



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

DIRECTOR'S REPORT

March 2018

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



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: Rebecca Mitchell
Erik Skeie

DATE: March 21-22, 2018

SUBJECT: **Agenda Item 5d, March 2018 CWCB Board Meeting Director's Report**

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~STATEWIDE~

GROUND WATER COMMISSION MEETING— The Ground Water Commission (GWC) held its quarterly meeting on February 16, 2018 in Denver, CO. The agenda items included routine reports and Staff updates on: status of the Rio Groundwater Rules (trial concluded, judgment pending); HB 1228 Ag Water Rights Substitute Water Supply Plans (SWSP) Rule Making; Non-tributary Groundwater Rule Making; Republican River Water Conservation District – possible boundary change; SB 41 SWSP and gravels pits; HB 1199 Aquifer Storage and Recovery (authority to SEO staff under GWC oversight); Temporary Fallowing Leasing Pilot Program; NISP/Northern Water and Poudre River flows through Fort Collins; Continuation of Hearing and consideration on a proposal to amend Rule 7.4 to prevent a well from increasing depletions of a designated ground water beyond the well's historical depletions when changing the description of irrigated acres allowed to be irrigated by the well (GWC to consider including HCU as an alternative criteria in addition to historical irrigated acres). The Commission will hold its next regular meeting (location & date TBD) in May 2018. For more information visit: <http://water.state.co.us/groundwater/CGWC/Pages/default.aspx>. (*Craig Godbout - CWCB staff*)

CWCB SMALL FEASIBILITY STUDY GRANT FUND UPDATE—

No new grant applications were received.

Previously approved grants in FY17/18:

- Amity Mutual Ditch Company – Queens Reservoir Feasibility Study (\$42,500.00)
- Town of Georgetown – Georgetown Reservoir Dredging Feasibility Study (\$32,395.50)
- Central Colorado Water Conservancy District – Klug Lake Storage Feasibility Study (\$16,500)

Total funds approved for feasibility study grants in FY17/18: \$91,395.50. (*Anna Mauss*)

STATEWIDE WATER SUPPLY INITIATIVE UPDATE— The technical analyses for the update to the Statewide Water Supply Initiative (SWSI) are underway with a small core group of key personnel from the technical team. Due to the sequencing necessary to complete different components of this complicated statewide study, the final report is planned to be completed in June of 2019. However, we are planning to have many of the key deliverables available by December 2018, likely including much of the data, technical memos, and online tools.

The refined fact sheets describing each of the methodologies along with all other project documentation are available on the SWSI Update web page. An update to the project management plan that incorporates a more detailed summary of the final methodology refinements will also be posted in the near future.

In addition, we are working with some members of the technical team that have notable experience in communications and outreach to craft and implement a public relations plan. This plan will identify target markets and communications gaps; define messaging that can clearly convey the SWSI goals, data expectations, and target markets; and clearly put the SWSI update into the larger context of ongoing planning activities, including forthcoming updates to the Basin Implementation Plans (BIP) and Colorado Water Plan. This effort will help guide our consistent and targeted communications about the SWSI update with basin roundtables and other interested parties throughout the state. Among other things, this will include messaging around the updated project timeline and discussing helpful ways for roundtables to use the update. As such, we also plan to have a draft of the BIP update guidance out by the end of the year to detail how SWSI data and tools will integrate with BIPs and how the BIP updates will provide more thorough and consistent information on projects, needs, etc. (*Greg Johnson*)

INTERBASIN COMPACT COMMITTEE UPDATE— The Interbasin Compact Committee met in Golden, CO on February 20, 2018. Their discussion focused on the three new task groups and their ongoing efforts that were initiated at the November 30, 2017 meeting. These groups include: Conceptual Framework, Candidate Letter, and Funding Concepts.

The Conceptual Framework Task Group is working with the CWCB to engage in a statewide education and outreach campaign about both the Conceptual Framework and current Colorado River issues and activities. These efforts are being closely coordinated with the Interstate and Federal Section as well as the Office of the Attorney General. The Candidate Letter Task Group drafted letter to prospective candidates for statewide office (i.e. Governor, state representatives and senators, etc.) to briefly outline major water issues in Colorado and emphasize their importance. The IBCC plans to work with basin roundtables to distribute the letter in May, prior to the primaries in June. Finally, the Funding Concepts Task Group is refining input on potential parameters for a concrete spending plan and related messaging around a possible new revenue source for investment in meeting Colorado's identified water needs. *(Greg Johnson)*

BLM COMMENT PERIODS REOPENING FOR UFO AND GFO PLANNING PROCESSES— Two BLM Field Offices in Colorado are approaching new milestones in their Resource Management Plan (RMP) planning processes. CWCB Staff is poised to participate in those processes, paying particular attention to opportunities to recommend the use of instream flows rather than federal Wild and Scenic designations as a means to protect flow-related resource values.

The Royal Gorge Field Office (RGFO) has notified Cooperating Agencies (CA) that it will share a draft Eastern Colorado RMP document and EA in late March. CWCB Staff has been actively involved in this process as a CA and plans to work with Arkansas River Basin Board Member Jack Goble on any comments during the CA comment period.

Additionally, the Uncompahgre Field Office (UFO) is nearing completion of processing nearly 50,000 public comments on its draft RMP revision. The UFO BLM staff has invited CWCB and other CAs to meet in late March to learn about the comments, BLM's response, and next steps for the RMP process. CWCB Staff plans to actively engage in this process in close coordination with the Board. *(Carlee Brown)*

~ARKANSAS RIVER BASIN~

ARKANSAS RIVER COMPACT ADMINISTRATION— The Special Engineering Committee of the Arkansas River Compact Administration (ARCA) met on February 28th in Manhattan, Kansas. Topics of discussion included a second year of a pilot to use Highland Canal water rights as a source of water for the permanent pool in John Martin Reservoir, and administrative procedures in the event of a spill from John Martin. The permanent pool agreement was discussed, and will be a topic of a Special Meeting of ARCA for final approval in March. This permanent pool agreement was first agreed to by the Administration in 2017, and was a collaborative effort of the Administration, Kansas, the Division of Water Resources, the Attorney General's office, and CWCB staff. *(Brent Newman)*

~COLORADO RIVER BASIN~

COLORADO RIVER BASIN SALINITY CONTROL FORUM— The Work Group and Technical Advisory Group of the Salinity Control Forum met February 12-14th in Boulder City, Nevada. These work groups heard an update from federal partners regarding ongoing scientific and technical studies, as well as the timeline for ongoing funding initiatives. The technical advisory group agreed upon recommendations for future “Science, Investigations, and Research” projects, which will be considered by the Forum at their spring meeting. The Work Group discussed ongoing program funding considerations, and discussed the procedure for funding projects through the Basin States Program which are considered “strategically important” to the Program. Reclamation staff provided an update on the Paradox Valley Unit Environmental Impact Study, and the ongoing zero liquid discharge technology pilot projects which will be operating in Paradox Valley over the next few months. The Salinity Control Forum will be meeting in St. George, Utah on May 15-17. *(Brent Newman)*

OROVILLE DAM TOUR— On February 1st, CWCB staff and Director Mitchell were invited by the Colorado River Authority of California to participate in a tour of Oroville Dam. This dam received a great deal of media attention in winter of 2017 when widespread rainfall and flooding in the Sierras caused damage to the primary and emergency spillways. This dam is an important feature of the California State Water Project, used for flood control, water storage, hydroelectric power generation, and water quality improvement in the Sacramento-San Joaquin River Delta. As part of the State project, State agencies were responsible for emergency management of the dam in this crisis period, procedures for evacuating lands below the dam, and the repairs and analysis of operational procedures following the event last year. Staff was able to learn about the massive financial investment that California has made in this important infrastructure since the failure of these spillways and the internal review of procedures to identify solutions to prevent this type of event from happening again. *(Brent Newman)*



COLORADO RIVER WATER USE—

2018 Colorado River Storage as of March 5, 2018			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1,088.18	10.700	41%
Lake Powell	3,615.58	13.300	55%
Total System Active Storage		31.528	53%
2017 Total Active Storage		29.587	50%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell		5.997	55%

Forecasted CY 2018 Lower Basin Consumptive Use		
State	Use (MAF)	Total (MAF)
Arizona	2.725	
California		
California Agricultural	3.486	
Metro. Water District	0.463	3.965
Other	0.017	6.982
Nevada	0.292	

*Note MAF = million acre-feet

GLEN CANYON DAM ADAPTIVE MANAGEMENT WORK GROUP AND POTENTIAL FLOW EXPERIMENTS— The Glen Canyon Dam Adaptive Management Work Group (AMWG) held its winter meeting on Feb. 14-15, 2018. AMWG members received a preview of an upcoming report on the increased population of Brown Trout—a non-native invasive species—at Lees Ferry. The report will consider several management actions for the Brown Trout. The report will show that the efficacy of those options is dependent on the actual cause of the Brown Trout population growth, which is still not completely understood.

Reclamation shared an update on its process for analyzing potential flow experiments at Glen Canyon Dam (GCD) for 2018. Two experiments are being considered: (1) Macroinvertebrate Production Flows (or “Bug Flows”) to encourage growth of the aquatic foodbase in the Colorado River Ecosystem below GCD; and (2) “half” Trout Management Flows, designed to test the hypothesis that elevated flows would encourage young trout to move up into the margins of the river where they could later be stranded if flows were dropped back down—but the consideration this year is to implement a gradual drop in flows that does not actually strand any fish, since the primary purpose is to monitor initial movement and not to actually manage fish. Either experiment would occur in May-August of 2018. Reclamation’s process involves consultation with a Technical Team consisting of federal agencies and the Basin States. Reclamation will work with the Technical Team and their leadership (the Leadership Team) to develop a consensus recommendation to the Secretary of the Interior by late March. The Secretary will make his decision in mid-April. Colorado is an active participant in the flow experiment discussions.

The GCD Adaptive Management Program hosted its Annual Reporting Meeting on March 6-7. This meeting provided an overview of the research underway to monitor the resources in the Colorado River Ecosystem below GCD, including humpback chub, hydropower, sediment, and other resources. Presentations will be posted online at this [link](#).

~DOLORES RIVER BASIN~

LOWER DOLORES PLAN WORKING GROUP UPDATE— The Lower Dolores Plan Working Group’s Drafting Team, appointed by the Group’s Legislative Subcommittee, has completed the latest version of the draft National Conservation Area (NCA) legislation. Briefings on the draft are being set up or have occurred with Dolores County, Montrose County and San Miguel County. At this time, Montrose County has withdrawn its support of the NCA legislation. After the Drafting Team has received input on the draft legislation from the counties’ respective boards of commissioners and attorneys, the Drafting Team may seek additional legal advice from David Robbins, who advised the Drafting Team during its development of the current draft.

One of the most important outcomes of the NCA Legislative effort has been the formation of the Native Fish Monitoring and Recommendation Team. The Lower Dolores Native Fish Monitoring and Recommendation Team has scheduled two meetings in March. The first is a public meeting on March 12 at the BLM Tres Rios Field Office to share 2017 spill management objectives, operational challenges and monitoring results, as presented by participating scientists. The second is a Monitoring and Recommendation Team meeting on March 14 to report and discuss input from the public meeting, review 2017 release monitoring, and begin to look toward the future using lessons learned from the application of model hydrographs developed for various managed release volumes. (*Linda Bassi*)

~PLATTE RIVER BASIN~

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM LEADERSHIP— The Executive Director of the Platte River Recovery Implementation Program, Jerry Kenny, passed away unexpectedly in January of this year. In the midst of this heartbreaking development, staff at Headwaters Corporation (which manages the PRRIP) have proposed a new structure for the ongoing leadership of the Program. Under this proposal, three positions would provide leadership for the program: Executive Director, to be filled by Headwaters staff member Jason Farnsworth; Deputy Executive Director, to be filled by Headwaters staff Chad Smith; and Director of Water Resources, a newly created position to be filled via a full candidate search. Headwaters staff has presented this option—as well as the option of a full external search for a new Executive Director—to the PRRIP Governance Committee (GC). Members of the GC have expressed general support of the first approach which would promote the existing Headwaters staff, but have not yet voted on the proposal. They will do so at the March 13-14 PRRIP GC meeting. (*Carlee Brown*)

~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE—

One grant application has been received since the January 2018 Director's Report

- East Cherry Creek Valley Water & Sanitation District –Water Efficiency Plan Update

One grant has been approved since the January 2018 Director's Report:

- 4CORE – Pure Water Colorado Demonstration Project (\$11,007.50)

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

- Town of Frisco –Blue River Watershed Regional Water Efficiency Plan – 50% Progress Report
 - CORE – High Five Campaign – Final Report
 - South Metro Water Supply Authority – Regional Landscape Certification Program – 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

- No new plans approved since last board meeting

WATER EFFICIENCY PLANS:

Approved Plans:

- No new plans approved since last board meeting

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.

- City of Brighton
- Morgan County Quality Water District
- Thornton

Water Efficiency Plans in review:

- Widefield Water & Sanitation District
- North Weld County Water District
- Evans
- Town of Severance
- City of Longmont
- Fountain
- Lafayette
- Blue River Regional Water Efficiency Plan (Individual plans from Frisco, Copper Mt., Breckenridge, Dillon)
(Kevin Reidy & Ben Wade)

GOVERNOR’S WATER AVAILABILITY TASK FORCE— There will be a Joint Water Availability & Flood Task Force meeting will be on March 18th from 9:00am-12:00noon at the Colorado Parks & Wildlife Headquarters, 6060 Broadway, Denver, CO in the Big Horn Room. 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— 2018 has started off warm and dry across most of the state with very few below average temperatures; and despite recent precipitation, it is unlikely that many basins in the southern half of the state will be able to reach average snow accumulation this season. 71 percent of the state is in some level of drought classification with 38 percent in moderate drought, 26 percent in severe drought and 8 percent classified as extremely dry. An additional 20 percent of the state is experiencing abnormally dry conditions. Mesa Verde National Park is currently experiencing the driest conditions on record (1923). Water providers are cautiously watching conditions and limited impacts have been reported. Statistical analyses indicate that it will be hard for the state as a whole to reach normal snowpack given current conditions; however this varies from basin to basin with southern basins significantly drier than those in the north.

Reservoir storage statewide is at 115 percent of normal, with all basins above average. The Arkansas basin is reporting the highest average storage at 143 percent. The Gunnison basin has the lowest storage levels in the state at 104 percent of normal.

A weak La Niña remains in force for now, and forecasts indicate that warm and dry conditions are likely to persist through the spring. It is unclear what will happen during the summer months. Conditions will continue to be monitored very closely and further action will be taken as needed. (Taryn Finnessey)

CLIMATE CHANGE— The Colorado Communities Symposium was hosted on January 31 through February 2, 2018 at the Hyatt Regency Aurora-Denver Conference Center. Attended by 455 professionals and elected officials, the

Symposium's participants represented a broad range of sectors and Colorado regions. The Symposium featured a series of plenary sessions, breakout tracks, and facilitated town hall discussions. In general feedback on the event was extremely positive and staff is moving forward with implementation. A recap report of the event reflecting the themes and prospective action items identified during the Symposium can be found [HERE](#). *(Taryn Finnessey)*

WATER AND GROWTH DIALOGUE— Through a Water Efficiency Grant, the Keystone Center is facilitating a dialogue to quantify water use through different land use patterns as well as bringing together land use and water managers to discuss where integration can occur. Staff serves on the technical advisory group as well as the steering committee. The steering committee is reviewing a final report for dissemination with all the results to date. At present, the group is determining the path forward and how to disseminate the results of the project once complete. *(Kevin Reidy)*

CO WATER LOSS INITIATIVE— CWCB Staff 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. CWCB convened a small advisory group to weigh in on the scope of work and to assist with the development of the programming. The scope of work is being reviewed in procurement to issue an RFP in late March. The aim is to kick off the program with a contractor in place in late May. *(Kevin Reidy)*

LAND/WATER PLANNING NEXUS— CWCB Staff 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. Additionally, CWCB and DOLA are working with the Babbitt Water Center, out of AZ, to develop more guidance on integrating land and water use planning in CO and to assess which communities are doing this already. A second workshop is scheduled for the Water and Land Use Planning Alliance on March 7 as a precursor to the Rocky Mountain Land Use Institute. The goal of the second workshop is to focus the group into two areas: technical assistance & outreach and data collection & quantification. The idea is to have two subgroups emerge from the workshop to carry on work and coordinate for the near future. *(Kevin Reidy)*

CONFERENCES AND WORKSHOPS/OUTREACH—

Next Generation Water Summit (Santa Fe, NM; April 29-May1): CWCB Staff has been asked to present on Colorado Statewide water efficiency and reuse initiatives along with state officials from California, Nevada, Arizona, Washington State, Utah and New Mexico. *(Kevin Reidy)*

AWWA Sustainable Water Management Conference (Seattle, WA; March 25-28): As part of CWCB's AWWA Water Conservation Division Trustee duties, staff will be attending semi-annual Division meetings at the conference as well as moderating a panel. *(Kevin Reidy)*

~WATERSHED AND FLOOD UPDATES~

MAPPING UPDATE—

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. The State Task Order is finalized and a kick off meeting will be held in the Spring 2018.

Because of the State funded Hazard Mapping Program, the CWCB was able to leverage \$929,729 from FEMA to update streams across seven counties in northeast Colorado. This update involves 233 panels and covers areas located in Boulder, Logan, Larimer, Morgan, Weld, Washington, and Sedgwick Counties. The State Task order is finalized and work will begin in Spring 2018.

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 has awarded CWCB \$654,717 to fund the proposed projects that identified from the Discovery effort. This 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. The State Task order is finalized and a kick off meeting will be held on March 23, 2018.

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 Amec Foster Wheeler is the mapping contractor to do this work.

FY16 Activities: Upper White Watershed Risk Map Phase II is on track. The preliminary map distribution is scheduled for the Fall 2017. St. Vrain Risk Map Phase III is also well under way. The hydraulic tasks and floodplain mapping tasks have been submitted to FEMA.

CWCB received \$3.4 million FEMA grant for LiDAR acquisition in Colorado for future floodplain mapping projects. CWCB has selected the vendors and the first flight for data collection will occur in the Fall 2017. A State task order was recently approved to fund a regional hydrology study update on the Colorado River near Granby to the border with Utah. Preliminary results are now available. This data will be submitted to FEMA for review and approval.

FY15 Activities: The Cache La Poudre Phase III project will begin shortly after the hydraulic and floodplain mapping tasks are completed. The hydraulic analysis will be reviewed a second time by FEMA, but the project is delayed until the levee issues in Fort Collins is resolved. The purchase of the IFSAR data is in progress and the data should be delivered in May 2017. This purchase was delayed due to contracting language revisions and additional approval processes. The Middle South Platte Watershed delineation project will begin shortly after we receive the IFSAR data. Upper Gunnison Risk Map Project schedule was revised due to a slight delay in locating topographic data near Crested Butte.

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

A Flood Risk Review meeting was held in early April with the community officials to provide a sneak preview of the draft floodplain maps. This project will continue through post processing tasks with a new FEMA grant which was awarded in FY 16.

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.

Other non-mapping projects funded by FEMA this year included an inventory of the ongoing studies and other data in the post flood areas, developing a technical evaluation of flood forecasting methods using Risk Map products, and developing a model management system to store all available hydrologic and hydraulic models in the post-flood areas. All of these projects have been completed and approved by FEMA.

FY13 Activities: The El Paso County as a partial Countywide DFIRM project is now in the post appeal period and will be completed as a revised preliminary project due to the number of issues found in the mapping. Purgatoire Watershed Risk Map project has gone through the preliminary phase and the preliminary maps have been sent to communities for review. The next step will be to schedule a meeting with the local officials to review maps and obtain any comments from the community officials. This project includes Las Animas County and the City of Trinidad.

The Pueblo County DFIRM is now in the post-preliminary phase. The appeal period started on January 17, 2017. Thus far no appeals have been received by the communities.

FY12 Activities: The grant for Purgatoire Watershed was funded through floodplain mapping and all tasks have been completed under the 2012 grant. A new grant was approved in 2013 to complete the Purgatoire Risk Map project to effective and the progress report is found under FY 13 Activities. The Cache La Poudre Risk Map project was funded in FY 2012 and the hydraulic and floodplain mapping tasks are almost complete. A new FEMA grant was awarded in FY 2015 to complete the Cache La Poudre Risk Map project under Phase III.

FY11 Activities: Hydrology tasks for St. Vrain and Clear Creek watersheds have been completed and approved. The scope of work for the St. Vrain watershed was revised to include areas that were impacted by the flood. All tasks under this grant have been completed through to floodplain mapping. The FEMA grant for this project has expired and a new grant was approved in 2016 to complete additional tasks to finalize the maps as FEMA effective products. Updates for the St. Vrain Risk Map project will be provided under FY 2016 activities. Some streams updated through the Colorado Hazard Mapping Project will be included in the St. Vrain map update.

Clear Creek Risk Map preliminary maps were distributed on February 8, 2017. The community review meeting was held on March 30, 2017. Documents are currently being finalized to request Federal Register and the next step will be the local newspaper publications and appeal period.

FY10 Activities: Chaffee and Pitkin Counties are now in the post preliminary phase. The appeal period has ended for both of these projects and there were several appeals that were received. The appeal resolution and community response letters are being finalized. Pitkin County may be extended into a revised preliminary project due to the number and scale of appeals that were received. Chaffee County DFIRM is moving forward toward effective and the Letter of Final Determination (LFD) will be determined in the next few weeks, depending on FEMA HQ approval.

FY09 Activities: The Morgan County DFIRM appeal period started on February 22, 2017. There has been some local questions and concerns about the updated mapping and CWCB and FEMA are working with the local constituents and community officials.

The Prowers County DFIRM appeal period has ended and the LFD letters were distributed on October 19, 2015. The maps became effective on April 19, 2016. (*Thuy Patton*)

FLUVIAL HAZARD MAPPING UPDATE— The floods of September 2013 reminded Coloradans how quickly rivers and streams in their state can change and morph into extreme storm events. Approximately half of the private structure damages and losses experienced in the 2013 flood were located outside of the regulatory floodplain, or Special Flood Hazard Area (SFHA), designated by the Federal Emergency Management Agency (FEMA). These flood-related risks associated with erosion, deposition, degradation, lateral migration, and avulsion created disastrous outcomes in 2013, and those outcomes may occur again in future flood events in Colorado.

The identification of fluvial hazard zones has become a high priority as Colorado recovers from the September 2013 floods and transitions toward long-term river corridor planning. Planning for erosion hazards is an essential component of effective river corridor management and the prevention of future flood damages. Broadly defined, the Fluvial Hazard Zone (FHZ) is the area a stream has occupied in recent history, could occupy, or could physically influence as it stores and transports sediment and debris during flood events. In early 2015, Colorado's Legislature passed a funding bill for the Colorado Hazard Mapping Program, which aims to provide a mitigation and land use framework in areas likely to be affected by future flooding, erosion, and debris flow events.

The fluvial hazard mapping component of the project began in January 2017. The engineering firm Amec Foster Wheeler has been contracted to do the work. The program will refine mapping methodology and perform a series of pilot studies on fluvial hazards throughout the State. Communities interested in participating in the pilot studies submitted applications to the CWCB and selections were made in May of 2017. Community selections were based on physio-geographic location, geomorphic setting, existing data availability, and other technical elements, as well as community support, budget, and time constraints. Communities selected include Boulder, Eagle, Saguache, and San Miguel Counties, and the Town of Castle Rock, City of Delta, Town of Estes Park and Town of Nederland. Map products and a model land use code will be available for voluntary adoption by communities by the end of June 2018. (*Stephanie DiBetitto*)

FLOODPLAIN RULES AND REGULATIONS UPDATE— The State of Colorado, through CWCB action in November 2010, adopted increased standards for floodplain management, which are contained in the Rules and Regulations for Regulatory Floodplains in Colorado (Rules), effective January 14, 2011.

Communities were provided with a three-year transition period to adopt local regulations consistent with the Rules. Through sound floodplain management practices, these standards support enhanced public health, safety and welfare and will help communities reduce future flood risk to people and property. Staff has been working very collaboratively with communities to assist them with technical questions, model ordinance templates, and transition support. CWCB staff has contacted each community that has not yet provided documentation of adoption of the Rules via phone or email to offer assistance. Staff has also met with several communities to answer questions and review the process for updating floodplain regulations. Most communities have made adopting the Rules into local floodplain regulations a priority. However, several communities have not completed the adoption or provided documentation to CWCB. There are 5 out of 252 total communities that participate in the National Flood Insurance Program and have Special Flood Hazard Areas identified that have not yet provided

documentation of adopting the Rules. In accordance with the procedure outlined in Rule 16, staff is continuing to provide outreach and technical assistance to these communities. (*Stephanie DiBetitto*)

FLOODPLAIN HAZARD MAPPING UPDATE— The Colorado Hazard Mapping Program (CHAMP), funded under Senate Bill 15-245, is making great progress with approximate one year left. Phases 1 and 2 have acquired all necessary funding. Phase 1 of CHAMP involves conducting new flood hazard analyses and floodplain delineations for streams particularly affected by the September 2013 flood event. These primarily include streams in Boulder, Larimer, and Weld Counties, CO, and small portions of Jefferson and Gilpin Counties, CO. CHAMP Phase 2 includes streams excluded from Year 1 in the Big Thompson and St. Vrain Hydrologic Unit Code 8 (HUC8) Watersheds and an update of the South Platte River from the Weld-Adams County line to the Colorado-Nebraska State line.

Floodplain Mapping for all Year 1 streams is being finalized and will be submitted to FEMA for review soon. Stream modeling of Big Thomas Year 2 streams is completed and being reviewed by local agencies prior to sending to FEMA for review. This includes coordination with Larimer County, Estes Park, and EWP team. The St. Vrain Watershed Year 1 floodplain mapping will be submitted to FEMA next month. The floodways are also being analyzed for St. Vrain Creek in Longmont and East of Longmont, and Boulder Creek in Weld County. Most Year 2 streams' hydraulic modeling is completed with the exception of Left Hand Creek. We are coordinating with Boulder County for data reviews and will hold flood risk reviews with other communities soon. Stream modeling is completed and being reviewed by local agencies for South Plate Year 2 streams and floodplain mapping will begin shortly.

Phase 3 of CHAMP focuses on counties and communities that are still utilizing paper FEMA floodplain maps. This scope includes digitizing existing Flood Insurance Rate Maps (FIRM) panels in select communities and jurisdictions and wherever topographic data is available, updated flood risk information will be provided as best available information for local communities to utilize.

Hydrologic analysis is completed for the 12 counties being studied with the last of the initial hydrologic submittals was completed in 2017. Stream modeling began in January 2018 and the Southwest Hydraulic Kick-off is scheduled for spring 2018. We plan on starting floodplain mapping by summer 2018 and begin flood risk review meeting in the fall 2018. Funding for Phase 3 is limited and therefore, the communities selected and prioritized were based on interest level, local mapping needs and available topography data.

The CHAMP website has been revamped and expanded to host all Colorado Risk MAP projects. It has a new look and capabilities including all ongoing project information and documentation. Please visit www.coloradohazardmapping.com for all the latest updates. (*Thuy Patton*)

COLORADO FLOOD HAZARD MITIGATION PLAN UPDATE— The CWCB is working to update the Colorado Flood Mitigation Plan, which was last updated in 2013. The Plan will reassess the State's flood risk and mitigation strategies. The Flood Mitigation Plan will be incorporated into the Enhanced State Hazard Mitigation Plan as an appendix. Multiple state agencies are included in the plan preparation process and it will ultimately be adopted by the Governor by its affiliation with the Enhanced State Hazard Mitigation Plan. The Plan will be complete this summer. (*Stephanie DiBetitto*)

COLORADO WATERSHED RESTORATION PROGRAM UPDATE— The Colorado Watershed Restoration Program (CWRP) has grown more popular recently due to increased funding and a general awareness of the benefits of well

functioning watersheds. As such, there has been increased pressure to expand the program into different areas. CWCB staff is tracking the different interests and whether or not they are eligible for grant funds from CWRP. The CWCB understands the role forests play in protecting ecosystem structure and function. Watershed Health is a measure of ecosystem structure and function as defined in Chapter 7.1 of the Colorado Water Plan. In response to questions about the eligibility of forest health projects funded out of CWRP, staff has developed a list of eligible and ineligible forest health planning and project activities.

Forest Health Projects that can be funded by the CWRP include:

- Education, outreach, and stakeholder collaboration to promote and plan for forest health
- Watershed planning focused on protecting water supplies and ecosystem processes.
- Comprehensive pre-wildfire assessments designed to protect critical water supplies, including environmental, recreational, agricultural, municipal, and industrial water supplies.
- Restoration of decommissioned forest roads.
- Protection or Restoration of headwater stream channels addressing geomorphology, biology, and ecology. This may include perennial, ephemeral, and intermittent streams.
- Woody invasive species removal in riparian areas
- Wetland protection and restoration, including fens.
- Alluvial Fan protection and restoration.
- Channel reconfiguration associated mine restoration

Forest Health Projects that cannot be funded by the CWRP include:

- Forest Fuel Reduction Treatments
- Forest Product Development Projects

Parties interested in these activities should contact the Colorado State Forest Service for potential funding sources. The State Forest Service administers the Forest Restoration and Wildfire Risk Mitigation Grant Program and has the appropriate skills and expertise to evaluate these types of projects. Forest Fuel Reduction Treatment funding can be used to match eligible activities from the Colorado Watershed Restoration Program. (*Chris Sturm*)

~AGENCY UPDATES~

STAFFING—

Flood Section Personnel Updates: The Flood Section has some movement in personnel. The two term-limited employees, Corey Elliott and Jeff Conboy, have taken jobs outside of state government. Both positions were slated to end in Summer of 2018, and both elected to leave prior to the end of the term of their positions in order to ensure continuous employment. Because there is limited time left in both terms, staff has elected not to refill these positions.

Corey Elliott's position, in charge of managing the Colorado Hazard Mapping Program associated with SB 15-245, has been replaced with a 9-month temporary hire in Madeline Kelley. Madeline is a graduate student at the University of Denver.

The duties of Jeff Conboy's position, in charge of contracting and accounting for the Emergency Watershed Program, the flood recovery program associated with the 2013 flood, have been absorbed by existing staff members. (*Kevin Houck*)

CWCB welcomes new Decision Support Systems Specialist: CWCB has hired Brian Macpherson as the agency's new Decision Support Systems Specialist. Brian previously served as a Water Resources Engineer at DiNatale Water Consultants. Through that position, he contributed to the development of the South Platte Decision Support System St. Vrain Creek StateMod model. Brian also assisted in writing portions of the Rio Grande Basin Implementation Plan regarding future hydrologic conditions. In his new role, Brian will manage the development and refinement of Colorado's Decision Support Systems (CDSS), including the ongoing development of an Arkansas River DSS (ArkDSS). Welcome Brian! (*Carlee Brown*)

New Online Tools and Map Viewers: The developers at DWR have been hard at work redesigning the Colorado Decision Support System (CDSS) online tools which allow users to query HydroBase. The new tools are mobile-friendly and provide more information on a single screen. You can find the new tools on the CDSS website (<http://cdss.state.co.us/onlineTools/Pages/OnlineToolsHome.aspx>) or by going to <https://dnrweb.state.co.us/cdss/>.

CWCB Staff has also been working with DWR and OIT to transfer our map viewers to OIT servers. The move provides the system more processing power and the ability to upgrade the map viewer software. Links to the new maps are available on the CDSS website under "Online Tools."

As a part of this transfer, we were able to add another map to our collection: the CWCB Snowpack Assessment Viewer ([SNODAS Viewer](#)). Data and tools were originally developed for a subbasin view of snow conditions in the Rio Grande Basin and have since been expanded to cover the entire state. The SNODAS Viewer includes the following GIS data layers, all broken down into subbasins: current mean SWE, current SWE volume, one week change in SWE, and percent snowcover. You can check out the new viewer at <https://gis.colorado.gov/dnrviewer/> or via the CDSS and CWCB websites.

RECENTLY DECREED ISF WATER RIGHTS— On January 12, 2018, the Division 1 Water Court decreed instream flow water rights to the CWCB on a reach of Sand Creek in Case No. 16CW3172 for 1.5 cfs (7/1-5/15), and 5.5 cfs (5/16-6/30), with an appropriation date of January 26, 2016. The upstream terminus is the Colorado-Wyoming Stateline, and the lower terminus is the confluence with an unnamed tributary. This ISF reach is approximately 6.59 miles long and flows in a southeasterly direction through parts of Larimer County. To reach settlement in this matter, stipulations were entered into with the City of Fort Collins and the Cache La Poudre Water Users Association.

On January 12, 2018, the Division 1 Water Court decreed instream flow water rights to the CWCB on a reach of Boxelder Creek in Case No. 16CW3174 for 1.3 cfs (7/1-5/15), and 5.0 cfs (5/16-6/30), with an appropriation date of January 26, 2016. The upstream terminus is the confluence of the South and North Branches of Boxelder Creek, and the lower terminus is the confluence with an unnamed tributary. This ISF reach is approximately 4.72 miles long and flows in a southeasterly direction through parts of Larimer County. To reach settlement in this matter, stipulations were entered into with the City of Fort Collins and the Cache La Poudre Water Users Association.

On January 15, 2018, the Division 1 Water Court decreed instream flow water rights to the CWCB on a reach of Lone Tree Creek in Case No. 16CW3173 for 0.3 cfs (1/1-12/31), with an appropriation date of January 26, 2016. The upstream terminus is the confluence with Spotwood Creek, and the lower terminus is the Meadow Springs Ranch property boundary. This ISF reach is approximately 2.17 miles long and flows in a southerly direction through parts of Weld County. To reach settlement in this matter, stipulations were entered into with the City of Fort Collins and the Cache La Poudre Water Users Association. (*Rob Viehl*)

~GENERAL ATTACHMENTS~

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

~LOAN PROGRAM ATTACHMENTS~

- 01 Water Project Loan Program Interest Rates
- 02 Prequalified Project List and Loan Prospect Summary
- 03 Design and Construction Status Report
- 04 Loan Repayment Delinquency Report

**March 21-22, 2018 Board Meeting
Instream Flow and Natural Lake Level Program
Summary of Resolved Opposition 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. 15CW3012 (Water Division 1) - Application of City of Brighton

The Board ratified this Statement of Opposition at its May 2015 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's many instream flow water rights in the South Platte River Basin by using the water in undefined locations. 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 by agreeing to a notice and comment procedure. This case has been decreed and closed by the court.

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

- In the stipulation, Applicant agreed to the following notice procedure: Pursuant to Paragraph 15.5 of the Decree, in the event Brighton enters into a lease, trade or exchange agreement, pursuant to Paragraphs 15.1 (c) or (d), after the date of this Decree, wherein Brighton will supply decreed fully-consumable water from Brighton's Water Rights changed herein to a water user outside Brighton's service area, then Brighton shall provide written notice of such agreement to the Counsel for Objectors of record in this matter. For notice to the CWCB, Brighton shall, in addition, send a copy of such agreement to the CWCB. If the CWCB has questions related to the proposed agreement's potential impact on a decreed instream flow right, then Brighton agrees to provide the CWCB with additional information related to the agreement's potential impact on a decreed instream flow right. CWCB and Brighton shall attempt to resolve any injury concern outside of court, but if needed, the CWCB shall have 35 days from the date it receives the proposed agreement to file an objection to the agreement with the Court seeking a determination regarding injury to a decreed instream flow right. Such objection is not pursuant to Paragraph 18 in the Decree, but is a separate water matter to be determined by the Court in accordance with C.R.S. §§ 37-92-101, *et seq.* If the CWCB does not file an objection within the

proscribed 35 days, Brighton may operate the lease, trade, or exchange agreement. If the CWCB files a timely objection, Brighton may not operate the lease, trade, or exchange agreement until after a Court addresses the question of injury to a decreed instream flow right, or the proceeding is withdrawn, dismissed, settled or otherwise concluded. Although the CWCB has 35 days to object to the proposed agreement, the CWCB agrees to make a good faith effort to respond in 14 days or sooner as to whether it has a concern.

- Brighton's Water Rights delivered under a lease or trade agreement to a party for use in an extra-territorial area may not be reused by Brighton. If the use of Brighton's Water Rights in an extra-territorial area include reuse and successive use, such use must be authorized pursuant to the terms and conditions of a decree or Substitute Water Supply Plan approved by the State Engineer pursuant to C.R.S. §37-92-308.

(2) Case No. 15CW3001 (Water Division 2) - Application of City of Colorado Springs

The Board ratified this Statement of Opposition at its September 2016 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water rights on Bear Creek, Camp Creek, North Cheyenne Creek, and Severy Creek by expansion of use of senior water rights. In addition, the Board wants to ensure that the extraterritorial use for the changed water rights, which cannot be evaluated because the type of use and the place of use are undefined, does not cause injury. 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. This case is currently set for a five-day trial beginning on November 6, 2018. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water rights in Water Division 2 in the Fountain and Upper Arkansas River Watersheds that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
08CW0058	Bear Creek	headwaters in the vicinity	above Bear Creek pipeline	1.85 (4/15 - 8/15) 1.3 (8/16 - 10/31) 0.75 (11/1 - 4/14)	01/23/2008
80CW0080	Camp Creek	Palmer Res outlet	Forest Service boundary	3 (1/1 - 12/31)	05/07/1980
08CW0055	North Cheyenne Creek	outlet Stratton Reservoir	above N Cheyenne Creek pipeline	3.5 (5/1 - 10/15) 1 (10/16 - 3/31) 2.5 (4/1 - 4/30)	01/23/2008
08CW0056	Severy Creek	headwaters in the vicinity	just above confl Cascade Creek	1.54 (4/1 - 8/14) 0.79 (8/15 - 3/31)	01/23/2008

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

- Colorado Springs shall not use or reuse the Changed Water Rights for augmentation, sale, lease or exchange in a manner that creates depletions at points located on tributaries to the Arkansas River within or upstream of decreed CWCB Instream Flows, except pursuant to a new decree or, alternatively, pursuant to administrative approval, authorizing such delivery. If Colorado Springs operates an administrative exchange in a stream reach with a decreed instream flow water right, Colorado Springs shall give notice to the CWCB before or within 30 days after operating the exchange.

(3) Case No. 15CW3005 (Water Division 2) - Application of Park Center Water District

The Board ratified this Statement of Opposition at its July 2015 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water right on Fourmile Creek by expansion of use or altering the time, place and amount of historical return flows. In addition, the exchanges under Applicant's proposed plan should be defined clearly, with reference to intervening instream flow water rights, so that the CWCB's instream flow water rights are not injured. 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 CWCB holds the following instream flow water right in Water Division 2 in the Upper Arkansas Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
00CW0101-106	Fourmile Creek	confl Barnard Creek	confl High Creek	Varies 3.5 – 9.5 (dates vary)	01/26/2000

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

- Any administrative trade may only operate at times that the Division Engineer and/or Water Commissioner determine that no injury will occur to the vested rights of other appropriators due to operation of the requested trade, and must have the prior approval of the Division Engineer and will make its best efforts to serve notice to the CWCB and all opposers in this matter prior to the administrative trades.
- To the extent that the CWCB has placed a call based upon its senior decreed in-stream flow rights in Four Mile Creek, Applicant will not exercise its right to request deliveries or otherwise use its historical return flows from the changed uses within the reach of the applicable instream flow right.

(4) Case No. 16CW3056 (Water Division 2) - Application of Colorado Springs, Acting Through Colorado Springs Utilities

The Board ratified this Statement of Opposition at its November 2016 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed change of water rights, request for additional replacement sources and change in location of replacements, and plan for augmentation do not injure the Board's instream flow water rights in the Arkansas Basin. 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.

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

- Notice of Exchanges. The exchanges decreed herein must be approved by the Division Engineer prior to operation. The Applicant shall provide notice to and obtain permission from State water administration officials prior to commencing operation of the substitutions and exchanges under this Ruling and Decree.
- Prior to using any Class I Temporary Use Water under this Ruling and Decree, Applicant shall provide written notice to the opposers of the amount of water that Applicant has or intends to take control of, the source of such water, whether the water will be used as an augmentation source, replacement source, and/or exchange source, and the process used to deliver the water under this Ruling and Decree. Applicant shall also consult with the Division Engineer regarding the use of the Class I Temporary Use Water in the augmentation plan, replacement plan, or the appropriative rights of exchange decreed herein and the Applicant's municipal water supply system.
- Prior to using the Class II Temporary Use Water pursuant to this Ruling and Decree, Applicant shall provide written notice to the opposers of the amount of water that Applicant has or intends to take control of, the source of such water, the uses of such water under this Ruling and Decree, the process used to change, quantify, and deliver the water to Applicant, including any supporting engineering, and the decision of the State Engineer approving the use of such water.

(5) Case Nos. 14CW3097 and 14CW3098 (Water Division 5) - Application of Byers Peak Downhill Properties LLC, Byers Peak Properties LLC

The Board ratified these Statements of Opposition at its January 2015 meeting. The Board's main objective in filing the Statements of Opposition in these cases was to ensure that the Applicant's proposed groundwater rights and plan for augmentation and exchange do not injure the Board's instream flow water rights on the Colorado River, Elk Creek, Fraser River, and Saint Louis Creek by expansion of use or not replacing out-of-priority diversions in time, place and amount. 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. Case No. 14CW3098 was consolidated with 14CW3097 on 1/7/2015. This case is currently set for a five-day trial beginning on April 2, 2018. Staff and the Attorney General's Office will continue

to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water rights in Water Division 5 in the Colorado Headwaters and Colorado Headwaters-Plateau watersheds that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
11CW0159, 160, 161	Colorado River	confl Blue River	confl Eagle River	Varies from 600-900 (dates vary)	07/12/2011
80CW0446, 447, 448	Colorado River	hdgt Windy Gap Project div	confl Blue River	Varies 90-150 (1/1 - 12/31)	07/08/1980
11CW0152^	Elk Creek	Confluence of West Elk Creek	Confluence of Fraser River	3 (1/1 - 12/31)	
11CW0152^	Fraser River	Confluence of Elk Creek	Confluence of St. Louis Creek	Varies from 5-120 (dates vary)	
90CW0307	Fraser River	confl Vasquez Creek	confl St Louis Creek	5 (9/16 - 5/14) 11 (5/15 - 9/15)	11/27/1990
90CW0315	Fraser River	confl St Louis Creek	confl Ranch Creek	11 (9/16 - 5/14) 17 (5/15 - 9/15)	11/27/1990
90CW0308	Fraser River	confl Ranch Creek	confl Crooked Creek	17 (5/15 - 9/15) 11 (9/16 - 5/14)	11/27/1990
90CW0308	Fraser River	confl Crooked Creek	confl Colorado River	30 (5/15 - 9/15) 19 (9/16 - 5/14)	11/27/1990
11CW0152^	Saint Louis Creek	Headgate Tyron Ditch	Confluence of Fraser River	10 (1/1 - 12/31)	
90CW0316	Saint Louis Creek	confl King Creek	hdgt Tyron Ditch div	3.5 (9/16 - 5/14) 6 (5/15 - 9/15)	11/27/1990

^ 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:

- In May 2017, Applicants entered into the Water and Wastewater Service Agreement with the Town of Fraser ("Fraser") recorded at Reception No. 2017004241 of the Grand County Clerk and Recorder's real estate records (the "Water and Wastewater Agreement"). A copy of the Water and Wastewater Agreement is attached as Exhibit G. Pursuant to the Water and Wastewater Agreement, Fraser will provide water and wastewater utility service to up to 1,233 SFEs at Byers Peak Ranch under the terms and conditions of the Fraser Municipal Code and Water and Wastewater Agreement. Therefore, except for snowmaking use, the water rights that are the subject of this Decree are only to be used as an alternative water and sewer service in the event that

Fraser is unwilling, unable, or is in breach of its obligations to provide potable municipal water and wastewater service under the Water and Wastewater Agreement.

- If the calling right is located on the Fraser and/or Colorado Rivers downstream of the UFVWF discharge, the Applicant will augment its depletions, not diversion using its upper basin storage supplies.
- The CWCB holds the instream flow water rights described in Exhibit C [of the decree]. Applicants will not divert the RC Pump and Pipeline HG1 and HG2 conditional water rights decreed in Case No. 01CW358 at the pumpback system at any time a water right senior to the RC Pump and Pipeline HG1 and HG2 is placing a call that is administered by the Division Engineer.
- Terms and conditions pursuant to the Stipulation and Agreement with Denver Water and the Grand County and included in the decree are protective of CWCB's interest in the CRCA water under the "environmental flow decree" entered in 11CW152.

(6) Case No. 15CW3110 (Water Division 5) - Application of Red Mountain Willoughby Associates, LLC, RMWW Holdings 25 Year QPRT, RMWW Holdings 30 Year QPRT, RMWW Holdings, LLC

The Board ratified this Statement of Opposition at its March 2016 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water rights on Hunter Creek, Maroon Creek, and the Roaring Fork River by expansion of use or altering the time, place and amount of historical return flows. 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. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

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

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
75W2656	Hunter Creek	confl No Name Creek	confl Roaring Fork River	14 (1/1 - 12/31)	02/26/1975
79CW0190*	Hunter Creek	confl No Name Creek	confl Roaring Fork River	16 (1/1 - 12/31)	01/31/1979
80CW0018^	Hunter Creek	hdgt McFarlane Ditch	historic return flow point	Varies 0.02-15.3 (5/15 - 9/15)	08/04/1946 - 09/15/1967
80CW0062^ (Div. 5)	Hunter Creek	Red Mountain Ditch headgate	confl Roaring Fork River	0.5 (1/1 - 12/31)	05/15/1884
80CW0061^ (Div. 5)	Hunter Creek	Hunter Creek Flume and PL	confl Roaring Fork River	15 (1/1 - 12/31)	06/10/1886
10CW0184^ (Div. 5)	Maroon Creek	hdgt Stapleton Bros Ditch	confl Roaring Fork River	3.83 (5/1 - 10/31)	06/30/1904
10CW0184^ (Div. 5)	Roaring Fork River	confl Maroon Creek	confl Owl Creek	3.54 (5/1 - 10/31)	06/30/1904
76W2948 (Div. 5)	Roaring Fork River	confl Difficult Creek	confl Maroon Creek	32 (1/1 - 12/31)	01/14/1976
85CW0646 (Div. 5)	Roaring Fork River	confl Maroon Creek	confl Fryingpan River	30 (10/1 - 3/31) 55 (4/1 - 9/30)	11/08/1985
85CW0639 (Div. 5)	Roaring Fork River	confl Fryingpan River	confl Crystal River	75 (10/1 - 3/31) 145 (4/1 - 9/30)	11/08/1985

* Increased

^ 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:

- CWCB holds instream flow water rights on the Roaring Fork River above the Fryingpan River confluence, one in the amount of 32.0 c.f.s. from Difficult Creek to Maroon Creek pursuant to Case No. W-2948(76), and another in the amounts of 30.0 c.f.s from Oct. 1 through Mar. 31 and 55.0 c.f.s. from Apr. 1 through Sep. 30 from Maroon Creek to the Fryingpan River pursuant to Case No. 85CW639. The net stream depletion credits associated with the Duroux Ditch priorities described in the Second Claim above will be utilized to the extent available to offset out-of- priority diversions into storage to replace evaporative depletions from May through September. The balance of evaporative depletions and delayed return flow obligation will be replaceable by releases from the Ponds whenever the CWCB rights are calling, provided that 0.58 acres of total pond surface area existed prior to the CWCB's appropriation of instream flow water rights on the Roaring Fork River and is therefore exempted from such a call pursuant to C.R.S. § 37-92- 102(3)(b)) (a July 8, 1951 aerial photo showing the Ponds is attached as Figure 5). The foregoing shall not and does not result in a general subordination of the CWCB's decreed instream flow rights to any other water rights junior to the instream flow water rights described herein, and all water rights decreed herein will be administered subject to the prior appropriation system in relation to all other water rights.

- CWCB also holds instream flow water rights on Hunter Creek pursuant to the decrees in Case Nos. W2656(75) (14.0 c.f.s) and 79CW190 (16.0 c.f.s.) Applicants will not change the historical timing or amount of Hunter Creek diversions pursuant to their interests in Duroux Ditch Priorities 492 and 676, which water rights are senior to these instream flow rights, and Applicants will instead continue to take delivery of their interests in the Duroux Ditch in the amount of their historical pro rata share of deliveries according to their interests in the Duroux Ditch Company. During the non-irrigation season, water stored in the Ponds under their junior storage rights or depletion credits stored in the Ponds will be released as required to meet downstream senior calls including CWCB calls.

(7) Case No. 15CW3123 (Water Division 5) - Application of Home Supply Ditch Company, Inc.

The Board ratified this statement of opposition at its March 2016 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water rights on the Roaring Fork River and Sopris Creek by expansion of use or altering the time, place and amount of historical return flows. 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. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water rights in Water Division 5 in the Roaring Fork River Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
85CW0646	Roaring Fork River	confl Maroon Creek	confl Fryingpan River	30 (10/1 - 3/31) 55 (4/1 - 9/30)	11/08/1985
85CW0639	Roaring Fork River	confl Fryingpan River	confl Crystal River	75 (10/1 - 3/31) 145 (4/1 - 9/30)	11/08/1985
76W2951	Sopris Creek	confl E&W Sopris Creeks	confl Roaring Fork River	5 (1/1 - 12/31)	01/14/1976

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 agreed to a junior appropriation date that does not pre-date CWCB's impacted decreed instream flow water rights.
- Applicant agreed to include a map for its claimed irrigated acreage.

(8) Case No. 16CW3040 (Water Division 5) - Application of Everist Materials, LLC and the Town of Silverthorne

The Board ratified this Statement of Opposition at its September 2016 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the

Applicant's proposed change of water rights and plan for augmentation do not injure the Board's instream flow water rights on the Blue River and Willow Creek by expansion of use or altering the time, place and amount of historical return flows. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water rights will not be injured. The case is pending before the referee. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water rights in Water Division 5 in the Blue River and Willow Creek Watersheds that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
87CW0295	Blue River	confl Willow Creek	confl Rock Creek	58 (10/1 - 3/31) 75 (4/1 - 9/30)	10/02/1987
77W3638	Willow Creek	confl S Willow Creek	confl Blue River	4 (1/1 - 12/31)	01/19/1977
77W3641	Willow Creek	headwaters in vicinity	confl S Willow Creek	3 (1/1 - 12/31)	01/19/1977
87CW0294	Blue River	confl Straight Creek	confl Willow Creek	50 (10/1 - 4/30) 55 (5/1 - 7/31) 52 (8/1 - 9/30)	10/02/1987
87CW0295	Blue River	confl Willow Creek	confl Rock Creek	58 (10/1 - 3/31) 75 (4/1 - 9/30)	10/02/1987

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 Town does not currently claim the right to exchange against any of the return flows that result from the irrigation use of the portion of the 16.24 acre feet of fully consumable water from the Town Portion of the Subject 3 CFS, but reserves the right to claim and utilize such return flows as may be allowed by subsequent application to and decree of the Water Court.
- Pumping from the Town Wells from all sources, including the Town Portion of the Subject 3 CFS, shall be limited to the currently decreed and permitted rates listed in Section 9 [in the decree].
- Neither the Subject 3 CFS nor the McKay Ditch water right are currently diverted under any augmentation plan. Such rights may only be diverted under their own priorities and may not be diverted when there is a senior calling water right, provided, however, that the McKay Ditch water right shall continue to be entitled to protection as a SB 80 beneficiary. In addition, when the CWCB's instream flow rights decreed in Case Nos. 87CW294 or 97CW295, are calling for water, diversions of the Town Portion of the 3 CFS shall not be made at Silverthorne Wells 1 through 11, which are located upstream of the confluence of Willow Creek and the Blue River. The Silverthorne 2016 Effluent Exchange may not be operated when any senior rights within the exchange reach involved, including the CWCB's instream flow rights decreed in Case Nos. 87CW294 or 97CW295, are calling for water and would be injured by the operation of

the Effluence Exchange. The Town will provide prior notice to the Division Engineer of the operation of the Exchange.

- The return flows from the historical use of the Subject 3 CFS all returned to the Blue River below the confluence of Willow Creek and the Blue River. The amounts of such return flows are set forth on Table attached hereto. Nondiversion of the Subject 3 CFS will maintain these historical return flows during the irrigation season. The Division Engineer shall not allow diversion of such return flows from North Willow Creek or Willow Creek.

(9) Case No. 16CW3144 (Water Division 5) - Application of Vail Summit Resorts Inc.

The Board ratified this Statement of Opposition at its March 2017 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed change of water rights and plan for augmentation do not injure the Board's instream flow water rights on the Blue River by expansion of use or altering the time, place and amount of historical return flows. 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. This case is currently set for a two-day trial beginning on June 14, 2018. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water rights in Water Division 5 in the Blue River Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
86CW0204	Blue River	pond 5200' u/s Swan River	confl Swan River	10 (11/1 - 4/30) 20 (5/1 - 10/31)	03/14/1986
86CW0217	Blue River	confl Swan River	confl Dillon Reservoir	16 (11/1 - 4/30) 32 (5/1 - 10/31)	03/14/1986

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

- VSR acknowledges that on March 13, 1986, the Colorado Department of Natural Resources on behalf of the CWCB (the "State") and VSR's predecessor, Breckenridge Ski Area, a division of Aspen Ski Company, entered into a Memorandum of Agreement relating to Minimum Instream Flows and Mitigating Measures on the Blue River, Summit County, Colorado, as amended on October 25, 1988 ("the Breckenridge/State Agreement"). VSR and the State agree that the changes contemplated in this case will not modify or otherwise alter the terms of the Breckenridge/State Agreement, and that VSR and the State shall be subject to the terms and conditions thereof.

(10) Case No. 16CW3169 (Water Division 5) - Application of Powdr- Copper Mountain, LLC

The Board ratified this Statement of Opposition at its March 2017 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's

proposed change of water rights and plan of augmentation do not injure the Board's instream flow water rights on the Blue River, Tenmile Creek, and West Tenmile Creek by expansion of use or altering the time, place and amount of historical return flows. The proposed appropriative right of exchange should be defined clearly with a reference to intervening instream flow water rights that are senior to the proposed exchanges, so that the CWCB's instream flow water rights are not injured. 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. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water rights in Water Division 5 in the Blue River Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
86CW0209	Tenmile Creek	confl West Tenmile Creek	confl Dillon Res	7 (10/1 - 3/31) 10 (4/1 - 9/30)	03/14/1986
86CW0205	West Tenmile Creek	confl Union Gulch	confl Tenmile Creek	2 (10/1 - 3/31) 5 (4/1 - 9/30)	03/14/1986
87CW0293-299	Blue River	outlet Dillon Reservoir	confl Colorado River	Varies 50-125 (dates vary)	10/02/1987
05CW0264^	Blue River	confl Boulder Creek	inlet of Green Mtn. Reservoir	Varies 0.04-3.51 (dates vary) 0.31 (5/1 - 5/31) 3.15 (6/1 - 6/30) 3.51 (7/1 - 7/31) 2.63 (8/1 - 8/31) 0.87 (9/1 - 9/30) 0.31 (10/1 - 10/31)	05/23/1904 and 5/15/1915

^ 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:

- Except to the extent depletions at the Tenmile Creek Pipeline are replaced by releases from Clinton Gulch Reservoir, Powdr will not divert at the structures to be augmented under this Decree when the Colorado Water Conservation Board has placed a valid call for any of its instream flow rights on Tenmile Creek decreed in Case No. 86CW209, West Tenmile Creek decreed in Case No. 86CW205 and/or on the Blue River decreed in Cases No. 87CW293, 87CW294, 87CW295, 87CW296, 87CW297, 87CW298, and 87CW299, that is recognized and administered by the Division Engineer. Powdr may not exchange on the water rights acquired by the Colorado Water Conservation Board and changed in Case No. 05CW264 when such rights are used for instream flow uses in the Blue River.

- Powdr acknowledges its entry into a Memorandum of Agreement with the State of Colorado, Department of Natural Resources, regarding minimum instream flows and mitigation measures on Tenmile and West Tenmile Creeks, as signed on March 11, 1986, and amended on October 25, 1988.
- Per its prior commitments in Case No. 10CW115, Powdr will continue to assist the Colorado Water Conservation Board and the Colorado Division of Water Resources in maintenance of the Administrative Stream-flow Monitoring Station ("Station") located on Tenmile Creek just below its confluence with West Tenmile Creek. The Station may continue to be used to monitor the Colorado Water Conservation Board's instream flow water rights in Tenmile Creek.

(11) Case No. 16CW3177 (Water Division 5) - Application of Crawford Properties, LLC

The Board ratified this Statement of Opposition at its March 2017 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water right on the Roaring Fork River by expansion of use or altering the time, place and amount of historical return flows. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured. Staff and the Attorney General's Office will continue to monitor this case until it is closed by the court.

The CWCB holds the following instream flow water right in Water Division 5 in the Roaring Fork River Watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
85CW0639	Roaring Fork River	confl Fryingpan River	confl Crystal River	75 (10/1 - 3/31) 145 (4/1 - 9/30)	11/08/1985

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

- Surface return flows: Of the total 0.5938 c.f.s. associated with Applicant's RDC Shares, approximately 0.1818 c.f.s. (30.62%) historically accrued to Blue Creek. To replace historical surface water return flows, Applicant shall leave 30.62% of its diversions at the Robinson Ditch headgate associated with Applicant's RDC Shares in the Robinson Ditch laterals for delivery to Blue Creek, and shall not divert said water at the Crawford laterals.
- Groundwater return flows: Of the total 0.5938 c.f.s. associated with Applicant's RDC Shares, approximately 0.1818 c.f.s. (30.62%) historically accrued to the Roaring Fork River as groundwater return flows. To replace historical groundwater return flows, Applicant shall measure and bypass 30.62% of diversions at the Robinson Ditch headgate associated with Applicant's RDC Shares in accordance with the requirements of the Division Engineer's Office.

(12) Case No. 16CW3182 (Water Division 5) - Application of Eagle Springs Golf Club

The Board ratified this Statement of Opposition at its March 2017 meeting. The Board's main objective in filing the Statement of Opposition in this case was to ensure that the Applicant's proposed plan for augmentation and exchange does not injure the Board's instream flow water right on the Eagle River by expansion of use, not replacing depletions in the proper time, place, and amount, or altering the time, place and amount of historical return flows. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

The CWCB holds the following instream flow water right in Water Division 5 in the Eagle River Watershed that could be 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

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

- At times when the subject water rights are out-of-priority due to a valid call administered on the Eagle River, diversions for the augmented uses may continue as long as there is sufficient augmentation water available to Applicant under the Eagle River Supplies or the Koprivnikar Ponds No. 1 – 4 that can be delivered above the calling right to replace out-of-priority depletions augmented under this amended plan. All water made available from the Eagle River Supplies accrues to the Eagle River upstream of the points of diversion for the augmented structures described in [decree] paragraph 7.
- Eagle River Minimum Instream Flows: when the Division of Water Resources administers a call for the Colorado Water Conservation Board's (CWCB) minimum instream flows on the Eagle River from its confluence with:
 - o Lake Creek to its confluence with Brush Creek, decreed in Case No. 80CW126, diversions under the O'Neill & Holland Ditch Second Enlargement priority will be limited to replacement of evaporation from the Koprivnikar Ponds No. 1 – 4 and water used in the golf course toilets; all out-of-priority depletions from uses augmented under this plan, identified in paragraphs 9.a, 9.b, and 9.c above, must be replaced using the Eagle River Supplies delivered into the Eagle River above the point of diversion of the O'Neill & Holland Ditch headgate, pursuant to this amended plan for augmentation, or be curtailed; and all out-of-priority depletions from uses not augmented under this plan, and otherwise identified as decreed uses in paragraphs 7.a – 7.f, must be curtailed as necessary to prevent injury to this minimum instream flow.
 - o Brush Creek to its confluence with the Colorado River, decreed in Case No. 80CW124, all out-of-priority depletions from the augmented uses under this decree, identified in paragraphs 9.a, 9.b, and 9.c above, must either be replaced using the Eagle River Supplies or releases from the Koprivnikar Ponds No. 1 – 4 delivered to the Eagle River above its confluence with Brush Creek,

pursuant to this amended plan for augmentation, or be curtailed; and all out-of-priority depletions from uses not augmented under this plan, and otherwise identified as decreed uses in paragraphs 7.a – 7.f, must be curtailed as necessary to prevent injury to this minimum instream flow.

B. LETTERS IN LIEU OF FILING A STATEMENT OF OPPOSITION

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

(1) Case No. 17CW3185 (Water Division 1) - Application of Colorado Historical Society

During the November 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right decreed in Case No. 84CW0649 on Clear Creek. This case was resolved with CWCB by a letter agreement, dated January 30, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicant recognizes that the Colorado Water Conservation Board's existing instream flow water right decreed in Case No. 84CW649 on Clear Creek was decreed prior to the filing of this case, 2017CW3185.
- Applicant shall not operate any of the five exchanges and substitutions decreed herein when the instream flow water right on Clear Creek within the exchange reach is not met and is being administered.

(2) Case No. 17CW3211 (Water Division 1) - Application of Town of Castle Rock

During the December 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights. This case was resolved with CWCB by a letter agreement, dated February 28, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicant will not contract trade or exchange through an instream flow reach decreed as of February 28, 2018 without notice to CWCB. \

(3) Case No. 17CW3214 (Water Division 1) - Application of Center of Colorado Water Conservancy District

During the December 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right decreed in Case No. 84CW0639 on Hoosier Creek. This case was resolved with CWCB by a letter agreement, dated February

27, 2018, by which CWCB agreed not to file a statement of opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicant recognizes that the Colorado Water Conservation Board's existing instream flow water right on Hoosier Creek decreed in Case No. 84CW639, District Court, Water Division No. 1 was decreed prior to the filing of this case.
- Applicant recognizes that the conditional right of exchange claimed herein is junior to CWCB's previously decreed instream flow water right on Hoosier Creek decreed in Case No. 84CW639, District Court, Water Division 2. Accordingly, if this instream flow right is not met and Hoosier Creek is being administered for such instream flow right, Applicant will not operate the exchange on Hoosier Creek to the extent necessary to prevent injury to such instream flow right.

(4) Case No. 17CW3075 (Water Division 2) - Application of Cucharas Sanitation and Water District, Huerfano County Water Conservancy District, Town of La Veta

During the December 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 10CW0082 on Cucharas Creek, 11CW0073 on Dodgeton Creek, and 79CW0131 on White Creek. This case was resolved with CWCB by a letter agreement, dated February 28, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicants recognize that the CWCB's existing instream flow water rights on White Creek, Dodgeton Creek and Cucharas Creek decreed in Case Nos. 79CW131, 11CW73, and 10CW82, District Court, Water Division No. 2 were decreed prior to the appropriation date claimed in this matter.
- Applicants recognize that the rights of exchanges decreed herein therefore are junior to the CWCB's existing instream flow water rights on White Creek, Dodgeton Creek and Cucharas Creek decreed in Case Nos. 79CW131, 11CW73, and 10CW82, District Court, Water Division No. 2.
- Accordingly, if one of the foregoing instream flow rights is located within the exchange reach of a right of exchange decreed herein, and such instream flow right is not being met and the stream is being administered for such instream flow right, Applicants will not operate the right of exchange for that exchange reach to the extent necessary to prevent injury to such instream flow right.

(5) Case No. 17CW3074 (Water Division 4) - Application of John David Foley

During the December 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right decreed in Case No. 84CW0442 on Naturita Creek. This case was resolved with CWCB by a letter agreement, dated March 01, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant

agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- CWCB holds an instream flow water right on Naturita Creek between the original and alternate point of diversion.
- The alternate point of diversion is on Stinkhole Draw just upstream of its confluence with Naturita Creek.
- Diversion at the alternate point of diversion under this water right is limited to physical and legal availability at the original decreed location. Cumulative diversion under this water right at both points is limited to the original decreed amount.
- This change of water right allows only an alternate point of diversion. This decree does not provide a change in place of use, number of acres irrigated, type of use, or season of use of the water.
- Although the Application caption indicates this is a simple change, this case is not prosecuted under C.R.S. 37-92-305(3.5).

(6) Case No. 17CW0020 (Water Division 5) - Application of Paige Meredith & Margie Meredith

During the December 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right decreed in Case Nos. 75W2720 on the Crystal River. This case was resolved with CWCB by a letter agreement, dated February 26, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicants incorporate the following terms and conditions into any draft and final decrees.

- Applicants recognize that the Colorado Water Conservation Board's existing instream flow water right on the Crystal River decreed in Case No. W-2720 (75), District Court, Water Division No. 5 was decreed prior to the filing of this case. When such water right is being administered, Applicants will curtail its use under the junior water right.

(7) Case No. 17CW3229 (Water Division 5) - Application of JCH, LLC

During the November 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 76W2947 on Castle Creek, 76W2948 on the Roaring Fork River, and 85CW0646 on the Roaring Fork River. This case was resolved with CWCB by a letter agreement, dated January 25, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicant recognizes that the CWCB's existing instream flow water rights decreed in Case Nos. W-2947 (76), W-2958 (76), and 85CW646, on Castle Creek and the Roaring Fork River were decreed prior to the filing of this case, 2017CW3229. Applicant shall not operate the augmentation plan by exchange decreed herein if any of these instream flow water rights are not met and being administered within the exchange reach.

(8) Case No. 17CW3234 (Water Division 5) - Application of Red Mountain Estates, LLC and Red Mountain Estates Three, LLC and 101 American Way, LLC

During the November 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 75W2656, 79CW0190, 80CW0018, 80CW0061, and 80CW0062 on Hunter Creek. This case was resolved with CWCB by a letter agreement, dated January 26, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicants incorporate the following terms and conditions into any draft and final decrees and Applicants agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicants recognize that the Colorado Water Conservation Board's existing instream flow water rights decreed in Case No's 75W2656 and 79CW190 on Hunter Creek and 76CW2948, 85CW646, and 85CW639 on the Roaring Fork River were decreed prior to the filing of this case, 2017CW3234. When any of these instream flow water rights are not met and being administered downstream of the diversion points, Applicants shall not divert more than 0.49 acre-feet to replace Lilly Pond System evaporation depletions and 2.29 acre-feet to replace Rubey Lot 5 Pond evaporation depletions, as a combined amount as in-priority or out-of priority diversions under the augmentation plan by exchange decreed herein.
- The instream flow water rights for Case No's 75W2656 and 79CW190 on Hunter Creek and 76CW2948, 85CW646, and 85CW639 on the Roaring Fork River are subject to Applicants' junior water right for replacement of evaporation pursuant to section 37-92-102(3)(b), C.R.S. for 0.174 acres of pond surface area of Lily Pond System and 0.81 acres of pond surface area of Rubey Lot 5 Pond, which were in existence prior to the instream flow water rights appropriations. The instream flow water rights are only subject to uses that existed at the time of the instream flow water rights appropriations, which included in-reservoir uses, 0.5 acres of irrigation from Rubey Lot 5 Pond (such amount to be proven in the course of the 17CW3234 proceeding) and replacements for pond evaporation. The instream flow water rights are not subject to the conditional claims or any out of reservoir uses (except for the irrigation from Rubey Lot 5 Pond noted), including augmentation use, pursuant to section 37-92-102(3)(b), C.R.S. Section 37-92-102(3)(b), C.R.S. does not apply to CWCB's acquired water rights for instream flow use on Hunter Creek and the Roaring Fork River, therefore those instream flows are not subject to any of Applicants' junior claims. The recognition of Applicants' existing evaporation and irrigation depletions pursuant to section 37-92-102(3)(b), C.R.S will not interfere with the administration of CWCB's appropriated instream flow water rights in-priority as against other water rights, and will not constitute a general subordination of CWCB's ISF water rights to any other junior water rights.

(9) Case No. 17CW3235 (Water Division 5) - Application of LD Development Holdings, LLLP

During the November 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right decreed in Case No. 80CW0124 on the Eagle River. This case was resolved with CWCB by a letter agreement, dated January 25, 2018, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included.

- Applicant recognizes that the CWCB's existing instream flow water right decreed in Case No. 80CW124 on the Eagle River was decreed prior to the filing of this case, 2017CW3235. Applicant shall not operate the augmentation plan by exchange from Wolford Reservoir decreed herein when this instream flow water right is not met and being administered.

(10) Case No. 17CW3239 (Water Division 5) - Application of Ute Water Conservancy District, Acting By and Through the Ute Water Activity Enterprise

During the December 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. 92CW0286 on the Colorado River and 94CW0330 on the Colorado River. This case was resolved with CWCB by a letter agreement, dated November 29, 2017, by which CWCB agreed not to file a Statement of Opposition, provided Applicant incorporates the following terms and conditions into any draft and final decrees and Applicant agrees to not oppose a motion to intervene by CWCB if such terms and conditions are not included. The language was incorporated into the Application.

- The Colorado Water Conservation Board ("CWCB") holds an instream flow water right in the amount of 581 c.f.s. for the period from July 1 through September 30 of each year, adjudicated by decree entered on September 2, 1997, in Case No. 92CW286, District Court, Water Division 5 ("ISF Right"). The ISF Right includes a portion of the Colorado River between the Original POD for the Bridges Switch Right and the Alternate POD. In order to prevent injury to the ISF Right from the change requested in this Application, Applicant agrees that it will not divert water under the Bridges Switch Right at the Alternate POD during the period from July 1 through September 30 of each year when and to the extent that such diversion would cause the flows in the Colorado River between the Original POD and the upper terminus of the ISF Right (the "Affected ISF Reach") to be less than 581 c.f.s. For purposes of this limitation, flows in the Affected ISF Reach shall be measured at a location within the Affected ISF Reach designated by CWCB at which a gage or other measuring device approved by the Division Engineer is located. The current point of measurement for the ISF Right is located at the USGS Gaging Station No. 09106150, Colo River Below Grand Valley Div Nr Palisade, CO. Any new or replacement gage or measuring device for the measurement and administration of the ISF Right in the Affected ISF Reach shall be subject to the requirements of the Division Engineer, as set forth in the decree for the ISF Right. The provisions of this Paragraph 3.D. shall not modify, amend, supersede or otherwise affect any of the provisions of the decree for the ISF Right entered in Case No. 92CW286.

(11) Case No. 17CW0009 (Water Division 6) - Application of Mossman Ranch LLC

During the September 2017 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case No. 81CW0296 on Grizzly Creek. On November 14, 2017, an email was sent to Applicant and Division Engineer informing Applicant that she may qualify for an exemption under statute 37-92-102(3)(b), C.R.S. if confirmed by the Division Engineer.

Director's Report Attachment – March 21-22, 2018 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.

Case No.	Applicant	Stream/Case #	ISF Amount (CFS)/ Date	Injury (%)	Cumulative Injury (%)	Count
17CW3201	Camp St. Malo Religious Retreat & Conference Center, Inc.	Cabin Creek/ 79CW0199	2 (1/1 - 12/31)	0.04890 0.02450	0.04890 0.02450	1
17CW3201	Camp St. Malo Religious Retreat & Conference Center, Inc.	Cabin Creek/ 79CW0001	5 (1/1 - 12/31)	0.01960 0.00980	0.01960 0.00980	1
17CW3201	Camp St. Malo Religious Retreat & Conference Center, Inc.	North Saint Vrain Creek/ 78W9363	14 (1/1 - 12/31)	0.00700 0.00350	0.14986 0.14636	2
17CW3201	Camp St. Malo Religious Retreat & Conference Center, Inc.	North Saint Vrain Creek/ 87CW282	3 (1/1 - 3/31) 8 (4/1 - 4/30) 21 (5/1 - 7/31) 14 (8/1 - 8/31) 8 (9/1 - 10/14) 6 (10/15 - 10/24) 4 (10/25 - 10/31) 3 (11/1 - 12/31)	0.00470 0.00610	0.00470 0.00610	1
17CW3250	The Town of Gypsum	Colorado River/ 11CW0161	650 (9/16 - 5/14) 900 (5/15 - 6/15) 800 (6/16 - 9/15)	0.00260 0.00320	0.01192 0.00555	8



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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John Hickenlooper, Governor

Robert Randall, DNR Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

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

Board Meeting: March 21-22, 2018 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 0.70% 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

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Conservation Board**

Department of Natural Resources

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John Hickenlooper, Governor

Robert Randall, DNR Executive Director

Rebecca Mitchell, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Anna Mauss, P.E., Marketing
Finance Section

DATE: March 21-22, 2018 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					
Fire Mountain Canal & Reservoir Company	Fire Mountain Canal Phase II Salinity	1-Jan-18	Gunnison	The Company is applying for a Bureau of Rec. salinity control grant to replace a siphon and pipe approximately 4,000 feet of canal. The total project cost is estimated to be \$1.9M.	\$185,000
Webber Ditch Company	Webber Ditch Pipeline Project	1-Jan-18	Southwest	The Company is applying for a Bureau of Rec. salinity control grant to pipe approximately 26,000 feet of canal. The total project cost is estimated to be \$3.9M.	\$500,000
Total					\$685,000

The Finance Section also compiles a list of potential borrowers/projects for the Water Project Loan Program. This list represents borrowers that have contacted the CWCB about a potential need for funding but have not submitted a loan application and loan feasibility study.

South Platte River Basin

•Borrower	Project	Potential Loan Amount
•NISP Participants	NISP	\$100,000,000
•Central CO WCD	Pipeline Project	\$4,000,000
•Parker Water & Sanitation District	Water Meter Project	\$5,000,000
•Henrylyn Irrigation District	Reservoir Rehabilitation	\$6,000,000
•Bijou Irrigation District	Reservoir Rehabilitation	\$600,000
•Upper Platte & Beaver Irrigating Co.	Diversion Structure	\$7,000,000
•Woods Lake Mutual Ditch Co.	Culvert Replacement	\$150,000
•Town of Kersey	Raw Water Line	\$TBD
•Roxborough Metro District	Transmission Connection	\$1,000,000
•Julesburg Irrigation District	Diversion Structure	\$3,000,000
•Subtotal		\$126,750,000

Arkansas River Basin

•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
•Amity Mutual Irrigating Co.	Reservoir Rehabilitation	\$TBD
•Arkansas Groundwater Users Assoc.	Gravel Pit Purchase	\$3,000,000
•Subtotal		\$16,800,000

San Miguel/San Juan River Basin

•Town of Bayfield	Ditch Piping	\$500,000
•Redmesa Reservoir and Ditch Co.	Reservoir Enlargement	\$5,000,000
•Subtotal		\$5,500,000

Colorado River Basin

•Kendall Reservoir	Reservoir Rehabilitation	\$400,000
•Private Borrower	Reservoir Rehabilitation	\$250,000
•Town of Breckenridge	Goose Pasture Tarn Dam	\$18,000,000
•Orchard Mesa Irr. Dist.	Lateral Piping	\$300,000
•Missouri Heights Mountain Meadow	Ditch Piping	\$750,000
•Subtotal		\$19,700,000

Gunnison River Basin

•Gunnison County Electric	Hydroelectric Project	\$1,000,000
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Rio Grande Basin

•Manasa Land & Irrigation Co.	Ditch Rehabilitation	\$6,000,000
•Baca Grande Water and San District	Water Rights Purchase	\$1,000,000
•Sanchez Ditch and Reservoir Co.	Dam Rehabilitation	\$4,000,000
•Rio Grande WCD	Water Rights Purchase	\$5,000,000
•Trinchera Water Conservancy District	Water Rights	\$2,000,000
• Subtotal		\$18,000,000

Yampa River Basin

•Town of Oak Creek	Reservoir Rehabilitation	\$500,000
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North Platte Basin

- No projects at this time



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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John Hickenlooper, Governor

Robert Randall, 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: March 21-22, 2018 Board Meeting

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

The CWCB Loan Program has Substantially Completed eight (8) projects in Fiscal Year 2017-2018 as shown in Table 1. There are currently fifty two (52) projects authorized to receive loan funding totaling \$395 million. There are forty two (42) projects currently under contract and in the Design and Construction phase totaling \$231 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	West Reservoir & Ditch Company	Repair of West Reservoir No. 1 Outlet Works	Delta	\$313,018	7/1/2017 (a)
2	North Poudre Irrigation Co	Rehabilitation Livermore Irrigation Tunnel	Larimer	\$1,451,673	7/1/2017
3	Upper Arkansas Water Conservancy District	North Fork Reservoir Rehabilitation	Chaffee/Custer	\$902,642	10/1/2017 (b)
4	Thunderbird W&S Dist	Lambert Ranch Water Rights Purchase	Douglas	\$318,150	11/1/2017
5	Chilcott Ditch Company	Jimmy Camp Creek Siphon Reconstruction	El Paso	\$459,991	11/1/2017
6	Riverside Ditch and Allen Extension Company	Phased Canal Improvements	Chaffee	\$159,574	1/1/2018
7	Lookout Mountain Water District	Upper Beaver Brook Dam Spillway	Clear Creek	\$2,746,062	1/1/2018 (c)
8	Supply Irrigating Ditch Company	Emergency Supply Irrigating Ditch Repair Project	Boulder	\$324,210	3/1/2018
			Total	6,675,320	

Fiscal Year 2017-2018 has added or preserved 1807 acre-feet of reservoir storage (a) 455; (b) 1095; (c) 257





Repair of West Reservoir No. 1 Outlet Works

West Reservoir and Ditch Company
Substantially Complete July 1, 2017



Project Description

The West Reservoir and Ditch Company operates West Reservoir No. 1, providing water seven miles eastward via Wakefield Ditch to Wakefield Mesa. The water is available for livestock as it traverses east Oak Mesa, and irrigates approximately 600 acres of hay and pasture. The current landowners use the Oak Mesa Reservoir and Ditch water for spring irrigation, and, when those flows are exhausted, use the West Reservoir flows for mid-summer to fall irrigation. The West Reservoir was improved in the early 1950s, but came to be under a storage restriction order from the Office of the State Engineer due to deterioration of the outlet pipe. The reconstruction of the dam project included a low-level outlet sized to meet SEO release requirements, an outlet stilling basin structure downstream of the dam for energy dissipation, an intake structure for a manually-operated slide gate and trash racks, and new riprap armoring on the upstream face of the dam.

P R O J E C T D A T A		
<i>Sponsor:</i> West Reservoir and Ditch Company	<i>County:</i> Delta	<i>Water Source:</i> Jay Creek
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> November 2014
<i>Terms of Loan:</i> \$248,378.00 (Original) \$313,018.19 (Final) at 2.0% for 30 years		
<i>Design Engineer:</i> RJH Engineers		
<i>Contractor:</i> Rundle Construction		



Livermore Irrigation Tunnel Rehabilitation

North Poudre Irrigation Company
Substantially Complete July 1, 2017



Project Description

The North Poudre Irrigation Company service area encompasses approximately 300 square miles, including 160 square miles of service area under the North Poudre Canal (36 square miles of irrigated acreage), as well as additional service areas covering 14 communities and municipal water providers that own NPIC shares.

The Livermore Tunnel carries water diverted from the North Poudre Canal headgate, located on the north side of the North Fork Cache la Poudre River, for approximately 4, 900 feet before it is discharges into an earth-lined open canal and flows on toward the Buckeye Lateral, Park Creek Reservoir, and the Company's downstream delivery infrastructure. The Livermore Tunnel consists of two tunnels connected by a short section of open channel. The tunnels are approximately 8. 5 feet high and 8 feet wide with a concrete invert along the entire tunnel length. The tunnels are considered generally stable with the exception of six collapse zones where large piles of rock and debris had accumulated in the base of the tunnel, ponding up to three feet of water and restricting the overall flow capacity. Construction activities consisted of repairing those six collapse zones, and installing a concrete liner plate base, overhead and side liner plates, and filling in the voids between the wall and new liner plates.

P R O J E C T D A T E		
<i>Sponsor:</i> North Poudre Irrigation Company	<i>County:</i> Larimer	<i>Water Source:</i> Cache La Poudre
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> July 2016
<i>Loan Terms:</i> 2.25% for 30 years (<i>Original</i>) \$1,451,673 (<i>Final</i>) \$1,451,673		
<i>Design Engineer:</i> AECOM		
<i>Contractor:</i> Rock Solid Solutions		

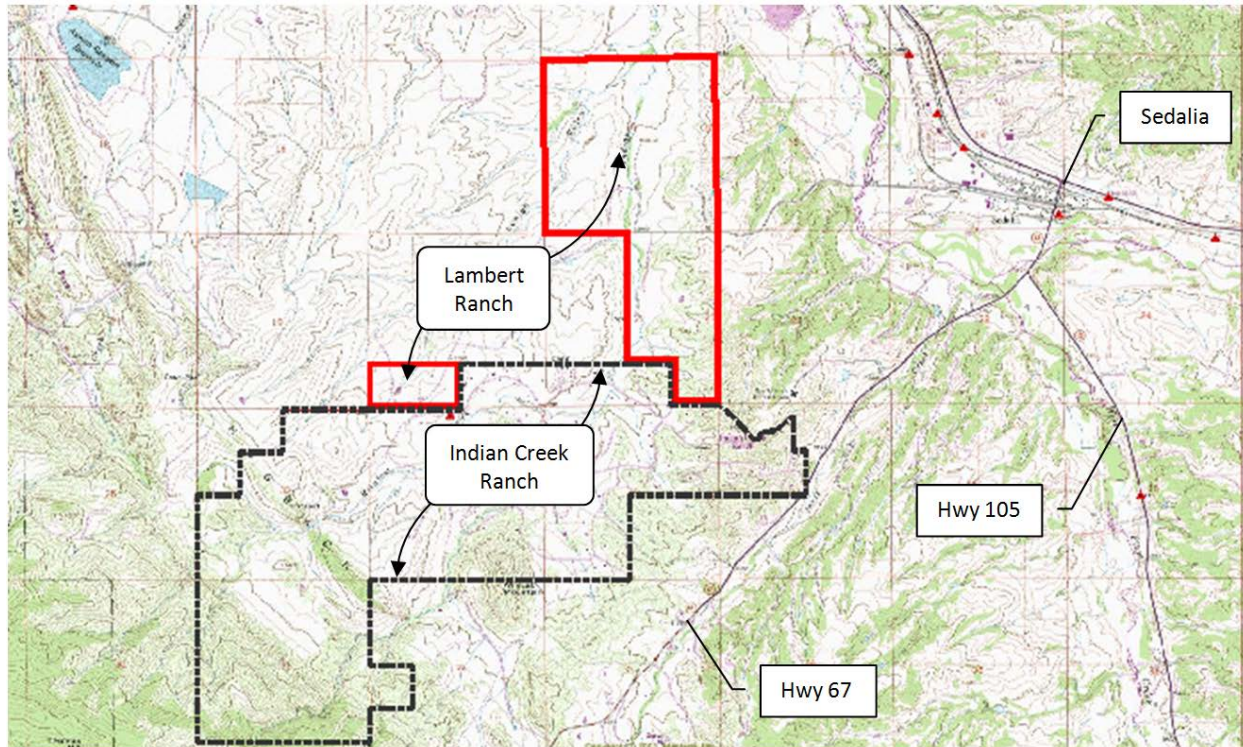


Project Description

The Upper Arkansas Water Conservancy District is located in Salida, Colorado, and serves to protect and develop water supplies in Chaffee, Western Fremont and Custer Counties. The District has operated the North Fork Reservoir since 1979 for domestic, municipal, industrial, recreational and augmentation purposes. The reservoir is located in the San Isabel National Forest near the headwaters of the North Fork of the South Arkansas River at elevation 11,400 feet. The project repaired the outlet pipe/gate structure and improved the access for construction. After repairs were complete, access to an additional 67 acre-feet of storage was made available.

The enlargement phase of the loan was planned to increase the Reservoir capacity from 500 acre-feet to 1095 acre-feet. This required an increase in the dam height by 15 feet. After several years of permitting efforts the District decided not to continue the enlargement effort under this loan authorization.

P R O J E C T D A T A		
<i>Sponsor:</i> Upper Arkansas Water Conservancy District	<i>County:</i> Chaffee	<i>Water Source:</i> North Fork of the South Arkansas River
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> November 2004
<i>Terms of Loan:</i> 3.0% for 30 years <i>(Original)</i> \$3,009,800 <i>(Final)</i> \$902,642.40		
<i>Design Engineer:</i> Colorado River Engineering		
<i>Contractor:</i> ASI Constructors, Inc.		



Project Description

The Thunderbird Water and Sanitation District (District) provides potable water service for the Indian Creek Ranch subdivision, consisting of 2,420 acres and 175 customers. On average, the District delivers approximately 55 AF annually. The District used loan funds to purchase Denver Basin decreed ground water rights with a total average annual acre-foot amount of 895.9 AF. This water right underlies the property known as Lambert Ranch. The easement acquisition for a well site is ongoing. The increase would enable the District to enlarge its available supply; thereby increasing system reliability, providing the redundancy necessary to allow for system maintenance and protect against aquifer depletions.

P R O J E C T D A T A		
<i>Sponsor:</i> Thunderbird Water and Sanitation District	<i>County:</i> Douglas	<i>Water Source:</i> Denver Basin Aquifer
<i>Type of Loan:</i> Water Rights Purchase		<i>Board Approval Date:</i> July 2011
<i>Terms of Loan:</i> 4.25% for 20 years (Original) \$318,150 (Final) \$318,150		
<i>Design Engineer:</i> Leonard Rice Engineers, Inc.		
<i>Contractor:</i> NA		



Jimmy Camp Creek Siphon Reconstruction

Chilcott Ditch Company

Substantially Complete November 1, 2017



Project Description

The Chilcott Ditch Company, located in El Paso County, operates 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 deliveries are made through the Company's eight mile ditch to service historically irrigated areas under the ditch, as well as to an augmentation station that measures direct flow water returning back to Fountain creek on behalf of shareholders. The original 42-inch diameter 1,300 foot long siphon conveyed ditch water flows under Jimmy Camp Creek to historically irrigated farmland to the south of the City of Fountain. During the 1940's the siphon was constructed from asphalt dipped corrugated steel pipe and served for nearly 76 years. In reviewing the siphon's age, maintenance history and number of failures, the Company rebuilt the siphon with new 42-inch PVC piping.

P R O J E C T D A T A		
<i>Sponsor:</i> The Chilcott Ditch Company	<i>County:</i> El Paso	<i>Water Source:</i> Fountain Creek
<i>Type of Loan:</i> Ditch Rehabilitation	<i>Board Approval Date:</i> January 2017	
<i>Terms of Loan: (Original)</i> \$580,750 at 2.20% for 20 years <i>(Final)</i> \$459,991.12 at 2.20% for 20 years		
<i>Design Engineer:</i> JPS Engineering		
<i>Contractor:</i> Backhoe Services, LLC		



Project Description

The Riverside Ditch and Allen Extension Company (Company), located near Buena Vista, owns and operates the Riverside Ditch that provides irrigation water to a 450 acre service area within Chaffee County. Through this loan the Company completed a number of phased improvements to the canal, including: repairs to the river diversion and lining of portions of the canal to reduce seepage.

P R O J E C T D A T A		
<i>Sponsor:</i> Riverside Ditch & Allen Extension Company	<i>County:</i> Chaffee	<i>Water Source:</i> Arkansas River
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> November 2009
<i>Terms of Loan:</i> 2.75% for 30 years <i>(Original)</i> \$186,345.00 <i>(Final)</i> \$159,574.01		
<i>Design Engineer:</i> NRCS and Tessara Water, LLC		
<i>Contractor:</i> Custom Linings, Inc. , Bugling Bulls, and K&S Inc.		



Upper Beaver Brook Dam Spillway

Lookout Mountain Water District
Substantially Complete January 1, 2018



Project Description

The Lookout Mountain Water District came to the CWCB for a loan to perform repairs and improvements to its Upper Beaver Brook Dam spillway in November of 2015, receiving approval for a loan of \$ 3,099,690 in support of anticipated construction costs of \$3,410, 000. The project included improvements to the existing rock-cut spillway with a new concrete labyrinth weir spillway, constructed to a level such that reservoir volume will increase by 134 acre-feet for a total storage of 391 acre-feet. Additional components included relocation of the access road due to the higher water level, installation of a new measurement flume, removal of trees in the inundation zone, replacement of the outlet works gate valve stem and staff gauge, and associated grading, monumentation, armoring, and record documentation.

These improvements will help the District provide a reliable supply of drinking water to current customers, with increased reliability for future demand and during times of drought.

P R O J E C T D A T A		
<i>Sponsor:</i> The Lookout Mountain Water District	<i>County:</i> Clear Creek	<i>Water Source:</i> South Fork Beaver Brook
<i>Type of Loan:</i> Reservoir Enlargement		<i>Board Approval Date:</i> November 2015
<i>Terms of Loan:</i> at 3.25% for 30 years (Original) \$3,099,690 (Final) \$2,746,062.16		
<i>Design Engineer:</i> GEI Consultants		
<i>Contractor:</i> SEMA Construction		



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 ditch system. Floodwaters destroyed the diversion dam, caused heavy sedimentation in the ditch, and damaged 750 LF of ditch. Temporary repairs were completed in order to allow the Company to divert a portion of its water rights during the 2014 irrigation season. This loan provided construction funds for the permanent repairs to the diversion dam. The historic at-grade concrete dam washed out by the flood was replaced with a grouted rock ramp structure that in addition to ensure the Company could divert its full water right, provided added benefits to fish and recreational users. The structure was designed to facilitate fish passage at a variety of flows, including a fish passage notch for low flow fish passage. The design also created hydraulic conditions across the grouted rock ramp and in the tail water pool allowing for recreational use. The Company worked with FEMA to fund a portion of the permanent repairs. Construction occurred from fall 2014 to spring 2015. The final FEMA Project Closeout meeting is pending.

P R O J E C T D A T A		
<i>Sponsor:</i> Supply Irrigating Ditch Repair Project	<i>County:</i> Boulder	<i>Water Source:</i> Saint Vrain Creek
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> November 2014
<i>Terms of Loan:</i> \$324,210 at 2.25% for 30 years		
<i>Design Engineer:</i> S ₂ O Design		
<i>Contractor:</i> Environmental Excavation, LLC		

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
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, lessening the amount of off-site mitigation in Phase 2. It is currently anticipated 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	
6	Centennial Irrigating Ditch Company >Centennial Diversion Replacement CT2108-1999	Rio Grande	\$232,300	100%	Jan 2018 - Mar 2018	60%	JH	This project is part of the Rio Grand Five Ditches WSRF Project and will consist of replacing the existing diversion dam with a new grouted rock diversion. Contractor mobilized to site in January 2018. Half the diversion dam and obermeyer gate in low flow channel is complete. Other half of dam to be completed by end of March 2018.
7	Church Ditch Water Authority >Ditch System Improvements CT2018-1335	Jefferson	\$3,615,000	75%	Dec 2017 - Spring 2019	0%	RP	Loan covers 5 individual projects within the Church Ditch system. The Leyden Flushing Structure awarded DEC2017 and Headgate 53 Retaining Wall projects will be awarded JAN2018. The Area 15 Ditch Lining, Ford Street Siphon, and Legacy Farms Culvert will be completed after the 2018 irrigation season.
8	Colorado Parks and Wildlife >Chatfield Reallocation Project CT2018-2851	Douglas	\$1,796,120	99%	Sept 2017 - Summer 2020	20%	JH	This loan is to cover CPW's portion of the increased cost for the Chatfield Reallocation Project. Funds will be transferred as a one time disbursement for
9	Consolidated Ditch >Consolidated Diversion and Headgate Replacement CT2018-1017	Rio Grande	\$1,010,000	100%	Jan 2018 - Mar 2019	40%	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 and will have new headgates and trash rack structures complete by end of March 2018. Dam scheduled for construction Fall 2018 thru Spring 2019.
10	Corsentino Dairy Farms, Inc. >Holita Dam Rehabilitation CT2018-980	Walsenburg	\$85,446	100%	Jan 2018 - April 2018	5%	AM	Loan contract was executed at the end of August. Contractor mobilized late January 2018. Loan increase needed.
11	Dixon Canon Ditch & Reservoir Company >Dixon Reservoir Dam Improvements CT2017-914	Larimer	\$278,100	100%	Jan 2018 - Mar 2018	60%	JH	Bids were opened December 2016. Company work with low bidder Zak dirt to reduce bid by splitting work into 2 phases: 1st phase will include only the dam safety issues such as the seepage collection system. The 2nd phase to be done at a later time will include the dam outlet pipe improvements. Contractor mobilized to begin construction in January 2018.
12	Duke Ditch Company >Piping the Duke Ditch CT2017-915 CTGG1 2017-212	Delta	\$90,000	90%	Fall 2018 - Spring 2019	0%	AM	NRCS began design work in August 2017. Construction will begin in fall 2018. Loan increase may be needed.
13	Fort Lyon Canal Company >Adobe Creek Dam Rehabilitation CT2018-1960 CTGG1 2018-806	Bent	\$8,181,000	30%	Fall 2017 - Spring 2018	0%	RP	NRCS began design work in August 2017. The Company hopes construction can begin in early 2018.

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
14	Fowler, Town of >Augmentation Pipeline Project C150359 (CT2015-054)	Otero	\$277,245	100%	Fall 2018 - Spring 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. Will have project update April 2018.
15	Georgetown, Town of >Outlet Works Modification Project C150321 (CT2015-055)	Clear Creek	\$2,976,975	100%	Aug 2014 - July 2017	99%	AM	Construction is complete. Substantial completion of loan is scheduled for April 1, 2018.
16	Grand Mesa Water Conservancy District >Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	\$227,250	100%	Mar 2013 - Sept 2018	50%	AM	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. Construction is expected to begin in summer of 2018.
17	Grand Valley Water Users Association >Government Highline Canal Lining CT2017-2258 CTGG1 2017-770	Mesa	\$151,500	100%	Nov 2017 - March 2018	75%	AM	Construction on the canal began in Nov 2017. All cut and fill earthwork is complete as of Feb 2018.
18	Grand Valley Water Users Association >Grand Valley Power Plant Rehabilitation CT2017-2875 - SCTF	Mesa	\$1,717,000	100%	Spring 2018 - Spring 2019	0%	JH	Project is on hold as all Dept of Interior agreements must go through a review by the Secretary of Interior. It is anticipated construction may be able to start Spring 2018 but it dependent on the Dept of Interior review.
19	Huerfano County Water Conservancy District >Regional Augmentation Project C150364 (CT2015-047) CTGG1 2015-528	Huerfano	\$2,222,000	100%	Jan 2014 - Mar 2019	60%	RP	Land and water rights purchase occurred in January 2014. Camp Ranch augmentation site construction is complete. Phase I of III at Sheep Mountain Ranch augmentation site was completed in Oct 2017.
20	Lake Durango Water Authority >Source Water Supply Project C150317 (CT2015-013) CTGG1 2015-370	LaPlata	\$2,525,000	100%	Oct 2016 - Feb 2018	95%	KR	Pump House at outlet tower (Reservoir) complete. All pipelines have been installed. Final testing is scheduled for mid March and project substantial completion is expected mid summer..
21	Lake McIntosh Reservoir Company >Lake McIntosh Outlet Works Repair CT2016-2794	Boulder	\$1,727,100	100%	Jan 2017 - Mar 2018	95%	JH	Phase 1 construction includes pipeline from ditch crossing to downstream manhole; was completed in April 2017. Phase 2 includes piping under roadway and Platte Rive Power Authority substation. Phase 2 began in November 2017 and contractor is working thru final punchlist items.
22	Lamar, City of >Repurposing of Wells 12 and 13 CT2017-917 CTGG1 2017-211	Prowers	\$101,000	100%	Jun 2017 - Sept 2018	5%	RP	Precon mtg held 5/23/17. City staff is doing construction. Work has been postponed due to staffing/workload issues. Staffing changes, they will call us April 2018 with update and plan forward.
23	Larimer & Weld Irrigation Company >Headgate Structure Replacement CT2017-2253	Larimer & Weld	\$681,750	100%	Nov 2017 - Apr 2018	75%	JH	Bids received in September 2016 exceeded budget and the Company elected not to award the project at that time. Project was rebid in March 2017 and awarded to Moltz. Constructin began in November 2017 and is scheduled to be complete by 2018 irrigation season.
24	Left Hand Water District > Participation in Southern Water Supply Project II CT2018-2028	Broomfield & Weld	\$10,000,000	70%	Summer 2018 - Summer 2019	0%	JH	Final design is underway with construction planned to occur from Summer 2018 through Summer 2019. Project is managed by Northern Water with Left Hand Water District paying for its prorata share based on pipeline capacity.

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
25	Lupton Bottom Ditch Company >Diversion Structure Repair CT2018-2829	Weld	\$606,000	100%	April 2018	50%	RP	Northern portion diversion structure near completion, next step, southern portion. Anticipation completion before 2018 irrigation season.
26	Monte Vista, City of >Augmentation Water Rights Acquisition C150309 (CT2015-011)	Rio Grande	\$1,693,770	N/A	N/A	50%	AM	The City purchased Anderson Ditch rights and will file a water court application to enable the use of those rights to replace depletions. Contracted with the San Luis Valley Irr. Dist. for storage space in the Rio Grande Res. City continues negotiations to purchase additional water.
27	North Poudre Irrigation Company >Mountain Supply Reservoir No. 10 Repairs CT2017-3641	Larimer	\$802,950	100%	Nov 2017 - Mar 2018	95%	JH	Final design complete and SEO has approved for construction. Construction began in November 2017. Major elements are completed and contractor is working thru a punchlist. Company was approved for a loan increase at the November 2017 board meeting.
28	North Poudre Irrigation Company >Fossil Creek Res. Diversion Structure Repair C150368 (CT2015-024)	Larimer	\$876,680	100%	Nov 2015 - March 2016	99%	JH	The was an emergency loan due to the September 2013 flood. Construction began in November 2015 and was completed in March 2016. FEMA funding is pending. Per terms of the emergency loan contract, the loan will be closed out, and interest will begin accruing, on November 1, 2018.
29	Orchard Mesa Irrigation District >Grand Valley Power Plant Rehabilitation CT2017-2878 - SCTF	Mesa	\$1,717,000	100%	Spring 2018 - Spring 2019	0%	JH	Project is on hold as all Dept of Interior agreements must go through a review by the Secretary of Interior. It is anticipated construction may be able to start Spring 2018 but it dependent on the Dept of Interior review.
30	Orchard Ranch Ditch Company >Orchard Ranch Ditch Pipe Project CT2016-2795 POGG1 2017-493	Delta	\$151,500	75%	Fall 2018 - Mid 2019	0%	RP	Design and permitting work is underway. Construction is expected to begin in Fall 2018.
31	Overland Ditch and Reservoir Company >Overland Reservoir Rehabilitation C150206 (CT2015-034)	Delta	\$1,141,300	50%	No Est Permitting	0%	KR	Permitting issues are being addressed to enlarge reservoir. Company is concerned about the impact of increased costs to the project. Meeting scheduled to review current loan and project advancement.
32	Riverside Reservoir and Land Company >Riverside Reservoir Spillway Enlargement C150291 (CT2015-026)	Weld	\$2,838,100	90%	Fall 2018 - Fall 2018	0%	RP	Plans SEO approved, preparing bid package. Construction timing non-irrigation season. Contract extension approved through 12/31/2018. Preparing bid package as of 3/1/2018.
33	Sanchez Ditch and Reservoir Company >Sanchez Reservoir Outlet Rehabilitation Project C150342 (CT2015-012)	Costilla	\$1,502,476	100%	Oct 2014 - March 2018	99%	AM	Construction began in Oct 2014. Outlet works work was completed in Jan 2015. Seepage and monitoring work is currently ongoing.
34	St. Vrain & Left Hand Water Conservation District >Lake No. 4 Outlet Pipeline Repair CT2017-3213	Boulder	\$619,130	95%	Fall 2018 - Spring 2019	0%	JH	Project is being done in partnership with 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 and plans to bid all projects under one contract in Summer 2018 for a construction start of fall 2018.
35	St. Vrain & Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair CT2016-2452	Boulder	\$4,545,000	95%	Fall 2018 - Spring 2019	0%	JH	Project is being done in partnership with Lake 4 Outlet Pipeline Repair, as well as repairs to Boulder County's West Lake and A-Frame Lake. County is lead agency for all projects and plans to bid all projects under one contract in Summer 2018 for a construction start of fall 2018.

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
36	Southeastern CO Water Conserv. District >Pueblo Dam Hydroelectric Project CT2018-833	Pueblo	\$16,725,600	100%	June 2017 - Fall 2018	20%	RP	Construction beginning fall 2017. District anticipates power production by fall of 2018.
37	Town of Firestone >Storage Development and Water Rights Purchase CT2017-2880	Weld	\$10,000,000	50%	May 2018 - Mar 2019	0%	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 at filling reservoir via wells/pipelines instead of diversion off river. Change case application to be filed 2nd half of 2017 for reservoir water rights.
38	Tunnel Water Company >Laramie-Poudre Tunnel Rehabilitation CT2016-2001	Larimer	\$1,111,000	100%	Sept 2015 - Spring 2019	50%	JH	Phase 1 (Inlet) complete in 2016. Phase 2 (outlet) construction is delayed due to site inaccessibility for concrete trucks. Currently permitting with Forest Service to reroute access road. Company seeking loan increase at March 2018 meeting.
39	Wiggins, Town of >Wiggins Recharge Facility at Glassey Farms CT2017-3609	Morgan	\$2,408,850	70%	Fall 2018 - Spring 2019	0%	JH	Town purchasd Galssey Farms. Final design of the project began in December 2017 and is underway. Construction is still planned for Fall 2018.
40-WISE Project - Phase 1 Infrastructure								\$16,802,501
a	Cottonwood W&S Dist - C150408B (CT2015-106)	Douglas/ Arapahoe	\$2,636,100	100%	Spring 2015 - Jan 2018	80%	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 March 2018.
b	Inverness W&S Dist - C150409B (CT2015-118)	Douglas/ Arapahoe	\$1,181,700	100%	Spring 2015 - Jan 2018	40%	RP	
c	Parker W&S Dist - C150410B (CT2015-108)	Douglas/ Arapahoe	\$6,785,321	90%	Spring 2015 - Jan 2018	60%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-085)	Douglas/ Arapahoe	\$6,199,380	90%	Spring 2015 - Jan 2018	60%	RP	
41- WISE Project - Phase 2 Infrastructure								\$7,400,078
a	Cottonwood W&S Dist - C150408C (CT2015-105)	Douglas/ Arapahoe	\$1,127,160	0%	Spring 2018 - Fall 2021	0%	RP	
b	Inverness W&S Dist - C150409C (CT2015-119)	Douglas/ Arapahoe	\$1,427,130	0%	Spring 2018 - Fall 2021	0%	RP	
c	Parker W&S Dist - C150410C (CT2015-109)	Douglas/ Arapahoe	\$3,418,658	0%	Spring 2018 - Fall 2021	0%	RP	

Contract Borrower		County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
d	Pinery (Den SE WSD)C150411B (CT2015-086)	Douglas/ Arapahoe	\$1,427,130	0%	Spring 2018 - Fall 2021	0%	RP	
42- WISE Project - DIA Connection								
a	Cottonwood W&S Dist - C150408D (CT2015-104)	Douglas/ Arapahoe	\$363,600	35%	N/A	35%	RP	Annual disbursement 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	35%	N/A	35%	RP	
c	Parker W&S Dist - C150410D (CT2015-110)	Douglas/ Arapahoe	\$1,099,890	46%	N/A	46%	RP	
d	Pinery (Den SE WSD)C150411B (CT2015-087)	Douglas/ Arapahoe	\$454,500	46%	N/A	46%	RP	
	Projects Under Contract		\$231,772,528	100%				
Approved Projects - Not Under Contract								
a	Florida Consolidated Ditch Company >Hess Lateral Improvement CT2018-83	La Plata	\$1,085,750	In Contracting			AM	
b	San Juan Water Conservancy District >Dry Gultch Reservior Land Acquisition CT2018-839	Archuleta	\$2,000,000	In Contracting			JH	Board approval is conditioned on voters approving debt. Debt approval failed at November 2017 election. Board regathering to determine how/when to move the project forward.
c	Southeastern CO Water Conserv. District > Arkansas Valley Conduit C150238	Crowley	\$40,000,000	In Contracting			KR	Pending Federal Appropriation. Southeastern's Pueblo Dam Hydro project was taken out of these loan funds.
d	City of Walsenburg > City Lake Dam Rehabilitation & Enlargement CT2018-837 Grant in Contracting	Huerfano	\$6,889,210	In Contracting			AM RP	Waiting for IGA from City

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Proj. Status	PM	Status Description/Update
e	Bonus Ditch Company > St. Vrain Diversion Replacement CT2018-2081	Longmont & Boulder	\$1,309,970		In Contracting		JH	
f	Fruitland Irrigation Company > Tunnel and Canal Renvation CT2018-2125 CTGG1 2018-921	Delta & Montrose	\$1,746,000		In Contracting		RP	
g	Pueblo Consevancy District > Arkansas River and Wildhorse Creek Levees	Pueblo	\$17,170,000		In Contracting		RP	
h	Municipal Subdistrict > Windy Gap Project CT2018-2382	Larimer	\$90,000,000		In Contracting		JH	i
i	Central Colorado Water Conservancy District >Shores Lakes Pond C Infrastructure Improvement CT2018-2851	Weld	\$2,367,440		In Contracting		JH	
j	Bessemer Irrigation Ditch Company >Landslide Stabilization and Dirtch Lining CT2018-2829	Pueblo	\$909,000		In Contracting		RP	
	Not Under Contract SubTotal =		\$163,477,370					
	Grand Total =		\$395,249,898					

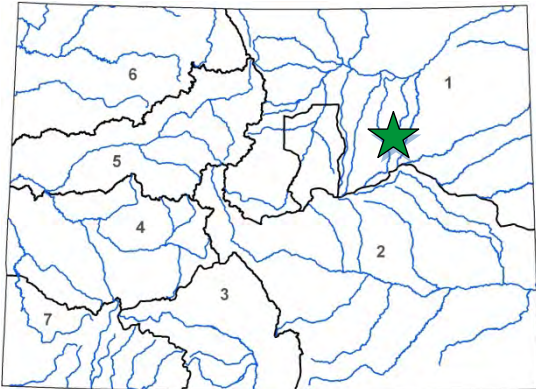


Wells #3 and #6 Replacement Project

Town of Bennett

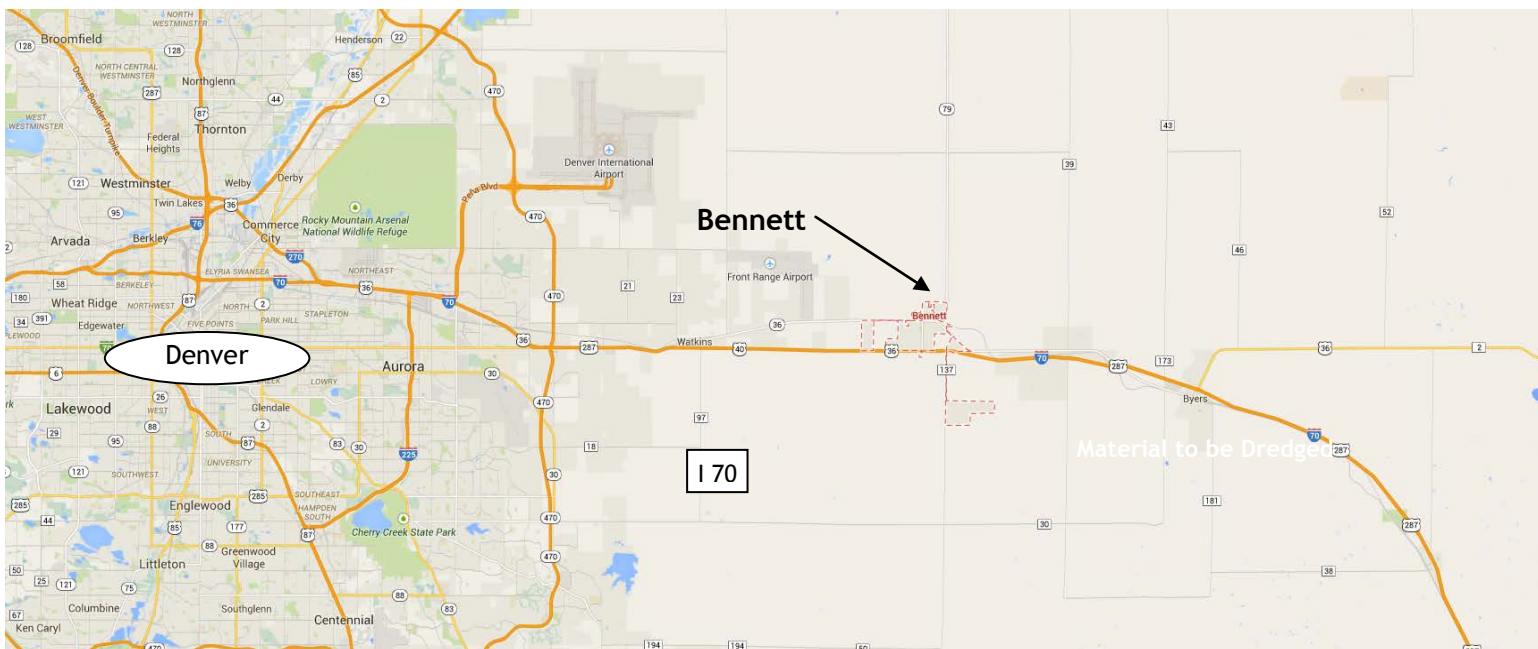
November 2014 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$1,600,000
CWCB Loan (with Service Fee):	\$1,454,400
Loan Term and Interest Rate:	30 Years @ 3.25%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 100% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Well Drilling
Average Annual Delivery:	261 AF



The Town of Bennett provides water to its 2,500 residents from the Denver, Upper Arapahoe and Lower Arapahoe, and Laramie-Fox Hills aquifers. A recent study revealed the need to address operational reliability, efficiency, and safety of the Town of Bennett's well #3 and well #6. The Town currently has 11 wells. The replacement of wells #3 and #6 will provide the Town with additional supply to meet demands and needed redundancy in its water supply system. Both wells need to be replaced due to the age of the existing wells. Construction is expected to occur during the spring of 2015.

L O C A T I O N	
County:	Adams & Arapahoe
Water Source:	Non-Tributary Groundwater
Drainage Basin:	South Platte
Division:	1
District:	1



**CWCB Water Project Loan Program
Project Data Sheet**

C150391

Borrower: Big Elk Meadows Association

County: Boulder/Larimer

Project Name: Emergency Raw Water Storage
Repair Project

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: South Platte / 4

Water Source: West Fork of the Little
Thompson River

Total Project Cost: \$1,900,000

Funding Source: Severance Tax PBF

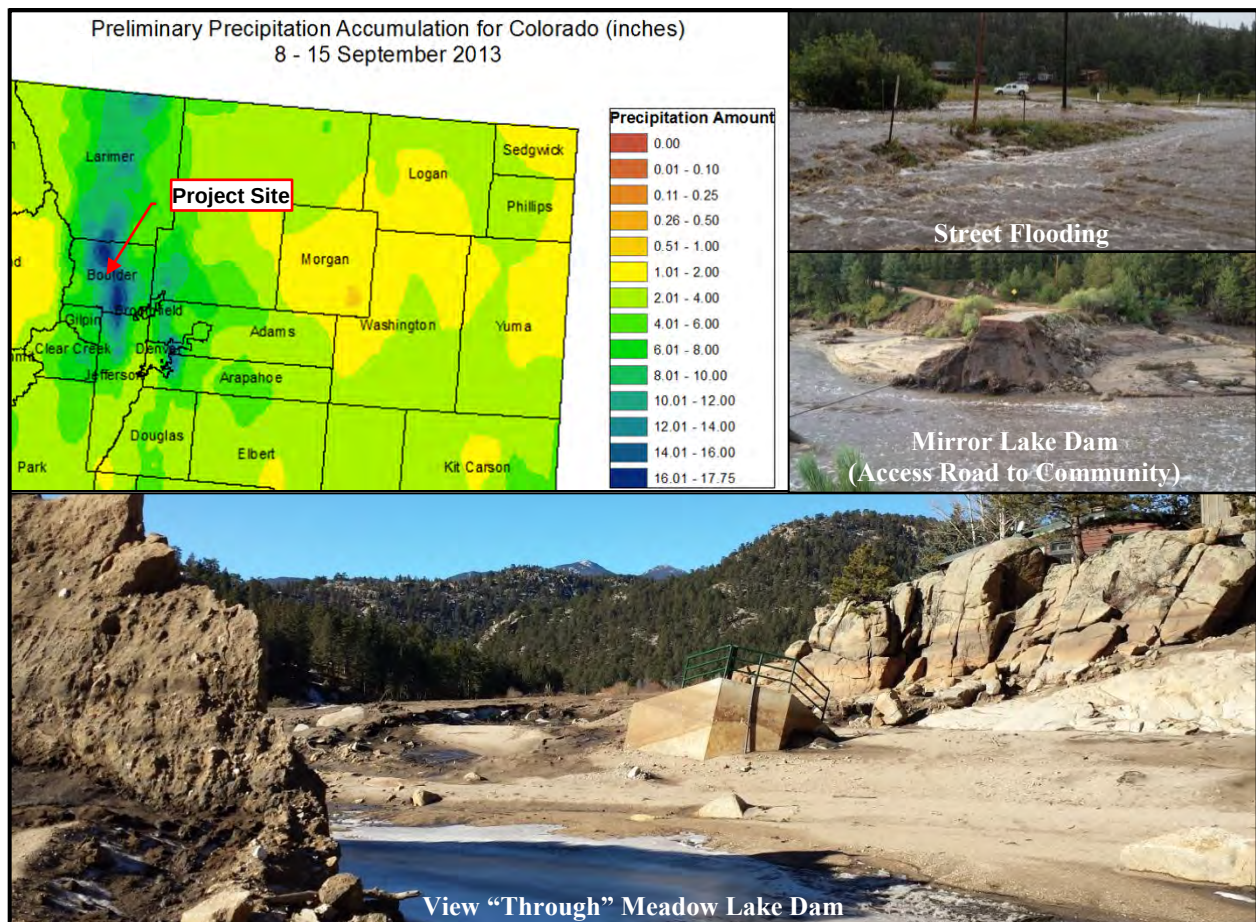
Type of Borrower: Middle-Income Municipal

Water Storage: 108 AF

CWCB Loan: \$1,515,000
(with 1% service fee)

Interest Rate: 2.75% **Term:** 30-years

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.



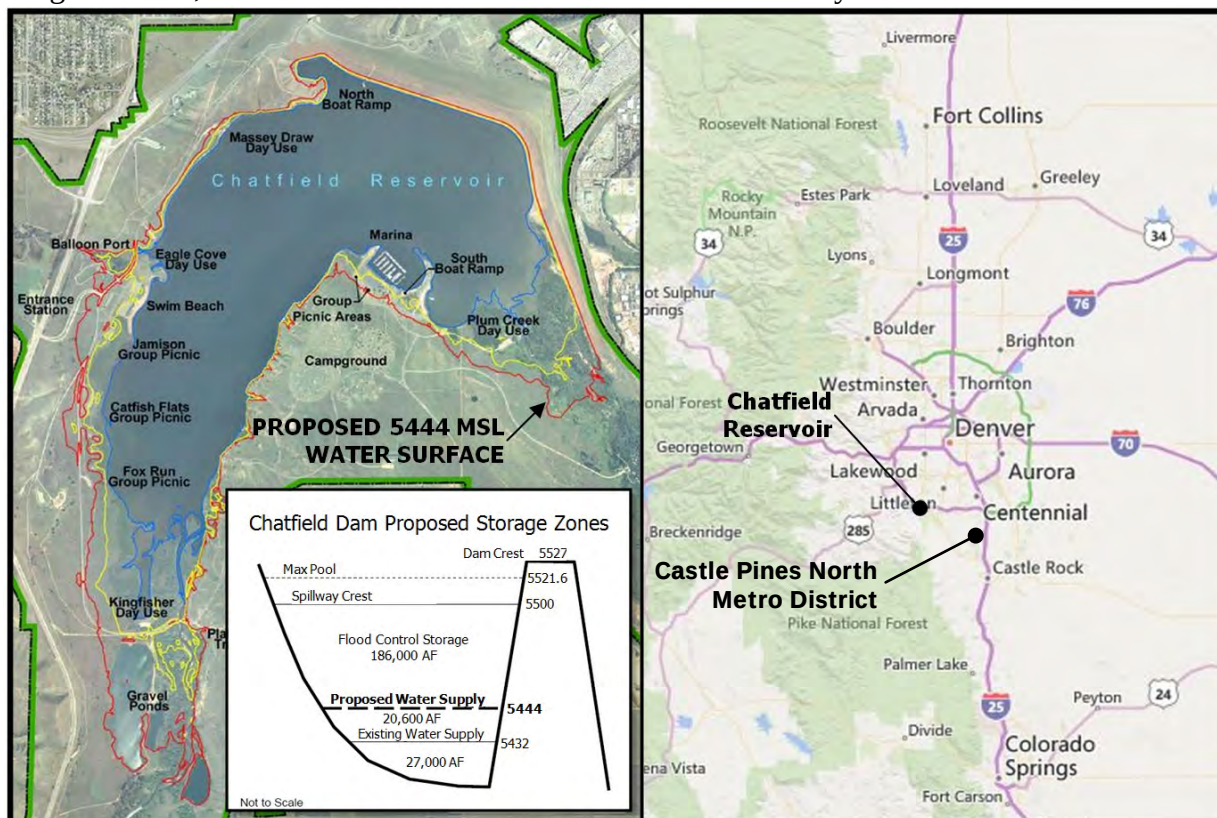
CWCW Water Project Loan Program
Project Data Sheet

C150404

Borrower: Castle Pines North
Metropolitan District**County:** Douglas**Project Name:** Chatfield Reallocation Project**Project Type:** Reservoir Storage**Drainage Basin:** South Platte**Water Source:** South Platte River
Plum Creek**Total Project Cost:** \$7,100,000**Funding Source:** Severance Tax Perpetual
Base Fund**Type of Borrower:** High-income Municipal**Average Annual Delivery:** 1,300 AF**Added Water Supply Storage:** 1005.8 AF**CWCW Loan:** \$6,453,900 (with 1% service fee)**Interest Rate:** 3.0% **Term:** 30-years

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 1005.8 acre-feet 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 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.



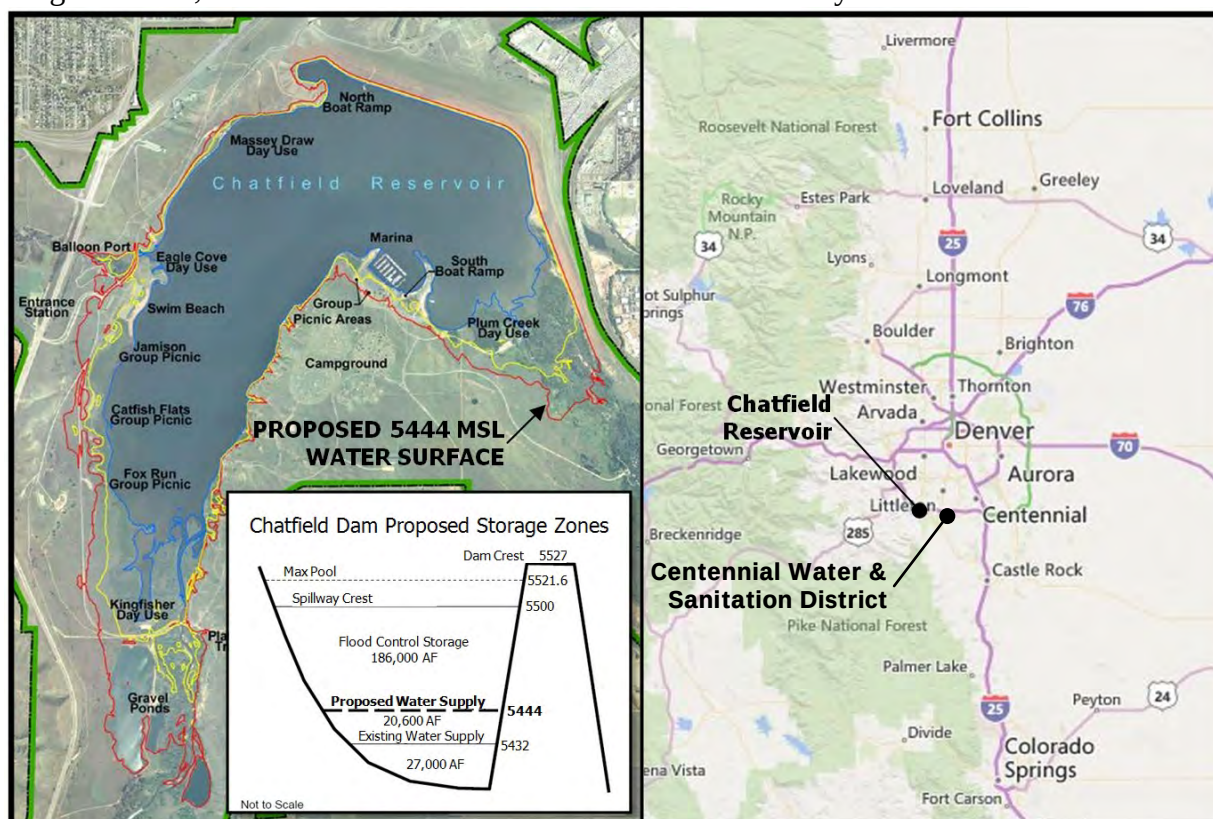
CWCW Water Project Loan Program
Project Data Sheet

C150405

Borrower: Centennial Water & Sanitation District **County:** Douglas**Project Name:** Chatfield Reallocation Project**Project Type:** Reservoir Storage**Drainage Basin:** South Platte**Water Source:** South Platte River
Plum Creek**Total Project Cost:** \$48,888,000**Funding Source:** Severance Tax Perpetual
Base Fund**Type of Borrower:** High-income Municipal**Average Annual Delivery:** 17,500 AF**Added Water Supply Storage:** 6,922.1 AF**CWCW Loan:** \$44,440,000 (with 1% service fee) **Interest Rate:** 3.0% **Term:** 30-years

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 6,922.1 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 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.



**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

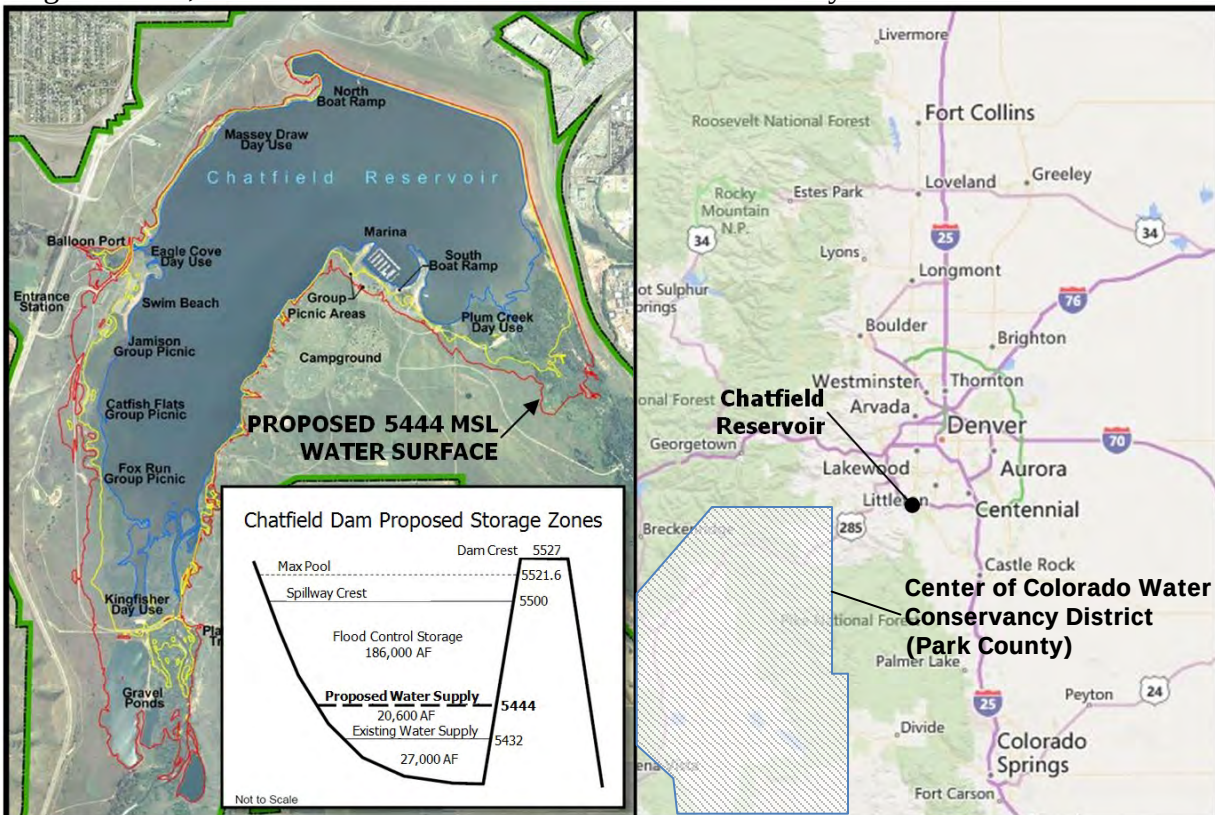
Average Annual Diversion: 700 AF

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.



**CWCB Water Project Loan Program
Project Data Sheet**

C150407

Borrower: Central Colorado Water
Conservancy District

County: Adams, Weld

Project Name: Chatfield Reallocation Project

Project Type: Reservoir Storage

Drainage Basin: South Platte

Water Source: South Platte River
Plum Creek

Total Project Cost: \$28,170,000

Funding Source: Severance Tax Perpetual
Base Fund

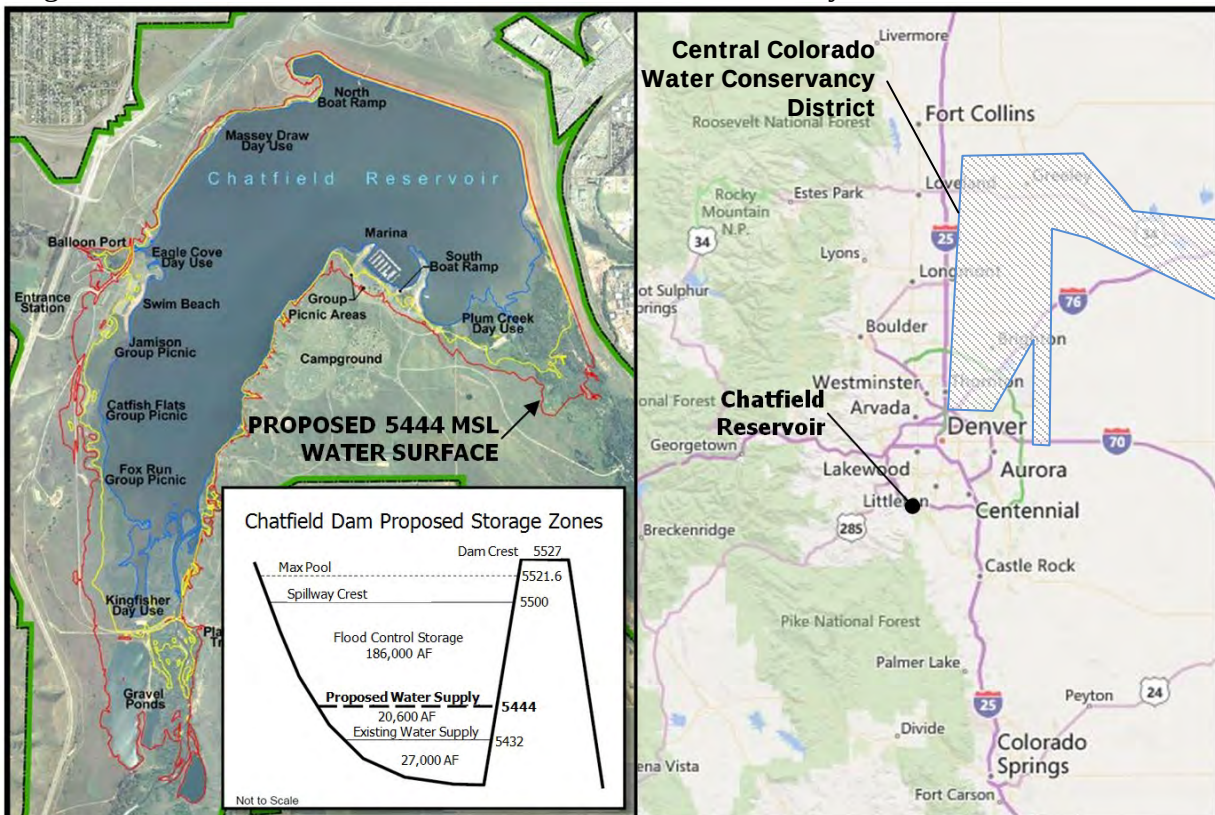
Type of Borrower: Agricultural

Average Annual Delivery: 24,600 AF
Added Water Supply Storage: 4,274 AF

CWCB Loan: \$28,451,700 (with 1% service fee) **Interest Rate:** 1.75% **Term:** 30-years

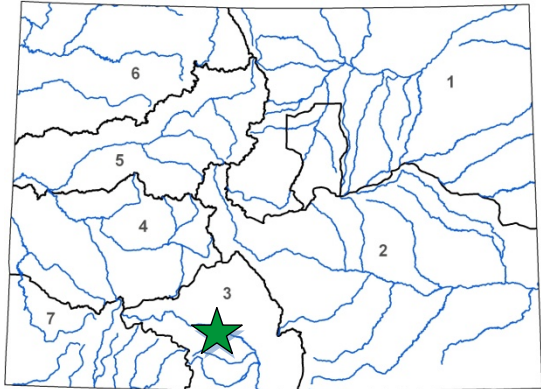
The Central Colorado Water Conservancy District is located in the South Platte River basin between Denver and Fort Morgan including Beebe Draw, and the lower portions of the Box Elder Creek and Lost Creek drainages. Approximately 210,000 acres of irrigated agricultural lands are served by the District. 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 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.





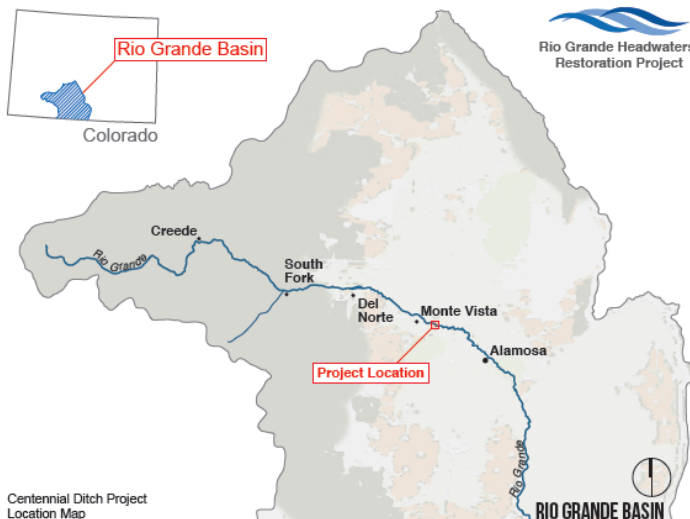
L O A N D E T A I L S	
Project Cost:	\$512,000
CWCB Loan (with Service Fee):	\$232,300
Loan Term and Interest Rate:	20 Years @ 1.50%
Funding Source:	Severance Tax PBF and WSRF Grant
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
100%	0% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	21,700 AF



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

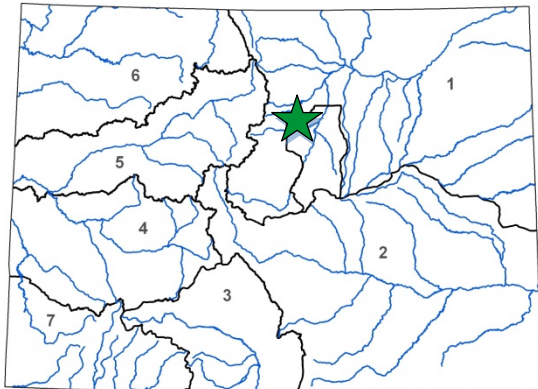
The Company's diversion and headgate structures are located four miles east of Monte Vista on the Rio Grande. 8,500 acres are irrigated under the system. The diversion was highlighted as a river rehabilitation priority in a 2001 study titled "Rio Grande Headwater Restoration Project." That study analyzed 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.





L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 33% Mid - 67% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	10,500 AF



L O C A T I O N	
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.

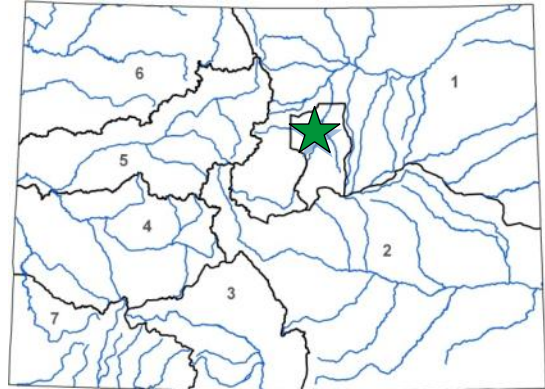
All projects will be constructed during the non-irrigation season and are planned to be complete by spring of 2019.





(Loan Increase)

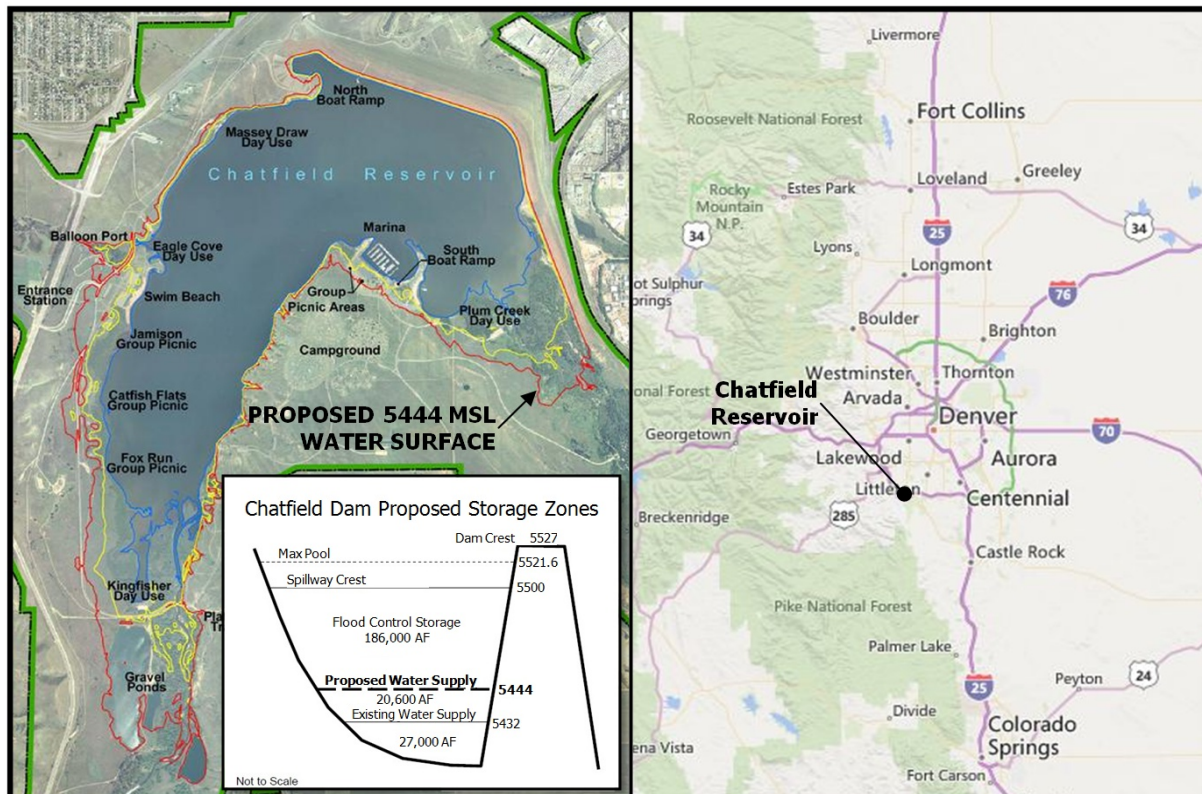
L O A N D E T A I L S	
Project Cost:	\$8,000,970
CWCB Loan:	\$8,000,970
Loan Term and Interest Rate:	30 years @ 0%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
State Government - DNR Agency	
P R O J E C T D E T A I L S	
Project Type:	Reservoir Storage
New Storage:	1,000 AF



L O C A T I O N	
County:	Douglas
Water Source:	S. Platte River & Plum Creek
Drainage Basin:	South Platte
Division:	1
District:	2

Colorado Parks and Wildlife (CPW) is working cooperatively with CWCB to arrange for financing related to the Chatfield Reallocation Project. CPW purchased 1,000 AF of Project storage space CWCB was holding within a larger "orphan share" pool.

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. CPW and CWCB signed an Interagency Agreement (IAA) in 2015 for a loan amount of \$6,504,850 based on the October 2015 estimated Project cost. This increase will be executed through a new IAA in the amount of \$1,796,120.



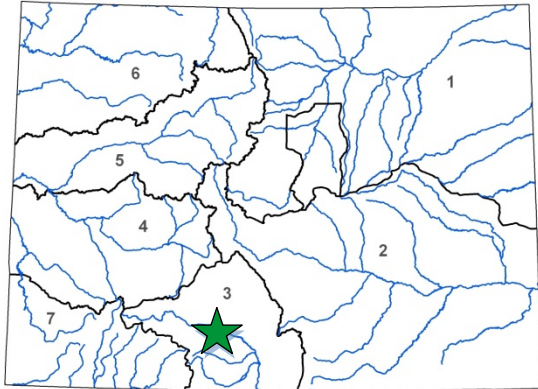


Consolidated Diversion and Headgate Replacement

Consolidated Ditch and Headgate Company

July 2017 Board Meeting

L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
100%	0% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	33,500 AF



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

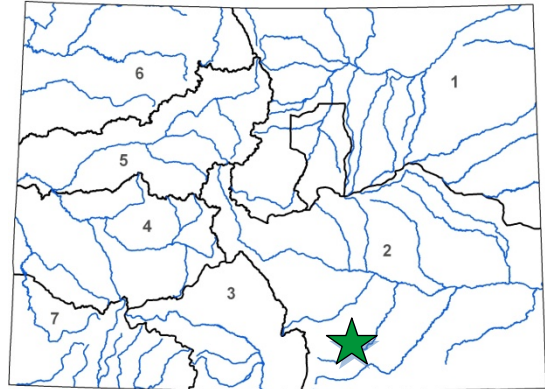
The Company is a Mutual Ditch Company formed in 1910. Its diversion and headgate structures are located five miles northwest of Monte Vista on the Rio Grande. The company serves 38 shareholders made up of water right owners who use the ditch as a carrier ditch. The diversion dam and headgate structures 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.





L O A N D E T A I L S	
Project Cost:	\$94,000
CWCB Loan (with Service Fee):	\$85,446
Loan Term and Interest Rate:	10 Years @ 0.5%
Funding Source:	Severance Tax
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
100%	0% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	540 AF
Storage Preserved:	274 AF



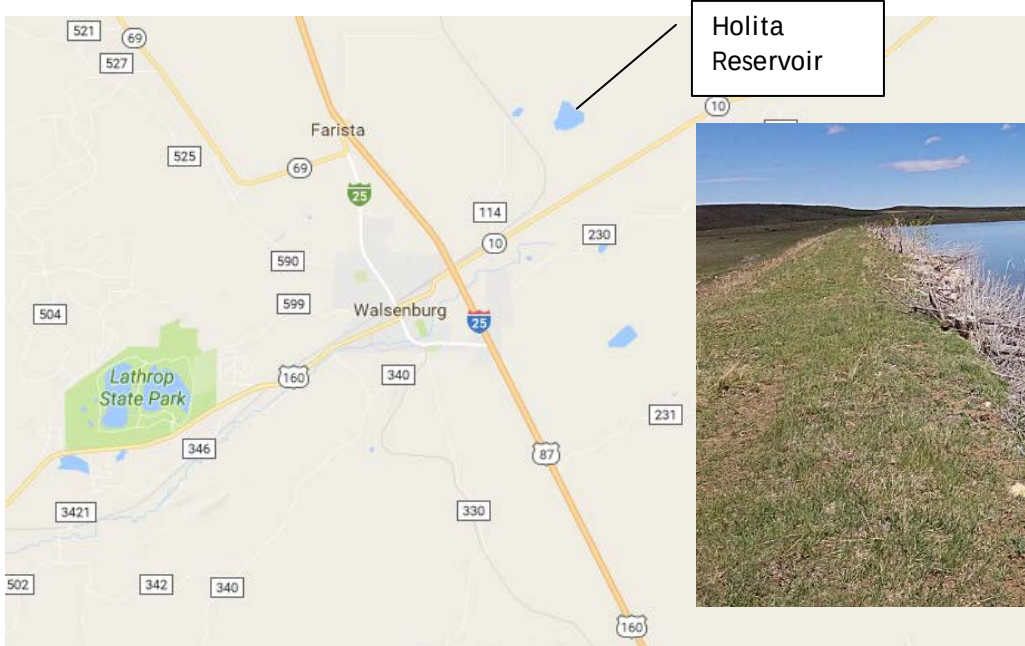
L O C A T I O N	
County:	Huerfano
Water Source:	Cucharas River
Drainage Basin:	Arkansas
Division: 2	District: 16

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. If the dam safety issues are not addressed by December 2017, the Dairy could be required to breach the dam.

The intent of the SEO storage restriction is to eliminate uncontrolled seepage from the dam. The SEO also identified the spillway as unsafe and is requiring a permanent lowering that will result in a storage volume of 274 acre-feet. Through this loan, the Dairy plans to rehabilitate the dam in the fall/winter of 2017.



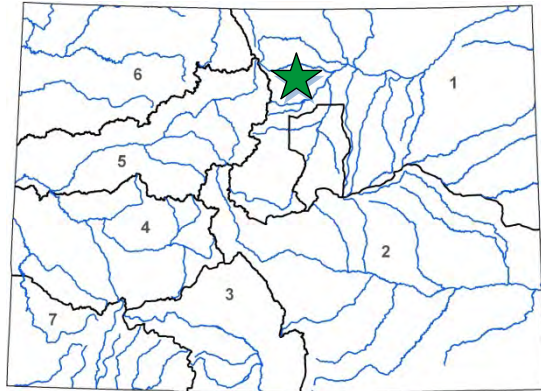


Dixon Reservoir Dam Improvement

Dixon Canon Ditch and Reservoir Company

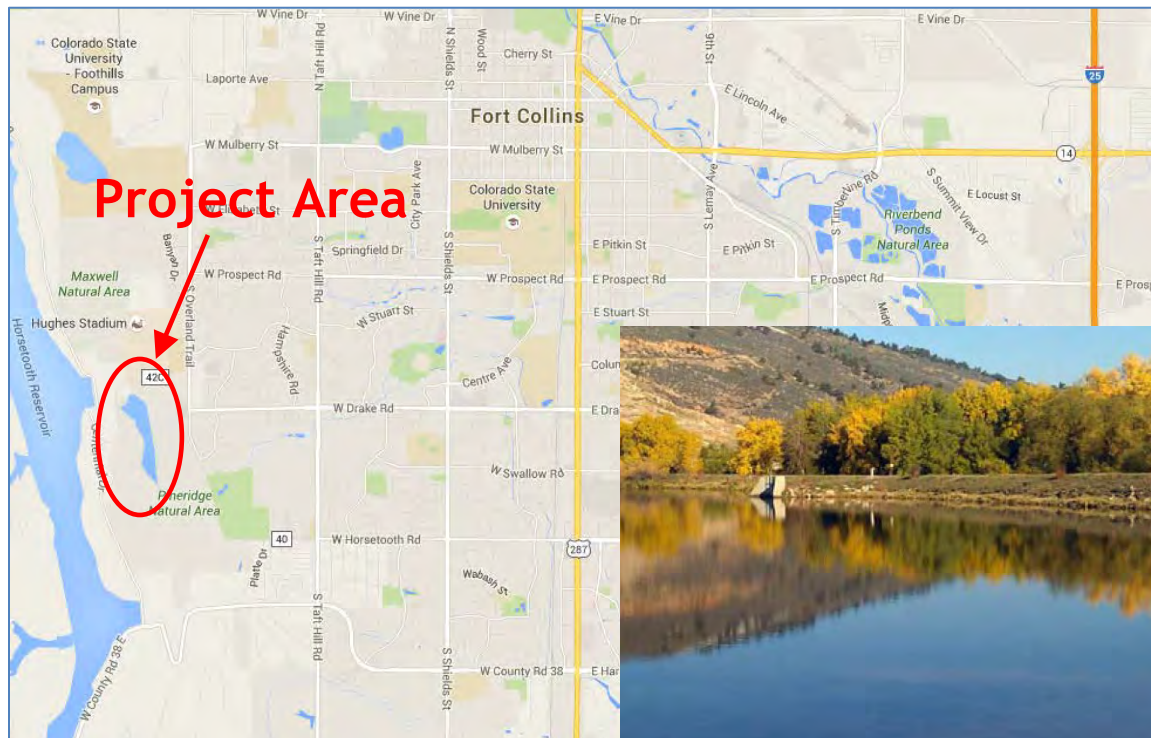
May 2016 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$309,000
CWCB Loan (with Service Fee):	\$278,100
Loan Term and Interest Rate:	30 years @ 2.55%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
17%	0% Low - 83% Mid - 0% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Dam Rehabilitation
Average Annual Delivery:	312 AF
Total Storage Effect:	412 AF



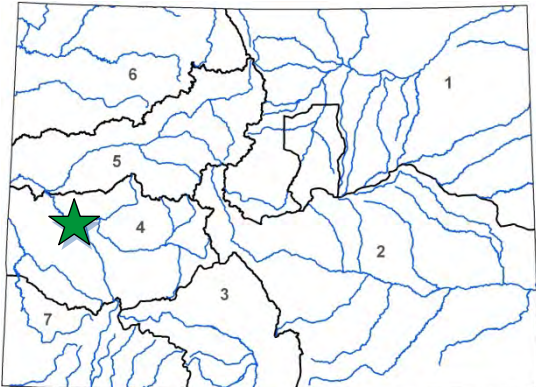
L O C A T I O N	
County:	Larimer
Water Source:	Dixon Creek
Drainage Basin:	South Platte River
Division:	1
District:	3

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. Dixon Reservoir is directly east of Horsetooth Reservoir. 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 water is typically used to irrigate turf, agricultural crops, and the City of Fort Collins parks and open space. 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. The purpose of this project is to address seepage issues and improve the dam outlet works so the Company can continue providing an adequate amount of irrigation water to shareholders while minimizing the risk of dam failure. Construction is expected to begin in late 2016.



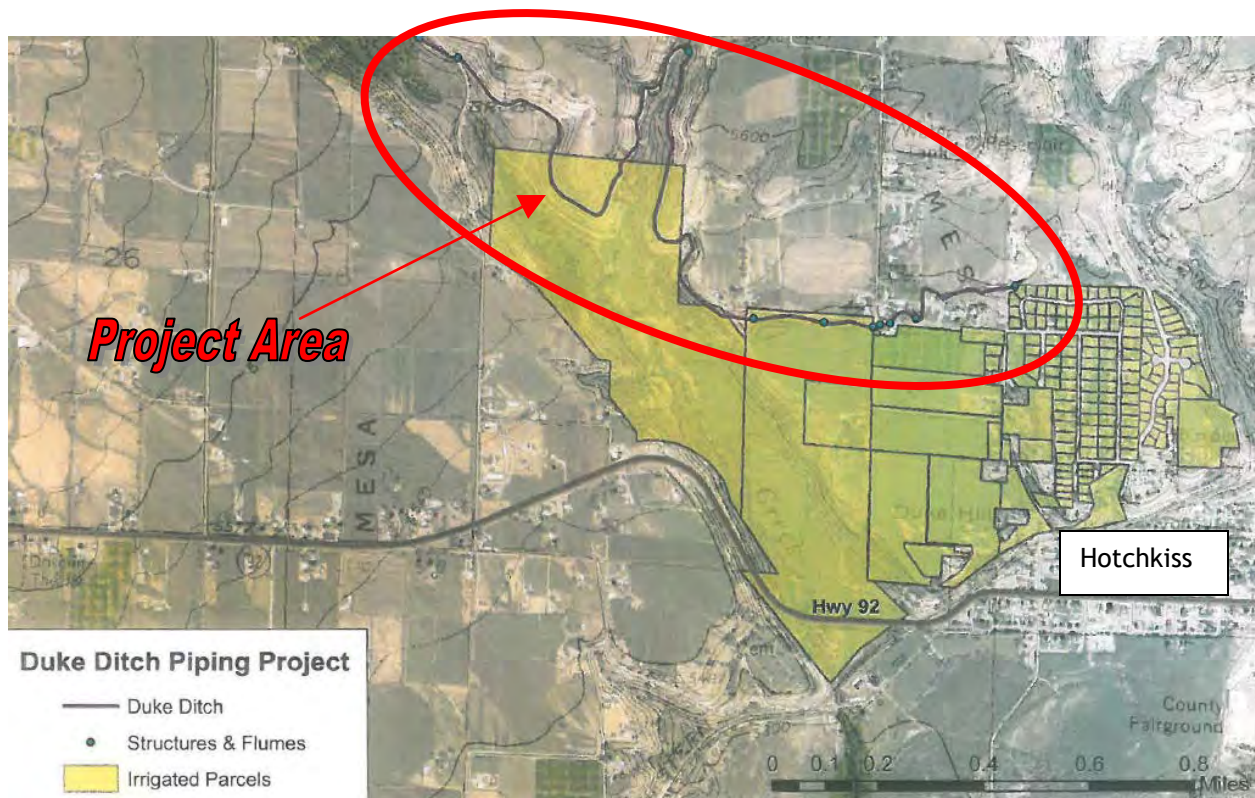


L O A N D E T A I L S	
Project Cost:	\$749,374
CWCB Loan (with Service Fee):	\$90,900
Loan Term and Interest Rate:	30 years @ 2.0%
Funding Source:	Construction Fund, WSRA, Salinity Control
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
68%	32% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,424 AF



L O C A T I O N	
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.

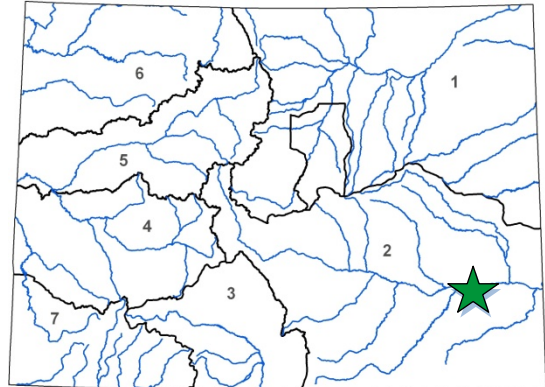




Adobe Creek Dam Rehabilitation

Fort Lyon Canal Company
September 2017 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$9,200,000
CWCB Loan (with Service Fee):	\$8,209,381
Loan Term and Interest Rate:	40 years @ 1.50%
Funding Source:	WSRF & Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
99.1%	<1% Low - TBD% Mid -0% High
	Commercial
	<1%
P R O J E C T D E T A I L S	
Project Type:	Dam Rehabilitation
Average Annual Diversions:	221,000 AF
Recovered Storage:	32,560 AF
Preserved Storage:	81,692 AF

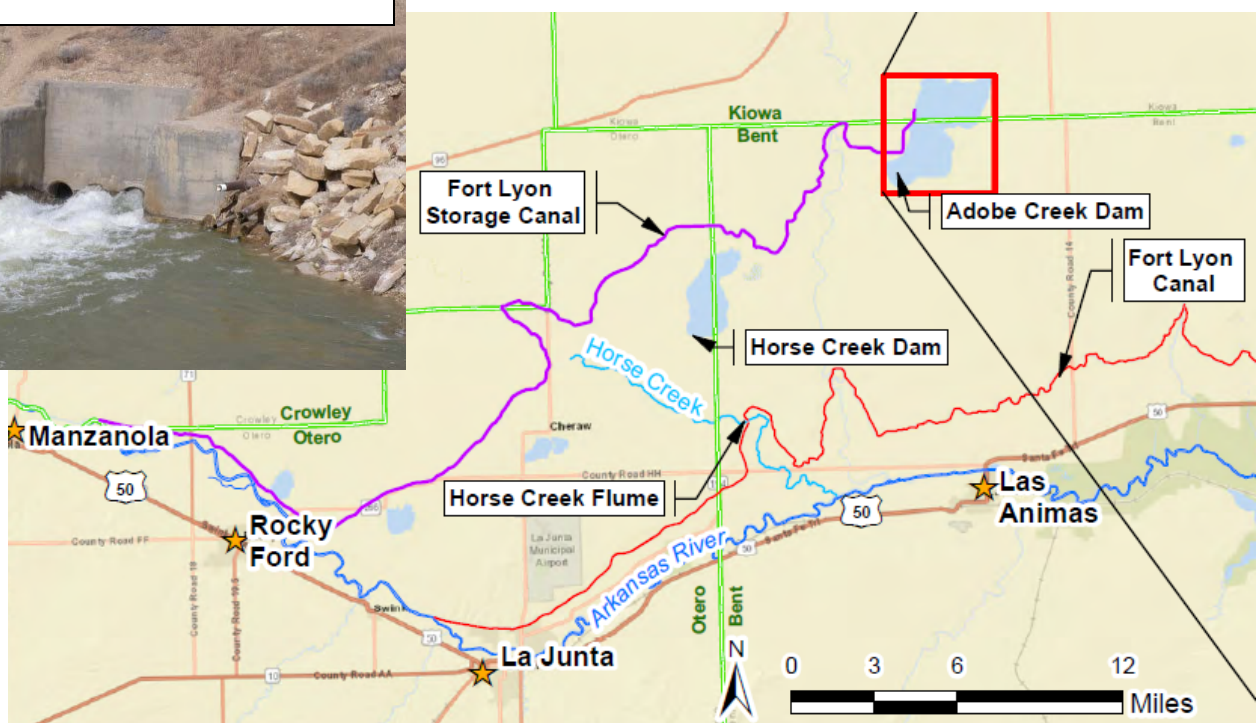
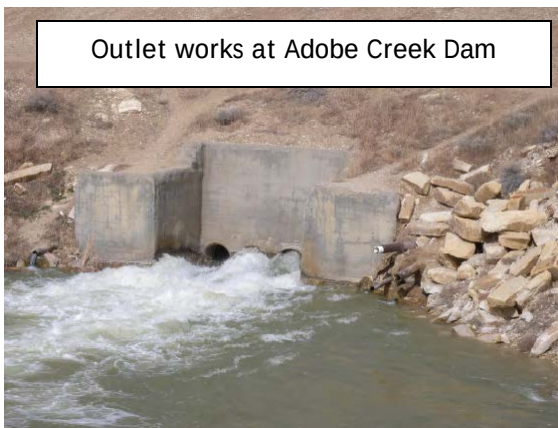


L O C A T I O N	
County:	Bent
Water Source:	Arkansas River
Drainage Basin:	Arkansas
Division:	2
District:	17

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 begin 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

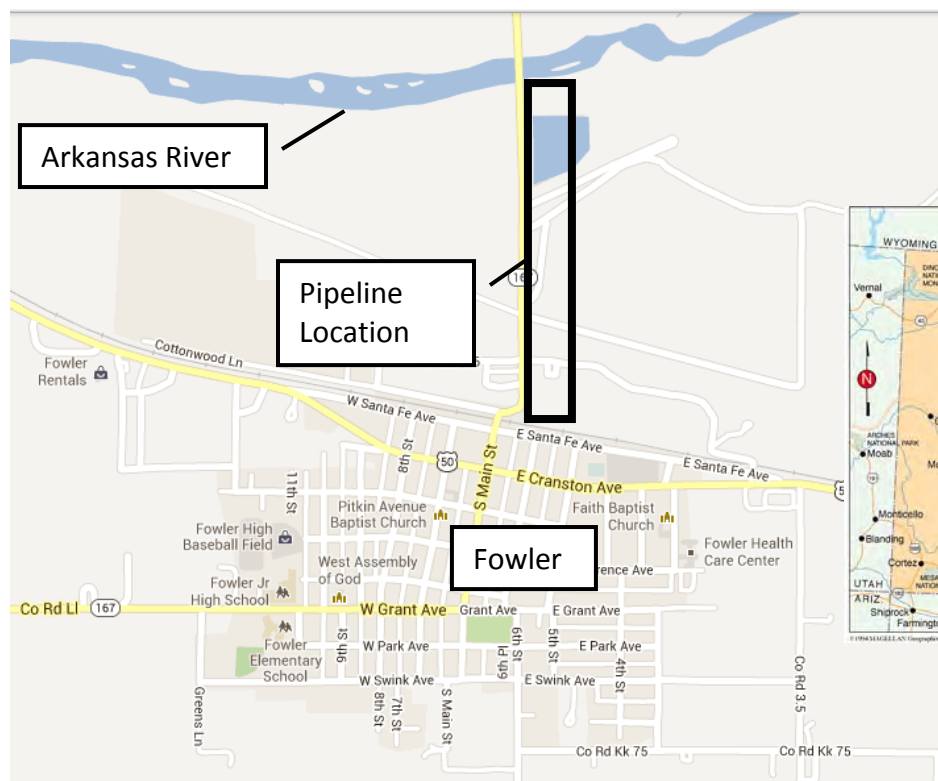
Type of Borrower: Municipal (Low)

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.



CWCB Water Project Loan Program Project Data Sheet

Borrower: Town of Georgetown
(Water and Sewer Enterprise)

County: Clear Creek County

Project Name: Outlet Works Modification Project **Project Type:** Dam Rehabilitation

Drainage Basin/District: South Platte / 7

Water Source: Clear Creek

Total Project Cost: \$3,275,000

Funding Source: Construction Fund

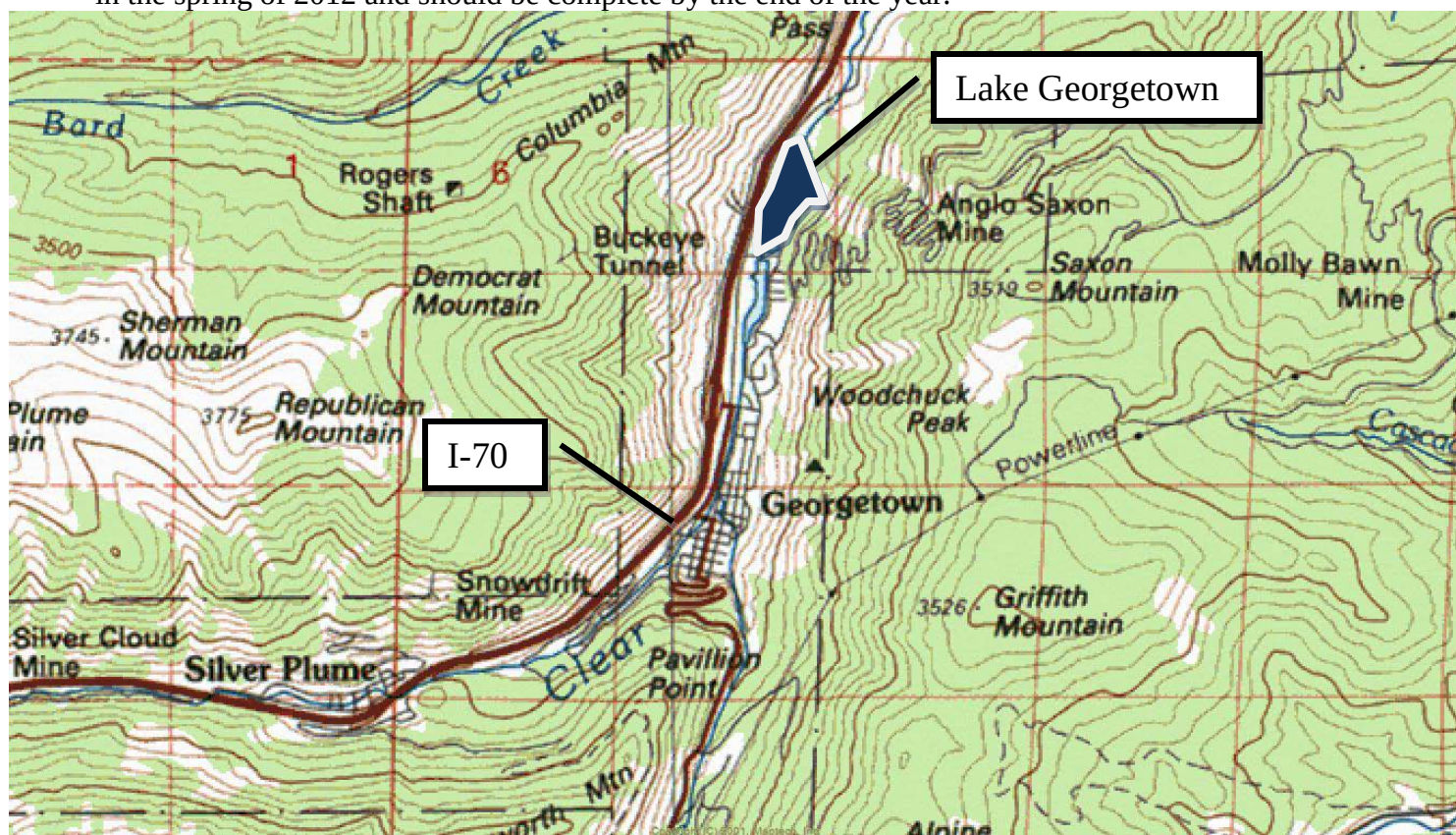
Type of Borrower: Middle-Income Municipal

Average Diversion: 208 AF

CWCB Loan: \$2,976,975 (w/ 1% service fee)

Interest Rate: 4.5% **Term:** 30 years

The Town of Georgetown is located on Clear Creek, along the I70 corridor, east of the continental divide. The Town needs to increase the outlet works capacity at Georgetown Lake Dam. The outlet works currently can release up to 260 cfs. In order to comply with an October 2010 court order regarding Georgetown Lake operations, up to 500 cfs must be released so the Town can meet the terms of its augmentation plan. The CWCB loan will be used to pay for the engineering costs and for the construction costs associated with the outlet works project. Construction is expected to begin in the spring of 2012 and should be complete by the end of the year.



CWCW 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

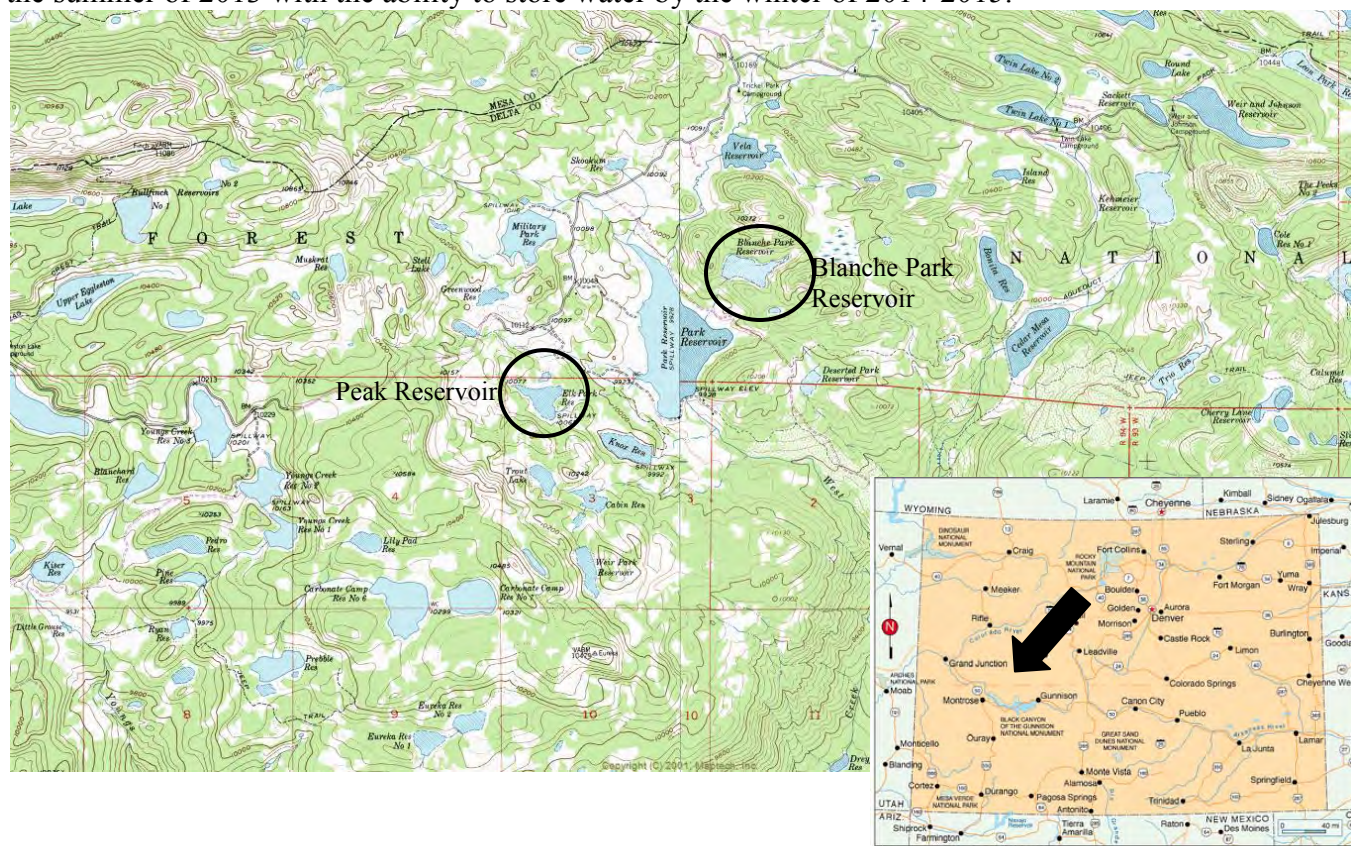
Type of Borrower: Municipal/Agricultural

Average Annual Diversion: 400 AF
Storage Added: 155 AF

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

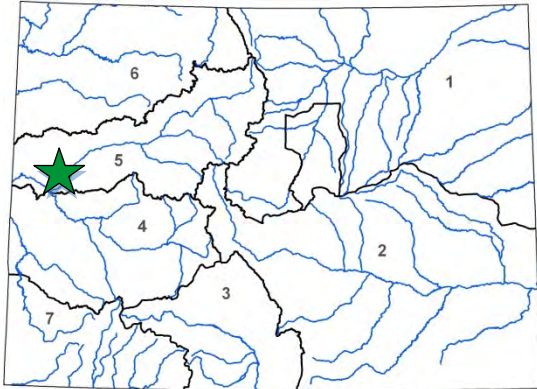
Interest Rate: 1.55%* **Term:** 20 years
(Reduced from 1.8% blended rate)

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.



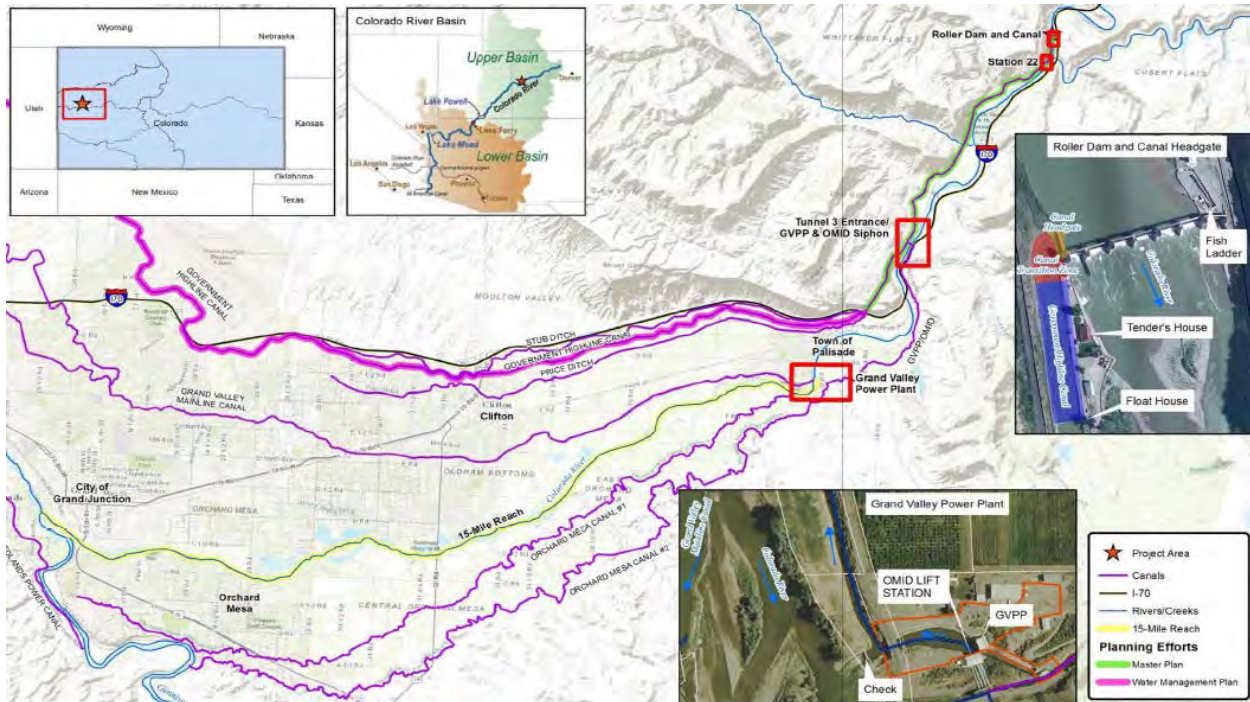


L O A N D E T A I L S	
Project Cost:	\$800,000
CWCB Loan (with Service Fee):	\$151,500
Loan Term and Interest Rate:	30 Years @ 1.55%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
90%	0% Low - 10% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	260,000 AF



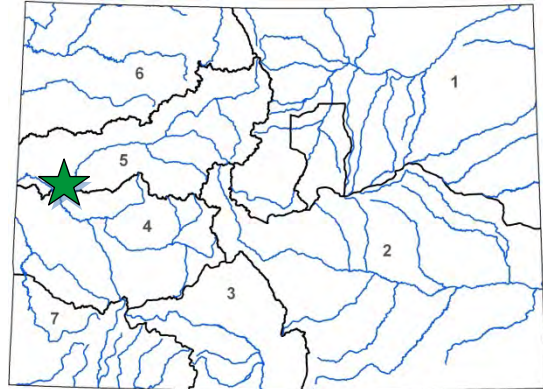
L O C A T I O N	
County:	Mesa
Water Source:	Colorado River
Drainage Basin:	Colorado
Division: 5	District: 72

The Grand Valley Water Users Association (Association), is requesting 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 include the Grand Valley Diversion Dam (also known as the Roller Dam) on the Colorado River in De Beque Canyon, the 55-mile-long Government Highline Canal, 150 miles of project operated laterals, 100 miles of drainage ditches, and a hydroelectric power plant. 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 has slumped, settled and degraded. Occasional erosion within the embankment has led to material loss and sinkholes. As a result of canal degradation, water flow is restricted and the canal cross section has been reduced, causing a reduction in capacity of the canal channel. The canal is currently physically restricted to approximately 1,600 cfs while the water rights are for 1,730 cfs. To increase the capacity, the Association intends to improve first 500 feet of the canal. Permitting and final design are scheduled for completion by March 2017. Construction is anticipated in summer and fall of 2017.





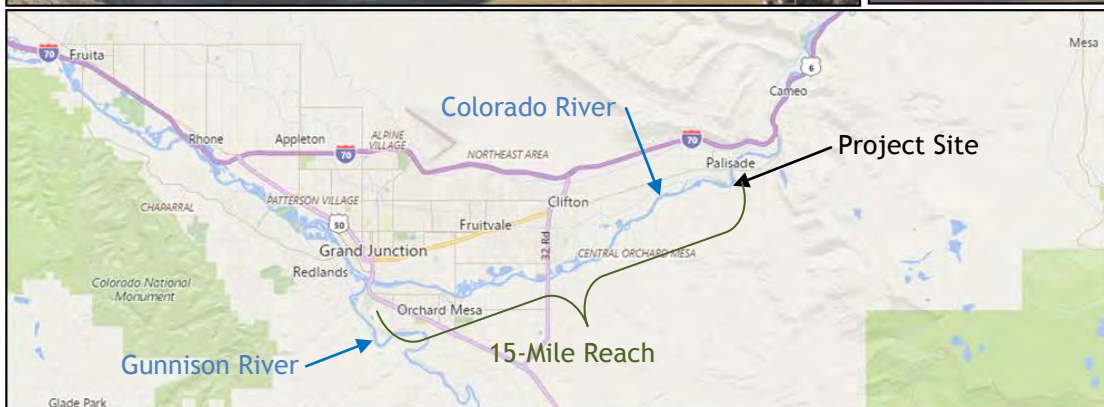
L O A N D E T A I L S	
Project Cost:	\$5,200,000
CWCB Loan (with Service Fee):	\$1,717,000
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Hydropower	
P R O J E C T D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production:	17M kWh



L O C A T I O N			
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 Energy) 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 Privilege with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an important 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.

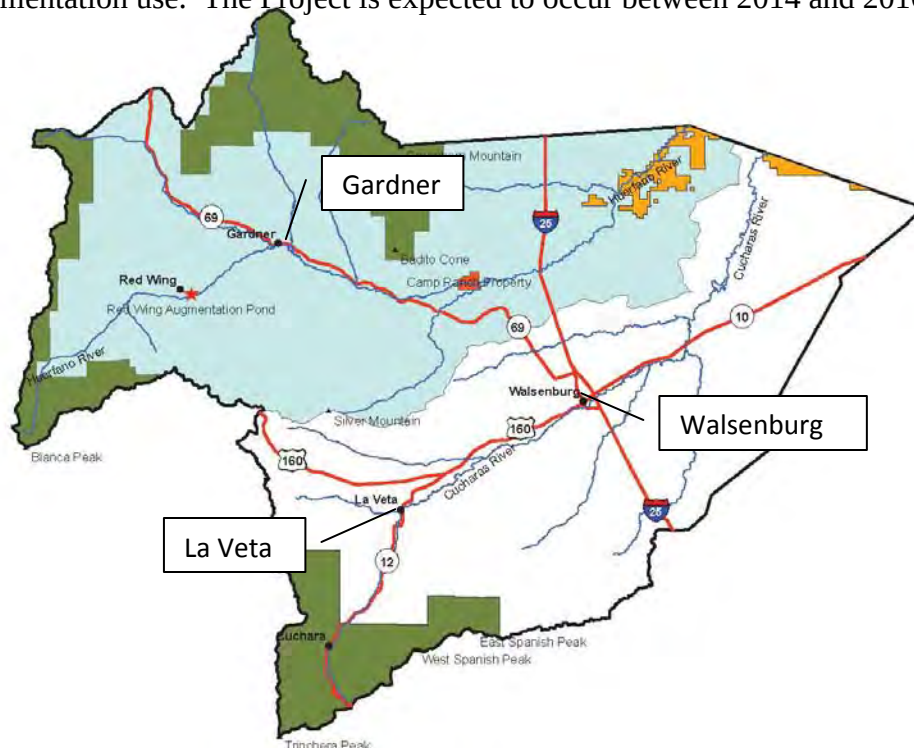
The goal of the Project is to bring the GVPP up to a sustainable operating condition and meet current electric and safety standards. The GVPP was built in the early 1930s and has seen no major upgrades or modernization to date. Under current operations, the “water-to-wire” efficiency is approximately 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.



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.



**CWCB Water Project Loan Program
Project Data Sheet**

Borrower: Lake Durango Water Authority

County: La Plata

Project Name: Source Water Supply Project

Project Type: Water Rights
Purchase/Infrastructure

Drainage Basin: San Juan / Dolores

Water Source: ALP

Total Project Cost: \$3,000,000

Funding Source: Construction Fund and
WSRA Statewide Funds

Type of Borrower: Low-income Municipal

Average Delivery: 309 AF

CWCB Loan: \$2,525,000 (w/ 1% service fee)

Interest Rate: 4.0% **Term:** 30 years

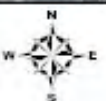
WSRA Statewide Grant: ~~\$500,000~~ **\$450,000**

The Lake Durango Water Authority serves 1,435 taps in southwest La Plata County. A safe yield analysis has indicated that the Authority can only supply water to 792 taps in a drought year. This was an issue in the 2002-2003 drought, so the Authority is seeking additional supply and storage to safely serve its customers. The Authority is planning on purchasing 100 AF of A-LP water from the Colorado Water Resources and Power Development Authority, constructing a pump station at Lake Nighthorse, building an access road, and installing a pipeline to bring water from Lake Nighthorse to Lake Durango (where the Authority currently stores the majority of its water).



0 0.4 0.8 1.6 2.4
Miles

2009 NAIP aerial imagery provided by
the US Farm Service Agency



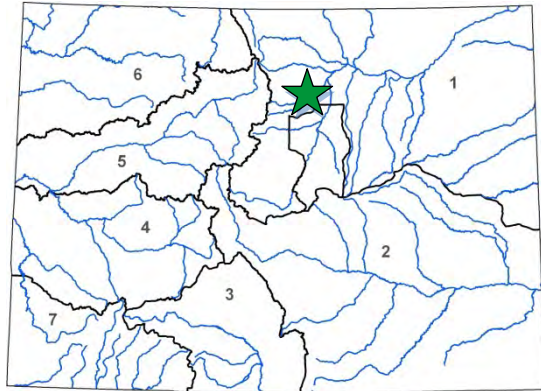


Lake McIntosh Outlet Works Repair

Lake McIntosh Reservoir Company

January 2016 Board Meeting

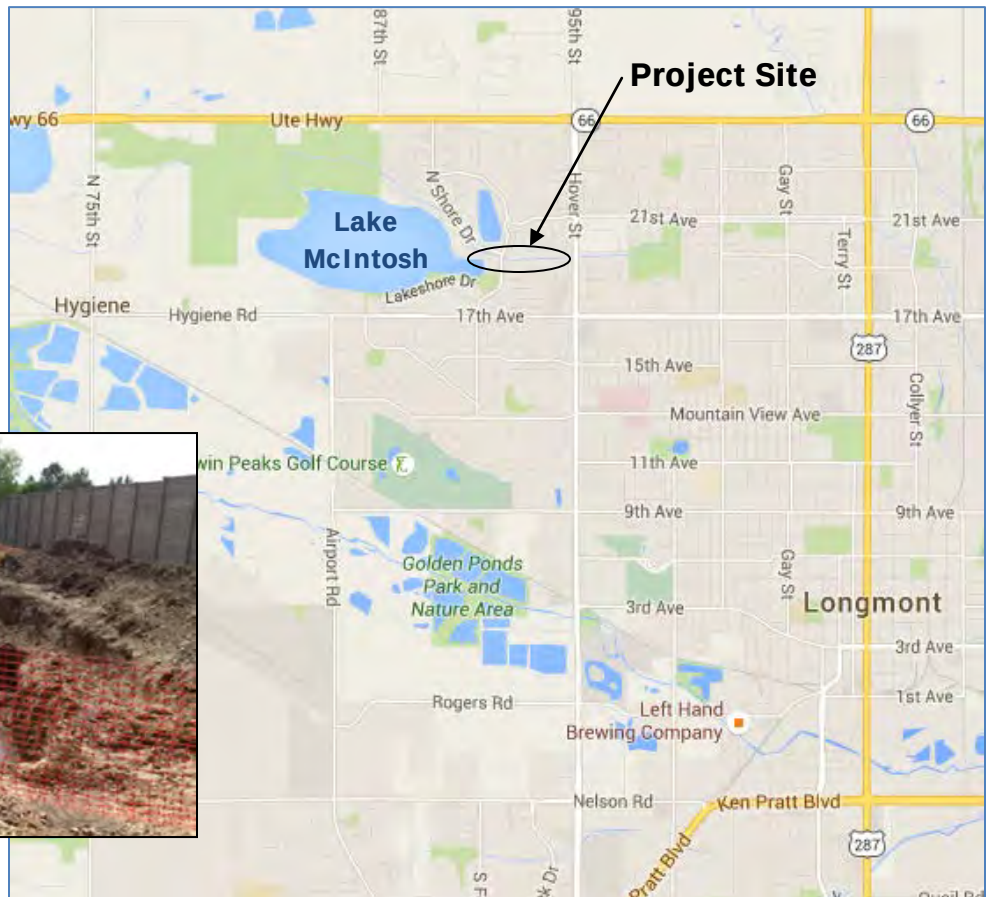
L O A N D E T A I L S	
Project Cost:	\$1,900,000
CWCB Loan (with Service Fee):	\$1,727,100
Loan Term and Interest Rate:	30 Years @ 2.70%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
28%	0 % Low - 61% Mid - 9% High
	Commercial
	2 %
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	1,533 AF
Storage Preserved:	2,476 AF



L O C A T I O N	
County:	Boulder
Water Source:	St. Vrain Creek
Drainage Basin:	South Platte River
Division:	1
District:	5

Lake McIntosh Reservoir Company is a mutual irrigation reservoir company formed in 2001. The Company owns Lake McIntosh Reservoir which is used as part of an exchange between the Highland Ditch Company and the Oligarchy Ditch Company.

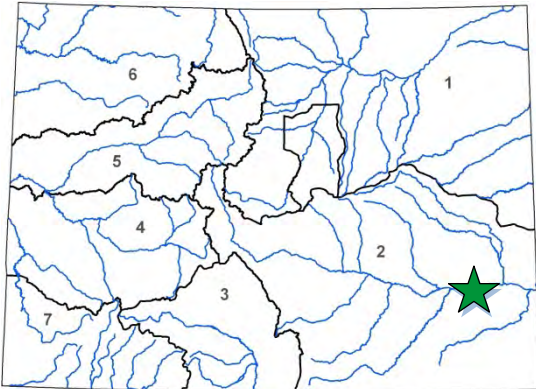
The reservoir was constructed in 1890 and enlarged in 1902. In May 2015, a section of the reservoir's outlet pipe collapsed, creating a sinkhole which deposited soil in the outlet works pipes downstream for approximately 300 feet. This has rendered the reservoir's outlet works unusable and thus water cannot be delivered without the use of a temporary pump. The goal of this project is to restore the reservoir's functionality by repairing its damaged outlet works. Construction is planned to begin in summer 2016 and completed by winter, prior to the 2017 irrigation season.



May 2015 Sinkhole



L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
0%	100% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Municipal & Industrial
Average Annual Delivery:	2,005 AF



L O C A T I O N	
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.



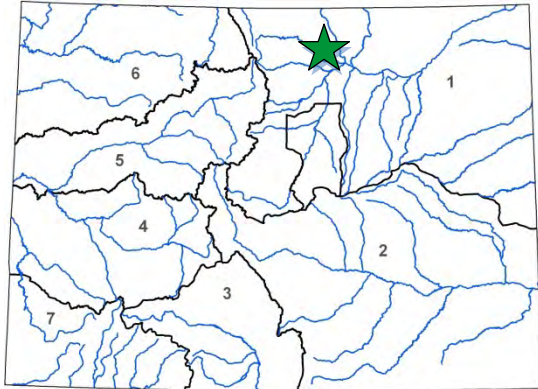
Water Project Loan Program - Project Data Sheet



Headgate Structure Replacement

Larimer and Weld Irrigation Company
September 2016 Board Meeting

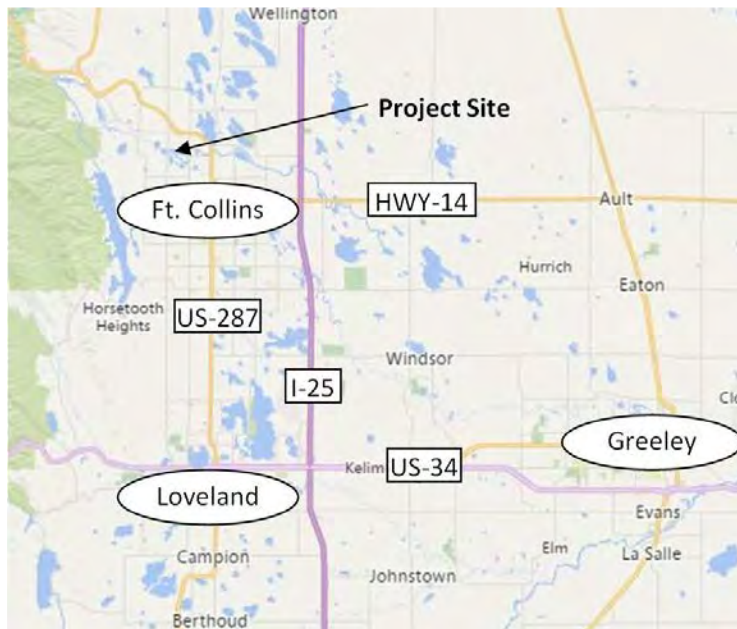
L O A N D E T A I L S	
Project Cost:	\$750,000
CWCB Loan (with Service Fee):	\$681,750
Loan Term and Interest Rate:	30 Years @ 1.5%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
96%	0% Low - 4% Mid - <1% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	85,000 AF



L O C A T I O N	
County:	Larimer & Weld
Water Source:	Cache la Poudre River
Drainage Basin:	South Platte
Division:	1 District: 3

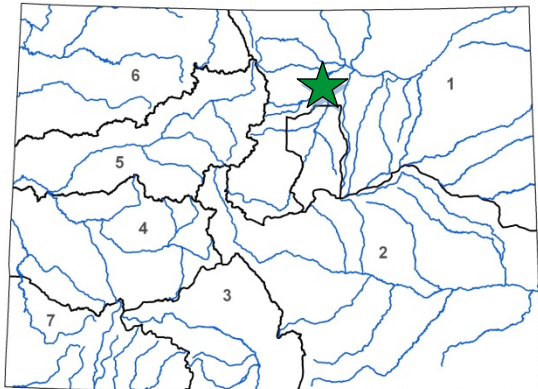
The Larimer and Weld Irrigation Company is a Colorado Mutual Ditch Company and a nonprofit corporation. The Company's service area extends from the Cache la Poudre River diversion north of Fort Collins, east to near the town of Galeton, encompassing approximately 61,000 acres of irrigated land in Larimer 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.





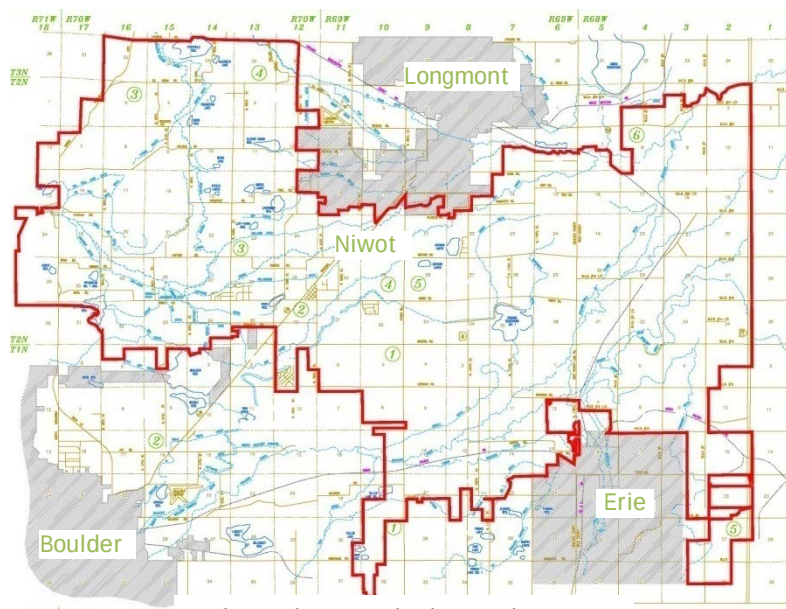
L O A N D E T A I L S	
Project Cost:	\$10,735,300
CWCB Loan (with Service Fee):	\$10,000,000
Loan Term and Interest Rate:	20 Years @ 2.75%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 30% Mid -70% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Municipal Water Supply System New
Average Annual Delivery:	4,400 AF



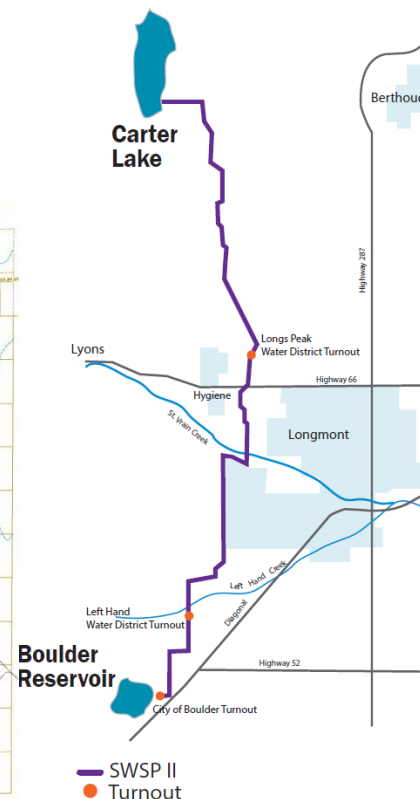
L O C A T I O N	
County:	Broomfield, Weld
Water Source:	
Drainage Basin:	South Platte
Division:	1 District: 5

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



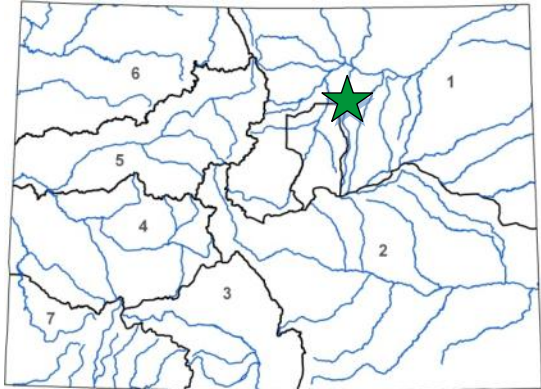


Lupton Bottom Ditch Company

Diversion Structure Repair

January 2018 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$676,000
CWCB Loan (with Service Fee):	\$606,000
Loan Term and Interest Rate:	10 years @ 1.6%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
47.2%	0 % Low - 46.4% Mid -0% High
	Commercial
	6.4%
P R O J E C T D E T A I L S	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	19,097 AF



L O C A T I O N	
County:	Weld
Water Source:	South Platte River
Drainage Basin:	South Platte
Division:	1
District:	2

The Lupton Bottom Ditch Company diverts water from the South Platte River near Wattenberg in Weld County. The existing 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 the September 2013 flooding and further damaged in subsequent high river flows. The proposed repair work will be 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, stabilization and installation of upstream sheet piling followed by construction of a concrete apron is planned. The downstream side of the structure will be stabilized with grouted boulders. The second stage includes rebuilding the rock dam. Construction is scheduled for Winter/Spring of 2018.



Diversion Structure



Lupton Bottom Ditch

Project Site

South Platte River

Water Project Loan Program - Project Data

Borrower: City of Monte Vista
(Water Activity Enterprise)

Project Name: Augmentation Water Rights
Acquisition

Drainage Basin: Rio Grande

Total Project Cost: \$1,863,500

Type of Borrower: Low-Income Municipal

CWCB Loan: \$1,693,770 (incl. 1% loan fee)

County: Rio Grande

Project Type: Water Rights Purchase

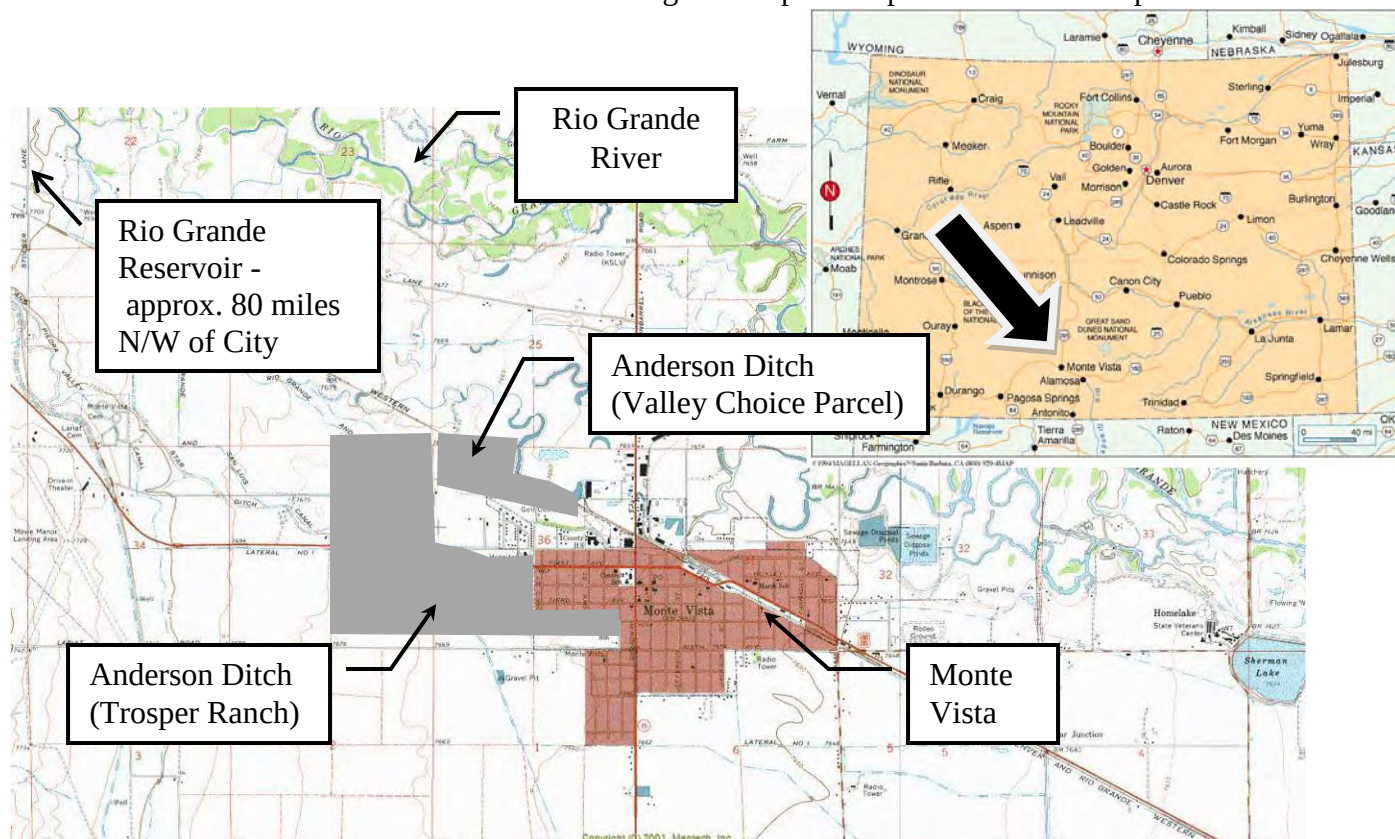
Water Source: Rio Grande River

Funding Source: Construction Fund

Aver. Demand: 1,212 AF/year

Interest Rate: 4.0% **Term:** 30 years

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. Upcoming rules from the Office of the State Engineer will 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. The water rights currently owned by the City are insufficient to fully replace the City's depletions. The City needs an additional 321 AF of replacement water. In order to meet this need, the City is purchasing Anderson Ditch water rights and storage in the Rio Grande Reservoir to store both the excess credits from the water it is purchasing and to store additional water it intends on leasing. Upon loan approval, the City plans on executing purchase agreements with the sellers of the Anderson Ditch rights and will then file in water court to enable the use of those rights to replace depletions as soon as possible.



Location Map



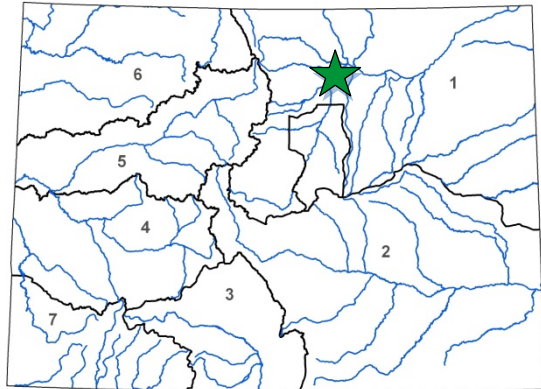
Mountain Supply Reservoir No. 10 Repairs

North Poudre Irrigation Company

November 2017 Board Meeting

(Loan Increase)

L O A N D E T A I L S	
Project Cost:	\$795,000
CWCB Loan (with Service Fee):	\$802,950
Loan Term and Interest Rate:	30 years @ 2.50%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
26%	0% Low - 73% Mid - 0% High 1%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	44,400 AF
Storage Maintained:	344 AF
Storage Recovered:	264 AF



L O C A T I O N	
County:	Larimer
Water Source:	Cache la Poudre River
Drainage Basin:	South Platte River
Division:	1 District: 3

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 that own Company shares.

Mountain Supply Reservoir No. 10 (Reservoir), owned and operated by the Company, was constructed in 1905, and a major rehabilitation of the dam was completed in 1973. The Company has a storage decree in this reservoir of 344 acre-feet. The reservoir is an off-stream reservoir with a drainage basin of approximately 0.14 square miles. In August of 2015, the Reservoir's outlet works experienced a failure in the corrugated metal pipe (CMP) outlet. The reservoir was drained and a full storage restriction was imposed by the State Engineer's Office (SEO). The Company made temporary emergency repairs in 2016 and were then permitted to store up to 80 AF.

The Project components are: (1) repair the outlet works including construction of a new inlet gate tower and walkway, and lining the length of the outlet conduit using a cured-in-place pipe (CIPP) liner; (2) remove silt from the reservoir bottom and install a new spillway control wall to achieve the ability to store the full decreed storage amount of 344 AF; and (3) repair 500 feet of 30-inch inlet works by installing a CIPP liner in the existing inlet pipe from the Upper 10 Ditch to the reservoir, as well as replacing the inlet works and installing a new energy dissipation structure.



Bids were opened on October 12, 2017. The Company is seeking an increase to its loan amount as the bids exceeded the original budget. Construction is planned to begin in November 2017, and be completed before the start of the 2018 irrigation season.

**CWCB Water Project Loan Program
Project Data Sheet**

C150368

Borrower: North Poudre Irrigation Company

County: Larimer

Project Name: Fossil Creek Reservoir Diversion
Structure Repair

Project Type: Diversion Rehabilitation

Drainage Basin/ District: South Platte / 3

Water Source: Cache la Poudre

Total Project Cost: \$477,000

Funding Source: Severance Tax PBF

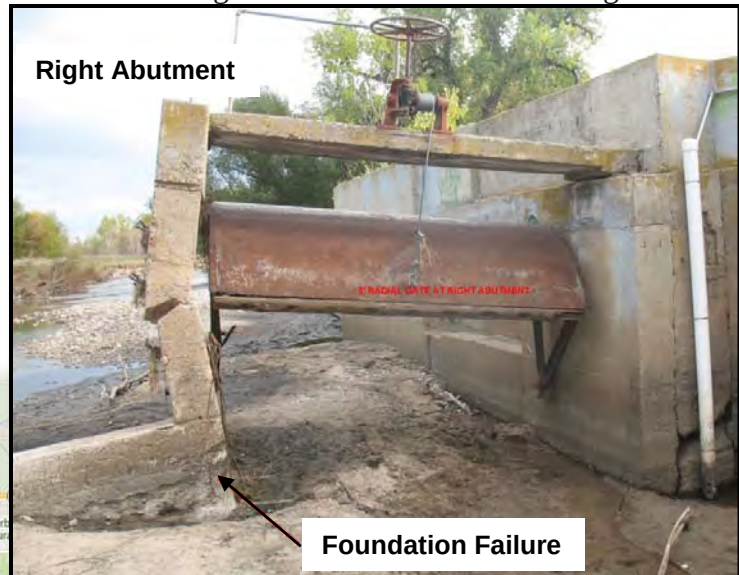
Type of Borrower: Blended

Average Annual Diversion: 31,700 AF

CWCB Loan: \$481,770
(with 1% service fee)

Interest Rate: 2.35% **Term:** 30-years
(37% Ag, 1% Low, 57% Mid, 4% High, <1% Com)

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 purpose of the Project is to repair the existing diversion structure by rebuilding the check dam and abutment. The Project will restore the structure to pre-flood elevations while modifying the foundation to improve protection against future scouring.



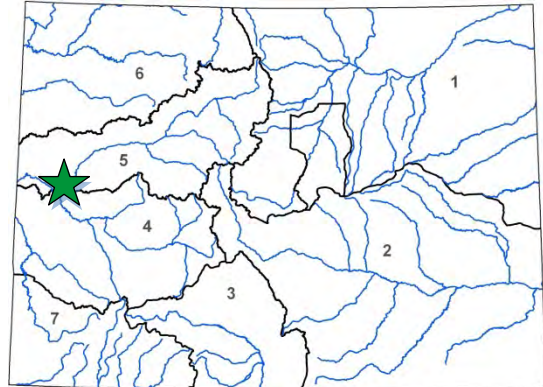


Grand Valley Power Plant Rehabilitation

Orchard Mesa Irrigation District

November 2016 Board Meeting

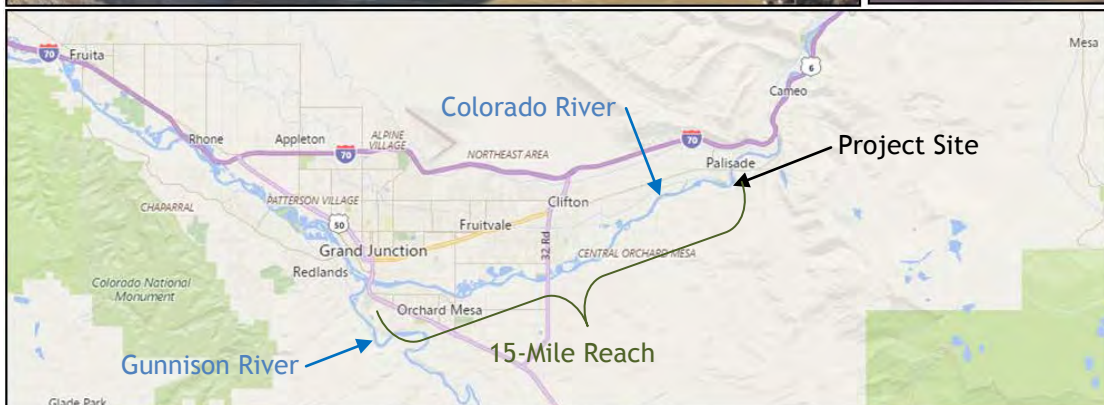
L O A N D E T A I L S	
Project Cost:	\$5,200,000
CWCB Loan (with Service Fee):	\$1,717,000
Loan Term and Interest Rate:	30 Years @ 2.0%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Hydropower	
P R O J E C T D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production:	17M kWh



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

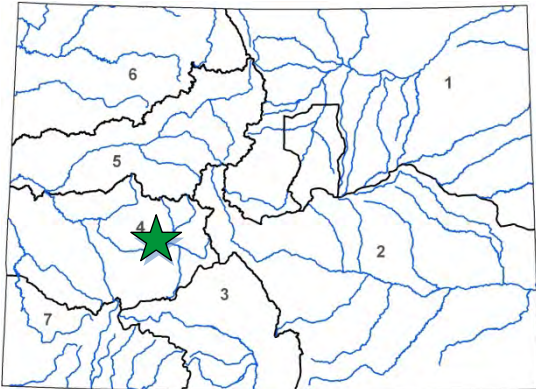
The Orchard Mesa Irrigation District (District) and Grand Valley Water Users Association (Association) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Energy) 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 Privilege with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an important 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.



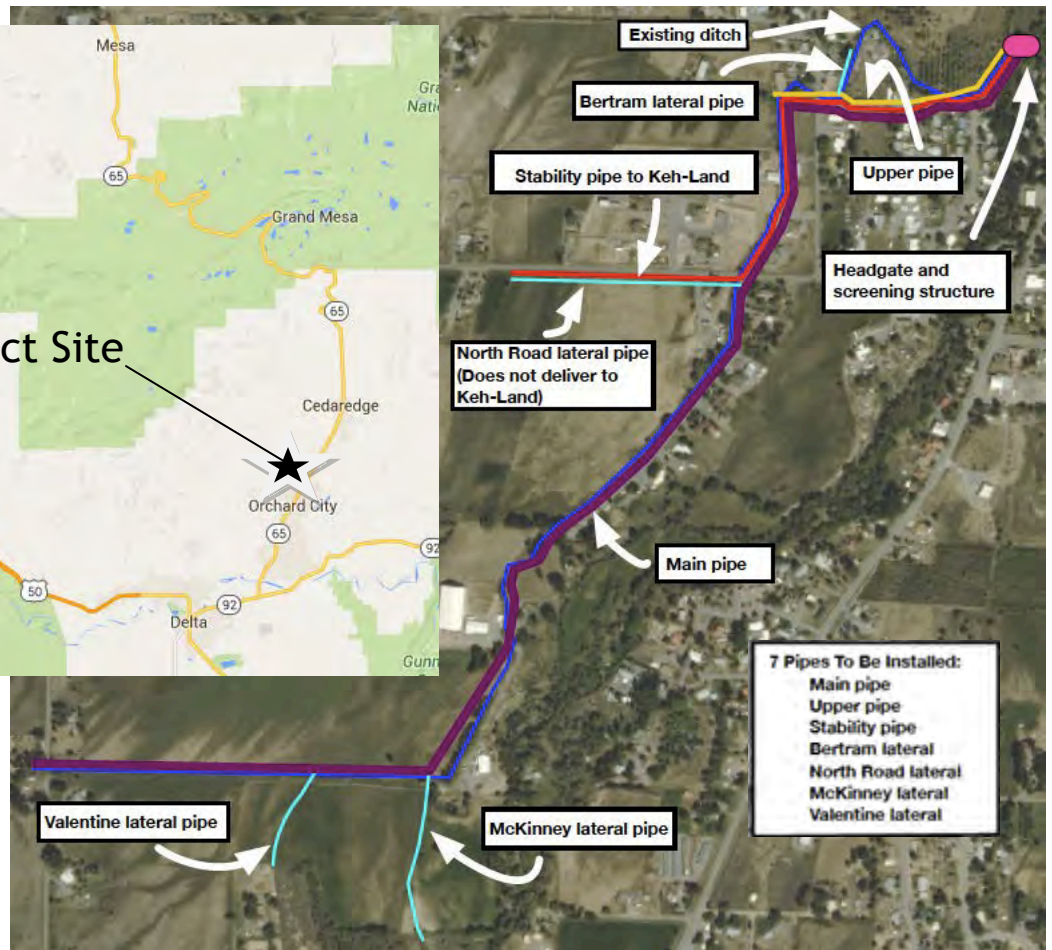


L O A N D E T A I L S	
Project Cost:	\$1,430,720
CWCB Loan (with Service Fee):	\$151,500
Loan Term and Interest Rate:	30-Years @ 1.95%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
86%	14% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,750 AF



L O C A T I O N	
County:	Delta
Water Source:	Surface Creek
Drainage Basin:	Gunnison River
Division:	4 District: 40

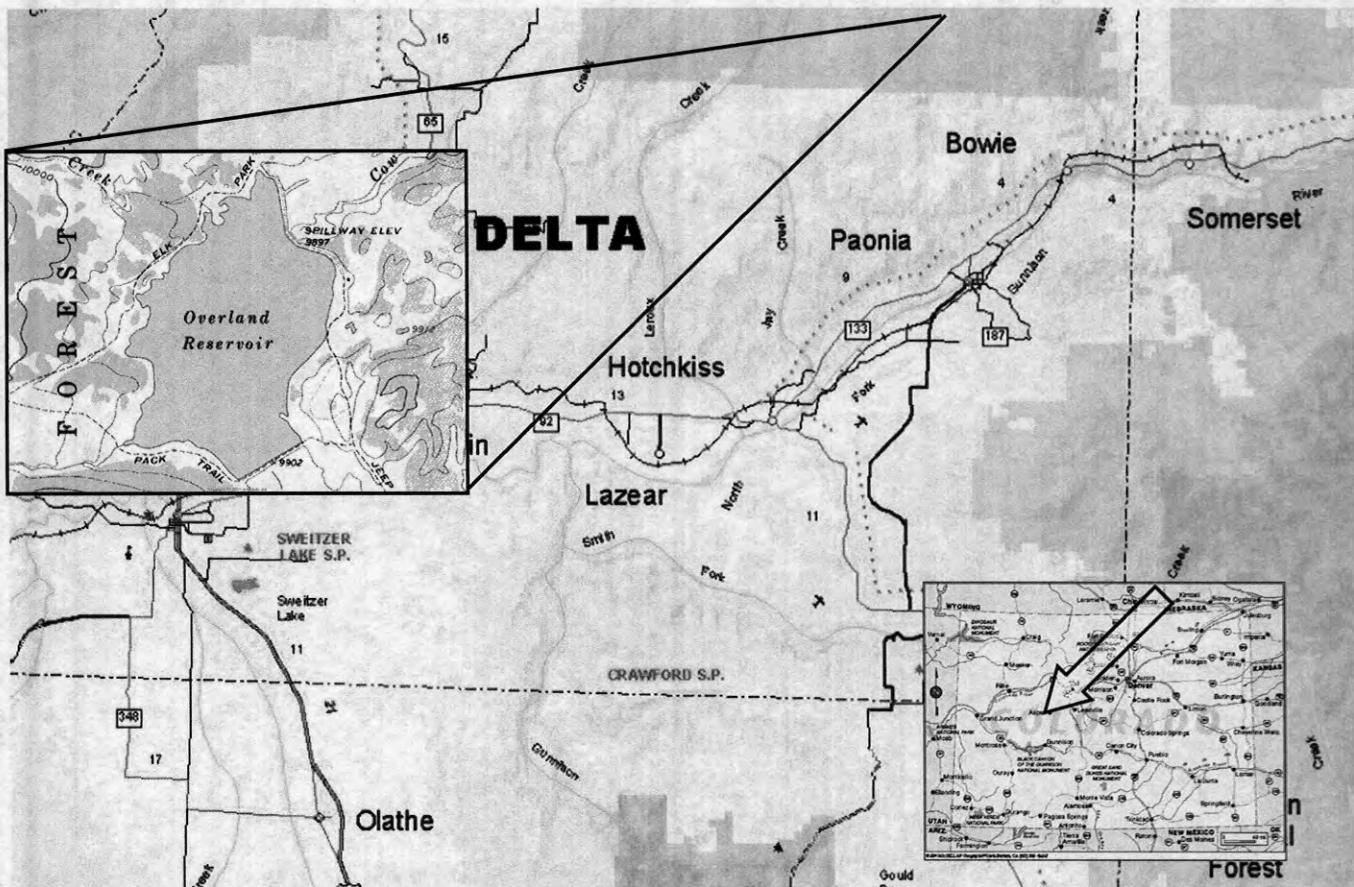
The Company serves approximately 350 irrigated acres in Delta County, approximately 10 miles north of the town of Delta, diverting all its supplies via a concrete diversion structure on Surface Creek. The Company's ditch was constructed in the late 1800s by a group of early settlers cooperating to get 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.



CWCB Construction Loan Program Project Data Sheet

Borrower: Overland Ditch and Reservoir Co.	County: Delta
Project Name: Overland Reservoir Enlargement	Project Type: Reservoir Enlargement
Drainage Basin: Gunnison River Basin	Water Source: Cow Creek
Total Project Cost: \$1,255,555	Funding Sources: CWCB & Local Bank
Type of Borrower: Agricultural	Average Delivery: 17,000 acre-feet
Loan Amount: \$1,130,000	Interest Rate: 2.5% Term: 30 years

The Overland Reservoir Company is a non-profit mutual ditch company established in the State of Colorado in 1895. The Company owns and operates the Overland Reservoir for the 120 shareholders and delivers an average of 17,000 AF of irrigation water annually. The Reservoir is located in Delta County in the Gunnison National Forest at an elevation of 10,000 feet. The Reservoir has a current storage capacity of 6,200 AF and will be increased to 7,171 AF with this project. The reservoir was built in 1905 and required significant repair work in 1987 by the Company with financial assistance from CWCB and the Bureau of Reclamation. This project consists of raising the spillway elevation by 3.8 feet, installing toe drains, increasing the dam crest width and adding necessary embankment protection. Construction is scheduled to begin in the summer of 2007.



LOCATION MAP

**CWCB Construction Loan Program
Project Data Sheet**

Borrower: Riverside Reservoir and Land Co.

County: Weld

Project Name: Emergency Spillway Project

Project Type: Reservoir Rehabilitation

Drainage Basin: South Platte

Water Source: South Platte River

Total Project Cost: \$3,120,000

Funding Sources: Severance Tax Trust Fund
Perpetual Base Account

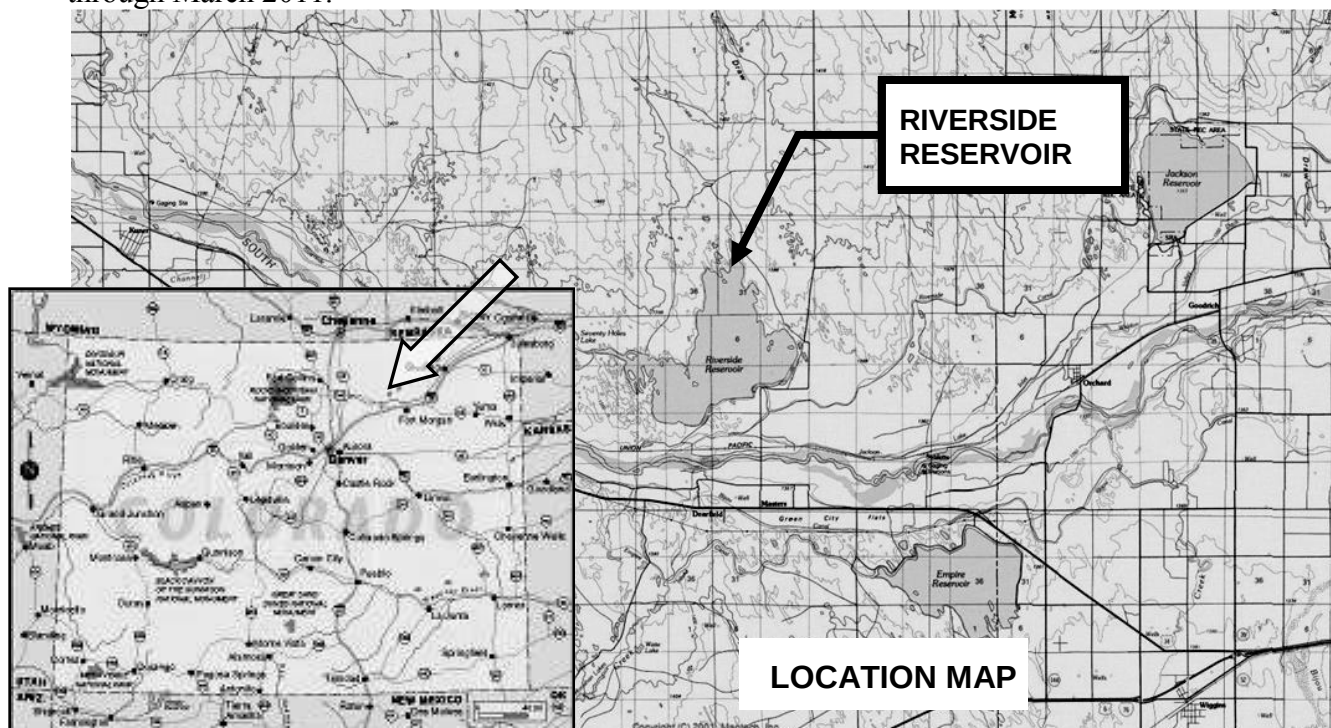
Type of Borrower: Agricultural

Average Delivery: 39,000 AF (from Reservoir storage) (105,000 Total AF for Company)

Loan Amount: \$2,838,100 (Including 1% fee)

Interest Rate: 2.5% **Term:** 30 years

The Riverside Reservoir and Land Company (Company) owns and operates the 64,000 acre-foot capacity Riverside Dam and Reservoir, an inlet canal known as Riverside Ditch, and a river diversion structure located 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 Company is applying for a loan to install a spillway at Riverside Reservoir (Reservoir). The Reservoir is not equipped with an emergency spillway, which is required by the DWR's *Rules and Regulations for Dam Safety and Dam Construction*. There is currently a nominal restriction of 0.05 feet (200 AF of storage loss) due to the lack of a spillway. In order to enhance the safety of the Reservoir and prevent further storage restrictions, the Company plans on constructing an emergency spillway. The final design is expected to be complete in January 2010 with construction occurring from July 2010 through March 2011.



**CWCB Construction Loan Program
Project Data Sheet
(Increase)**

Loan Program
Attachment 3
C150942

Borrower: Sanchez Ditch and Reservoir Co.

County: Costilla

Project Name: Sanchez Reservoir Outlet
Rehabilitation Project

Project Type: Dam Rehabilitation

Basin / District: Rio Grande / 24

Water Source(s): Ventero Creek

Total Project Cost: \$2,282,000

Funding Sources: Construction Fund & WSRA
(Basin & Statewide funds)

Type of Borrower: Agricultural

Average Diversions: 15,000 AF

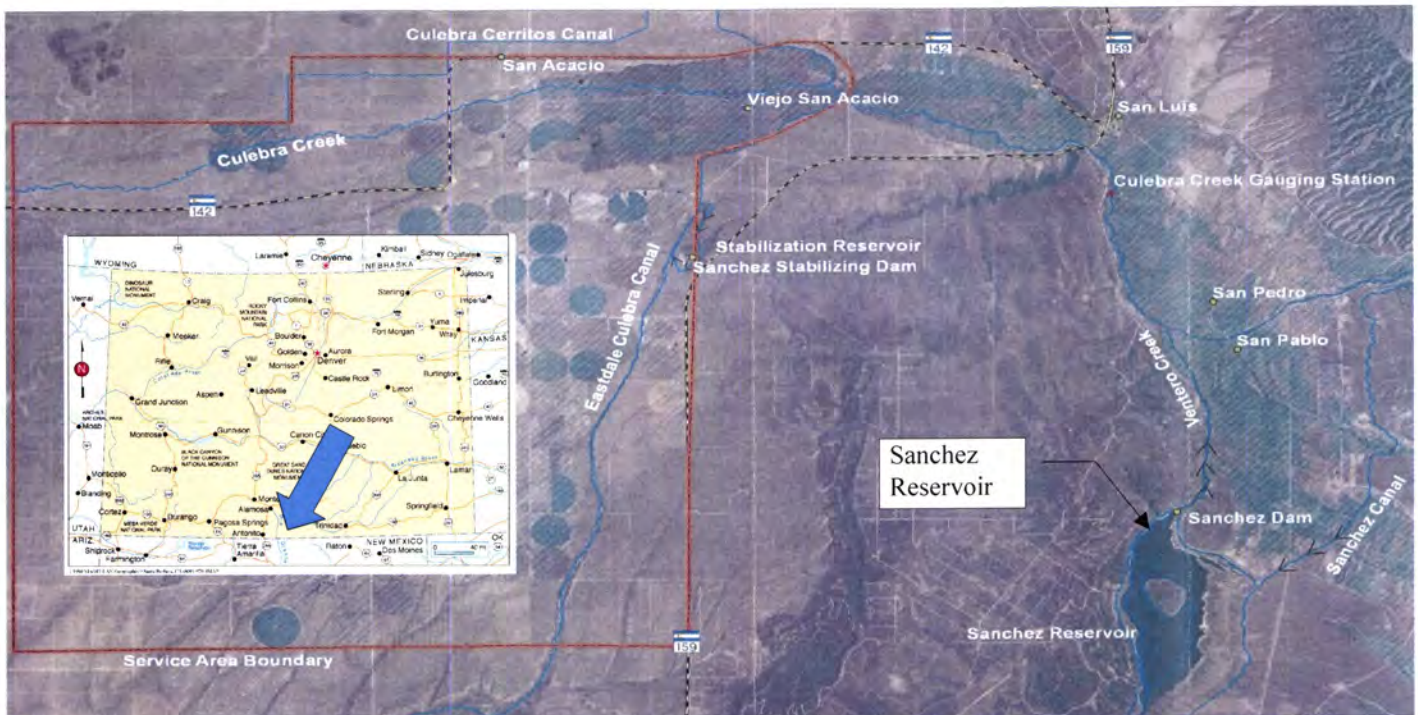
Loan Amount: \$1,381,276 (Including 1% fee)

(Interest Rate Increased by 0.25% for longer term)

Interest Rate: 2.0% **Term:** 40 years

WSRA Grant Amounts: \$55,000 Rio Grande Basin & \$859,400 Statewide

The 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 outlet includes a 135 foot tall concrete gate tower. In order to access the gates to operate the dam, a tramway/gondola runs along a cable and is powered by a portable gasoline generator. Because daily access to the tower is required during irrigation season, the reliability and safety of the gondola system has been a concern of the Company. Using loan and grant funds, the Company intends to address the safety and operational management concerns at the reservoir through the demolition of the gate tower; the installation of new control gates and operators; patching the outlet conduit; repairing the downstream outlet structure; and, installing a new perimeter drain and weir along the right side of the outlet structure to control seepage. The project schedule is estimated as: final design and State Engineer's Office (SEO) approval by August 2014; bid the project in May of 2014; award the bid by August of 2014; start construction in September of 2014; complete construction by March of 2015.



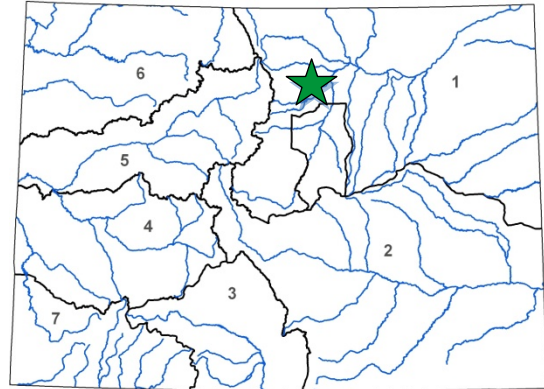


Lake 4 Outlet Pipeline Repair

St. Vrain and Left Hand Water Conservancy District

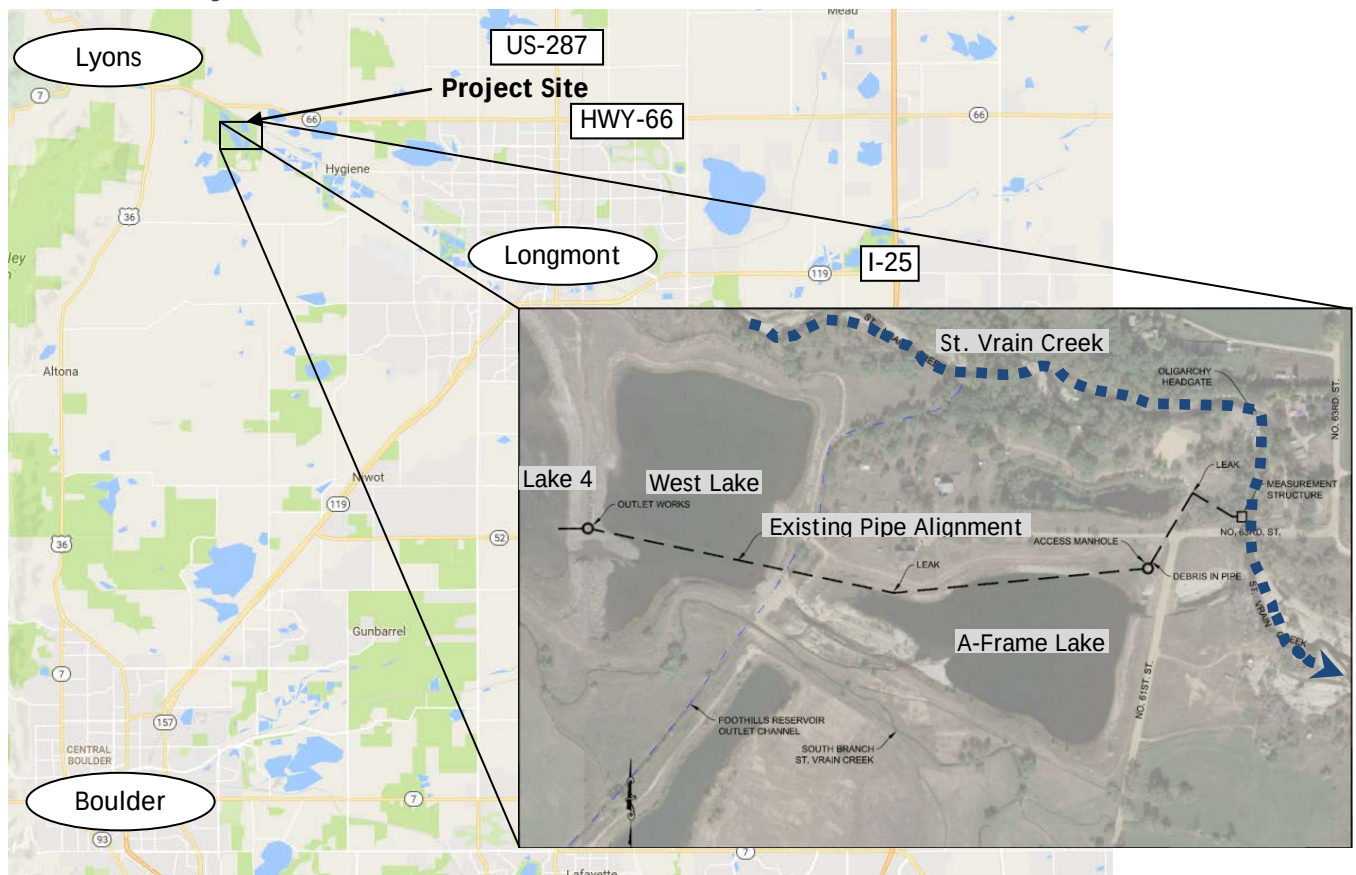
January 2017 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$912,000
CWCB Loan (with Service Fee):	\$619,130
Loan Term and Interest Rate:	30 Years @ 2.85%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 0% Mid - 97% High
	3%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Delivery:	182 AF
Storage Preserved:	600 AF



L O C A T I O N	
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 included a half-mile-long 18-inch reinforced concrete pipe approximately extending from the dam to the St. Vrain Creek. The District and County recently inspected the outletworks pipeline 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

County: Boulder

Project Type: Reservoir Rehabilitation

Water Source: St. Vrain Creek

Total Project Cost: \$9,000,000

Funding Source: Severance Tax Perpetual
Base Fund

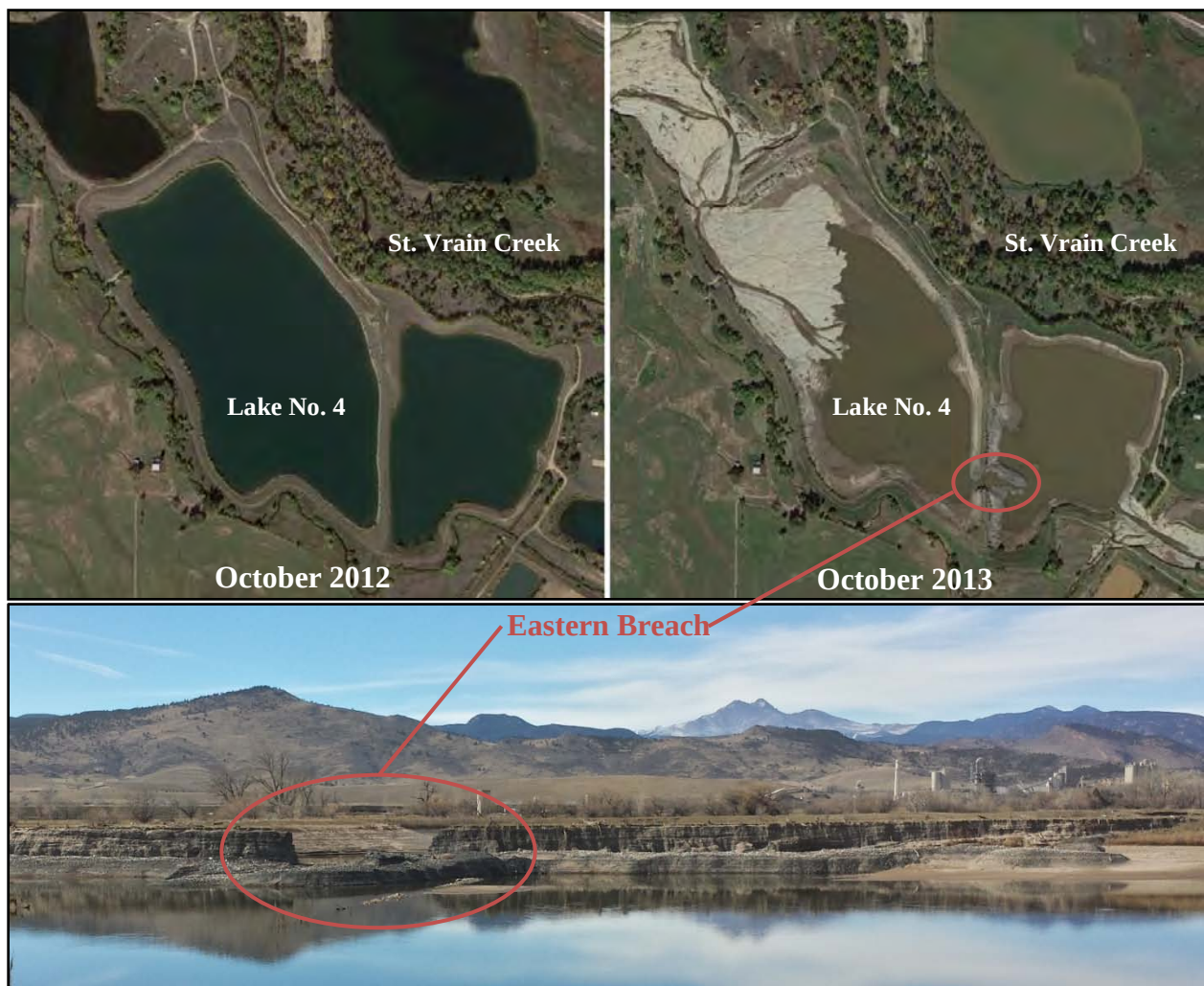
Type of Borrower: Blended

Average Annual Augmentation: 200 AF
Preserved Water Supply Storage: 600 AF

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

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.

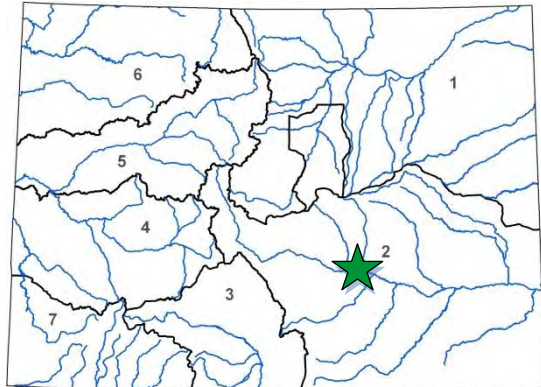




Arkansas Valley Conduit Phase One Pueblo Dam Hydroelectric Project

Southeastern Colorado Water Conservancy District
July 2016 Board Meeting

L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Hydropower	
P R O J E C T D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production:	28M KWh



L O C A T I O N	
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



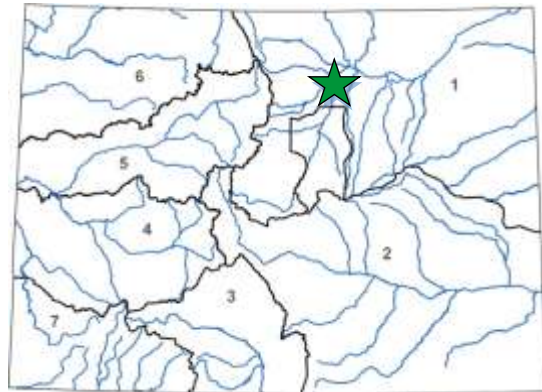


Storage Development and Water Rights Purchase

Town of Firestone

November 2016 Board Meeting

L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 0% Mid - 100% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Storage and Water Rights Purchase
Average Annual Delivery:	2442 AF
Storage Created:	1092 AF



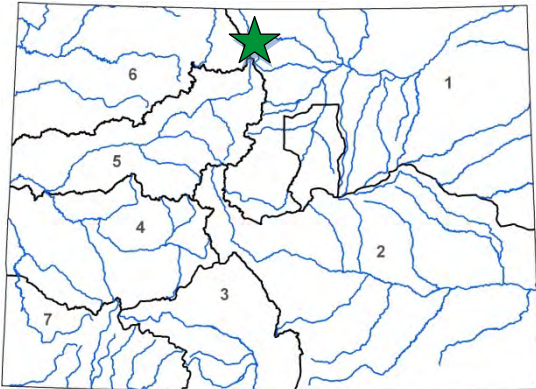
L O C A T I O N	
County:	Weld
Water Source:	St. Vrain River / Boulder Creek
Drainage Basin:	South Platte River
Division:	1 District: 2

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.





L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
24%	20% Low - 24% Mid - 32% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	6,875 AF



L O C A T I O N	
County:	Larimer
Water Source:	Laramie River
Drainage Basin:	North Platte/South Platte
Division:	1 District: 48/3

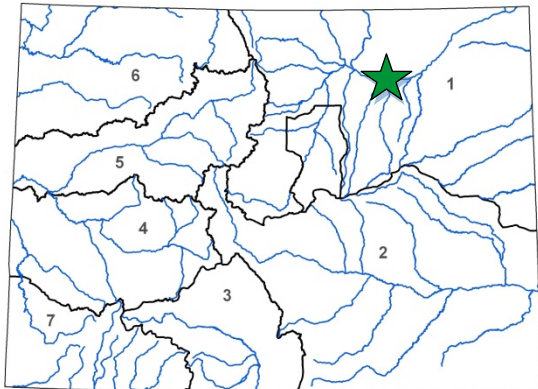
The Tunnel Water Company operates the Laramie-Poudre Tunnel for the benefit of its two shareholders: Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). The tunnel diverts from the Laramie River, about 60 miles west of Fort Collins, and delivers water through a 2.15-mile 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.





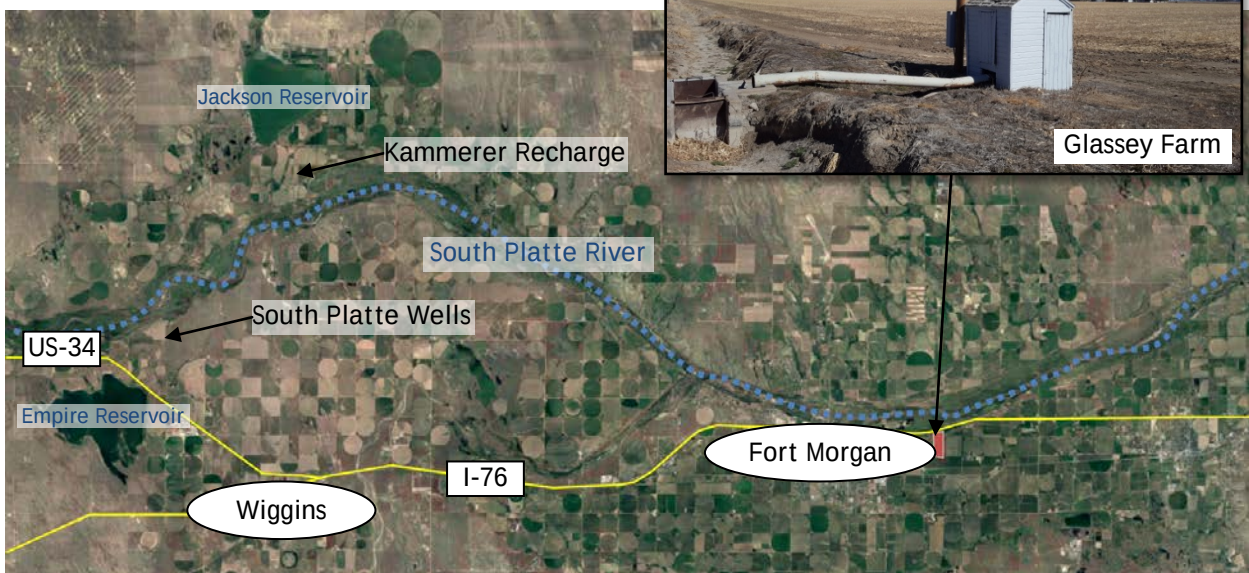
L O A N D E T A I L S	
Project Cost:	\$2,385,000
CWCB Loan:	\$2,408,850
Loan Term and Interest Rate:	30 Years @ 2.40%
Funding Source:	Severance Tax PBF
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Augmentation
Average Annual Delivery:	140 AF



L O C A T I O N	
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

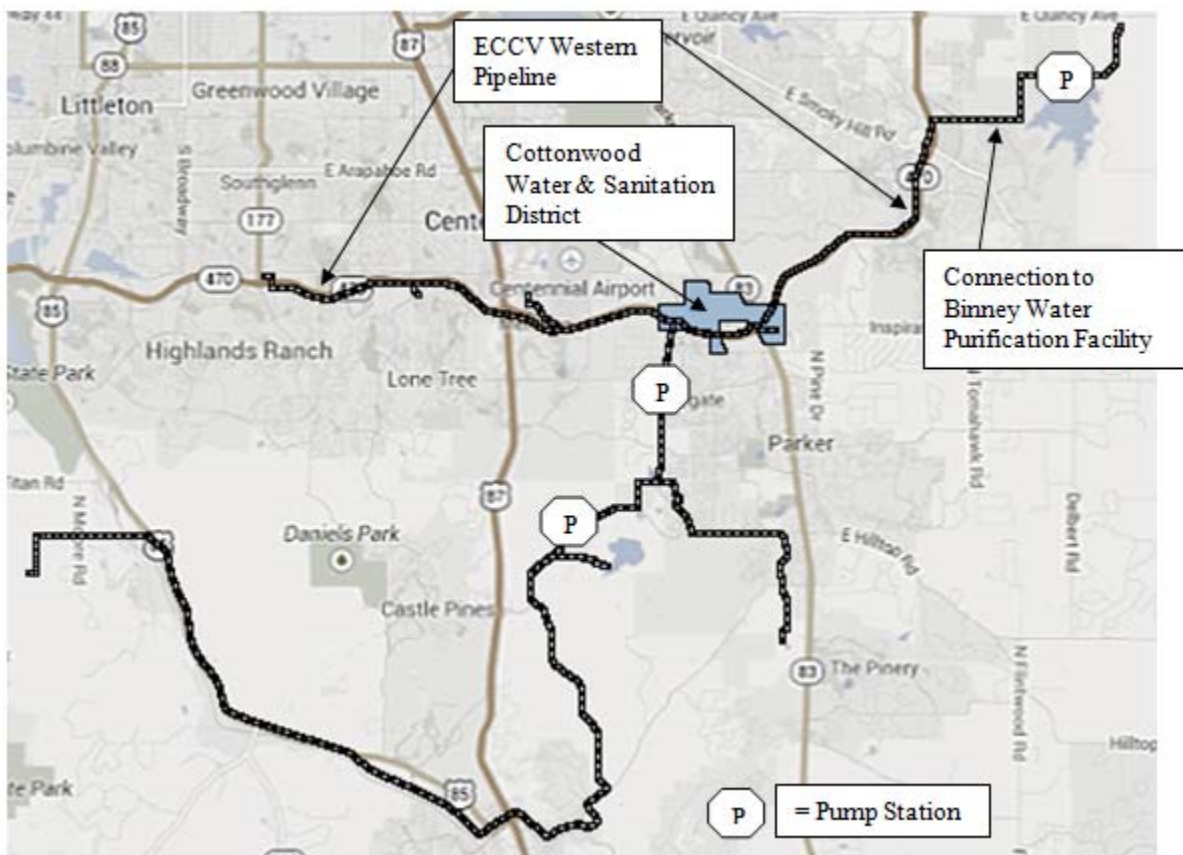
Average Annual Delivery: 789 AF

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

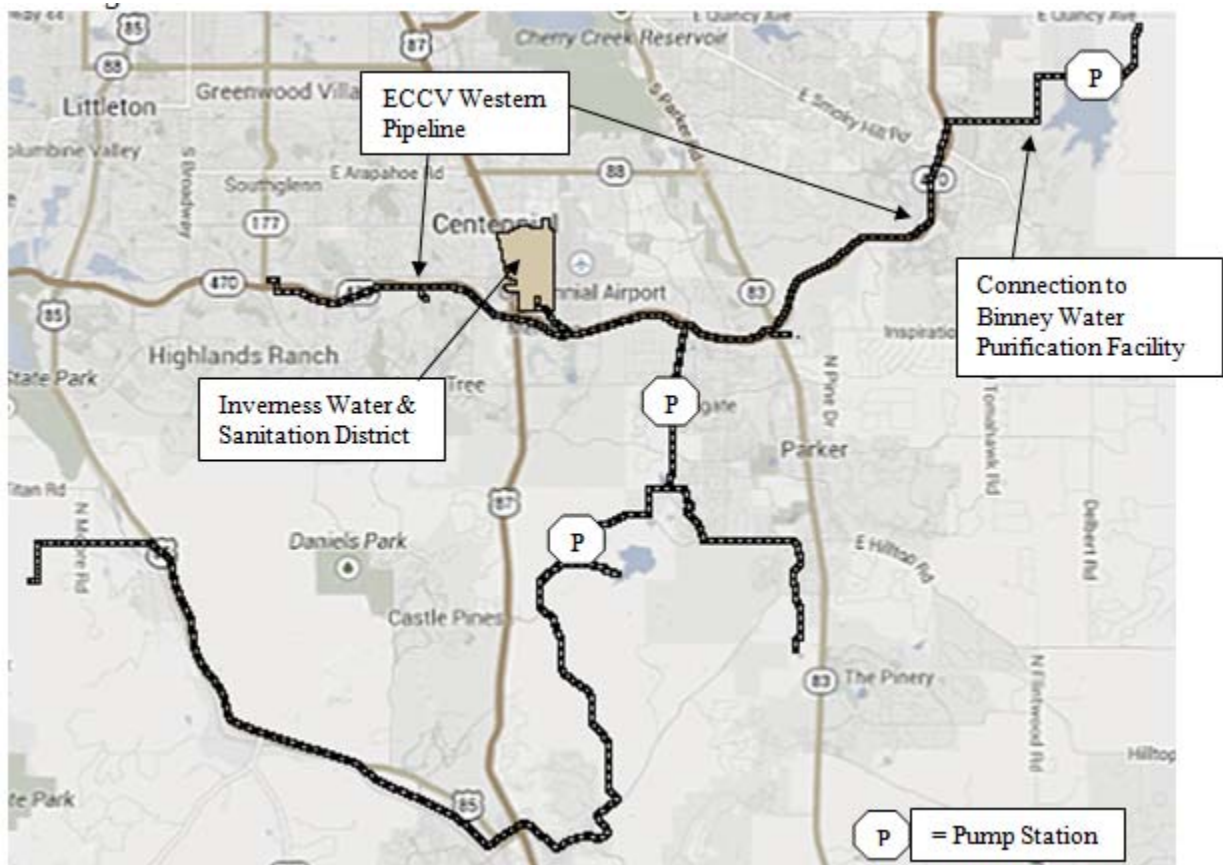
Average Annual Delivery: 1,100 AF

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

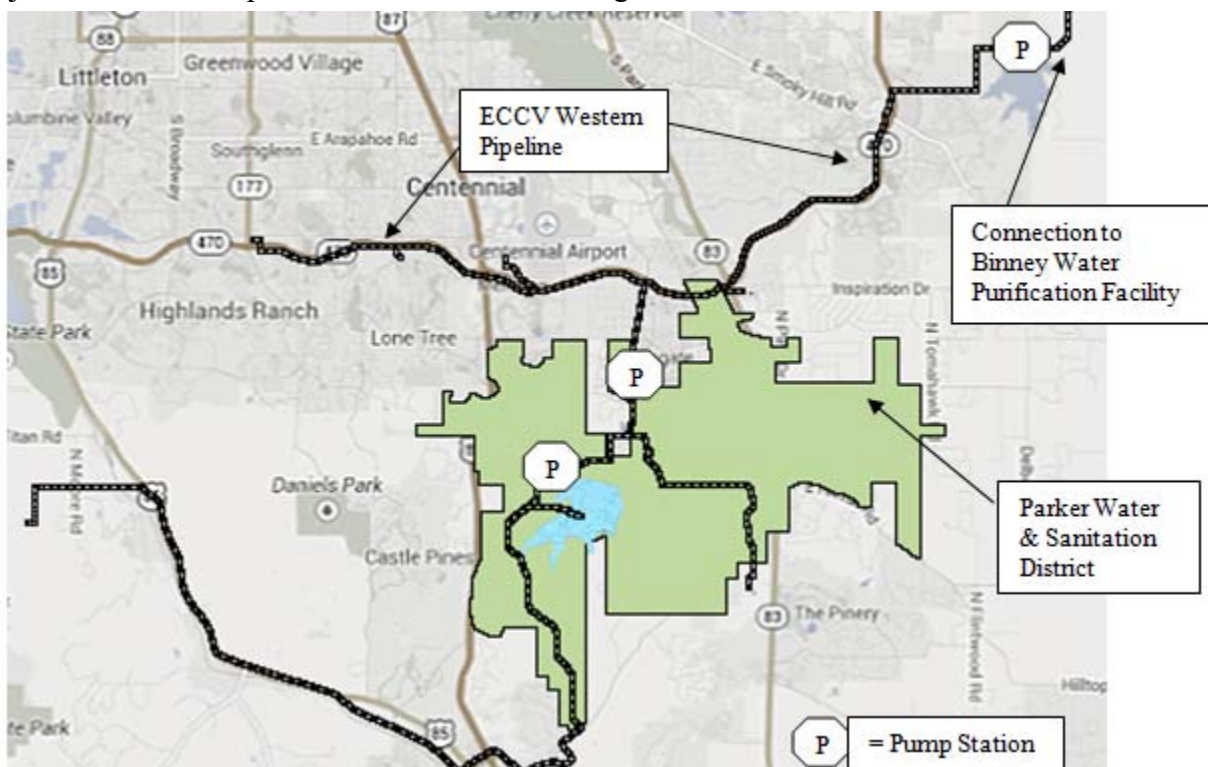
Type of Borrower: High-income Municipal **Average Annual Delivery:** 5,000 AF

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**

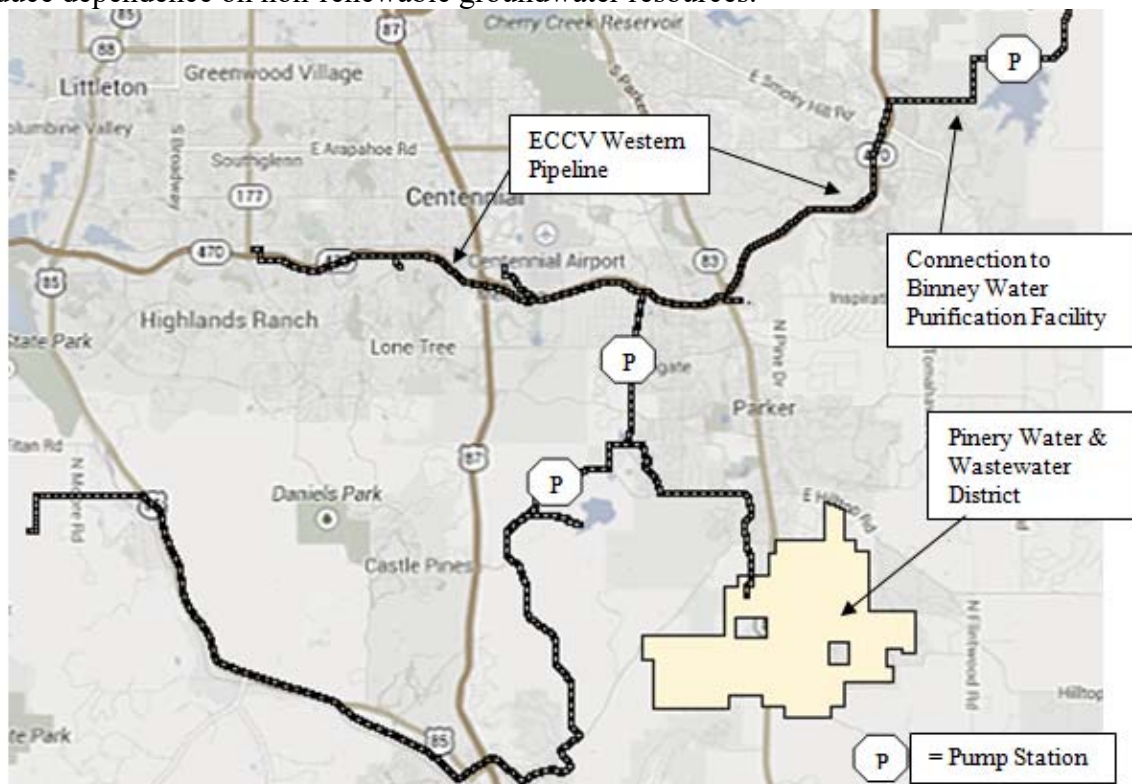
C150411

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 Reuter-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.

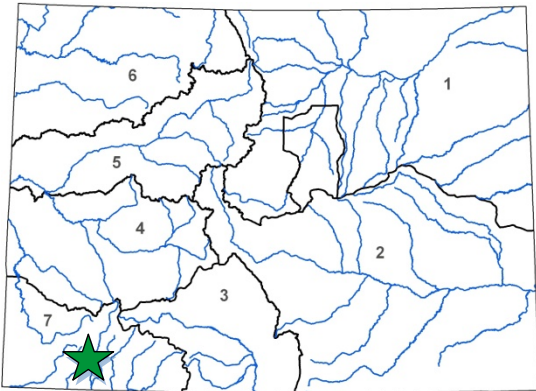
The WISE Project is the result of regional cooperative planning efforts between Denver Water, Aurora Water, and 10 regional water providers in the south metropolitan area. The South Metro WISE Authority (WISE Authority) is comprised of ten governmental water providers in Douglas and Arapahoe Counties bound together by a 2013 Intergovernmental Agreement. The WISE Project will reduce dependence on non-renewable groundwater resources.



Projects Not Under Contract

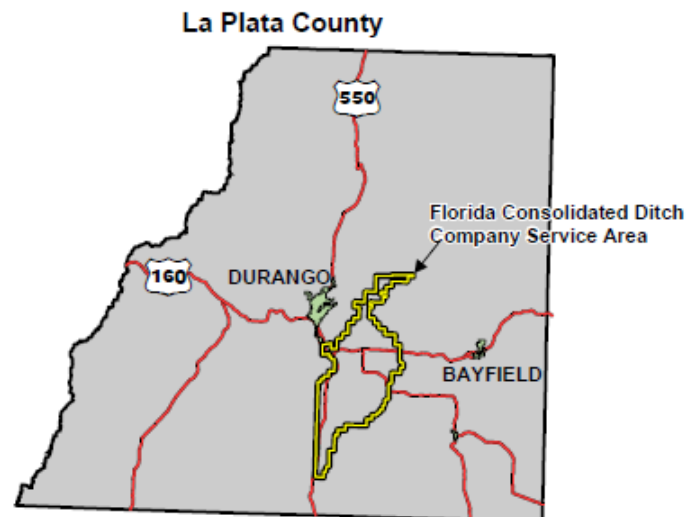
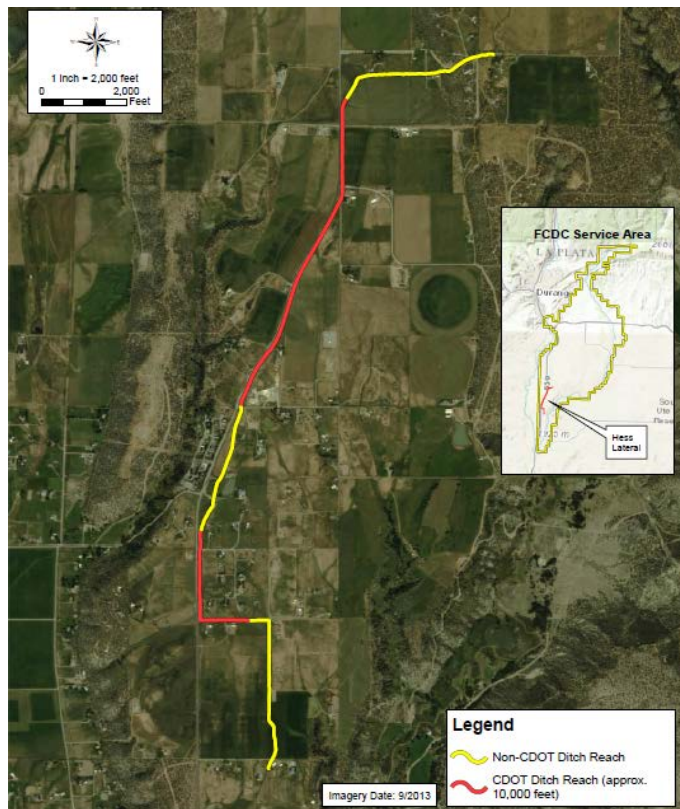


L O A N D E T A I L S	
Project Cost:	\$2,800,000
CWCB Loan:	\$1,085,750
Loan Term and Interest Rate:	30-years @ 1.80%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
100%	0%
Commercial	
0%	
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	43,000 AF



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.

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



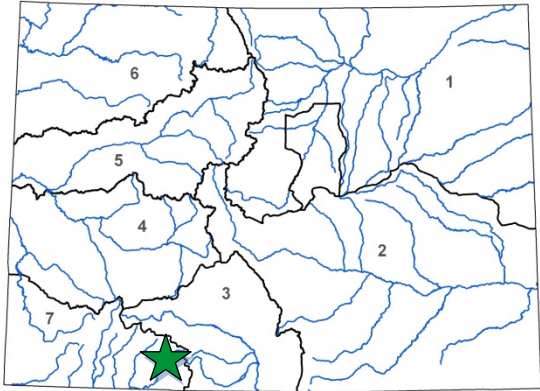


Dry Gulch Reservoir Land Acquisition

San Juan Water Conservancy District

May 2017 Board Meeting

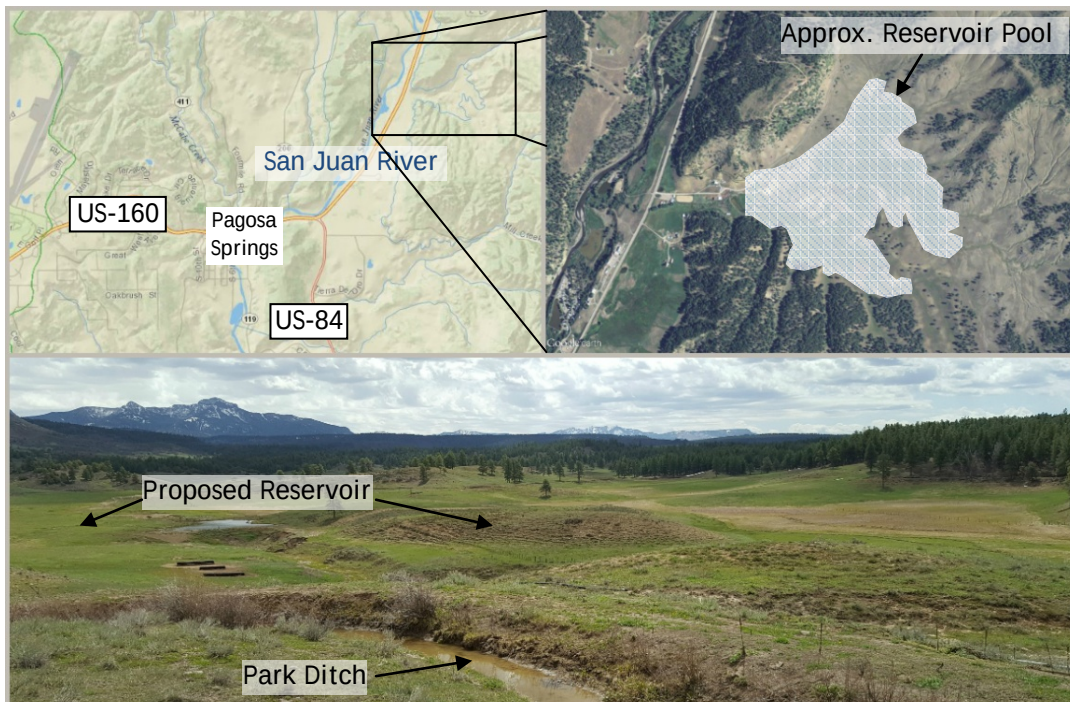
L O A N D E T A I L S	
Project Cost:	\$2,000,000
CWCB Loan (with Service Fee):	\$2,000,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Water Storage Land Acquisition
Average Annual Delivery:	NA



L O C A T I O N	
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



City Lake Dam Rehabilitation & Enlargement

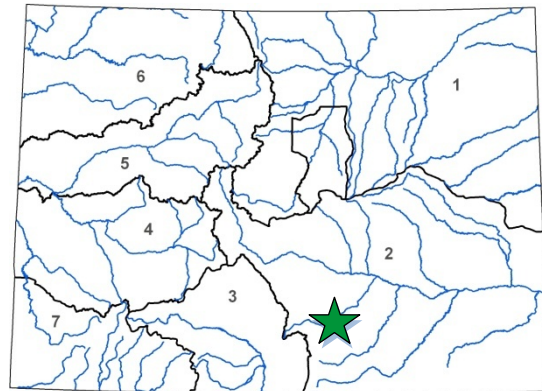
City of Walsenburg
July 2017 Board Meeting

L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Reservoir 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.

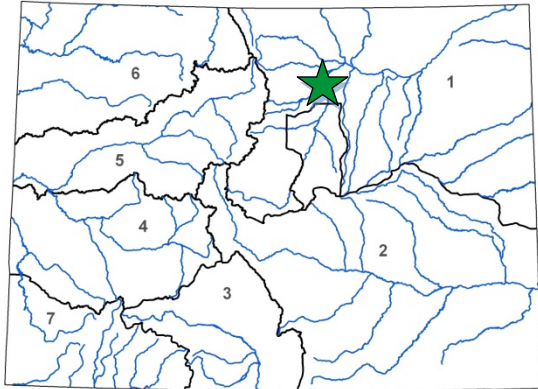


L O C A T I O N	
County:	Huerfano
Water Source:	Cucharas River
Drainage Basin:	Arkansas River
Division:	2
District:	16





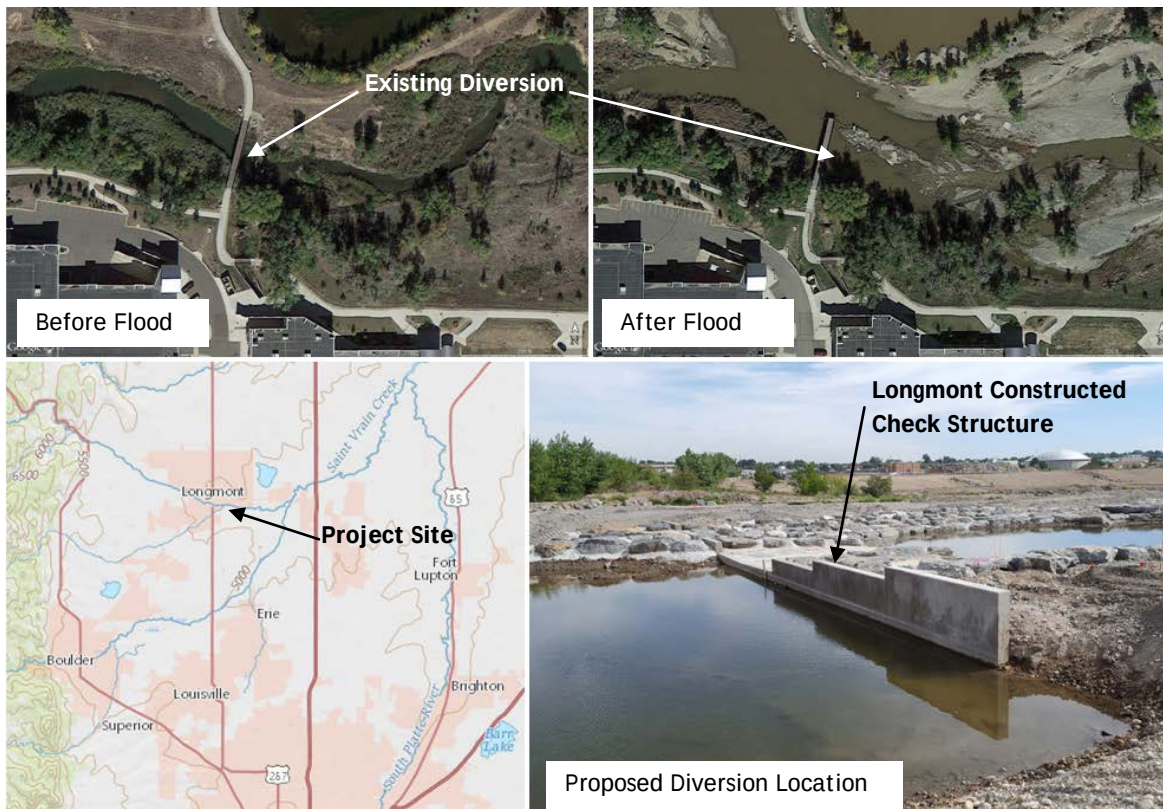
L O A N D E T A I L S	
Project Cost:	\$1,297,000
CWCB Loan (with Service Fee):	\$1,309,970
Loan Term and Interest Rate:	30 Years @ 2.90 %
Funding Source:	Severance Tax PBF
B O R R O W E R T Y P E	
Agriculture	Municipal
2%	0% Low - 52% Mid -46% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	2,221 AF



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.

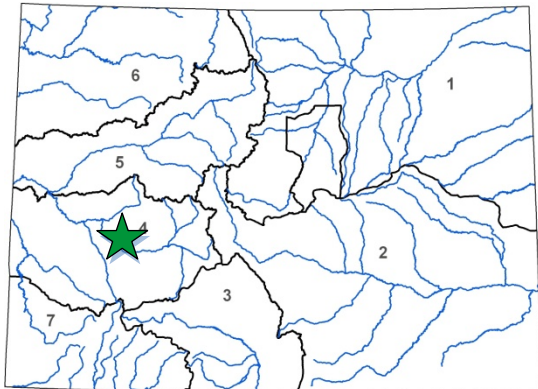
The Company is working with Longmont under the Resilient St. Vrain (RSV) project, a multi-year project to fully restore the St. Vrain Greenway trails and improve the St. Vrain Creek channel to protect people and property from future flooding. The Company's diversion structure is located with the "City 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.

L O C A T I O N	
County:	Boulder
Water Source:	St Vrain Creek
Drainage Basin:	South Platte
Division:	1
District:	5





L O A N D E T A I L S	
Project Cost:	\$10,509,000
CWCB Loan (with Service Fee):	\$1,774,671
Loan Term and Interest Rate:	40 Years @ 2.0%
Funding Source:	Severance Tax PBF and WSRF Grant
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
100%	0% Low - 0% Mid -0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	10,103 AF



L O C A T I O N	
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

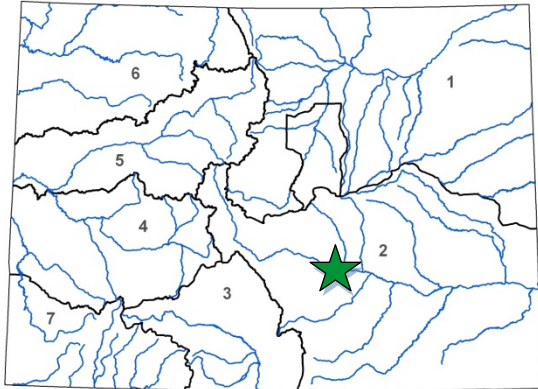




Arkansas River and Wildhorse Creek Levee Rehabilitation

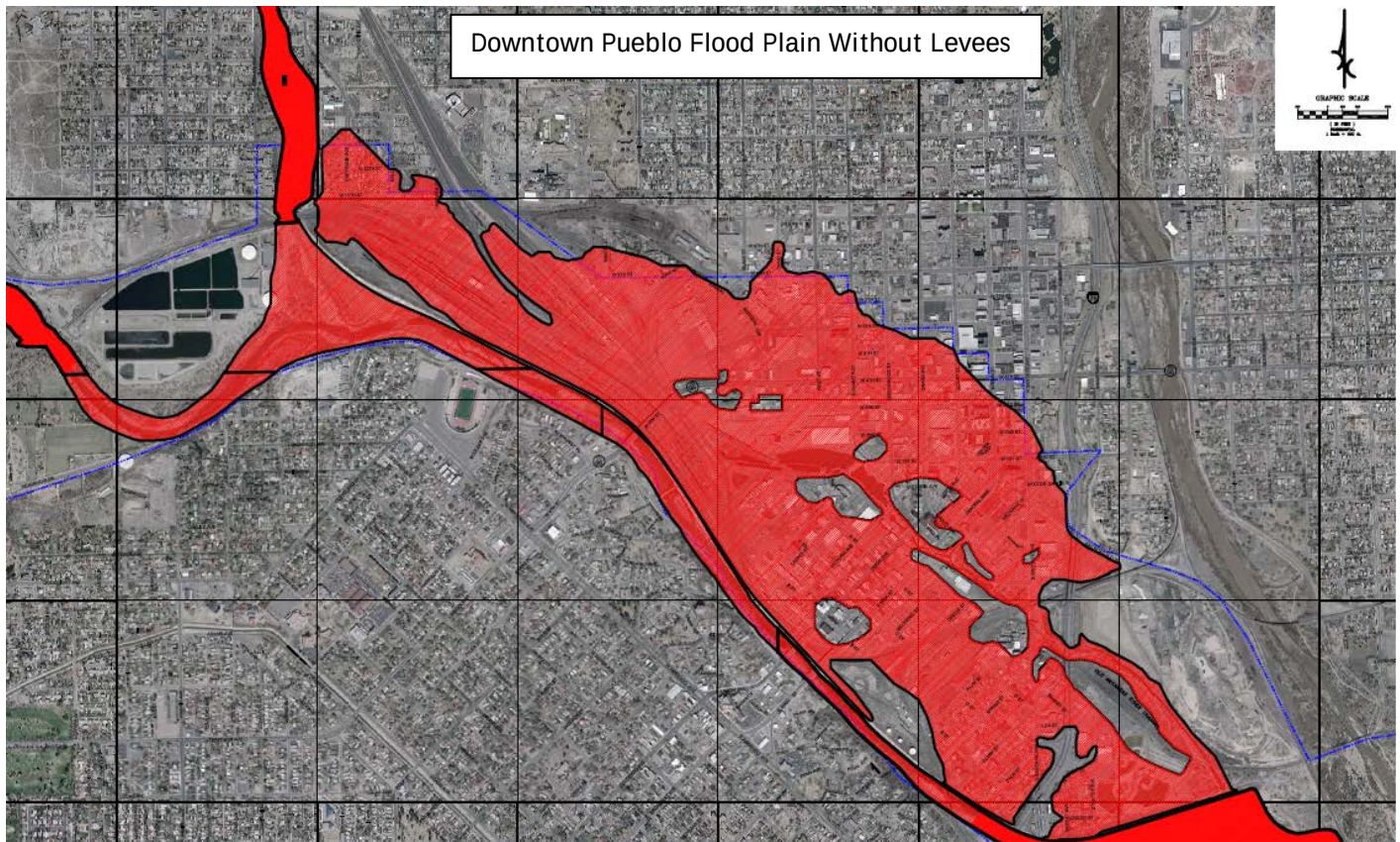
Pueblo Conservancy District
September 2017 Board Meeting

L O A N D E T A I L S	
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
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - TBD% Mid -0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Flood Control
Average Annual Diversions:	N/A



L O C A T I O N	
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 Wildhorse Creek levees were accredited by the Federal Emergency Management Agency (FEMA), the City would lose its 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.



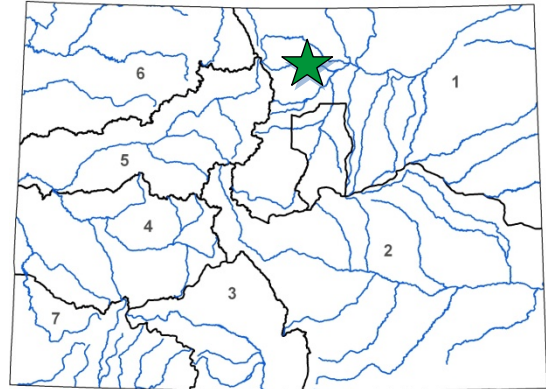


COLORADO

Colorado Water
Conservation Board
Department of Natural Resources

Windy Gap Firing Project Municipal Subdistrict, Northern Colorado Water Conservancy District Windy Gap Firing Project Water Activity Enterprise November 2017 Board Meeting

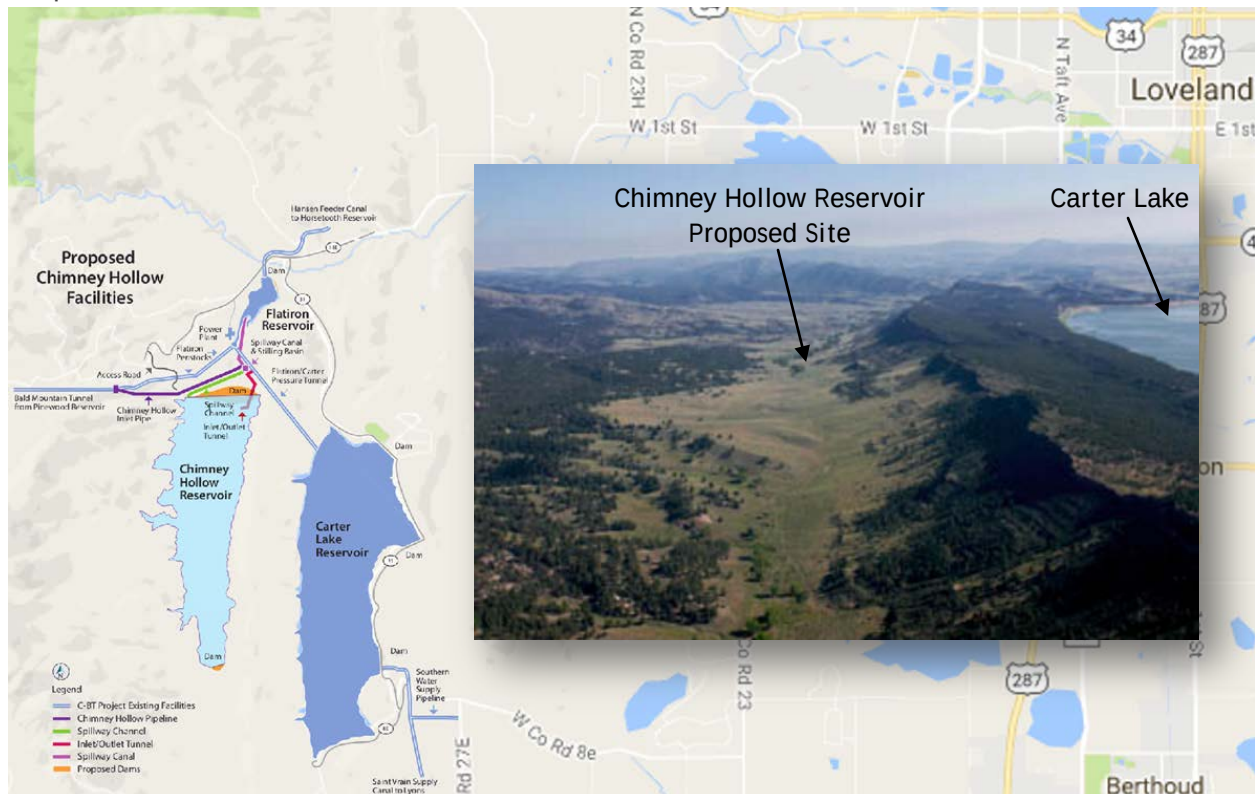
L O A N D E T A I L S	
Project Cost:	\$440,000,000
CWCB Loan (with Service Fee):	\$90,000,000
Loan Term and Interest Rate:	30 years @ 3.10%
Funding Source:	Revenue Bonds & Construction Fund Loan
B O R R O W E R T Y P E	
Municipal	
P R O J E C T D E T A I L S	
Project Type:	New Reservoir
New Storage Capacity:	90,000 AF



L O C A T I O N	
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 Firing 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.



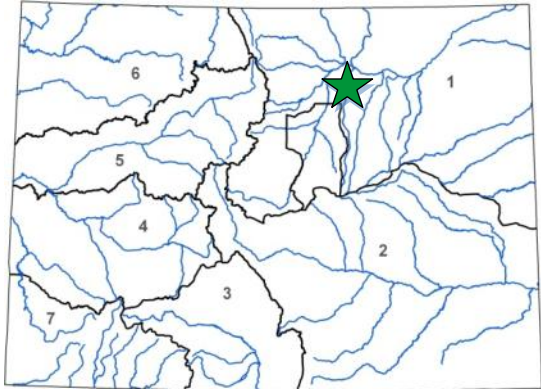


Well Augmentation Subdistrict of Central Colorado Water Conservancy District

Shores Lakes Pond C Infrastructure Improvement

January 2018 Board Meeting

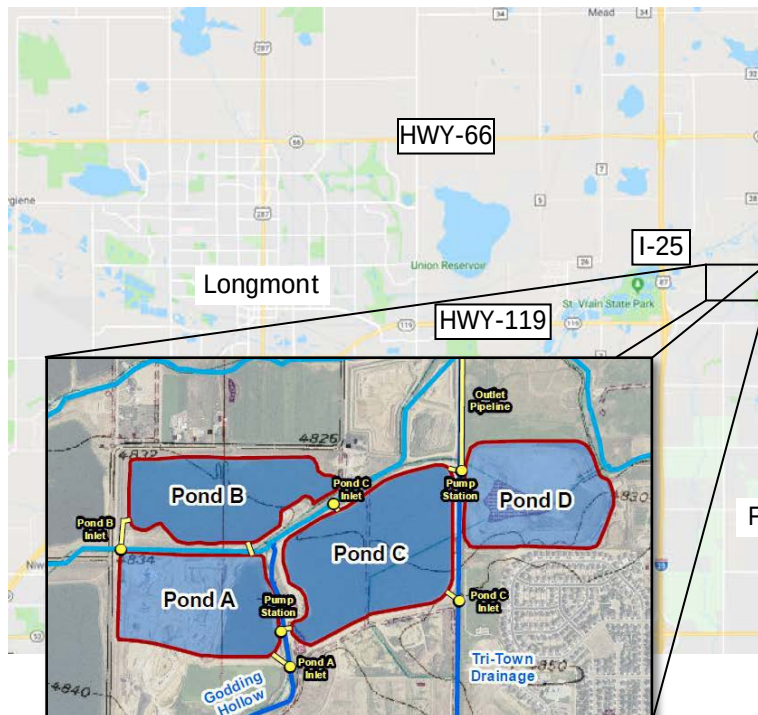
L O A N D E T A I L S	
Project Cost:	\$3,430,000
CWCB Loan (with Service Fee):	\$2,367,440
Loan Term and Interest Rate:	30 years @ 1.65%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
100%	0 % Low - 0% Mid -0% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Storage Maintained:	4,500 AF



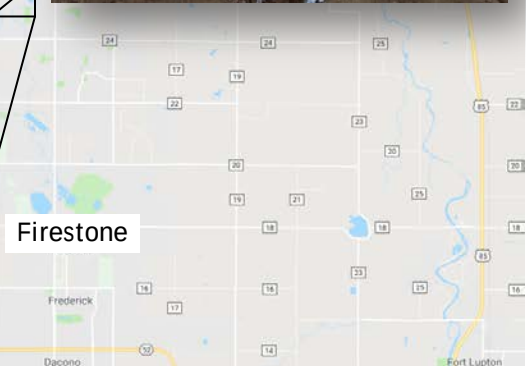
L O C A T I O N	
County:	Weld
Water Source:	South Platte River
Drainage Basin:	South Platte
Division:	1
District:	2

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.



Pond C Temporary Outlet



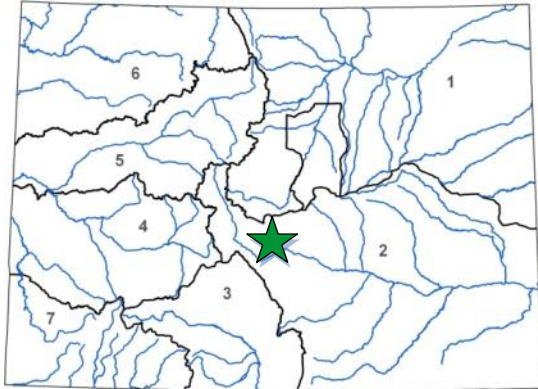


Bessemer Irrigating Ditch Company

Landslide Stabilization and Ditch Lining Project

January 2018 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$900,000
CWCB Loan (with Service Fee):	\$909,000
Loan Term and Interest Rate:	20 years @ 1.65%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
62%	38% Low - 0% Mid -0% High
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	71,600 AF



L O C A T I O N	
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.



**WATER PROJECT CONSTRUCTION LOAN PROGRAM
LOAN REPAYMENT DELINQUENCY REPORT
LOAN FINANCIAL ACTIVITY REPORT
MARCH 2018**

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2017 through February 2018. 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 the first eight months of Fiscal Year 2018 totaled 199. There was one loan payment not received on time during this period. The loan payment from Fuchs Ranches, Inc. was less than 30 days late. Thus, the on-time performance for the total repayments due was 99% in compliance or 1% not in compliance.

LOAN FINANCIAL ACTIVITY

Loan Financial Activity relative to the Water Project Construction Loan Program for Fiscal Year 2018 is summarized as follows: Funds received relative to loans in repayment totaled \$22.7 M for this year. Funds disbursed relative to new project loans totaled \$21.0 M for this year. Net activity resulted in \$1.7 M received by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total disbursed.

Further breakdown is summarized as follows: The Construction Fund portion consists of \$15.0 M in receivables and \$3.7 M in disbursements for a total net activity of \$11.3 M received over disbursed. The STPBF consists of \$7.7 M in receivables and \$17.3 M in disbursements for a total net activity of \$9.6 M disbursed over received.

COLORADO WATER CONSERVATION BOARD

FINANCIAL ACTIVITY REPORT FOR FISCAL YEAR 2018

CONSTRUCTION FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2017	\$ 865,621	\$ 495,858	\$ 1,361,479	\$ -	\$ 1,361,479
August 2017	\$ 4,115,117	\$ 164,144	\$ 4,279,261	\$ 1,811,633	\$ 2,467,629
September 2017	\$ 1,075,737	\$ 1,590,612	\$ 2,666,348	\$ 211,542	\$ 2,454,807
October 2017	\$ 766,163	\$ 150,209	\$ 916,372	\$ 395,859	\$ 520,513
November 2017	\$ 1,914,351	\$ 933,157	\$ 2,847,508	\$ 19,724	\$ 2,827,783
December 2017	\$ 469,665	\$ 471,879	\$ 941,544	\$ 423,832	\$ 517,712
January 2018	\$ 594,892	\$ 333,192	\$ 928,084	\$ 676,607	\$ 251,476
February 2018	\$ 690,024	\$ 377,672	\$ 1,067,695	\$ 182,204	\$ 885,492
March 2018	\$ -	\$ -	\$ -	\$ -	\$ -
April 2018	\$ -	\$ -	\$ -	\$ -	\$ -
May 2018	\$ -	\$ -	\$ -	\$ -	\$ -
June 2018	\$ -	\$ -	\$ -	\$ -	\$ -

FY 2018 Totals	\$ 10,491,569	\$ 4,516,722	\$ 15,008,291	\$ 3,721,400	\$ 11,286,891
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SEVERANCE TAX PERPETUAL BASE FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2017	\$ 65,586	\$ 33,608	\$ 99,194	\$ -	\$ 99,194
August 2017	\$ 2,963,482	\$ 910,785	\$ 3,874,267	\$ 1,475,304	\$ 2,398,963
September 2017	\$ 456,050	\$ 505,677	\$ 961,727	\$ 686,539	\$ 275,188
October 2017	\$ 173,878	\$ 151,787	\$ 325,666	\$ 5,439,351	\$ (5,113,685)
November 2017	\$ 283,642	\$ 83,985	\$ 367,627	\$ 1,575,331	\$ (1,207,704)
December 2017	\$ 712,814	\$ 288,436	\$ 1,001,250	\$ 2,170,319	\$ (1,169,069)
January 2018	\$ 94,988	\$ 74,396	\$ 169,384	\$ 2,409,449	\$ (2,240,065)
February 2018	\$ 705,594	\$ 240,698	\$ 946,292	\$ 3,583,037	\$ (2,636,745)
March 2018	\$ -	\$ -	\$ -	\$ -	\$ -
April 2018	\$ -	\$ -	\$ -	\$ -	\$ -
May 2018	\$ -	\$ -	\$ -	\$ -	\$ -
June 2018	\$ -	\$ -	\$ -	\$ -	\$ -

FY 2018 Totals	\$ 5,456,036	\$ 2,289,372	\$ 7,745,408	\$ 17,339,331	\$ (9,593,923)
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GRAND TOTALS	\$ 15,947,605	\$ 6,806,094	\$ 22,753,699	\$ 21,060,731	\$ 1,692,968
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