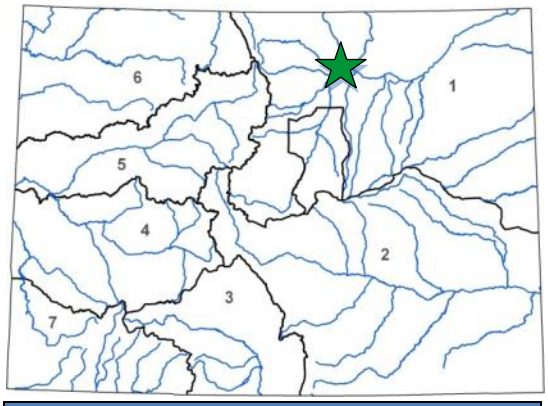
Ogilvy Irrigating and Land Company

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,667,740
CWCB Loan (with Service Fee):	$2,274,520
Loan Term and Interest Rate:	30 Years @ 1.70%
Funding Source:	Severance Tax PBF & Water Plan Grant

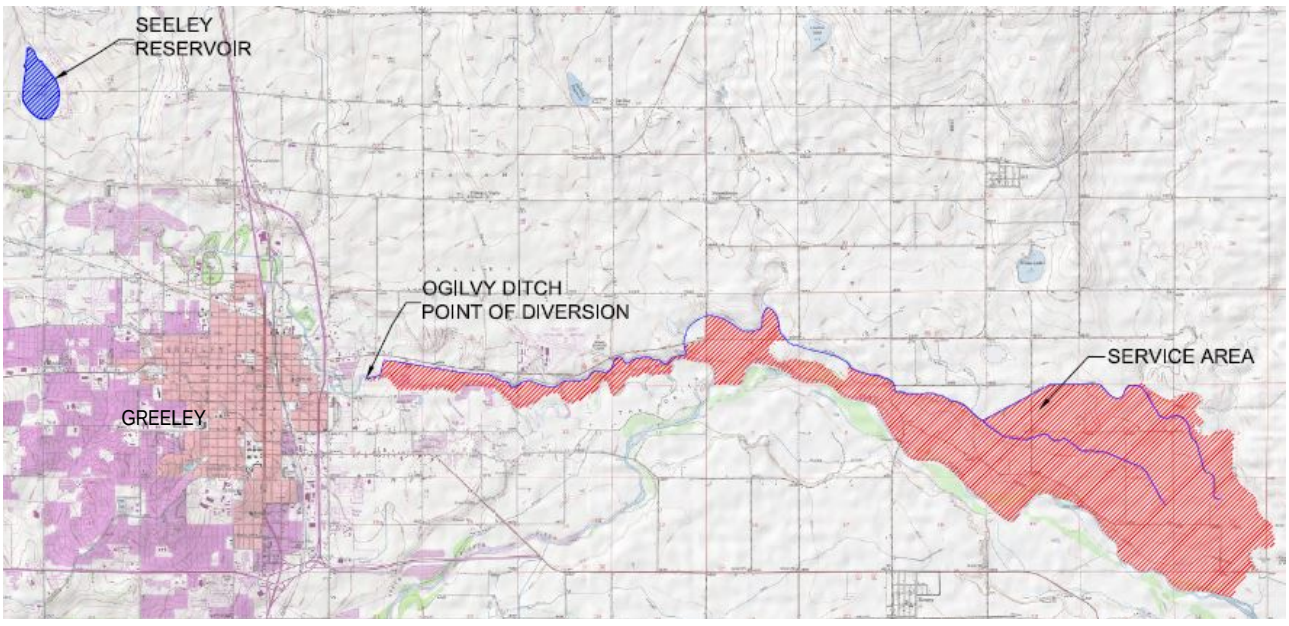
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
95%	5% Mid	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Diversions:	14,778 AF
Recovered Storage:	356 AF



LOCATION			
County:			Weld
Water Source:			Cache La Poudre
Drainage Basin:			South Platte
Division:	1	*District:*	3

The Ogilvy Irrigating and Land Company is a Colorado Mutual Ditch that owns and operates Seeley Reservoir and the Ogilvy Ditch. The Ogilvy Ditch system encompasses 3,600 acres from a Cache la Poudre River diversion, located on the east edge of Greeley to farms east of Kersey. Seeley Reservoir has a decreed capacity of 1,543 acre-feet. The proposed project will re-establish the physical capacity to this decreed volume. The water stored in the reservoir is used to provide supplemental irrigation supplies to the Ogilvy Ditch service area. Stored water is also used to provide augmentation water for the Ogilvy Augmentation Company, whose members own wells that provide irrigation water within the same service area. This project will recover 356 acre-feet of reservoir storage space that has been lost to sedimentation deposition over many years. New water storage sites have been considered, but would be limited to about 100 acre-feet of capacity. Sedimentation of Seeley Reservoir resulted largely because of the high inflows running through the steep inlet channel above the reservoir. The Colorado Department of Transportation completed major improvements to the Seeley Reservoir inlet channel at State Highway 392 in 2011 that substantially mitigated the conditions causing the erosion within the inlet ditch generating sediment at Seeley Reservoir. It is expected that the recurrence of sedimentation will be limited. Construction is scheduled for the fall of 2018. Funding will come from a Water Plan Grant for $1,415,740 and a CWCB loan.



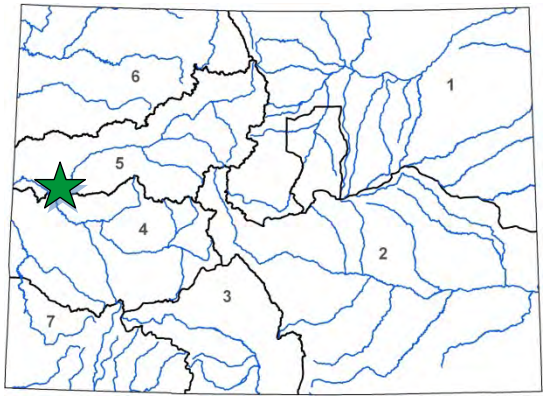
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Grand Valley Power Plant Rehabilitation

Orchard Mesa Irrigation District

November 2016 Board Meeting

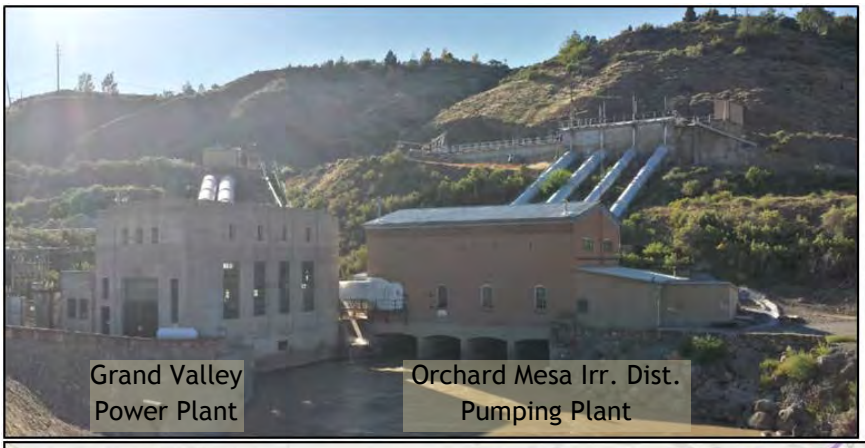
LOAN DETAILS	
Project Cost:	$5,200,000
CWCB Loan (with Service Fee):	$1,717,000
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Construction Fund
BORROWER TYPE	
Hydropower	
PROJECT DETAILS	
Project Type:	Hydroelectric
Average Annual Power Production:	17M kWh



LOCATION			
County:			Mesa
Water Source:			Colorado River
Drainage Basin:			Colorado
Division:	5	*District:*	72

The Orchard Mesa Irrigation District (District) and Grand Valley Water Users Association (Association) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Engergy) in conjunction with the Cameo coal fired power plant. The District and Association took operational control of the plant when Xcel decided to cease its operations. The District and Association equally split costs and revenues from the GVPP under a Lease of Power Privilage with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an importnant role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat. The non-consumptive hydropower water right ensures continued flows for this important stretch of river.

The goal of the Project is to bring the GVPP up to a sustainable operating condition and meet current electric and safety standards. The GVPP was built in the early 1930s and has seen no major upgrades or modernization to date. Under current operations, the "water-to-wire" efficiency is approximately 54% with a maximum generation output of 2.5 MW. Calculations show as much as 4.1MW production should be feasible based on flow rate and available head.


Grand Valley Power Plant


Orchard Mesa Irr. Dist. Pumping Plant

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Orchard Ranch Ditch Pipe Project

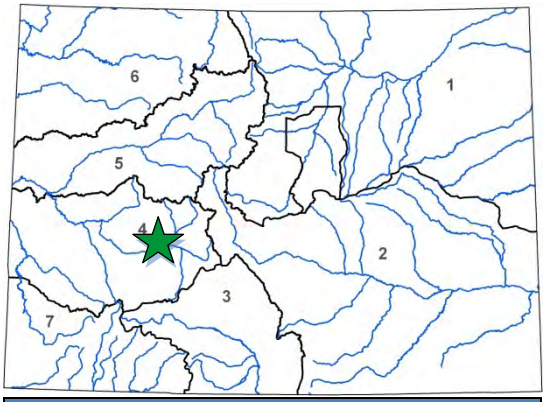
Orchard Ranch Ditch Company

January 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$1,430,720
CWCB Loan (with Service Fee):	$151,500
Loan Term and Interest Rate:	30-Years @ 1.95%
Funding Source:	Severance Tax Perpetual Base Fund

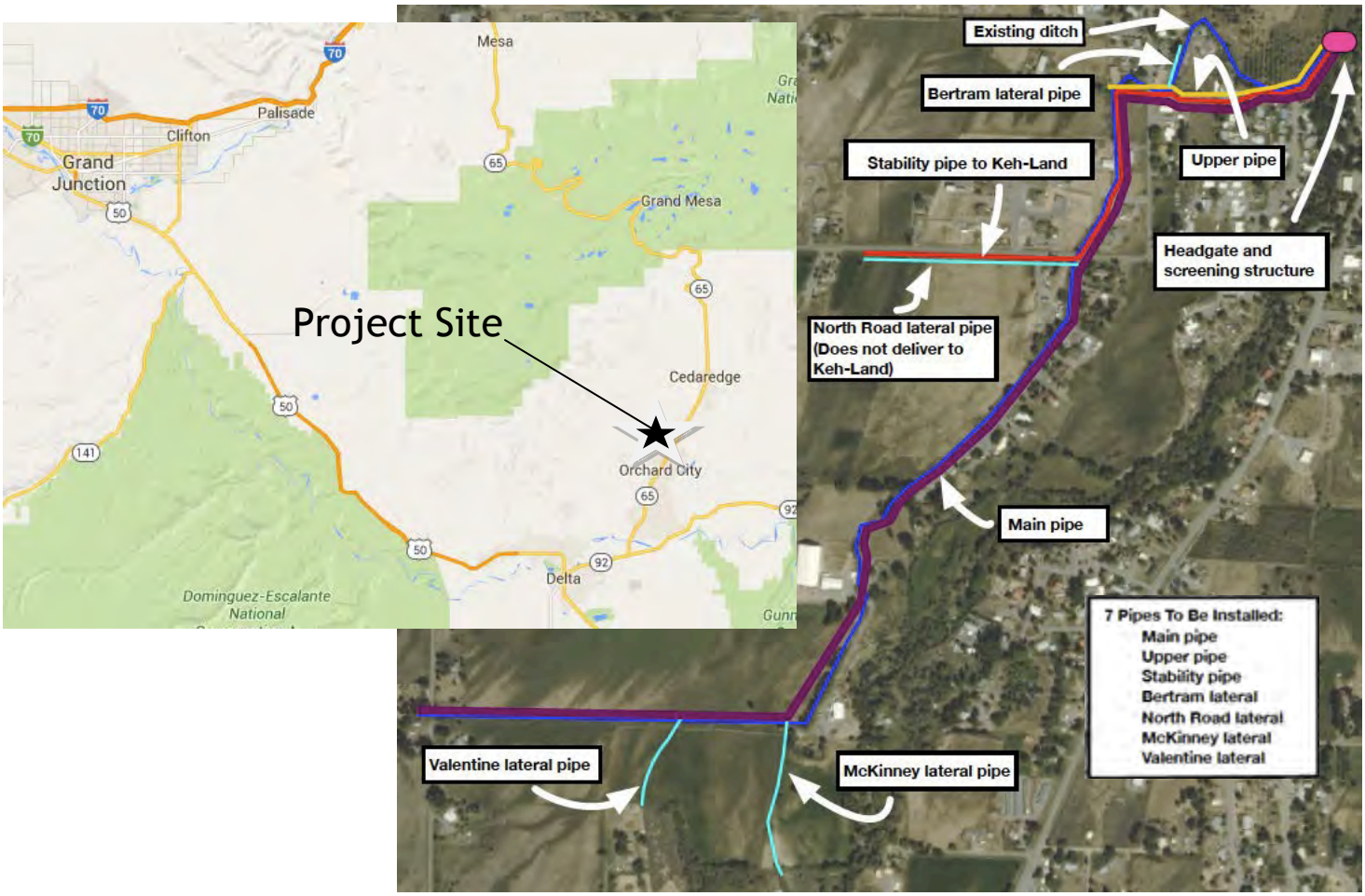
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
86%	14% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,750 AF



LOCATION			
County:			Delta
Water Source:			Surface Creek
Drainage Basin:			Gunnison River
Division:	4	*District:*	40

The 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 cooperating to get water to their new farms, and has been in continuous operation since that time. The proposed project will pipe the 1.6 mile long main earthen canal and portions of 4 laterals. The project will be done in conjunction with the U.S. Bureau of Reclamation's Colorado River Basin Salinity Control Program. Approximately 90% of project costs will be provided by a grant from the the U.S. Bureau of Reclamation. Construction is expected to begin in mid-2016 with completion by mid-2017.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Arkansas River and Wildhorse Creek Levee Rehabilitation

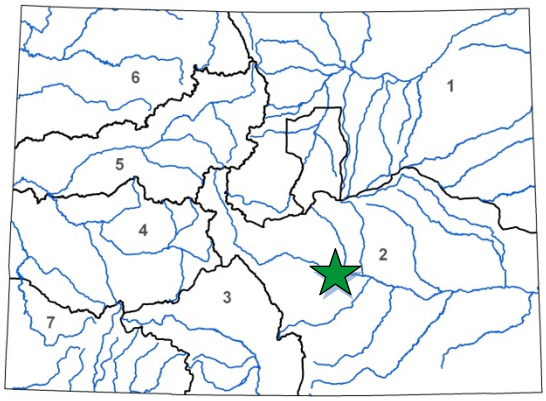
Pueblo Conservancy District

September 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$23,000,000
CWCB Loan (with Service Fee):	$17,170,000
Loan Term and Interest Rate:	30 years at 2.45%
Funding Source:	Severance Tax Perpetual Base Fund

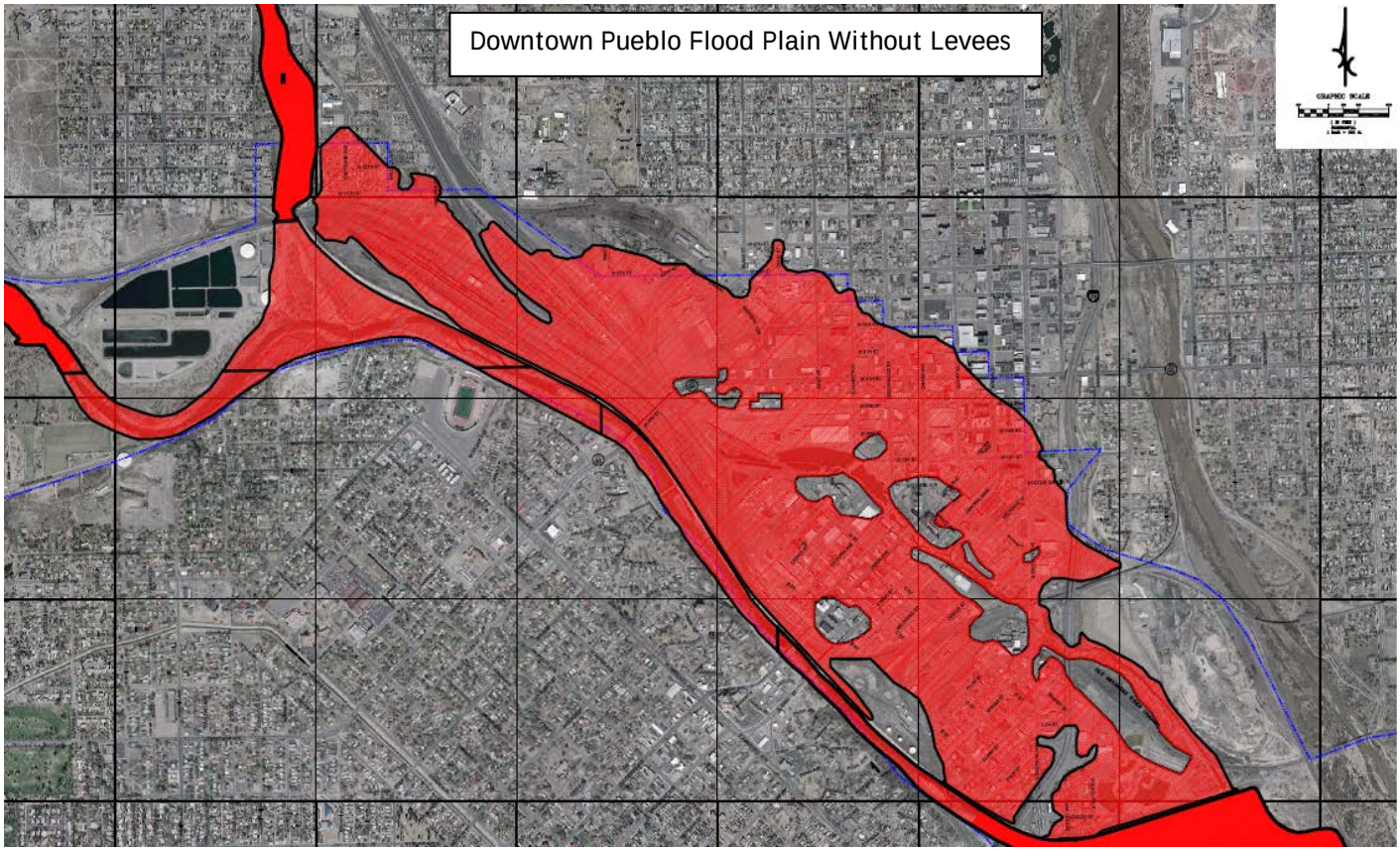
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - TBD% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Flood Control
Average Annual Diversions:	N/A



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas
Division:	2	*District:*	14

The District was formed in response to the 1921 flood in Pueblo. Its primary function is flood protection within its designated boundaries. In 2006, the District was advised that unless the Arkansas and Wildlhorse Creek levees were accredited by the Federal Emergency Management Agency (FEMA), the City would lose it protected status which ensures that flood insurance can be provided at affordable rates. To date, the District has completed the reconstruction and stabilization of 6,600 feet of the Arkansas River Levee, the top 12-feet of an additional 4,400 feet of the Arkansas Levee embankment has been removed, and 2,800 feet of Wildhorse Creek Levee has been constructed. The next phase of work is scheduled to begin in late 2017. Construction is limited to November to March when river flows are the lowest. The entire project is expected to be complete in 2022.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Ravenna Development Interconnect

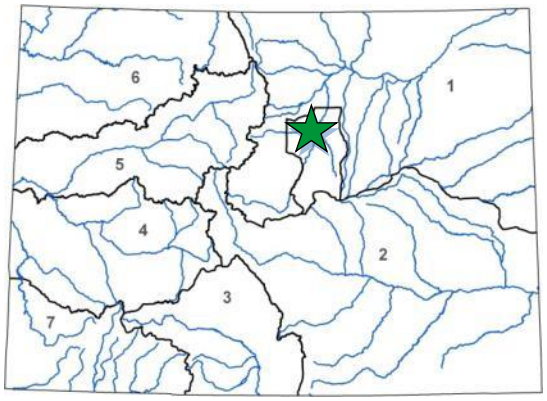
Roxborough Water and Sanitation District

July 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$1,763,750
CWCB Loan (with Service Fee):	$1,584,690
Loan Term and Interest Rate:	30 Years @ 3.15%
Funding Source:	TBD

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid -100% High	0%

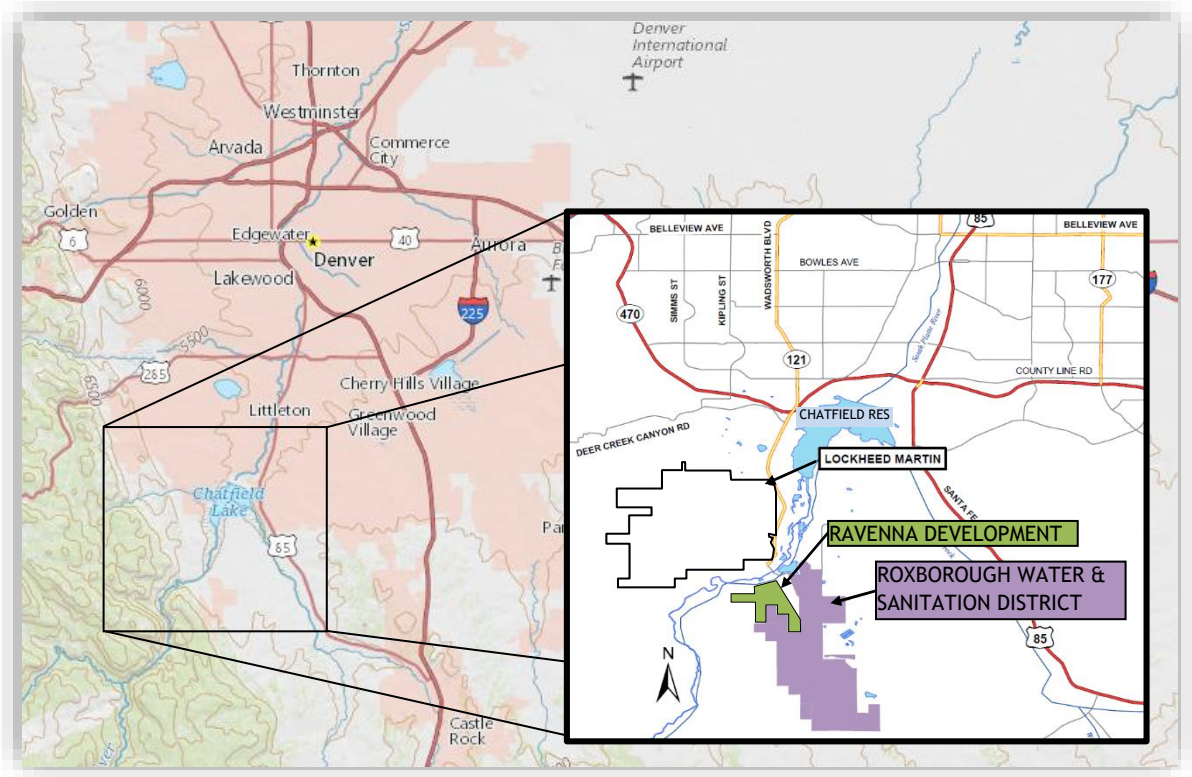
PROJECT DETAILS	
Project Type:	Municipal Water Supply System New
Average Annual Diversions:	1,200 AF



LOCATION			
County:			Douglas
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	8

The Roxborough Water and Sanitation District was established in 1971 and provides water and sewer service within its service area in northwest Douglas County. In 2017 the District included the Ravenna Development (Ravenna) into its water service area. Ravenna sought inclusion into the District as a means to replace its non-renewable water supply (non-tributary groundwater wells) with a renewable water supply and as a means to efficiently provide potable water to the residents of Ravenna.

In summer of 2017, the District installed a single emergency interconnect with Ravenna and has been the sole source of potable water for Ravenna since. The inclusion agreement requires that in addition to the emergency interconnect, two additional interconnects between the District and Ravenna be constructed in order to provide a permanent and reliable water supply to Ravenna. Construction will include two new interconnections, a new pipeline, and the relocation of a pressure reducing valve. Final design, right-of-way acquisition, and county approvals is scheduled to be completed by fall 2018. Construction is expected to begin late 2018 and continue into the early part of 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

San Luis Valley Canal Headgate Construction

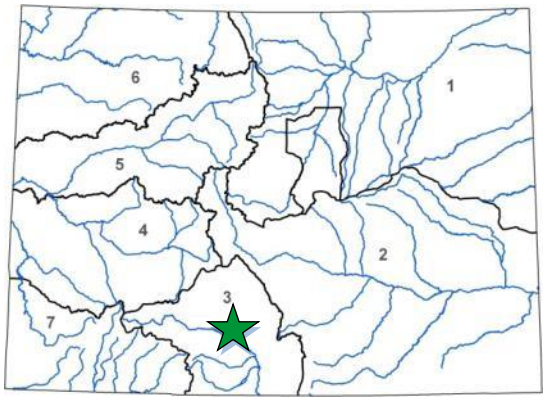
San Luis Valley Canal Company

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$569,000
CWCB Loan (with service fee):	$303,000
Loan Term and Interest Rate:	20 Years @ 1.45%
Funding Source:	Severance Tax PBF and WSRF Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0%	0%

PROJECT DETAILS	
Project Type:	Headgate Replacement
Average Annual Diversions:	24,000 AF



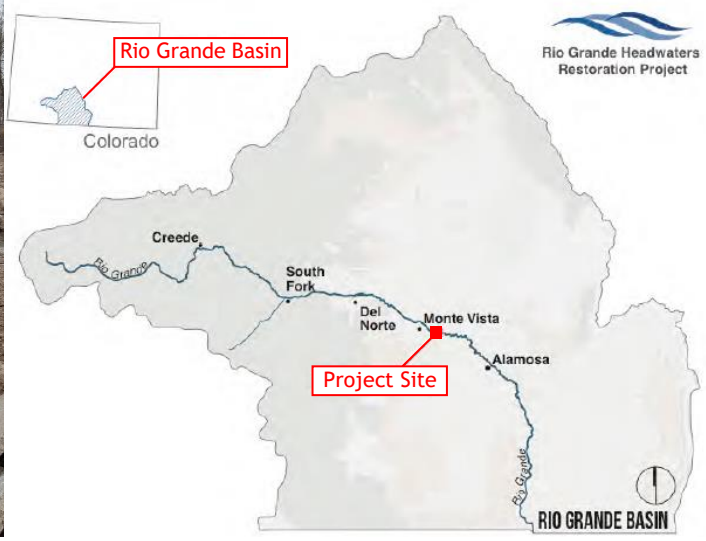
LOCATION			
County:			Rio Grande
Water Source:			Rio Grande
Drainage Basin:			Rio Grande
Division:	3	*District:*	20

The San Luis Valley Canal Company (Company) was incorporated as a mutual ditch company in 1923. It diverts water from the Rio Grande into the San Luis Valley Canal 4 miles east of the town of Monte Vista. The irrigation system serves 78 shareholders covering 20,200 irrigated acres. The Project is a structural and riparian improvement project that will improve the Company's ability to divert its water right as well as meet non-consumptive needs of the area by replacing a poorly functioning headgate and stabilizing streambanks.

The Colorado Rio Grande Restoration Foundation (Foundation) is the fiscal agent for the RGHRP and partnered with the Company, as well as four other ditch companies, to organize and raise funds for diversion and headgate improvement projects that also incorporate streambank stabilization and riparian restoration. The Foundation consolidated the individual ditch projects into a single WSRF Grant request known as "Five Ditches: Rio Grande Diversion and Headgate Improvement Project" (Five Ditches). The Foundation received a WSRF Grant to help cover the implementation cost of Five Ditches at the CWCB September 2017 Board Meeting. Additionally, the Foundation, at the CWCB May 2017 Board Meeting, received a WSRF Grant to cover the cost of engineering design for three headgate improvement projects around the Rio Grande State Wildlife Area, which included this Project. In total, $263,000 in WSRF grant funding is allocated to the San Luis Valley Headgate Construction Project.

Final Design is expected to be completed in spring 2018 with construction occurring between the 2018 and 2019 irrigation seasons.


San Luis Valley Canal Headgate



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Rio Grande Reservoir Rehabilitation Project

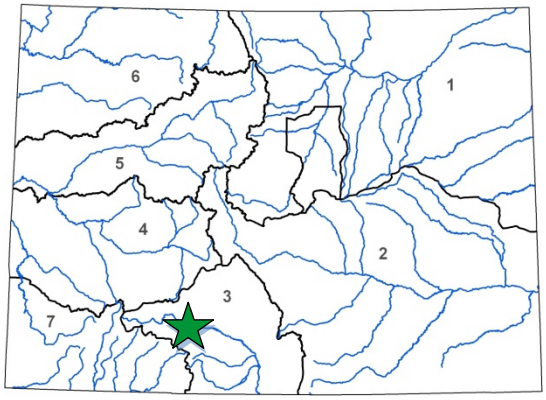
San Luis Valley Irrigation District

March 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$25M
Funding Package:	$10M Grant & $15M Loan
Loan Term and Interest Rate:	30 years @1.65%
Funding Source:	Const Fund & NonReimbursable

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Preserved Storage:	51,113 AF



LOCATION			
County:	*Hinsdale,* Rio Grande		
Water Source:	Beaver Creek & Rio Grande		
Drainage Basin:	Rio Grande		
Division:	3	*District:*	20

The San Luis Valley Irrigation District is applying for a loan and grant for the Rio Grande Reservoir Rehabilitation – Phase 2 (Project). The purpose of the Project is to rehabilitate the outlet works of the on-channel Rio Grande Reservoir Dam. The Reservoir has a capacity of 51,113 acre-feet and delivers water to nearly 62,000 acres of agricultural land in the San Luis Valley. The Reservoir's outlet has long been a limiting factor in the administration of the Rio Grande.

This Project is vital to the basin and region as it will provide operational efficiencies by better managing the timing of water stored and released from the Reservoir. This will result in improved stream health and utilization of Rio Grande water by the District, the State of Colorado, and the many other water users in the basin.

The total Project cost estimate (Phase 1 & 2) is $30,000,000. The District received a $5,000,000 grant in Projects Bill SB12S-002 for Phase 1, which included seepage control improvements, a U.S. Forest service land exchange, and final design of the outlet works. SB12S-002 also included an appropriation for a loan and grant funding package of $15,000,000. A subsequent Projects Bill in 2017 (HB17-1248) increased this loan/grant funding package to $25,000,000.

The District, is requesting a loan from the CWCB for 60% of the Phase 2 Project costs and a grant for 40% of the Phase 2 Project costs.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Lake 4 Outlet Pipeline Repair

St. Vrain and Left Hand Water Conservancy District

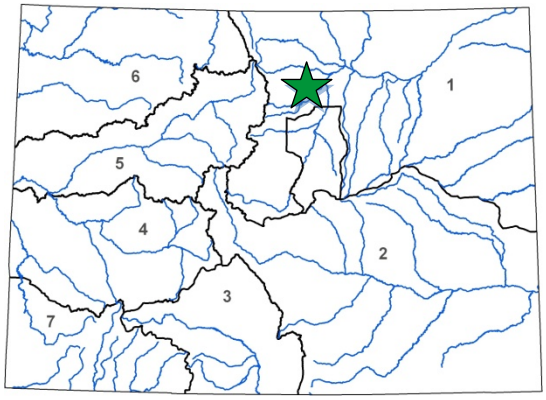
January 2019 Board Meeting

(Loan Increase)

LOAN DETAILS	
Project Cost:	$1,155,000
CWCB Loan (with Service Fee):	$864,560
Loan Term and Interest Rate:	30 Years @ 2.85%
Funding Source:	Construction Fund

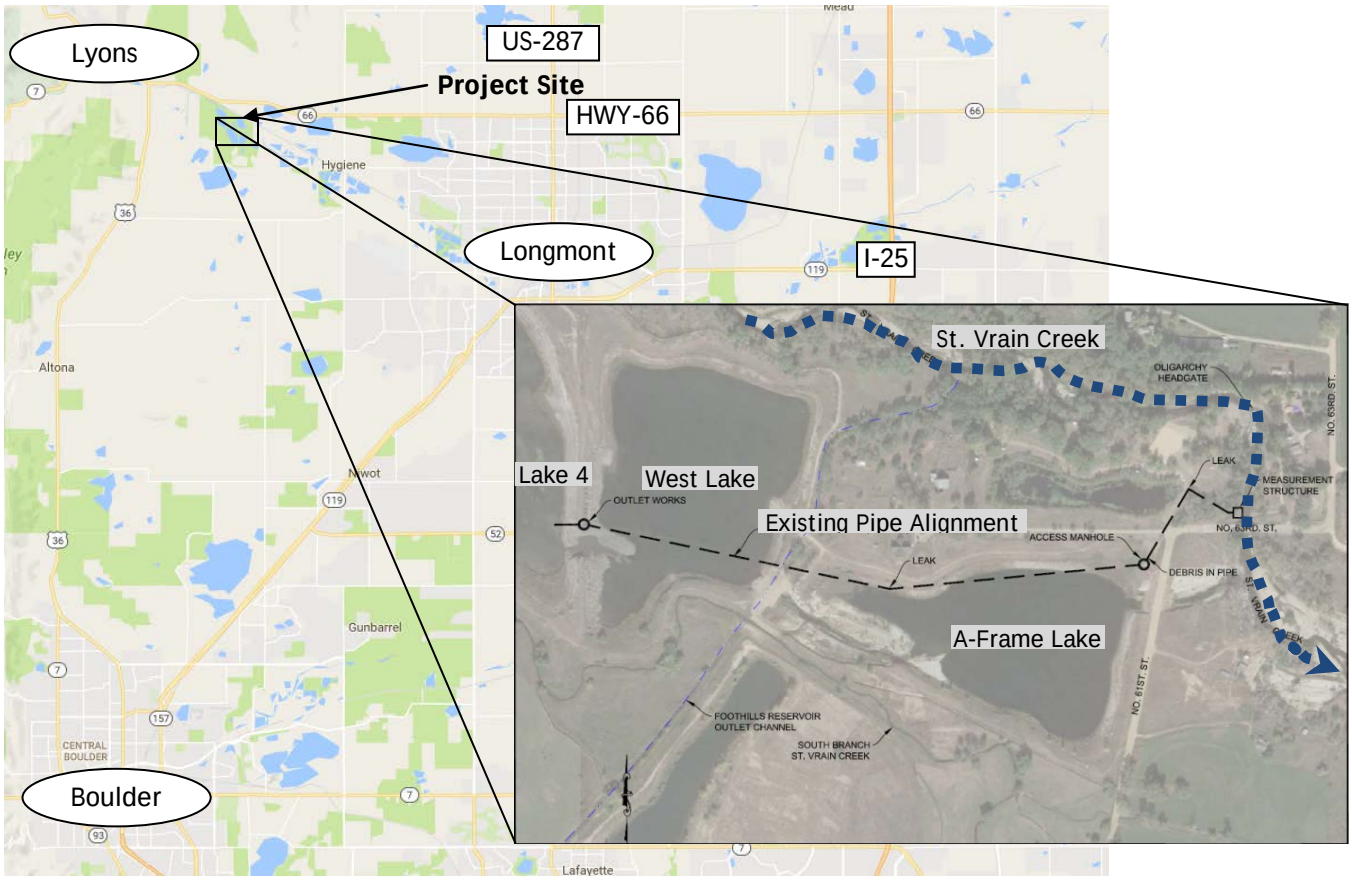
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid - 97% High	3%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	240 AF
Storage Preserved:	600 AF



LOCATION			
County:			Boulder
Water Source:			St Vrain Creek
Drainage Basin:			South Platte
Division:	1	*District:*	5

The St. Vrain and Left Hand Water Conservancy District and Boulder County Parks and Open Space jointly own a lined reservoir known as Rock'n WP Ranch Lake No. 4 (Lake 4). Lake 4 was created by reclaiming mined slopes, installing a slurry wall liner around the former gravel pit, and installing inlet and outlet structures. The outlet works include a half-mile-long 18-inch reinforced concrete pipe approximately extending from the dam to the St. Vrain Creek. The District and County inspected the pipeline just prior to the September 2013 flood event and determined that it is leaking in several locations. It is critical for reservoir accounting and water rights administration purposes that the water delivered through the pipeline be water from Lake 4 and not groundwater leaking into the pipe between the dam and the river. Therefore the District and Boulder County desire to repair the pipe to resolve the leakage and to extend the service life of the structure.



CWCB Water Project Loan Program
Project Data Sheet

Borrower: St. Vrain and Left Hand Water Conservancy District
Project Name: Emergency Rock'n WP Ranch Lake No. 4 Repair Project
Drainage Basin: South Platte

Total Project Cost: $9,000,000

Type of Borrower: Blended

CWCB Loan: $4,545,000 (with 1% service fee)

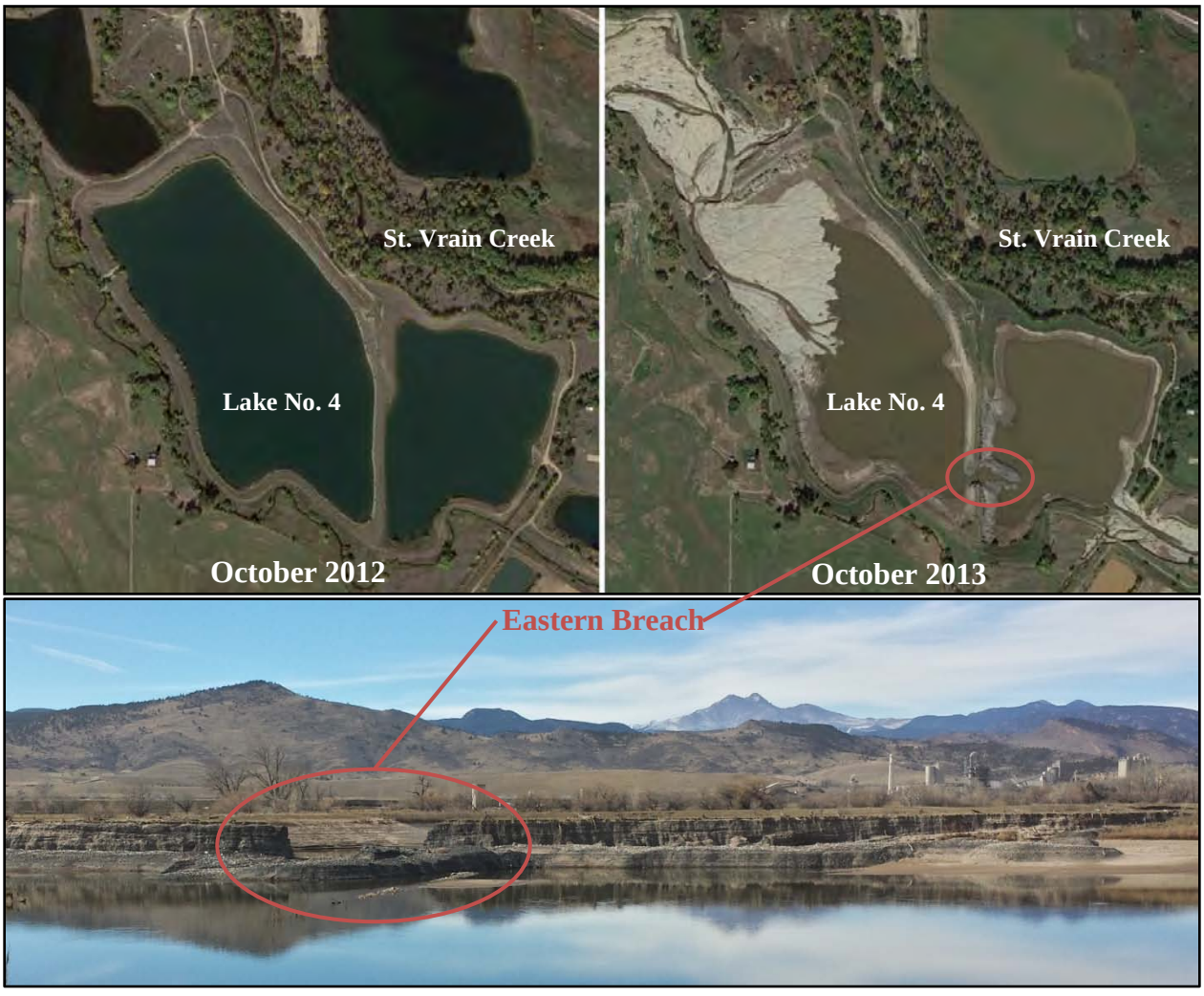
County: Boulder

Project Type: Reservoir Rehabilitation

Water Source: St. Vrain Creek

Funding Source: Severance Tax Perpetual Base Fund
Average Annual Augmentation: 200 AF
Preserved Water Supply Storage: 600 AF
Interest Rate: 3.2% **Term:** 30-years
(Ownership: 93% High Municipal, 7% Commercial)

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 including the District's Rock'n WP Ranch Lake No. 4. During the flood, St. Vrain Creek breached in over four locations above the Lake. The unlined gravel pits above the Lake were flooded, causing their earthen embankments to fail, sending flood water into the Lake. The Lake filled and eventually overtopped, breaching its eastern embankment. The purpose of the Project is to repair the Lake to resume its use as a water augmentation reservoir by the District. Boulder County is a co-owner of the Lake. As the County and the District are public agencies, it is expected that FEMA will reimburse 75% of the Project Cost and the State's Public Assistance Program will cover 12.5% under their respective emergency programs. The remaining cost of repairs will be evenly split with Boulder County.



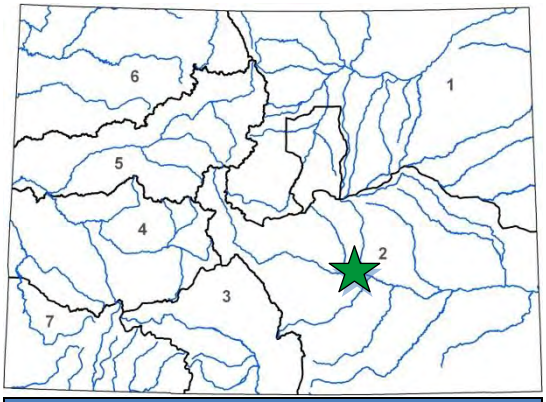
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Arkansas Valley Conduit Phase One
Pueblo Dam Hydroelectric Project

Southeastern Colorado Water Conservancy District

July 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$19,060,000
CWCB Loan (with Service Fee):	$17,392,200
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Severance Tax PBF
BORROWER TYPE	
Hydropower	
PROJECT DETAILS	
Project Type:	Hydroelectric
Average Annual Power Production:	28M KWh



LOCATION			
County:			Pueblo
Water Source:			Arkansas River
Drainage Basin:			Arkansas River
Division:	2	*District:*	10

Southeastern Colorado Water Conservancy District, acting by and through its water activity enterprise, is applying for a loan for the construction of the Pueblo Dam Hydroelectric Project. The Project is located at the existing Pueblo Dam and will utilize the existing releases to the Arkansas River without changing the flow regime. This Project is being constructed as Phase One of the overall Arkansas Valley Conduit project, authorized in the 2007 and 2009 Projects Bill (SB07-122, SB09-125). The purpose of the Project is to develop a revenue source to offset the operational and maintenance cost of the Arkansas Valley Conduit.

The proposed 7.5 megawatt facility will be located on the North Outlet of Pueblo Dam. A powerhouse would be located at the downstream end of the existing outlet works that supplies water to the Arkansas River and would allow the Dam's authorized releases to generate an annual average 28 million kWh (enough to power approximately 3,300 homes) and $1,500,000 in average revenue per year. The Project is being performed under the U.S. Bureau of Reclamation's Lease of Power Privilege (LOPP) process. Power generated will be purchased by Colorado Springs Utilities via transmission through the local Black Hills Energy power delivery system. Construction is planned to start in October 2016 for commissioning in May 2018.


Powerhouse Rendering

SOUTHEASTERN COLORADO
Water Conservancy District
"Your investment in water"

Colorado Springs Utilities
It's how we're all connected

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Storage Development and Water Rights Purchase

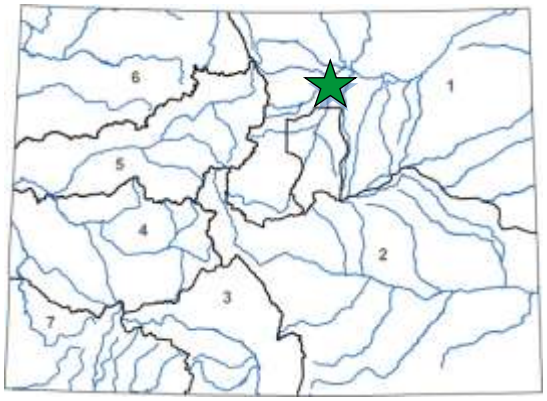
Town of Firestone

November 2016 Board Meeting

LOAN DETAILS	
Project Cost:	$10,043,150
CWCB Loan (with Service Fee):	$10,000,000
Loan Term and Interest Rate:	*20 Years @ 2.35%*
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0% Low - 0% Mid - 100% High	0%

PROJECT DETAILS	
Project Type:	Storage and Water Rights Purchase
Average Annual Delivery:	2442 AF
Storage Created:	1092 AF



LOCATION			
County:			Weld
Water Source:			*St. Vrain River / Boulder Creek*
Drainage Basin:			South Platte River
Division:	*1*	*District:*	*2*

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 of Firestone provides water and wastewater services to approximately 12,110 residents and operates a water distribution network of approximately 58.5 miles of pipeline and associated facilities. The purpose of this project is to provide a water storage project to help meet the Town's current and future non-potable water needs. For planning purposes, the Town is pursuing a little over two times the demand, or 2,000 acre-feet of non-potable storage for the Town. As a short-term water supply goal, the Town is requesting funds to Purchase the Carbon Valley Resource Pit and acquire 1,092 acre-feet as part of this project.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Mountain Home Dam Outlet Rehabilitation Phase III

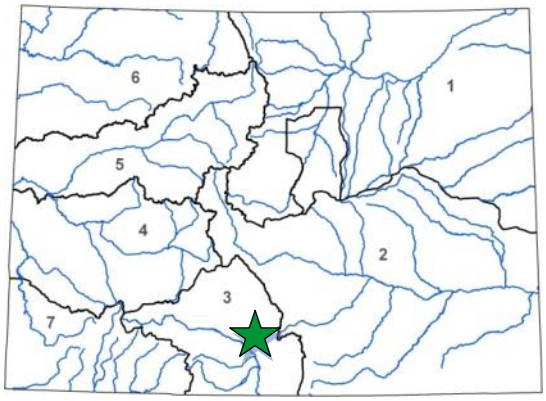
Trinchera Irrigation Company

March 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$987,000
CWCB Loan (with Service Fee):	$440,360
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Severance Tax PBF & WRSF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	9,000 AF

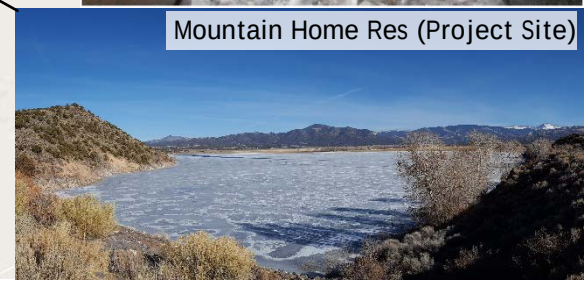


LOCATION			
County:			Costilla
Water Source:			Trinchera Creek
Drainage Basin:			Rio Grande
Division:	2	*District:*	14

Trinchera Irrigation Company is located in Costilla County and owns and operates Mountain Home Reservoir, Smith Reservoir, and approximately 26 miles of canals and 45 miles of laterals. Mountain Home Reservoir (Reservoir) was built in 1908 and has a capacity of 17,964 AF. The Reservoir's primary function is for irrigation but Colorado Parks and Wildlife operates a State Wildlife Area around the Reservoir and maintains a conservation pool of 653 AF in the Reservoir.

The Reservoir's existing outlet works experience significant leakage and since only one of the three valves is operable, does not meet the State Engineer's Office, Dam Safety Branch's emergency drawdown requirements. This Project will replace the original valves with new valves and make other minor repairs to the outlet including a new trash rack, line the outlet tunnel and tower, and replace the gate house. Successful repair of the dam outlet works will prevent a storage restriction, recover approximately 2,000 AF currently lost to leakage, and ensure the long-term integrity and protection of 11,800 acres of irrigated land, as well as the environment, wildlife, and recreation at the State Wildlife Area. Funding for the project will come from the CWCB loan and $513,000 in WSRF grant funds.


Leakage from Outlet Valves


Mountain Home Res (Project Site)

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Laramie-Poudre Tunnel Rehabilitation

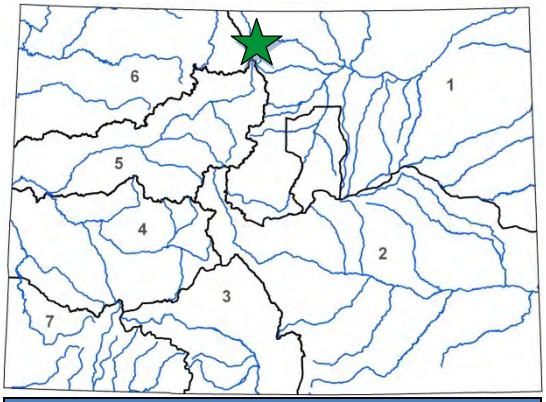
The Tunnel Water Company

September 2015 Board Meeting

LOAN DETAILS	
Project Cost:	$1,225,000
CWCB Loan (with Service Fee):	$1,111,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
24%	20% Low - 24% Mid - 32% High	0%

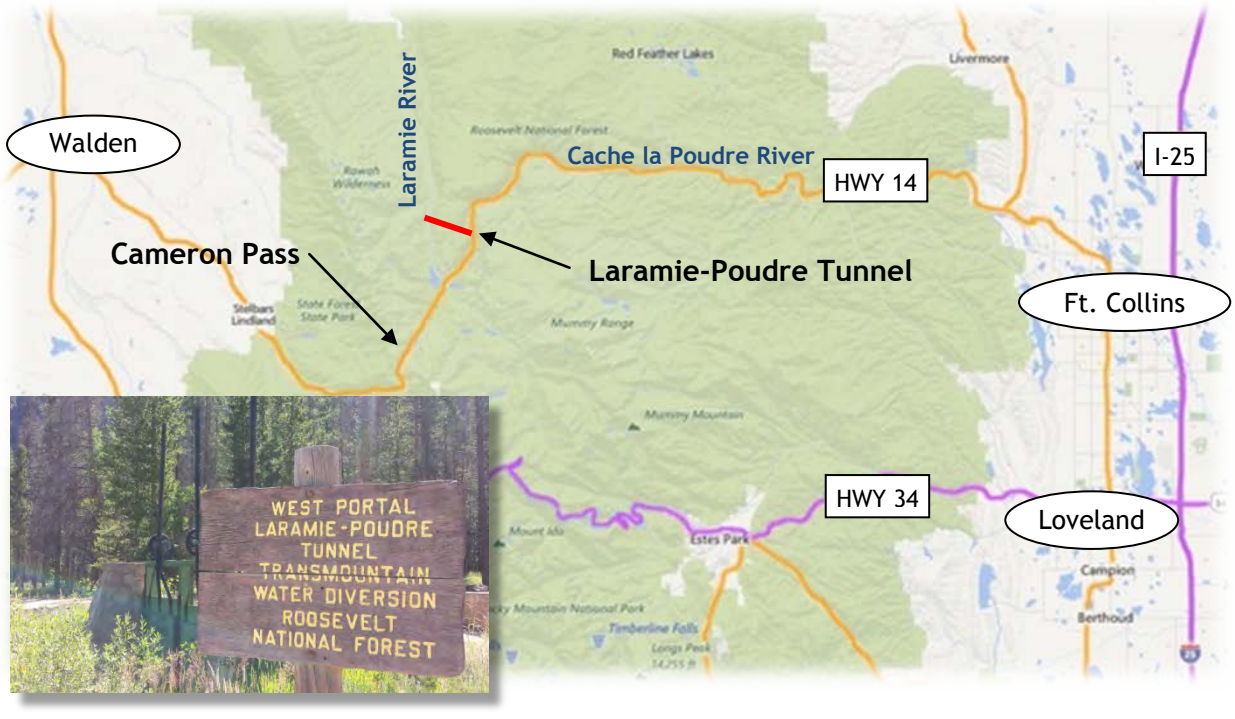
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	6,875 AF



LOCATION			
County:			Larimer
Water Source:			Laramie River
Drainage Basin:			North Platte/South Platte
Division:	1	*District:*	48/3

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 it was originally constructed in 1910. The interior timber cribbing and concrete lining are at or near the end of their useful lives and the steepness of the slope of this section makes it very difficult to access the tunnel for maintenance. Additionally the east portal's (outlet) concrete energy attenuation structure, which has been resurfaced many times before, is heavily spalled and near failure. The Company is seeking this CWCB loan to cover 90% of construction cost associated with the west and east portal repairs. West portal repairs will occur after the 2015 irrigation season with the east portal repairs being completed after the 2016 irrigation season.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

West Half Laramie-Poudre Tunnel Rehabilitation

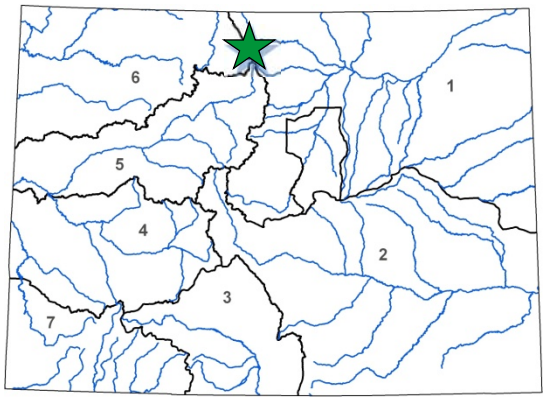
The Tunnel Water Company

March 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$ 9,000,000
CWCB Loan (with Service Fee):	$9,090,000
Loan Term and Interest Rate:	30 Years @ 2.85%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
22%	4% Low - 25% Mid - 49% High	0%

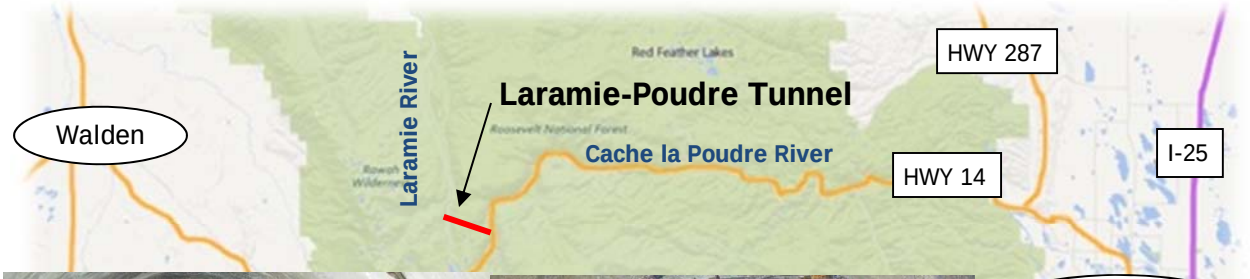
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	15,755 AF



LOCATION			
County:			Larimer
Water Source:			Laramie River
Drainage Basin:	North Platte/South Platte		
Division:	1	*District:*	48/3

The Tunnel Water Company (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 2.2-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 shareholders via the Soldier Canyon and Bellvue Water Treatment Plants for use in their service areas.

The Company purchased the Laramie Poudre Tunnel and its adjoining Laramie River System in 1938. Since 2001, the Company has repaired various sections of the tunnel. To prevent future collapse and tunnel blockage, this project will include replacement of aging support structures and the addition of new supports, rock bolts and shotcrete to ensure future serviceability and maintenance access. The Company is seeking this CWCB loan to cover 100% of construction and engineering costs associated with rehabilitation of the west half of the Laramie-Poudre Tunnel. Completion of final design is scheduled April 2019 and construction is anticipated September 2019.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

City Lake Dam Rehabilitation & Enlargement

City of Walsenburg

July 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$6,821,000
CWCB Loan (with Service Fee):	$6,889,210
Loan Term and Interest Rate:	30 years @ 2.0%
Funding Source:	Severance Tax

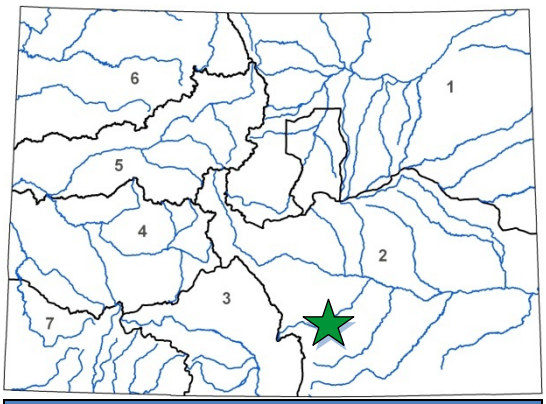
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	730 AF
Total Reservoir Storage:	531 AF
Water Storage Developed:	120 AF

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. This dam has been 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 dam safety imposes 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 needs the full storage capacity of City Lake to adequately supply their water treatment plant and to ensure future water supplies.

Elements of the Project include 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 will increase storage by 120 acre-feet by raising the dam embankment three feet. Construction is planned for 2017/2018.



LOCATION			
County:			Huerfano
Water Source:			Cucharas River
Drainage Basin:			Arkansas River
Division:	2	*District:*	16

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Wiggins Recharge Facility at Glassey Farms

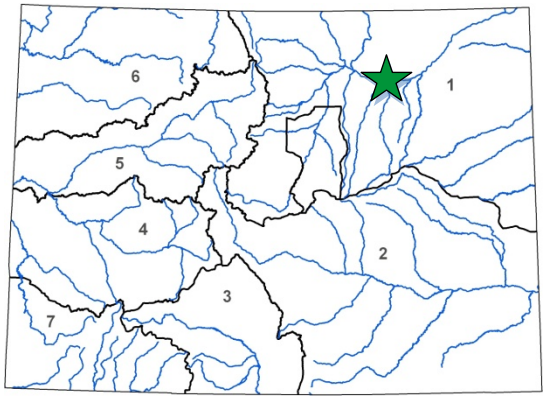
Town of Wiggins

March 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$2,385,000
CWCB Loan:	$2,408,850
Loan Term and Interest Rate:	30 Years @ 2.40%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

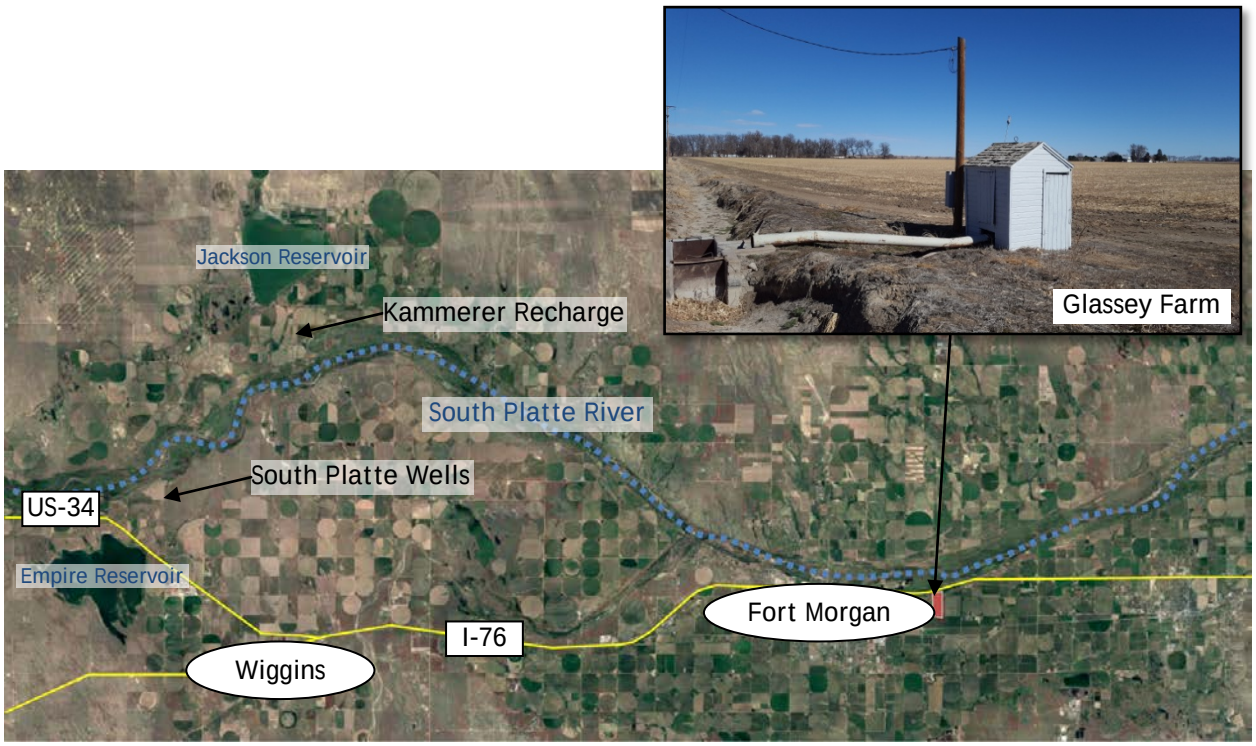
PROJECT DETAILS	
Project Type:	Augmentation
Average Annual Delivery:	140 AF



LOCATION			
County:			Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte River
Division:	1	*District:*	1

The Town of Wiggins, through a water activity enterprise, provides service to approximately 900 residents. The Town anticipates considerable growth over the next 10 years due to four new developments recently annexed into the Town limits. Those developments are projected to bring up to 310 jobs into Wiggins over the next 5 years and approximately 500 new single family units and 150 multi-family units.

Historically the Town has relied on non-tributary wells drilled into the Kiowa Bijou Designated Ground Water Basin. Due to water quality issues and dropping aquifer levels, the Town drilled two wells into the South Platte Alluvial Aquifer. Those wells are augmented through the Kammerer Recharge site and augmentation water leases. In order to develop a reliable and long-term augmentation water supply, the Town will purchase the Glassey Farm and associated water rights. Recharge ponds will take approximately 40 acres and the Town is in negotiations with Morgan County Community College to share the remaining farmland for an agricultural education program focused on low watering farming techniques. Construction is planned to begin summer 2017 and be complete by fall 2017.



CWCB Water Project Loan Program
Project Data Sheet

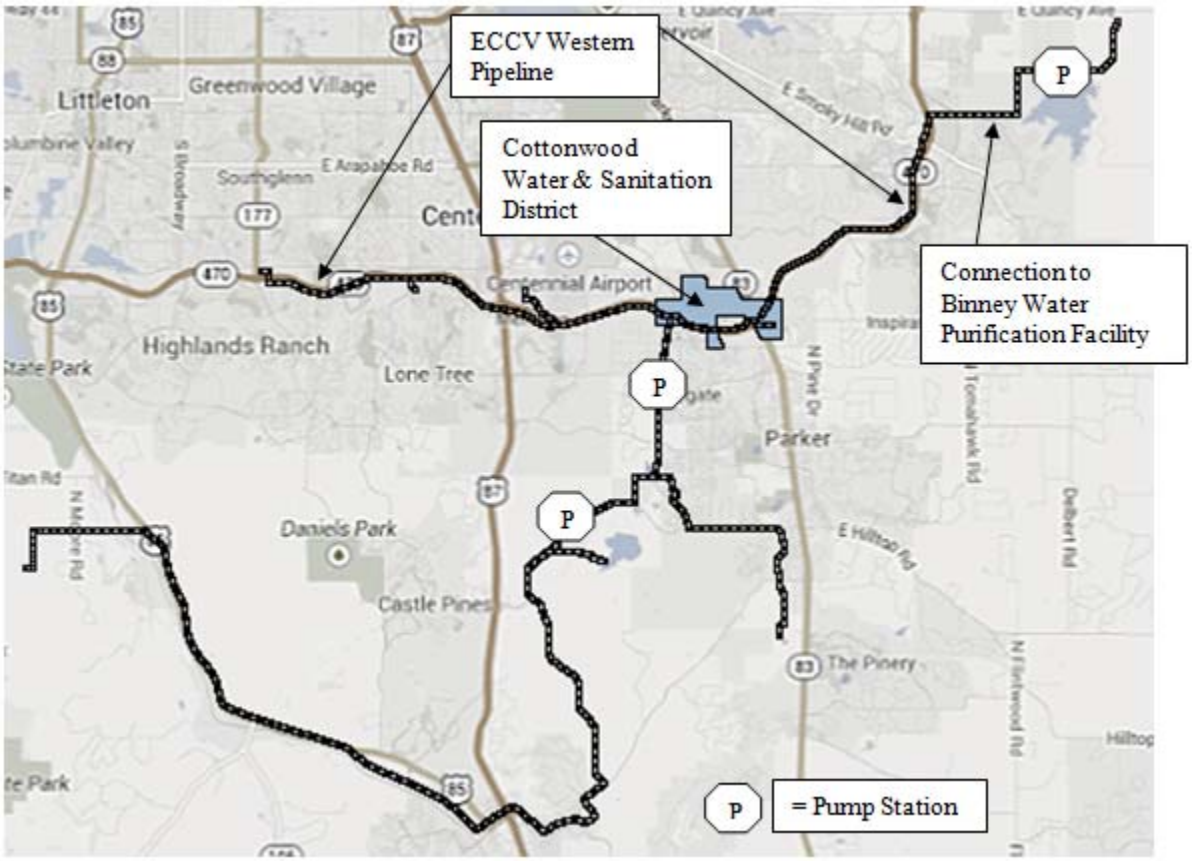
C150408

Borrower: Cottonwood Water & Sanitation District
County: Douglas & Arapahoe
Project Name: Water Infrastructure and Supply (WISE) Efficiency Project
Project Type: New Water Supply
Drainage Basin/ District: South Platte / 8
Water Source: South Platte
Total Project Cost: $4,960,000
Funding Source: Construction Fund
Type of Borrower: High-Income Municipal
Average Annual Delivery: 789 AF
CWCB Loan: $4,508,640 (with 1% service fee)
Interest Rate: 3.00% **Term:** 30 years

In 1981, the Cottonwood Water & Sanitation District was formed, pursuant to Title 32 C.R.S., to provide water supply and treatment systems for customers within its service area.

Cottonwood's local project infrastructure components will extend from an existing tee located on the ECCV Western Pipeline, where a below-grade vault with flow control and metering equipment will be installed. From this location 500 feet of 36-inch pipe will be installed to connect to an existing Cottonwood pipeline. In addition, Cottonwood will also participate in a Rueter-Hess Reservoir fill pipeline and pump station being constructed by Parker.

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 (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.



CWCB Water Project Loan Program
Project Data Sheet

C150409

Borrower: Inverness Water & Sanitation District

County: Douglas & Arapahoe

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: $5,400,000

Funding Source: Construction Fund

Type of Borrower: High-Income Municipal

Average Annual Delivery: 1,100 AF

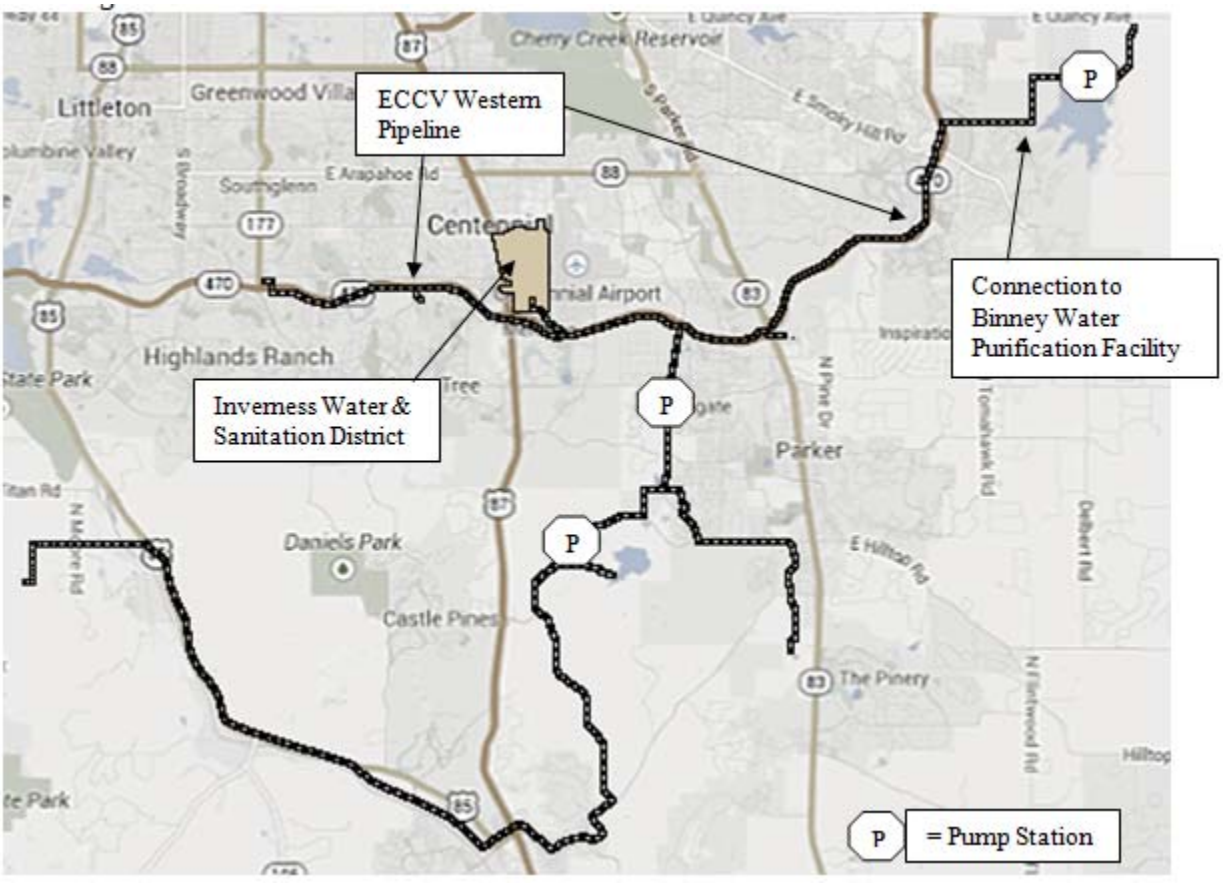
CWCB Loan: $4,908,600 (with 1% service fee)

Interest Rate: 2.75% **Term:** 20 years

In 1973, Inverness was formed pursuant to Article 1 of Title 32 C.R.S. to provide water supply and treatment systems for the customers within their service area.

Inverness will have a connection to the East Cherry Creek Valley (ECCV) Western Pipeline near the intersection of South Jamaica Street and E-470. Immediately downstream of the connection will be a below-grade vault with flow control and metering equipment. Downstream of the vault will be approximately 1,800 feet of 10-inch pipe to connect to the existing Inverness distribution system.

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 (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.



CWCB Water Project Loan Program
Project Data Sheet

C150410

Borrower: Parker Water & Sanitation District

County: Douglas & Arapahoe

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: $17,305,500

Funding Source: Construction Fund

Type of Borrower: High-income Municipal

Average Annual Delivery: 5,000 AF

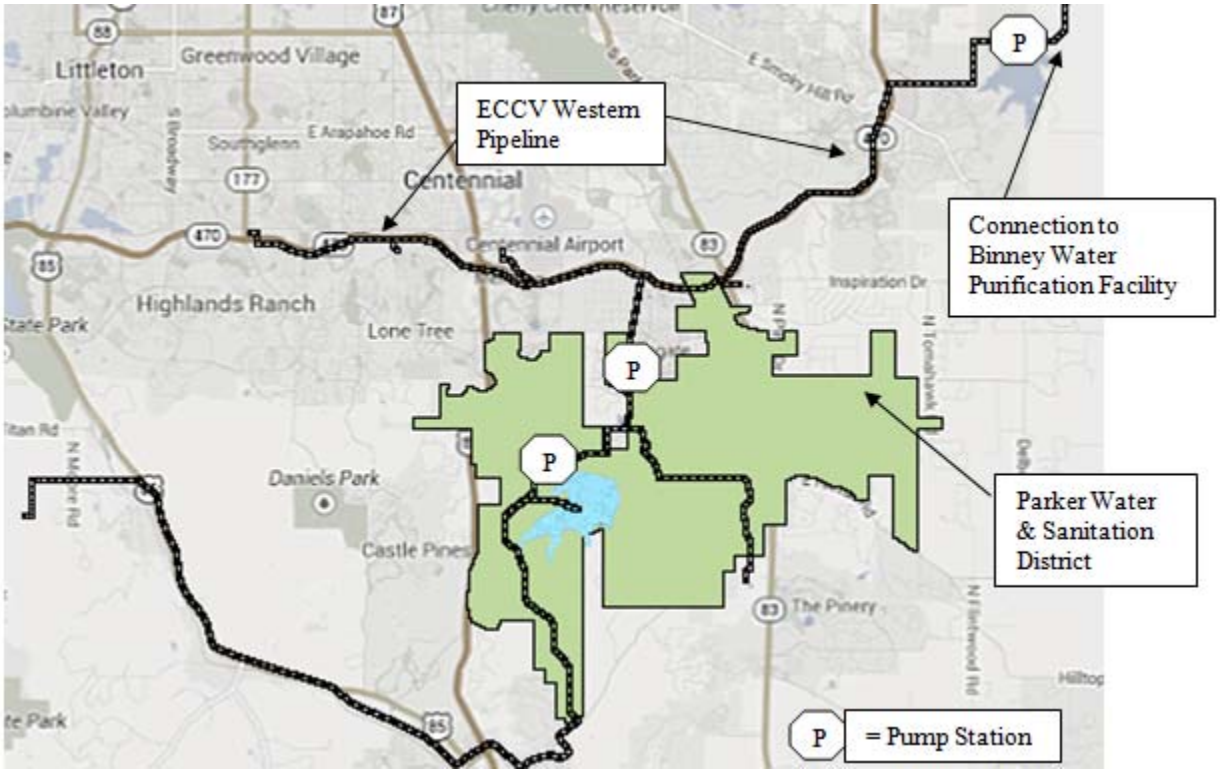
CWCB Loan: $15,734,790 (with 1% service fee)

Interest Rate: 2.75% **Term:** 20 years

Parker Water and Sanitation District is a quasi-municipal corporation and political subdivision of the State of Colorado created in 1962 in Douglas County, for the purpose of providing water and sanitary sewer services its users.

Parker will take the lead on construction of 20,300 feet of new 42-inch pipeline from near the intersection of Chambers Road and E-470 to the Parker Water Treatment Plant located just south of Rueter-Hess Reservoir. Southward from the treatment plant a 16.5 million gallons per day pumping station will be constructed, followed by 9,000 feet of new 24-inch pipe that will allow WISE water to be conveyed to Rueter-Hess Reservoir for storage. Parker's facilities will oversized for use by other WISE Authority members.

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 (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.



CWCB Water Project Loan Program
Project Data Sheet

C150411

Borrower: Denver Southeast Suburban Water and Sanitation District (dba Pinery Water and Wastewater District)

County: Douglas

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: $10,920,000

Funding Source: Construction Fund

Type of Borrower: High-income Municipal

Average Annual Delivery: 2,837 AF

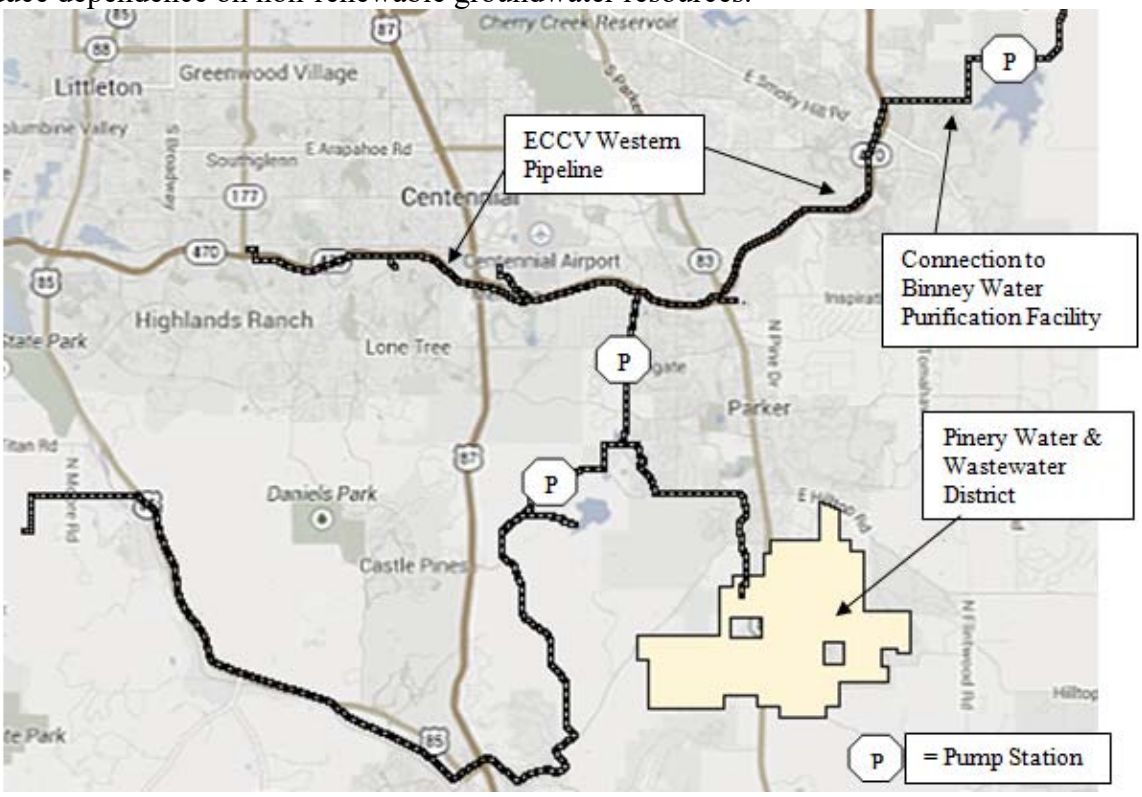
CWCB Loan: $9,926,280 (with 1% service fee)

Interest Rate: 3.00% **Term:** 30 years

In 1965, the District was formed as the Denver Southeast Suburban Water and Sanitation District. The District has been providing water and wastewater services since 1971 to its predominately residential customers.

The District will participate in Parker's WISE infrastructure components including 20,300 feet of new 42-inch pipeline from near the intersection of Chambers Road and E-470 to the Parker Water Treatment Plant located just south of Rueter-Hess Reservoir. At the Parker Water Treatment Plant site a new 16.5 million gallons per day pumping station will be constructed. Downstream of the pumping station 9,000 feet of new 24-inch pipe will be constructed that will allow WISE water to be conveyed to Reuter-Hess Reservoir for storage. In addition, Pinery will construct about 6,200 feet of 12-inch pipeline to deliver water to an existing finished water distribution system pumping station.

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 (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.



Projects Not Under Contract

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Hess Lateral Improvement

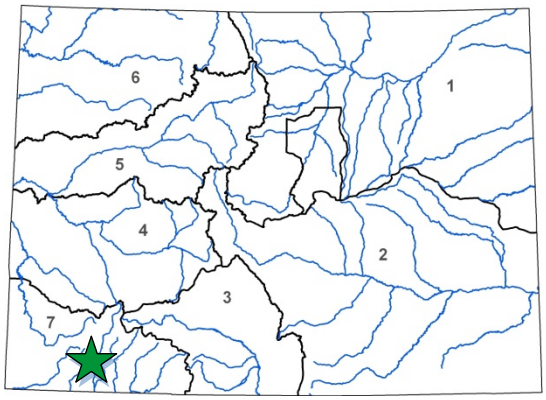
Florida Consolidated Ditch Company

May 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$2,800,000
CWCB Loan:	$1,085,750
Loan Term and Interest Rate:	30-years @ 1.80%
Funding Source:	Severance Tax Perpetual Base Fund

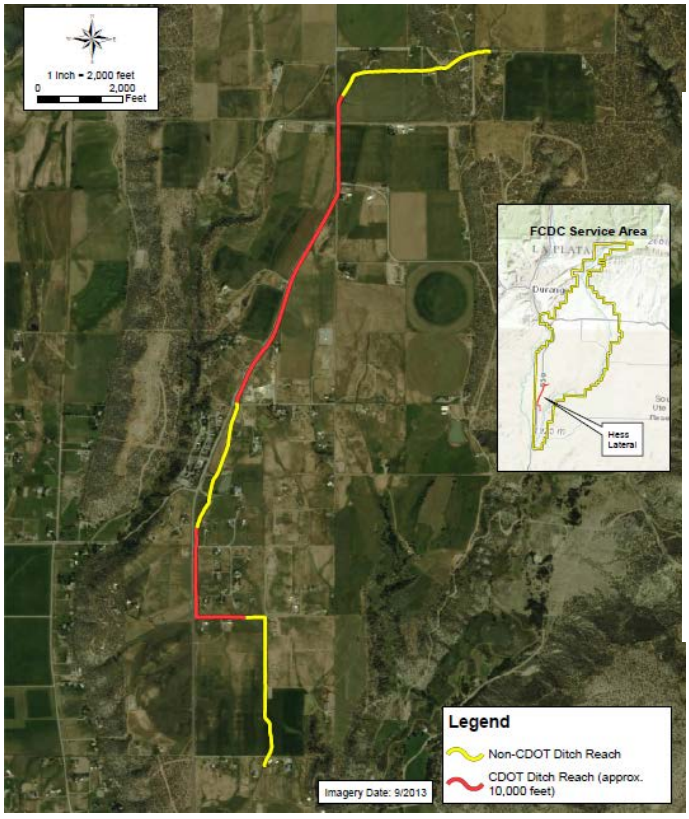
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0%	0%

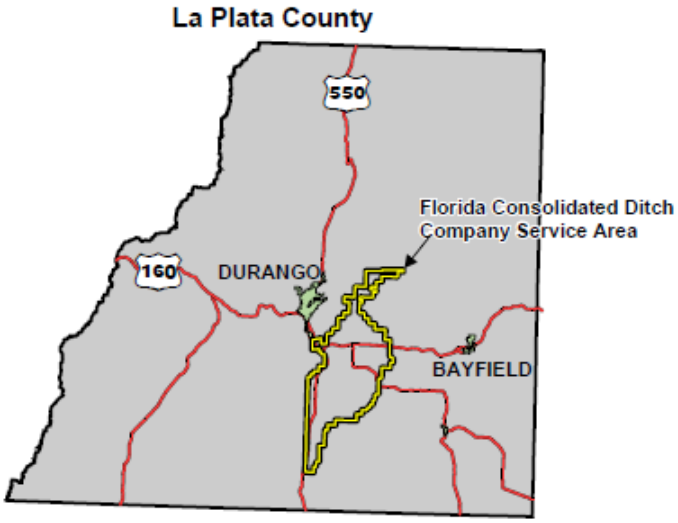
PROJECT DETAILS	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	43,000 AF



LOCATION			
County:			La Plata
Water Source:			Animas River
Drainage Basin:			San Juan/Dolores River
Division:	7	*District:*	30

The Hess Lateral, part of the Florida Consolidated Ditch Company water conveyance system, is located 7 miles south of Durango, CO on the Florida Mesa. The lateral serves approximately 67 users irrigating over 1,500 acres of hay and pasture land. The project will replace the open ditch with buried gravity-pressurized pipeline and relocate approx. 21,100 feet of the Hess Lateral due to expansion of HWY 550. CDOT has committed $950,000 to the project. The company also received approval of a $775,000 WSRF grant at the September 2015 meeting. Final design of the project is expected to begin in the fall of 2017 and construction will likely follow one year later.





COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Dry Gulch Reservoir Land Acquisition

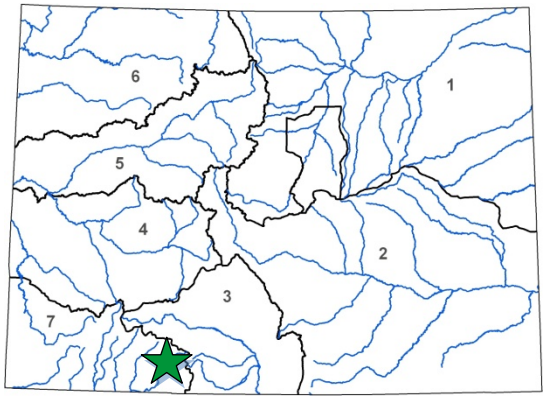
San Juan Water Conservancy District

May 2017 Board Meeting

LOAN DETAILS	
Project Cost:	$2,000,000
CWCB Loan (with Service Fee):	$2,000,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid - 0% High	0%

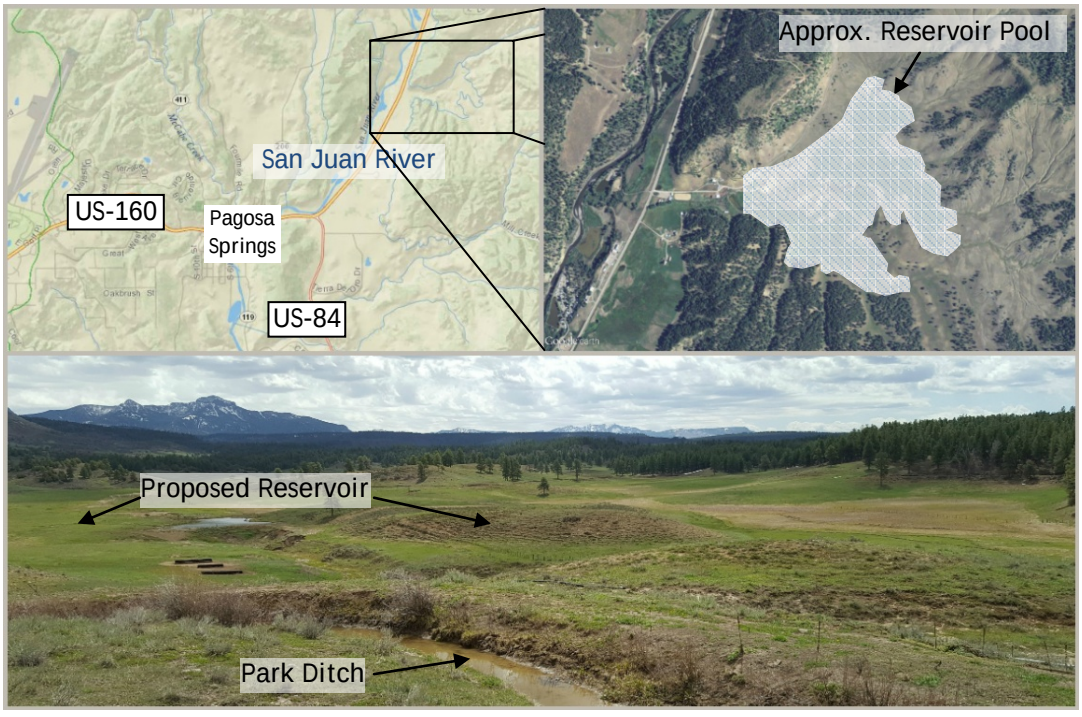
PROJECT DETAILS	
Project Type:	Water Storage Land Acquisition
Average Annual Delivery:	NA



LOCATION			
County:			Archuleta
Water Source:			San Juan River
Drainage Basin:			Southwest
Division:	29	*District:*	7

The District was created in 1987 with a purpose to conserve, maximize, and utilize the water resources of the San Juan River and its tributaries, with the primary function to address future water supply needs within its boundaries. Population projections predict an increase of 25,400 county-wide by 2070, an increase that could produce a water supply gap of 4,300 AF per year.

The District has identified the development of Dry Gulch Reservoir as a top priority project for the region's long-term water supply solution. This reservoir site has been under consideration since the 1960s and has been identified in 1989 and 2003 as a preferred water storage location for diversions from the San Juan River. A previous CWCB loan to the Pagosa Area Water and Sanitation District and a WSRF grant to the San Juan Water Conservancy District provided funding for the purchase of a large portion of the land needed for the proposed Dry Gulch Reservoir. This loan will acquire the remaining land needed for the proposed reservoir. The overall Dry Gulch Reservoir project will be planned in keeping with the objectives outlined in the Colorado Water Plan for new water storage, by not only off-setting the projected water supply gap, but also providing water resources for non-consumptive uses to enhance environmental and recreational opportunities of state and local economic benefit. Planning and permitting for the reservoir is expected to take up to 10 years. This loan will not provide funds for reservoir construction.



Water Project Construction Loan Program - Project Data

Borrower: SECWCD - Enterprise

County: Pueblo, Crowley, Otero, Bent, Prowers

Project Name: Arkansas Valley Conduit

Project Type: Water Supply Pipeline

Drainage Basin: Arkansas

Water Source: Arkansas – Fry-Ark Project

Total Project Cost: $300,000,000

Funding Sources: CWCB, Federal

Type of Borrower: Municipal/Low

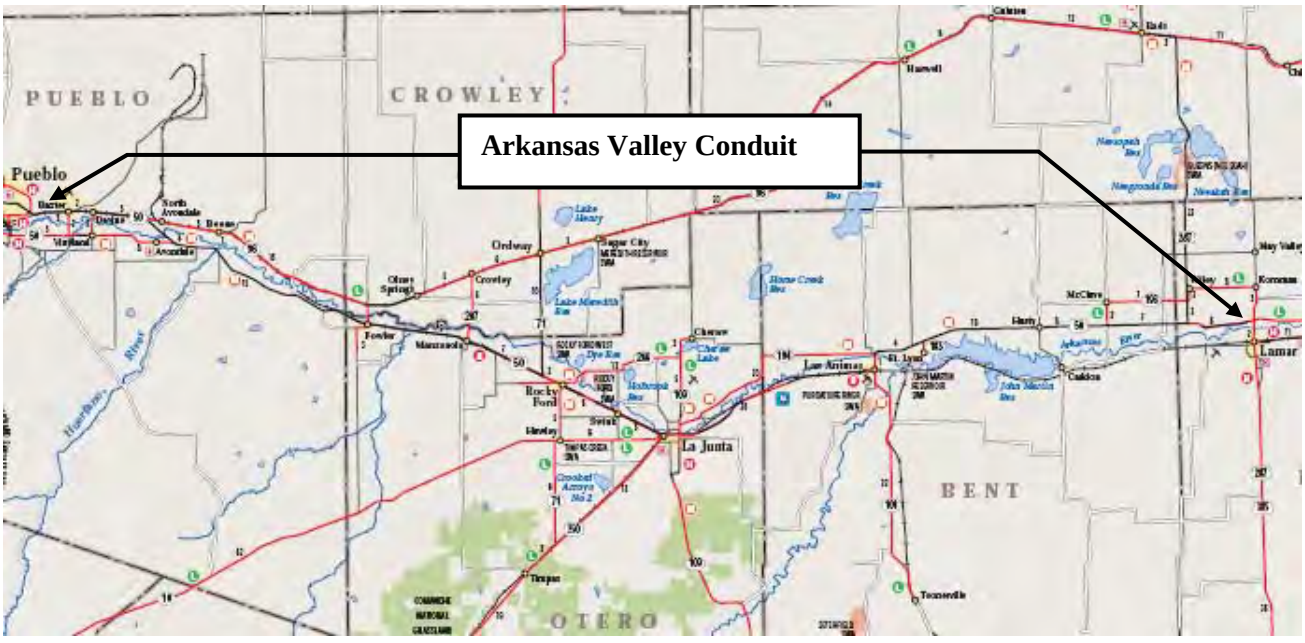
Aver. Delivery: 6,555 AF (2005 demand)

CWCB Construction Fund Loan: $60,600,000 (incl. 1% loan fee)

Interest Rate: 3.25%

Term: 30 years

The Arkansas Valley Conduit is designed to bring relatively clean raw water to 41 water providers in the lower Arkansas Valley, who currently either take water from the Arkansas River, and\or pump from shallow and\or deep aquifers. This pumped water has quality problems and requires significant treatment before it meets Clean Drinking Water standards. The conduit will begin at Pueblo Reservoir Dam, where a 30.94 cfs municipal outlet is already in place and reserved for the specific use of the conduit. The conduit will gravity flow approximately 138 miles down the Arkansas River Valley to Lamar. The conduit water will flow by the St. Charles Mesa Water District where it will enter a water filtration plant. As the conduit moves down the valley, spurs will take off the main line to deliver water to local and regional water providers. The conduit will receive its water from the USBR Fryingpan-Arkansas Project. Currently, about 5,779 acre-feet of water per year is available for entities East of Pueblo in an average year. Additionally, Return Flows are retained by the District and can be exchanged back up to Pueblo Reservoir for delivery. These Return Flows can provide up to an additional 1,600 acre-feet of water. Storage is available to these entities in Pueblo Reservoir because they are in the SECWCD service area. This storage will help provide water in the years when less than average water is provided by the Fry-Ark Project. The water will be provided strictly for municipal and industrial purposes. Final chlorination or treatment will be left up to each water provider. The conduit is currently planned to be paid 80% (approximately $240 million) by the federal government.



Location Map

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

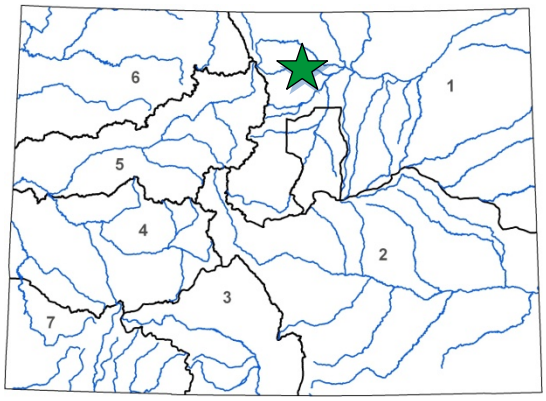
Windy Gap Firming Project

Municipal Subdistrict, Northern Colorado Water Conservancy District

Windy Gap Firming Project Water Activity Enterprise

November 2017 Board Meeting

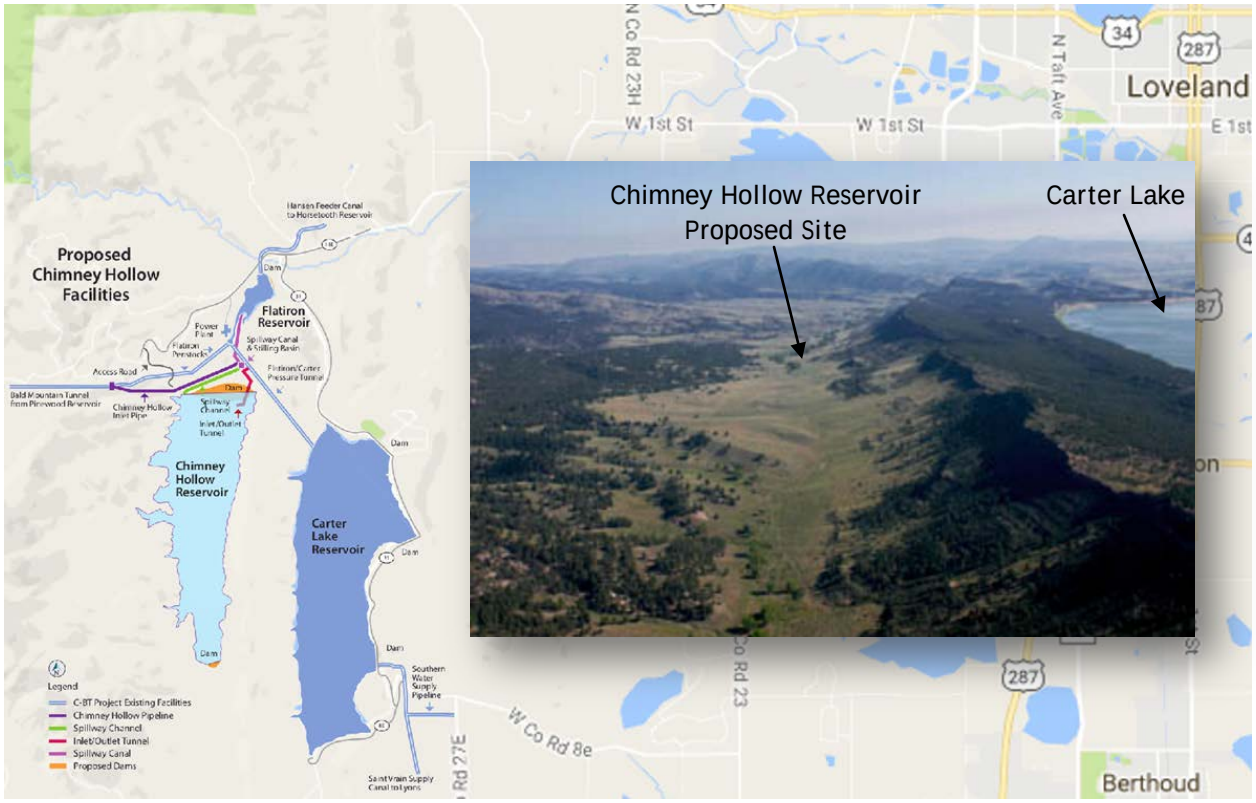
LOAN DETAILS	
Project Cost:	$440,000,000
CWCB Loan (with Service Fee):	$90,000,000
Loan Term and Interest Rate:	30 years @ 3.10%
Funding Source:	Revenue Bonds & Construction Fund Loan
BORROWER TYPE	
Municipal	
PROJECT DETAILS	
Project Type:	New Reservoir
New Storage Capacity:	90,000 AF



LOCATION			
County:	Larimer, Boulder, Broomfield, Weld		
Water Source:			Colorado River
Drainage Basin:			South Platte
Division:	1	*District:*	2,3,4,5,6

In 1970, six Northern Colorado cities formed the Municipal Subdistrict to plan, finance, and build the Windy Gap project. That project was completed in 1985. The annual delivery of Windy Gap water is not reliable because in dry years the junior water rights may not come into priority, and in wet years, there may not be room in Lake Granby to store Windy Gap water.

In 1999, The Subdistrict formed the Windy Gap Firming Water Activity Enterprise with the purpose of pursuing activities that would lead to firming the yield of Windy Gap water. Participants identified 30,000 AF as a goal for total firm yield. After a review of over 170 alternatives, the Bureau of Reclamation and project participants identified the construction of a 90,000 AF Chimney Hollow Reservoir as the preferred alternative. This Project will consist of the construction of Chimney Hollow Reservoir and associated pipelines to deliver water from the existing C-BT infrastructure, as well as environmental mitigation and enhancements. Construction is anticipated to begin in fall of 2018 and be complete in 2022.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Rehabilitation

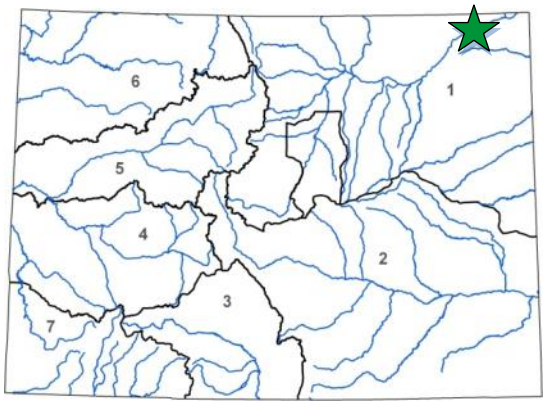
Julesburg Irrigation District

May 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$3,308,000
CWCB Loan (with Service Fee):	$3,341,080
Loan Term and Interest Rate:	30 Years @ 1.70%
Funding Source:	Severance Tax PBF

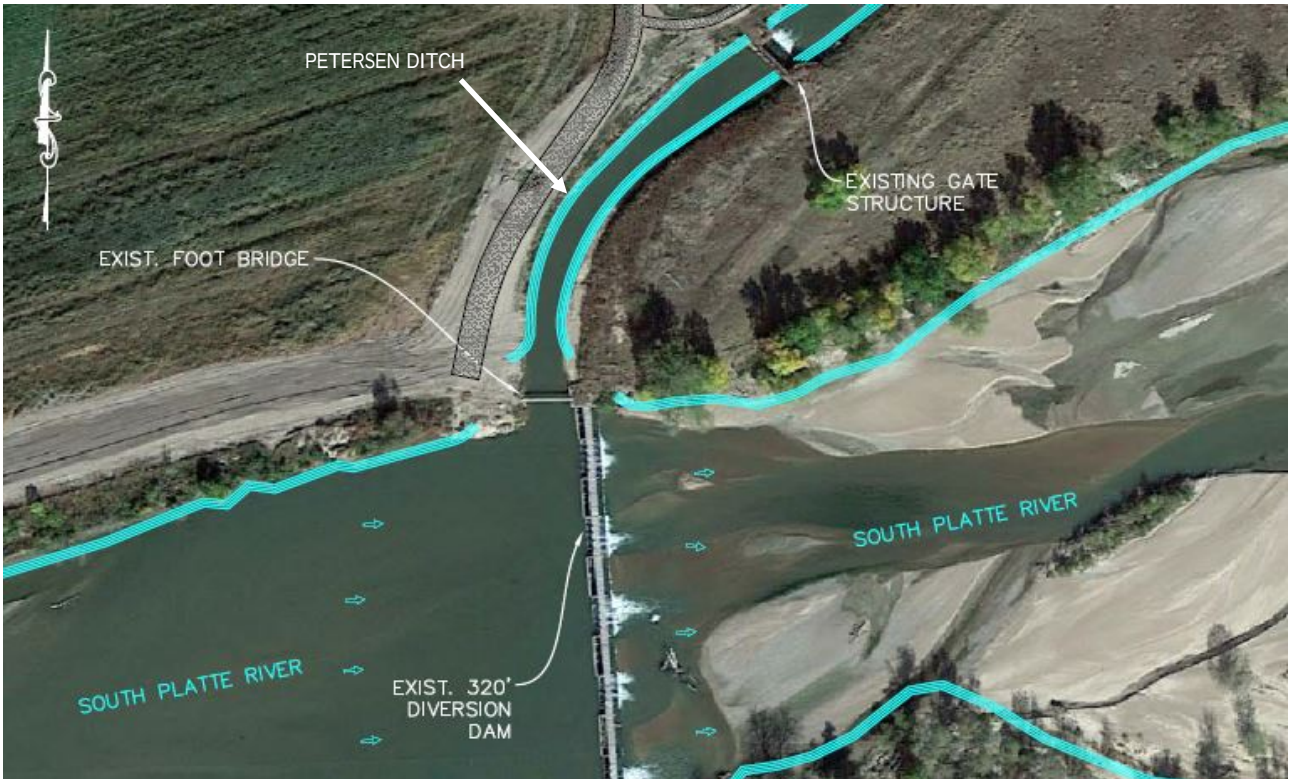
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
98%	1% Low - 0% Mid -0% High	1%

PROJECT DETAILS	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	54,421 AF



LOCATION			
County:			Sedgwick
Water Source:			South Platte
Drainage Basin:			South Platte
Division:	1	*District:*	64

The Julesburg Irrigation District (District) operates a South Platte River diversion structure and the Petersen Ditch headgate as well as other ditches and reservoirs for the benefit of the shareholders by providing direct flow irrigation water. The District service area is comprised of approximately 19,129 acres. The District's diversions from the South Platte River through the Petersen Ditch are normally 164 cubic feet per second from the South Platte River providing water to 8,925 acres. The diversion of water is accomplished with a concrete diversion dam across the South Platte and a ditch regulating head gate structure. The 1956 river diversion dam is approximately 320 feet wide and the ditch head gate structure is approximately 30 feet wide. The District wants to rebuild the diversion dam and ditch head gate in order to continue water deliveries to the shareholders and provide and improve the structures' operational safety. Construction is anticipated during the 2018-2019 winter months prior to the 2019 irrigation season.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Walker Recharge

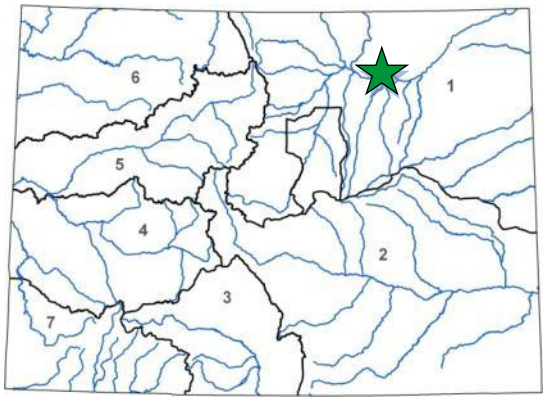
Central Colorado Water Conservancy District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$18,164,000
CWCB Loan (with Service Fee):	$2,272,500
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Augmentation Facility
Annual Yield:	2,100 AF

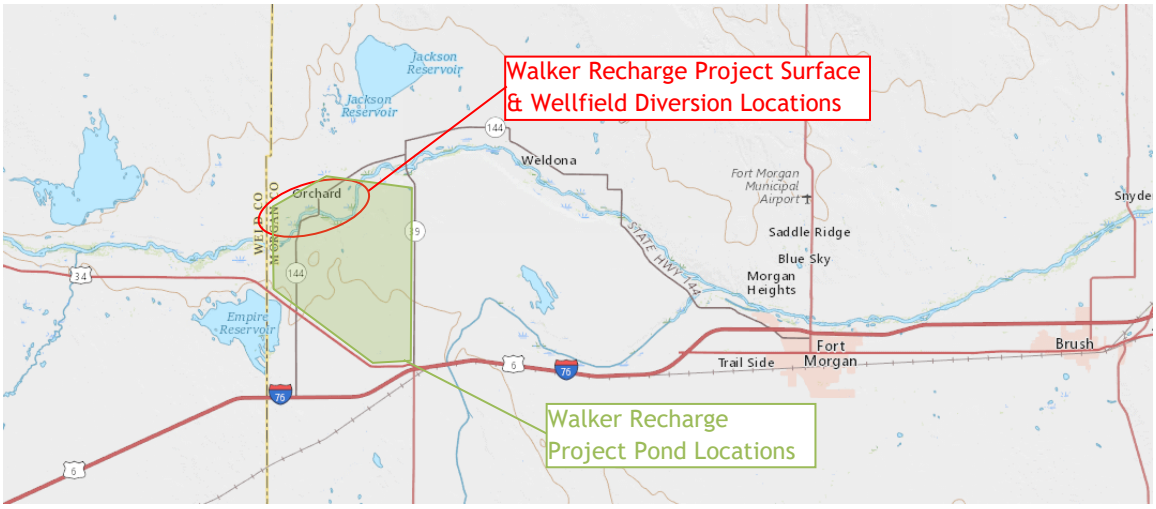


LOCATION			
County:			Weld & Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

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

Construction is expected to generally occur in two phases, each taking three to four years. When finished, recharge credits will be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD will use its recharge credits to increase the amount of water leased to GMS, WAS, and other water users within the CCWCD boundaries.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Walker Recharge

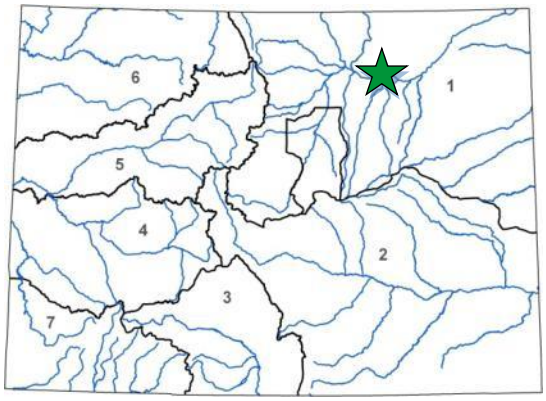
Groundwater Management Subdistrict of Central Colorado Water Conservancy District

September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$18,164,000
CWCB Loan (with Service Fee):	$9,847,500
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Augmentation Facility
Annual Yield:	9,100 AF

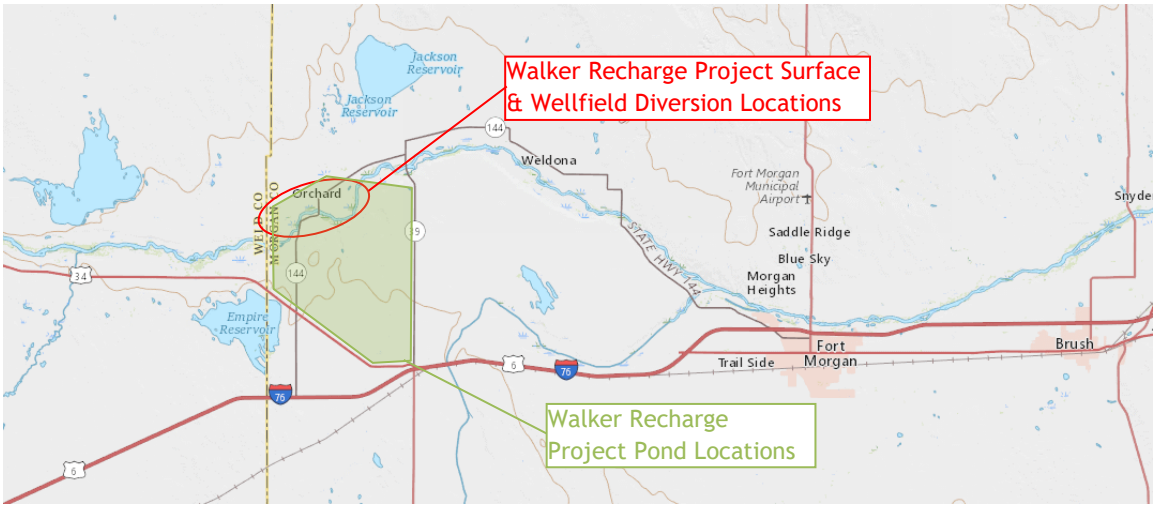


LOCATION			
County:			Weld & Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

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

Construction is expected to generally occur in two phases, each taking three to four years. When finished, recharge credits will be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD will use its recharge credits to increase the amount of water leased to GMS, WAS, and other water users within the CCWCD boundaries.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

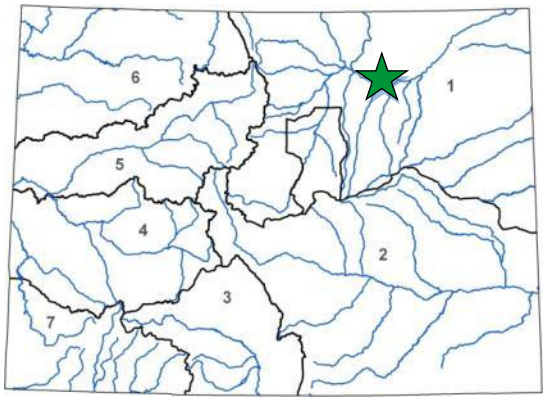
Walker Recharge

Well Augmentation Subdistrict of
Central Colorado Water Conservancy District
September 2018 Board Meeting

LOAN DETAILS	
Project Cost:	$18,164,000
CWCB Loan (with Service Fee):	$3,030,000
Loan Term and Interest Rate:	30 years @ 1.75%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0 % Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Augmentation Facility
Annual Yield:	2,800 AF

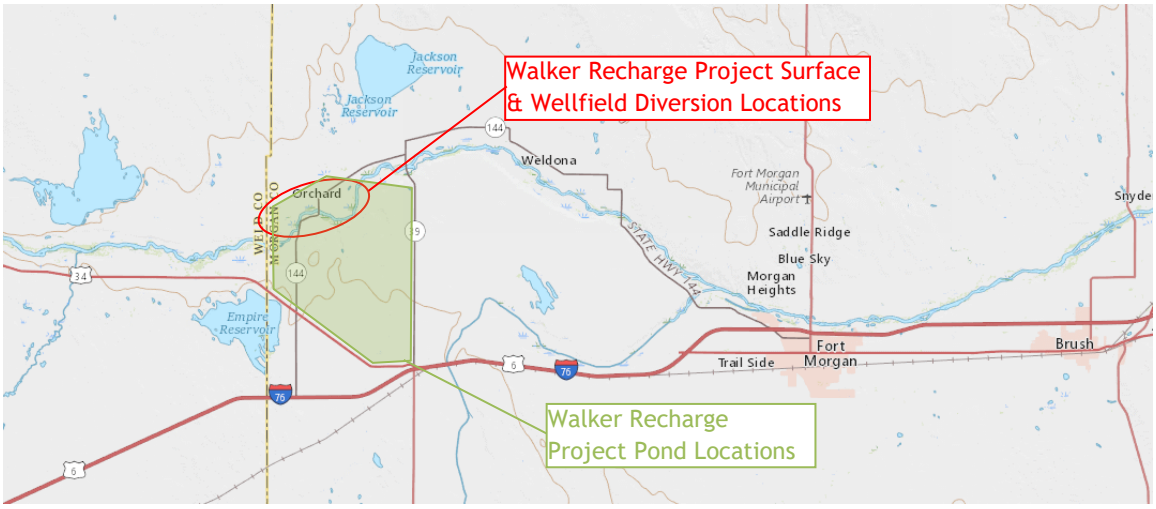


LOCATION			
County:			Weld & Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

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

Construction is expected to generally occur in two phases, each taking three to four years. When finished, recharge credits will be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD will use its recharge credits to increase the amount of water leased to GMS, WAS, and other water users within the CCWCD boundaries.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Replacement

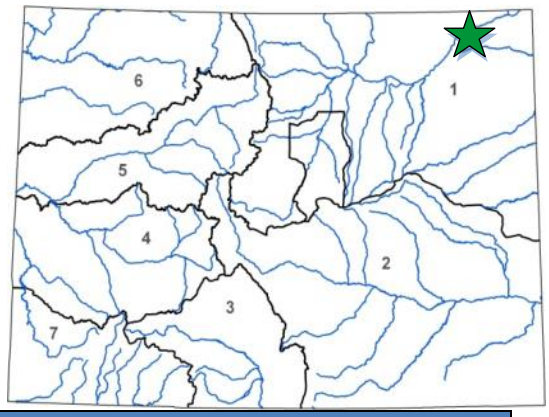
Schneider Ditch Company

January 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$1,233,000
CWCB Loan (with 1% Service Fee):	$1,245,330
Loan Term and Interest Rate:	30 years @ 1.85%
Funding Source:	Severance Tax PBF

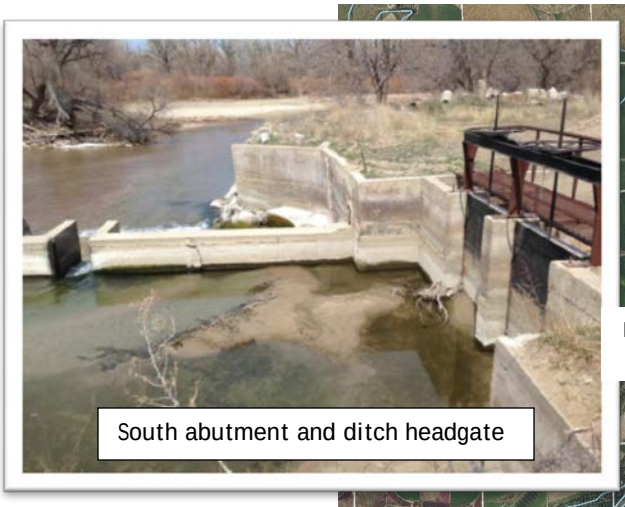
BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
100%	0%	0%

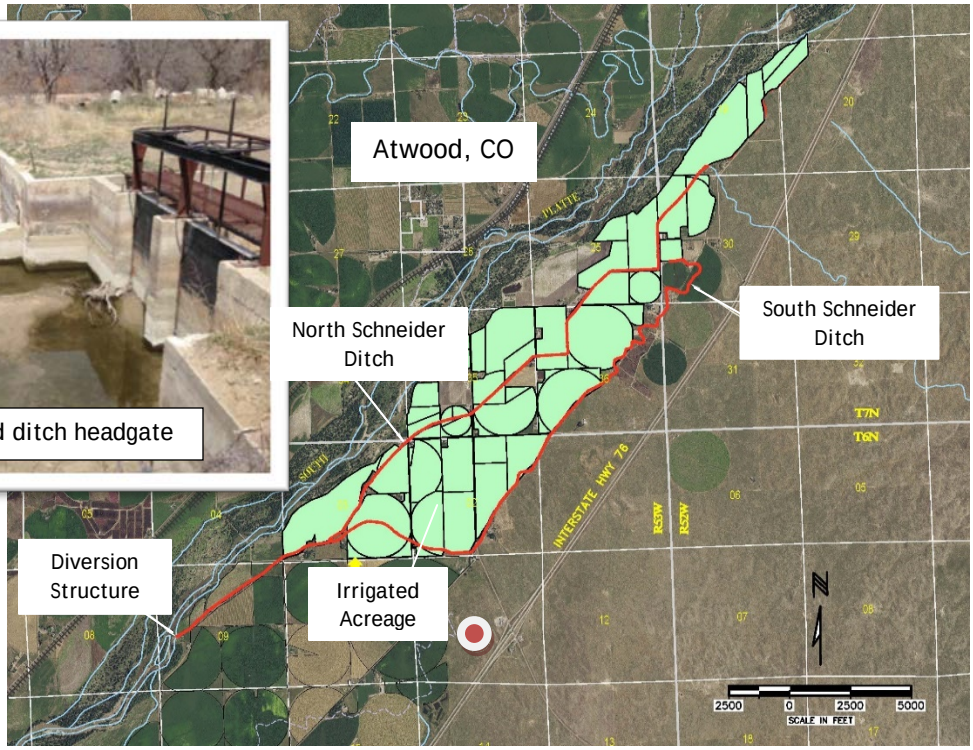
PROJECT DETAILS	
Project Type:	Diversion Structure
Average Annual Diversions:	9,400 AF



LOCATION			
County:			Logan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	64

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 consists of a concrete rollover wall with a flashboard system that diverts water into the ditch. The current structure has a problem with seepage, undermining, and sediment control. A major operational drawback of the current structure is the inability of the Company to remove flashboards on a routine basis, which results in a significant build-up of sand in front of the rollover wall and the ditch intake headgates. The proposed project will include 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 is anticipated to begin in the fall of 2019 with completion before the 2020 irrigation season.


South abutment and ditch headgate



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Dominion Water and Sanitation District

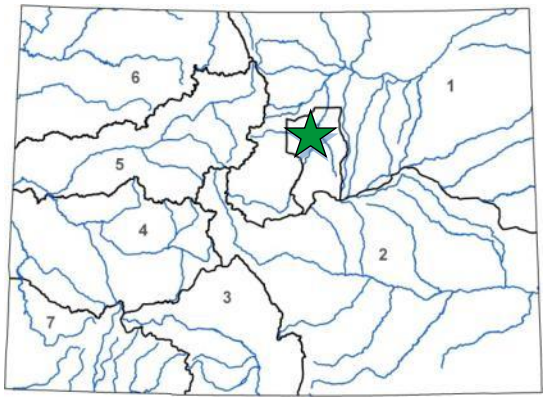
Chatfield Reallocation Project

March 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$4,150,485
CWCB Loan (with Service Fee):	$4,191,989.85
Loan Term and Interest Rate:	30 years @ 3.30%
Funding Source:	Severance Tax PBF

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	0 % Low - 0% Mid -100% High	0%

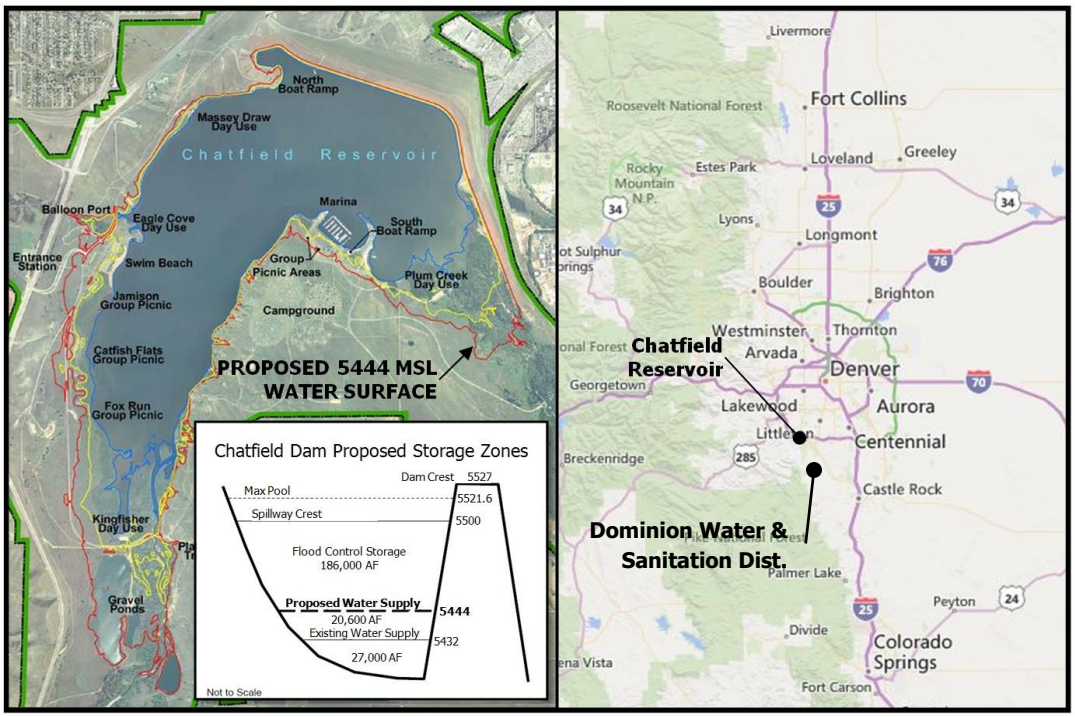
PROJECT DETAILS	
Project Type:	Reservoir Enlargement
New Storage:	500 AF



LOCATION			
County:			Douglas
Water Source:	S. Platte River & Plum Creek		
Drainage Basin:			South Platte
Division:	1	*District:*	2

The Dominion Water & Sanitation District is a wholesale water district that was formed in 2004 and provides water, wastewater, and stormwater services to Northwest Douglas County. The District is participating in the Chatfield Reallocation Project in order to increase the permanence and reliability of its water supply. Successful completion of the Project will provide the opportunity to maximize the dependable yield of Dominion's water rights portfolio. Of the 20,600 AF of storage space being reallocated, the District is purchasing 500 AF from the CWCB. The District will store Chatfield water in accordance with pending water court Case No. 18CW3039.

The US Army Corps of Engineers issued the Project's final Feasibility Report and Environmental Impact Statement (FR/EIS) and the Record of Decision on May 29, 2014. The Selected Alternative recommended in the FR/EIS will provide 20,600 acre-feet of storage in Chatfield between the elevations 5432 and 5444 msl for M&I water supply and other purposes including agriculture, environmental restoration, and recreation and fishery habitat protection and enhancement. The current overall Reallocation Project cost estimate is $8,300.97 per AF ($171 million total). It is anticipated participants in the Reallocation Project will be able to store water by Spring 2020.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Guanella Reservoir Storage Purchase

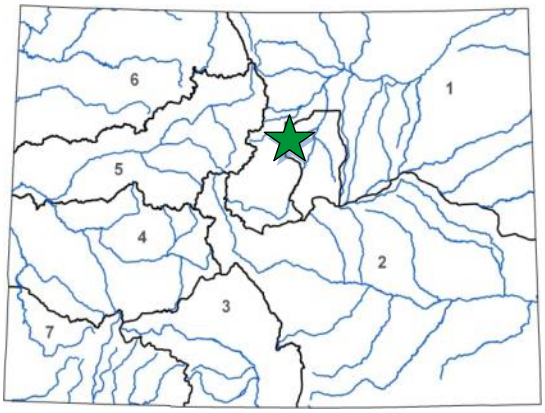
Town of Empire

May 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$123,000
CWCB Loan (with 1% Service Fee):	$124,230
Loan Term and Interest Rate:	30 years @ 2.50%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
0%	100% Low - 0% Mid -0% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Storage
Average Annual Diversions:	50 AF



LOCATION			
County:			Clear Creek
Water Source:			West Fork of Clear Creek
Drainage Basin:			South Platte
Division:	1	*District:*	7

The City of Golden constructed Guanella Reservoir in 2003 just upstream from the Town of Empire. During construction of the reservoir, negotiations between Empire and Golden yielded an agreement that allowed Empire the delivery of up to 6.3 acre-feet of water per year from Guanella Reservoir. In addition to the yearly delivery, the Town of Empire has the option to purchase or lease 10 acre-feet of perpetual storage in the reservoir. The term of the purchase/lease option of the Golden Agreement expires in 2033. This project will secure the 10 acre-feet of storage space in Guanella Reservoir. The purchase is anticipated to occur in 2019.


Guanella Reservoir looking south


Guanella Reservoir and Dam

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Prewitt Reservoir Rehabilitation

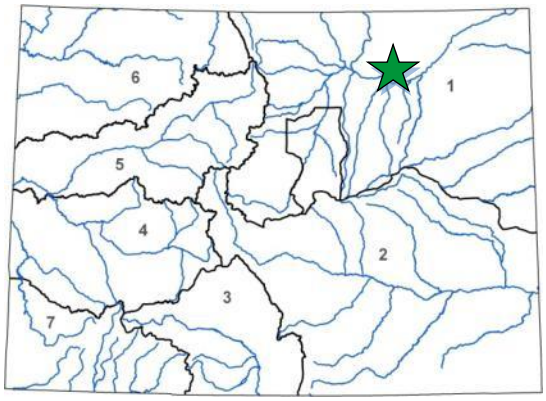
Logan Irrigation District

May 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$3,239,000
CWCB Loan (with Service Fee):	$1,849,310
Loan Term and Interest Rate:	30 years @ 1.90%
Funding Source:	Severance Tax PBF/ Water Plan Grant

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
91%	2% Low - 0% Mid -7% High	0%

PROJECT DETAILS	
Project Type:	Reservoir Rehabilitation
Storage Recovered:	1,604 AF

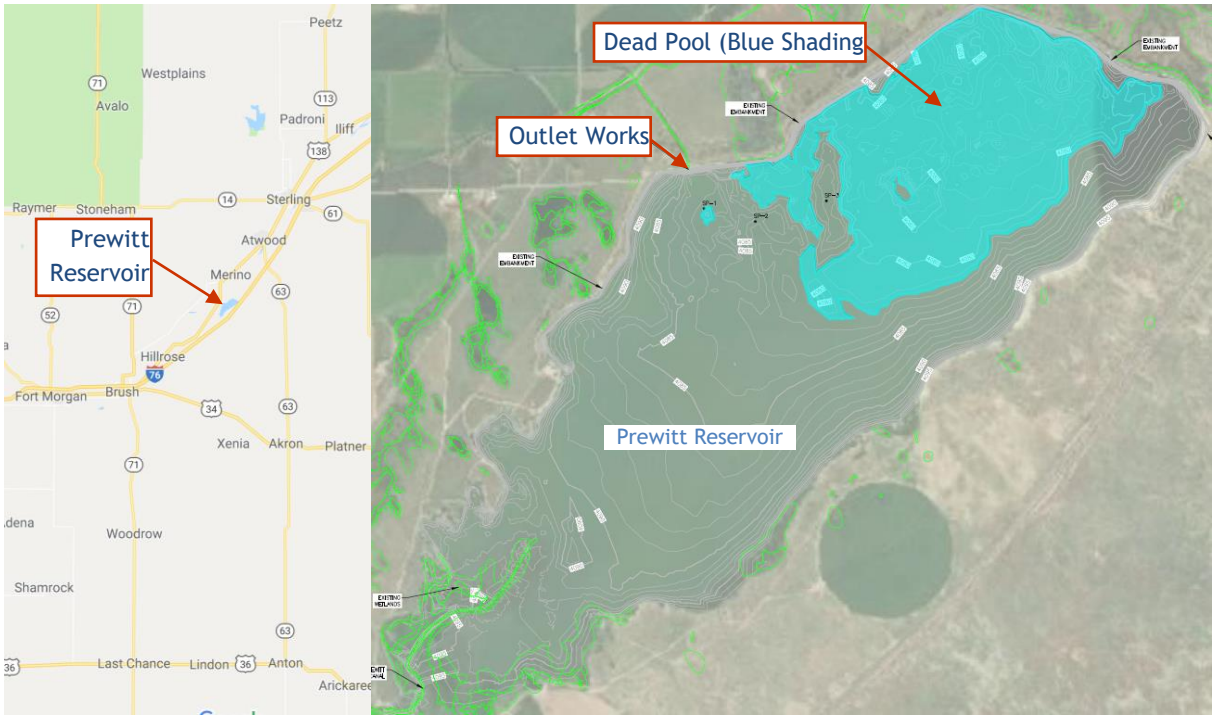


LOCATION			
County:	Washington and Logan		
Water Source:	South Platte River		
Drainage Basin:	South Platte		
Division:	1	*District:*	64

Prewitt Reservoir is owned by Logan Irrigation District, Iliff Irrigation District, and the Morgan Prewitt Reservoir Company. Together they manage the Reservoir through the Prewitt Operating Committee.

Prewitt was built in 1910 and has a current available storage capacity of 29,283 AF. Sedimentation within the Reservoir has caused 1,604 AF to be blocked off from the outlet, creating a dead pool. This project will reconnect the dead pool by dredging a channel from the dead pool to the outlet works. Dredged material will be disposed of by creating an island habitat enhancement site within the Reservoir.

Logan Irrigation District is requesting this loan on behalf of the Operating Committee. Iliff Irrigation District and the Morgan Prewitt Reservoir Company will be Cooperating Entities and all three Reservoir owners will enter into a special agreement setting forth terms for each to pay its pro-rata share of the loan's annual payment. It is anticipated that construction will be able to begin by August 2020 and be completed by August 2021.



COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Diversion Structure Replacement

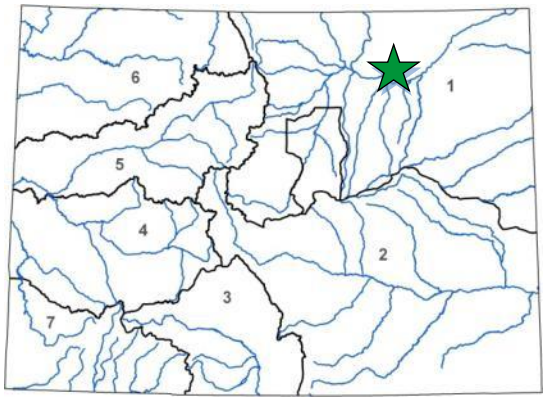
Upper Platte and Beaver Canal Company

May 2019 Board Meeting

LOAN DETAILS	
Project Cost:	$4,392,000
CWCB Loan (with Service Fee):	$4,435,920
Loan Term and Interest Rate:	40 years @ 2.25%
Funding Source:	Construction Fund

BORROWER TYPE		
Agriculture	*Municipal*	*Commercial*
85%	12 % Low - 0% Mid -0% High	3%

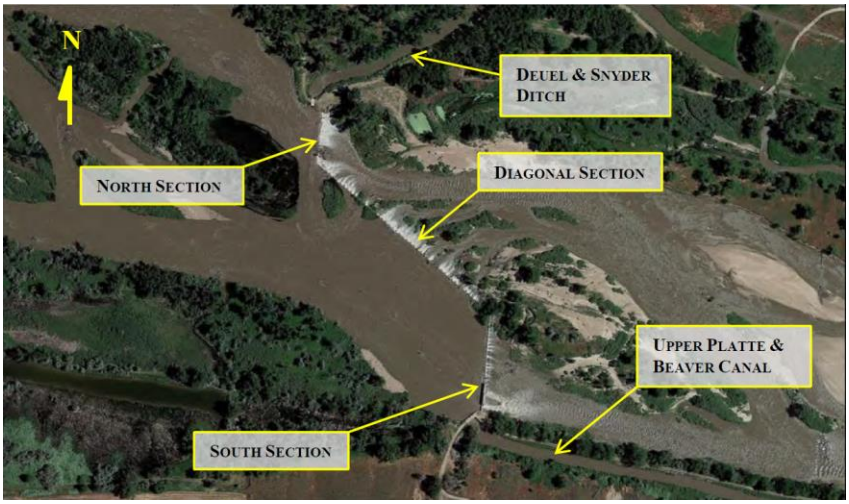
PROJECT DETAILS	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	32,300 AF



LOCATION			
County:			Morgan
Water Source:			South Platte River
Drainage Basin:			South Platte
Division:	1	*District:*	1

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

The existing diversion structure is a reinforced concrete slab and buttress structure with a height of 9 feet and a length of 1,416 feet. The diversion structure was originally built in 1936 and had improvements done in 1965. This existing structure has several deficiencies including seepage and erosion under the structure and concrete deterioration throughout the structure. This project will consist of the removal and replacement of the existing structure. The new structure will incorporate inflatable crest gate spillways (Obermeyer gate) and restore channel continuity, improve sediment transport, and provide additional flow conveyance during floods. Construction is anticipated to occur from October 2019 through April 2020.



WATER PROJECT CONSTRUCTION LOAN PROGRAM
LOAN REPAYMENT DELINQUENCY REPORT
LOAN FINANCIAL ACTIVITY REPORT
JULY 2019

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2018 through June 2019. 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 2019 totaled 301. Thus, the on-time performance for the total repayments due was 99% in compliance or 1% not in compliance.

Two Rivers Water Company paid their annual loan balance due of $69,807.12 on May 24, 2019 for their March 01, 2019 payment. They are no longer delinquent.

LOANS PAID OFF

During Fiscal Year 2019, there were 7 loans repaid in full to the Construction Fund and 1 loan repaid in full to the Severance Tax Perpetual Base Fund, detailed as follows:

CONSTRUCTION FUND

Borrower	Contract No.	Original Loan	Principal Received
Beaver Park Water Inc.	C153742	$ 975,000.00	$ 303,298.23
Decker Lateral Company	C153757	$ 100,000.00	$ 47,743.63
Left Hand Ditch Company	C153804	$ 560,000.00	$ 184,475.27
Ogilvy Irrigating & Land Company	C150148	$ 353,500.00	$ 26,871.72
Town of Rico	C153166	$ 80,000.00	$ 2,412.63
Upper Platte and Beaver Canal Company	CT2015-101	$ 119,684.76	$ 81,595.13
Western Mutual Ditch	C153857	$ 100,000.00	$ 6,936.09
Total Received		$ 2,288,184.76	$ 653,332.70

SEVERANCE TAX PERPETUAL BASE FUND

Borrower	Contract No.	Original Loan	Principal Received
Riverside	CT2015-026	$ 1,493,650.48	$ 1,493,650.48
Total Received		$ 1,493,650.48	$ 1,493,650.48

LOAN FINANCIAL ACTIVITY

Loan Financial Activity relative to the Water Project Construction Loan Program for Fiscal Year 2019 is summarized as follows: Funds received relative to loans in repayment totaled $28.9M for this year. Funds disbursed relative to new project loans totaled $91.3M for this year. Net activity resulted in $62.4M disbursed by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total received.

Further breakdown is summarized as follows: The Construction Fund portion consists of $17.5M in receivables and $16.1M in disbursements for a total net activity of $1.4 M received over disbursed. The STPBF consists of $11.4M in receivables and $75.1M in disbursements for a total net activity of $63.7M disbursed over received.

CONSTUCTION FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2018	$ 519,412	$ 91,022	$ 610,435	$ -	$ 610,435
August 2018	$ 2,005,898	$ 332,868	$ 2,338,765	$ 327,219	$ 2,011,546
September 2018	$ 605,071	$ 1,233,446	$ 1,838,517	$ 132,471	$ 1,706,047
October 2018	$ 514,942	$ 258,700	$ 773,642	$ 439,324	$ 334,318
November 2018	$ 1,829,545	$ 750,804	$ 2,580,349	$ 680,128	$ 1,900,221
December 2018	$ 871,276	$ 597,131	$ 1,468,407	$ 1,787,365	$ (318,958)
January 2019	$ 230,580	$ 77,137	$ 307,718	$ 1,304,940	$ (997,222)
February 2019	$ 1,448,980	$ 719,853	$ 2,168,833	$ 1,478,577	$ 690,256
March 2019	$ 388,545	$ 377,282	$ 765,826	$ 1,658,482	$ (892,656)
April 2019	$ 1,087,926	$ 700,773	$ 1,788,699	$ 6,096,715	$ (4,308,015)
May 2019	$ 1,320,675	$ 584,788	$ 1,905,463	$ 853,736	$ 1,051,727
June 2019	$ 714,872	$ 310,733	$ 1,025,605	$ 1,398,548	$ (372,943)
FY 2019 Totals	**$ 11,537,722**	**$ 6,034,539**	**$ 17,572,260**	**$ 16,157,505**	**$ 1,414,755**

SEVERANCE TAX PERPETUAL BASE FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2018	$ 18,502	$ 25,022	$ 24,822	$ 3,032,872	$ (3,008,050)
August 2018	$ 3,083,575	$ 882,283	$ 3,967,929	$ 4,060,124	$ (92,195)
September 2018	$ 93,782	$ 22,836	$ 116,618	$ 5,915,536	$ (5,798,918)
October 2018	$ 623,692	$ 623,082	$ 1,246,774	$ 4,109,500	$ (2,862,726)
November 2018	$ 199,419	$ 110,242	$ 309,661	$ 17,202,375	$ (16,892,714)
December 2018	$ 501,149	$ 181,292	$ 682,441	$ 6,563,431	$ (5,880,990)
January 2019	$ 223,116	$ 189,283	$ 412,399	$ 6,253,142	$ (5,840,743)
February 2019	$ 198,100	$ 119,819	$ 317,919	$ 6,038,970	$ (5,721,051)
March 2019	$ 323,545	$ 85,014	$ 408,560	$ 5,847,236	$ (5,438,676)
April 2019	$ 298,277	$ 144,366	$ 442,644	$ 6,213,115	$ (5,770,471)
May 2019	$ 1,170,378	$ 566,774	$ 1,737,152	$ 8,244,189	$ (6,507,037)
June 2019	$ 1,602,399	$ 90,287	$ 1,692,686	$ 1,631,532	$ 61,154
FY 2019 Totals	**$ 8,335,935**	**$ 3,040,299**	**$ 11,359,602**	**$ 75,112,022**	**$ (63,752,419)**
GRAND TOTALS	**$ 19,873,657**	**$ 9,074,838**	**$ 28,931,862**	**$ 91,269,527**	**$ (62,337,664)**