

COLORADO

Colorado Water Conservation Board

Department of Natural Resources

DIRECTOR'S REPORT

May 2017

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



TO: Colorado Water Conservation Board Members

FROM: Lauren Ris

Erik Skeie

DATE: May 17-18, 2017

SUBJECT: Agenda Item 7d, May 2017 CWCB Board Meeting Director's Report

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~INTERSTATE AND FEDERAL~

U.S.-MEXICO, MINUTE 32X NEGOTIATIONS— Representatives from the United States, Mexico, and the Colorado River Basin States remain engaged in negotiations regarding "Minute 32X," an agreement that would extend and replace Minute 319. Minute 319 is a binding agreement between the U.S. and Mexico which helps implement the 1944 Water Treaty between the two countries, including considerations for operations during both high and low reservoir conditions, salinity, environmental projects, and other issues. Minute 319 will remain in effect through December 31, 2017 unless another Minute replaces it prior to expiration.

CWCB Staff is working with the other Basin States to reach agreement on the language in the draft Minute 32X, and four accompanying domestic agreements that will facilitate implementation of the agreements in the United States. The goal is to have the content of the Minute and side agreements defined well in advance of the Colorado River Water Users' Association meeting in mid-December. (*Carlee Brown*)

COLORADO RIVER BASIN DROUGHT CONTINGENCY PLANNING— The Upper and Lower Basins of the Colorado River have been engaged in drought contingency planning on separate tracks for the past several years. The Upper Colorado River Basin Emergency Drought Contingency Response draft plan involves reservoir operational adjustments, demand management, and supply augmentation (such as the weather modification program).

Colorado and the other Basin States continue to work through the details of a "companion agreement" that would tie together the two draft plans and define the requirements for notification and consultation in each Basin's plan. The goal is to complete the companion agreement, the Lower Basin Drought Contingency Plan, and the Upper Basin Drought Contingency Response plan in advance of the Colorado River Water Users' Association meeting in mid-December. (*Carlee Brown*)

GLEN CANYON DAM ADAPTIVE MANAGEMENT PROGRAM: TRIENNIAL BUDGET AND WORK PLAN— Colorado is actively engaged in setting the course for the next three years of the Glen Canyon Dam Adaptive Management Program (GCDAMP). The GCDAMP is responsible for implementing the Grand Canyon Protection Act (GCPA), monitoring the operation of Glen Canyon Dam (GCD), ensuring that the dam is operated in compliance with laws and regulations, and mitigating any significant environmental impacts. In December 2016, the Secretary of Interior issued a Record of Decision for the Long-term Experimental and Management Plan (LTEMP) that provides a comprehensive framework for adaptively managing GCD in order to determine specific dam operations that could be implemented to improve conditions for resources in the Colorado River Ecosystem. The Grand Canyon Monitoring and Research Center (GCMRC) conducts much of the research within the GCDAMP; the Bureau of Reclamation conducts operations.

Together, GCMRC and Reclamations are developing a Triennial Work Plan (TWP) and budget that must adhere to the priorities set in legislation and the LTEMP. The agencies are working with Colorado and other states and stakeholders in order to complete the TWP. The final TWP will be presented to the Adaptive Management Work Group – the group of state and stakeholder principals involved in the GCDAMP— at their July meeting. CWCB staff is working to ensure that the limited budget is spent on projects that will help inform dam operations and will stay within the scope defined in the GCPA and LTEMP. (*Carlee Brown*)

~STATEWIDE~

GROUND WATER COMMISSION MEETING— The Ground Water Commission (GWC) has not held a regular meeting since the last CWCB meeting. The Ground Water Commission will hold its next regular meeting on May 18, 2017 in Denver, CO. For more information visit: http://water.state.co.us/groundwater/CGWC/Pages/default.aspx. (Suzanne Sellers)

compact of colorado communities: climate communities summit— Staff will attend the kick off meeting for this collaborative of Colorado communities, May 18-19. They will work to ensure that city and county efforts to address climate change, resilience to extreme events and grow a clean energy economy throughout Colorado are greater than the sum of their individual efforts. The mission of the compact is to advance capacity of Colorado cities and counties to develop and implement aggressive climate change initiatives thus ensuring security and economic prosperity. The Compact ensures that Colorado communities are sustainable, prosperous and responsible through accelerated capacity building, alignment of resources and interests, and public engagement on climate change action. State agencies are working closely with the organizers and the Governor's Office to determine how to best support and engage with these efforts. (*Taryn Finnessey*)

~COLORADO RIVER BASIN~

COLORADO RIVER WATER USE—

2017 Colorado River Storage as of March 5, 2017			
	Elevation (feet above mean sea level)	Storage (MAF)	Percent of Capacity
Lake Mead	1084.89	10.420	40%
Lake Powell	3,604.14	12.149	50%
Total System Active Storage		30.440	51%
2016 Total Active Storage		28.625	48%
		Flow (MAF)	Percent of Average
Forecasted Unregulated Inflow into Powell		12.968	120%

Forecasted CY 2017 Lower Basin Consumptive Use				
State	Use (MAF)	Total (MAF)		
Arizona	2.658			
California				
California Agricultural	3.265 3.913	6.849		
Metro. Water District	0.528			
Nevada	0.278	}		

^{*}Note MAF = million acre-feet (*Erik Skeie*)

COLORADO RIVER HYDROLOGY SYMPOSIUM— Staff will participate in this two day discussion, May 22-23, on hydrologic research and modeling with leading experts to examine ways to improve snow data and modeling, midterm meteorologic forcing, long-term hydrologic projections for planning, the influence of increased temperatures on streamflow and evapotranspiration. (*Taryn Finnessey*)

~PLATTE RIVER BASIN~

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM— The Platte River Recovery Implementation Program (PRRIP) Governance Committee (GC) held its regularly scheduled meeting on March 7-8, 2017, in Kearney, NE and held a conference call on April 6, 2017. During the regular March meeting, the GC vote to approved two manuscripts for publication, shift the focus from purchasing wet meadows lands to off-channel tern and plover nesting habitat, defer updates of the complex management plans, pursue acquisition of Tract W1606, and initiate gravel pit mining operations on Tract W1602. The GC also received regular updates and discussed the 2015 State of the Platte Report, the first increment extension and the 2016 Land Work Report. During the April conference call, the GC voted to approve a Broad-Scale Recharge (BSR) design contract and pursue acquisition of Tract W1703. CWCB staff also participated in Water Advisory Committee (WAC), Technical Advisory Committee (TAC), and Excess Lands Committee meetings and also a contractor selection panel. The next regular GC meeting will be held on June 6-7, 2017 in Cheyenne, WY. For more information, please visit:

http://www.platteriverprogram.org/Pages/default.aspx. (Suzanne Sellers)

~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE—

Two grant applications have been received since the January 2017 Director's Report

- City of Monte Vista –Water Efficiency Plan Update
- Center for Resource Conservation Turf Replacement Project

One grant has been approved since the March 2017 Director's Report

Community of Resource Efficiency – High Five Education & Outreach Campaign (\$7,700)

The following are deliverables sent to the CWCB since the last Board Meeting:

- Parker Water & Sanitation District Water Meter Replacement Program 75% Progress Report
- Western Resource Advocates Building Retrofit Best Practices Manual 50% Progress Report
- Metro State University One World One Water Center Colorado Water Laboratory 75% 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:

- City of Fort Collins
- North Table Mountain Water and Sanitation District
- East Larimer County Water District

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.

- Parker Water & Sanitation District
- City of Brighton

Water Efficiency Plans in review:

- Morgan County Quality Water District
- Widefield Water & Sanitation District (Kevin Reidy & Ben Wade)

GOVERNOR'S WATER AVAILABILITY TASK FORCE— The next Water Availability Task Force meeting on May 26th from 9:00am-11:30am at the Colorado Parks & Wildlife Headquarters, 6060 Broadway, Denver, CO in the Red Fox 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— With temperatures eight degrees above average, March of this year was the warmest March on record for the State of Colorado, and the second warmest on record for the nation. Late March precipitation brought much needed moisture, but the state as a whole received only 64 percent of average, in what is historically one of our wettest months. April to-date has also been dry. In Colorado, normal snow accumulation typically peaks around April 9th, yet in 2017 this occurred on March 11th, despite some recovery in late March and early April that gave the South Platte, Arkansas, and Rio Grande basins their respective peaks in early April. Additional snow accumulation is possible should adequate future weather conditions develop. Demand has already increased for municipal water providers, in some communities as much as 150 percent of average for this time of year; this is indicative of an increase in outdoor watering.

As of April 25, 27 percent of the state is experiencing abnormally dry conditions while 9 percent is classified as D1, or moderate drought. Neutral ENSO conditions are present, and are favored to continue through spring, with the possible development of an El Nino this summer. The April-June forecast looks mixed for the season, with the Climate Prediction Center (CPC) expecting more moisture than average, while statistical tools favor drier conditions, especially over the eastern plains. The monsoon season looks favorable based on CPC forecast and current analogues. Should an El Niño develop this summer, precipitation odds during the latter half of the growing season would become more favorable.

Core fire season in the mountains of western Colorado is anticipated to get off to a later than average start s a result of decent moisture over the winter. Consequently below average large fire risk is predicted from May through June. For the lower elevations, foothills and south eastern plains the expectation is for average large fire potential from April through July. (*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 is on the technical advisory group as well as the steering committee. At present time, Denver Water has created a model for quantifying water use through land use decisions. A group of water and land use planners walked through the model in January and the group received feedback on what could be improved. At present, the model is being finalized and the steering committee is reviewing a summary document of strategies that had the most support from the exploratory scenario phase. The group is determining the path forward and how to disseminate the results of the project once complete. (*Kevin Reidy*)

SB15-008 IMPLEMENTATION— Staff is working with counterparts from DOLA to create trainings 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. At present, CWCB Staff and DOLA staff have finalized 2 of the 3 modules and have produced 5 webinars with participation ranging from around 65 -100 participants for each one. The webinars and modules will be posted on the Colorado Water Plan site with links on the CWCB and DOLA sites. CWCB and DOLA will also convene a group of involved parties who have been working in the land use-water integration field to plan on how to spread the trainings across the state (*Kevin Reidy*)

CONFERENCES AND WORKSHOPS—

AWWA Sustainable Water Management Conference: New Orleans, LA; March 19-23: As a Trustee of the AWWA Water Conservation Division, staff attended the semi-annual meeting at this conference and also moderated 2 different panels of national experts on water loss management.

Arkansas River Basin Water Forum: April 27: Staff presented on a diverse panel of experts focusing on the water and land use nexus.

Next Generation Water Summit: Santa Fe, NM; June 3-5: Staff has been asked to present on Colorado's experience in land use and water policy integration. (*Kevin Reidy*)

ROCKY MOUNTAIN LAND INSTITUTE ANNUAL CONFERENCE— Staff will present on the land use-water supply planning nexus at the Rocky Mountain Land Institute's annual conference, March 15-17. Staff will be presenting on two separate panel discussions pertaining to the Colorado Growth Dialogue as well as the SB15-008 implementation. (*Kevin Reidy*)

~WATERSHED AND FLOOD UPDATES~

MAPPING UPDATE—

FY16 Activities: Upper White Watershed and St. Vrain Risk Map Phase III State task orders have been approved and work is under way to begin the last phase of these proejcts. CWCB is currently working on an RFQ process to select contractors for future LiDAR acquisitions.

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 will be available in early summer 2017.

FY15 Activities: The CWCB was awarded several FEMA grants this past year to fund Risk Map activities including: continuation of the Cache La Poudre Watershed Risk Map Project, develop approximate floodplain delineations in the Middle South Platte Watershed located in northeast Colorado, obtain IFSAR topographic data for over twenty un-modernized counties, continuation of Phase II of the flood forecasting tool development, and to begin Phase I of the Upper Gunnison Risk Map Project. Upper White Watershed and St. Vrain Risk Map Phase III scopes of work have been finalized and task orders are being finalized. CWCB is currently working on an RFQ process to select contractors for future LiDAR acquisitions.

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 will be made available on the Risk Map website. Survey work has been put on hold for the Upper White (Rio Blanco County) Risk Map study due to access issues and weather. A First Order Approximate (FOA) or countywide approximate mapping, for El Paso County will begin in the Spring 2016. 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 will be published in the Federal Register in the next couple of months and shortly after the appeal period will begin. Purgatoire Watershed and Pueblo County mapping projects are currently in review and are nearing the Preliminary phase.

FY12 Activities: The grant for Purgatoire Watershed was funded through floodplain mapping. All tasks have been completed for this grant. A new grant was approved in 2013 to complete this project to effective. The field survey and hydrologic tasks were approved for the Cache La Poudre watershed project. The City of Fort Collins has provided local survey data to supplement the hydraulic model. The floodplain mapping tasks are anticipated to be completed in early spring 2016. A new FEMA grant was approved in September 2015 to complete additional tasks to finalize the maps as FEMA effective products.

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. Work on Sunshine Canyon in now complete. Clear Creek Risk Map is in progress and the hydraulic analysis review has been completed by FEMA.

FY10 Activities: Chaffee and Pitkin Counties are now in the post preliminary phase. Both of these counties are awaiting the Federal Register posting before the appeal period will begin. Logan County Letter of Final Determination (LFD) was distributed on November 16, 2015. The maps are anticipated to become effective on May 16, 2016.

FY09 Activities: The Morgan County DFIRM has been converted to a seclusion project, which means a portion of the Wiggins levee will not be showing protection. The preliminary map package is being finalized for review. The Prowers County DFIRM appeal period has ended and the LFD letters were distributed on October 19, 2015. The maps are anticipated to become effective on April 19, 2016.

FY08 Activities: Montrose County DFIRMs became effective on January 6, 2012. The Elbert County and Rio Grande County DFIRMs are now effective. Gunnison County DFIRMs became effective on May 16, 2013. The Pueblo County DFIRM scope of work has been altered to a Seclusion DFIRM and the remaining tasks were funded in 2013. The Pueblo County Arkansas River Levee floodplain study is in progress, finalization is still progressing. The Pueblo Levee Conservancy District has hired a consultant to assist in their levee certification process and District is working on resolving issues regarding the existing mural on the levee along the Arkansas River.

FY07 Activities: Summit County DFIRMs became effective November 2011. La Plata County received their effective maps in August 2010. Park County has gone effective in December 2009. Delta County maps became effective in July 2010. Teller County and Archuleta County have gone effective since September 2009. El Paso County DFIRM scope of work has been altered to complete this project as a Partial Countywide DFIRM. The Templeton Gap levee will not be included in the update. The FEMA grant was extended to September 2013 to complete this project to the preliminary phase.

FY06 Activities: Weld County completed the Appeal period in early December 2014. Weld County final DFIRMs will become effective in January 20, 2016. Fremont County DFIRMs became effective on January 6, 2012. Clear Creek County has gone effective July 17, 2012.

FY05 Activities: Mesa County DFIRM became effective in June 2010. The Garfield County DFIRMs are now in the post preliminary phase. The Montezuma County DFIRM went effective September 28th 2008.

FY04/03 Activities: Boulder County maps became effective on December 18, 2012. (*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 has begun and the project Kick-off Meeting was held on March 1, 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. Map products will be available for voluntary adoption by communities by the end of June 2018. In addition to map products, a model land use code will be developed. (*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 9 out of 251 total National Flood Insurance Program participating communities that have not yet provided documentation of adopting the Rules. In accordance with the procedure outlined in Rule 16, staff is while continuing to provide outreach and technical assistance to communities. (Stephanie DiBetitto)

FLOODPLAIN HAZARD MAPPING UPDATE—CWCB staff and their consultant team from AECOM continue to meet and provide support to local and county officials with community meetings within Boulder County. On May 9th, 2017, Boulder County is holding a public meeting for the Little Thompson to show the draft floodplain maps. On April 19th, the Boulder County Planning Commission gave authorization to pursue possible zoning map amendments to reflect more accurate conditions that are post-flood and to incorporate best available data. The board also gave authorization for text amendments to the Boulder County Land Use Code floodplain regulations, to include any additional changes to provisions needed to protect the health, safety and welfare of the residents. A Flood Risk Review meeting took place in Weld County on April 24th, 2017. These meetings allow for community officials to get a brief overview of the Colorado Hazard Mapping Program (CHAMP). These meetings are also an opportunity to review and provide early input on draft versions of the floodplains prior to FEMA review. Coordination and data sharing among local communities and the CWCB will continue as other local efforts are underway. The CHAMP team will be providing a South Platte River update in May to outline the survey and construction activities as well as the coordinating activities with various partners. For Year 2 streams in the St. Vrain watershed, survey data collection efforts have been completed, with the exception of Left Hand Creek. Left Hand Creek is expected to be completed by early summer 2017. All project information can be found at http://coloradohazardmapping.com/. (Corey Elliot)

FLOOD HAZARD MAPPING – PHASE II UNMODERNIZED COUNTIES— The CWCB staff is gearing up proposed scoping miles for areas within rural Colorado that have been identified for having flood risk. Coordination with local communities and counties are on-going to ensure the scope aligns with their needs. Survey is scheduled to begin in during the summer months. (*Corey Elliot*)

COLORADO WATERSHED RESTORATION PROGRAM UPDATE— The CWCB approved a grant to the River Network through the Colorado Watershed Restoration Program (CWRP). The \$95,000 grant is matched by funds from the Gates Family Foundation and the Nature Conservancy. River Network is launching a two-year project to build capacity for local coalitions that are interested in stream management planning (SMP). SMP is a grant type in the CWRP. CWRP funding for SMPs has been under utilized for the past two grant cycles. This may be related to a lack of capacity to build coalitions, prioritize goals, and raise matching funds. River Network aims to improve knowledge about how stream management planning is occurring, facilitate conversations about how they can be implemented more widely, and support local coalitions that are ready to develop funding requests. The grant will:

- Align the resources, expertise and tools available within Colorado's water management, NGO, academic, and
 research and science communities with the capacity and knowledge needs of local coalitions as they initiate
 stream management planning processes;
- Educate a broad constituency on what a stream management plan is, how and why communities have undertaken them, what lessons been learned, and expectations for state grant funding;
- Support and assist, in up to three watersheds per year, existing or new coalitions in their efforts to initiate a stream management plan, culminating in a grant application to CWCB in either 2017 or 2018. (Chris Sturm)

CWCB & OIT PROJECT COORDINATION UPDATE— The CWCB and the Governor's Office of Information Technology (OIT) will be coordinating with various stakeholders for their interest in LiDAR products. Additionally, the CWCB and OIT are coordinating the transition of the Colorado Hazard Mapping Portal website from the AECOM team to OIT. A LiDAR Request Form was uploaded to the CHAMP website for data requests. All of the LiDAR datasets have been copied over to the OIT server to gear up for distribution when requested. (*Corey Elliott*)

CWCB – NATURAL RESOURCES CONSERVATION SERVICE (NRCS) EMERGENCY WATERSHED PROTECTION (EWP) PROGRAM UPDATE—

<u>Project Update:</u> Information on construction progress, weekly project updates, and upcoming projects may be accessed at <u>www.coloradoewp.com</u>.

Project Update: Jasper Lake

<u>Location:</u> Jasper Lake Reach on the Big Thompson <u>Project Sponsor:</u> Big Thompson Watershed Coalition

Work in Progress/Completed Work

- 1. Installed soil lifts over woody toe.
- 2. Installed boulder constructed riffle upstream arm.
- 3. Installed boulder cascade arms 2, 3, and 4 with boulder clusters.
- 4. Installed boulder mini vane.

Upcoming Work

1. Construction of the Jasper Lake site has been completed as of April 19, 2017.

2. Vegetation of the project area (planting, permanent, seeding) is currently underway and is expected to be completed by Wednesday, May 3rd.

Project Update: Coal Creek Canyon

Location: Coal Creek Canyon, Jefferson County, CO.

Project Sponsor: Coal Creek Canyon Watershed Partnership

Work in Progress/Completed Work

- Frontier, Olsson, and CCCWP met with Lowe property owner on April 17 to discuss improvements to property.
- Construction of double-stacked boulder wall on Lowe property completed. Riprap back slope not yet installed.
- 3. Approximately 75' of boulder toe on river left completed.

Upcoming Work

- Low bench construction work on the Lowe property.
- 2. Mobilize to Rune property and begin channel improvements.
- 3. Revegetation work on Adair and Khachatrian properties.



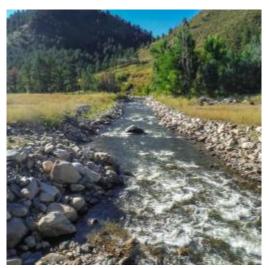
<u>Upcoming Projects</u> – all projects overviews may be accessed at our website.

Big Thompson River Restoration at Cedar Cove

Watershed: Big Thompson River

County: Larimer
Project Sponsor: CDOT

Large amounts of sediment and debris were deposited from erosion caused by the 2013 flooding and streambank erosion and sedimentation along the Big Thompson still impacts residences, businesses, structures, and bridges. The project proposes to use rip-rap and bioengineering to stabilize streambanks and in-stream structures to provide grade control. Additionally, a floodplain will be shaped to lower flood surfaces and provide areas for future sediment deposition. A low-flow channel, rock clusters, and woody material will be added to create channel complexity and enhance fish habitat, and



disturbed areas will be planted with willows, trees, and shrubs, and/or will be seeded and mulched. The project is expected to be constructed with the ongoing CDOT work for permanent repairs on US Hwy 34.

Fall River Restoration at River's Edge

Watershed: Estes Valley

County: Larimer

Project Sponsor: Estes Valley Watershed Coalition

Continued streambank erosion and sedimentation from the 2013 flood is impacting residences, lodges, businesses, and bridges along this reach of Fall River. The project proposes to remove and rework unstable sediment to reduce flood surfaces and store future sediment, as well as remove flood debris that remains in the channel. The project will also provide bioengineering and rock toe protection to stabilize streambanks. Additionally, a low-flow channel and rock clusters will be added to create channel complexity and enhance fish habitat, and disturbed areas will be planted



with willows, trees, and shrubs, and/or will be seeded and mulched. (*Jeff Conboy*)

FLOOD THREAT BULLETIN UPDATE— The daily Flood Threat Bulletin prepared by a consultant under contract to the CWCB will began its twelfth year of daily flood forecasting for the State of Colorado on May 1st. A competitive selection process was recently completed, and Dewberry (the incumbent from the prior five years) was selected to continue performing the consulting services for the next five years.

Dewberry and CWCB staff will provide daily flood threat outlooks that will be accessible online for interested users. Updates to the program this year include improved processes for forecasting and post-event verification as well as new data sources available for the previous day precipitation summary. Dewberry and CWCB will continue to work with social media, such as Facebook and Twitter, to push this information out following similar successful programs from other parts of the agency. In addition, for the first time, a voluntary email listserve signup is planned to be made available, allowing interested endusers the opportunity to sign up for push notifications so that a visit to the website will not be necessary.

Dewberry compiles usage statistics, and the usage has continued to grow in each successive year of operation. Dewberry will provide daily outlooks regarding the flood threat around the state due to either snowmelt or rainfall. In addition, a GIS summary of precipitation from the previous report is available to view which areas of the state received the most precipitation (useful for both water managers and floodplain managers). Twice weekly, on Mondays and Thursdays, a medium-range outlook will be issued summarizing the anticipated flood threat for the following two weeks. The information can be easily accessed at www.coloradofloodthreat.com and it will be linked through the CWCB's home page. The flood threat bulletin is offered from May 1st through September 30th. (*Kevin Houck*)

SOUTH PLATTE RIVER SAFETY SIGNAGE PROJECT— CWCB is a member of the South Platte Working Group (SPWG), a collaborative working group of jurisdictions seeking to improve river conditions and recreation opportunities from Chatfield to the Denver County line. Working with,



Singleton Strategies, the River Management Society, and Malowany Associates we have developed a final report, graphics, and new designs that are being installed by Englewood, Sheridan, Littleton and the South Suburban Parks and Recreation District. The campaign was

predominantly targeted at inner tubers but addresses responsible recreation and river safety for all users. This collaborative effort is a product of the SPWG and River Management Society. The genius of "Banks" the river otter is the work of Malowany Associates and Roche Design. The intent was to tackle river safety issues and make the collective wisdom available as a starting point for signs at river parks in Colorado. The River Management Society is a national non-profit organization, so there is consideration of a "buy out" of the Banks river otter art work to make it available to who might use it across the country. The origin of this effort comes from CWCB staff observing that river parks were being built in Colorado but there were no national standards, guidance, or even successful examples of effective signage. Seeing the opportunity to make a difference, we tackled it ourselves. The concepts of "wear a life vest", "safe to go?", "know where you are", "float sober", "aim between signal boulders", "float with friends", and "be courteous" round out the messaging. Once the SPWG fabricates and

installs the new signs and ownership issues are figured out, staff will provide a Web link to the report and graphics to Colorado water users. Thanks to Mara MacKillop for introducing Gene Malowany to the SPWG. "Banks" the river otter is an effective, likeable character who makes serious messages appealing. Pictured is Banks, bummed that flows are too high for tubing. Also there is an example of what the signs will look like. The signs should complement the new "River Run" river surfing park that was finished late in 2016 but will see heavy use this year. (Joe Busto)

~AGENCY UPDATES~

RECENTLY DECREED ISF WATER RIGHTS— On March 13, 2017, the Division 4 Water Court decreed instream flow water rights to the CWCB on Fourth of July Creek in Case No. 16CW3066 for 1.1 cfs (4/1-7/31), and 0.6 cfs (8/1-3/31), with an appropriation date of January 26, 2016. The upstream terminus is the Fourth of July Creek headwaters and the lower terminus is the Carris Thompson Ditch headgate. This ISF reach is approximately 6.0 miles long and flows in a northwesterly direction through parts of Gunnison and Hinsdale Counties.

On April 3, 2017, the Division 4 Water Court decreed instream flow water rights to the CWCB on the Little Cimarron River in Case No. 16CW3064 for 11.0 cfs (4/15-9/30), 7.0 cfs (10/1-10/31), and 4.6 cfs (11/1-4/14), with an appropriation date of January 26, 2016. The upstream terminus is the confluence with Firebox Creek and the lower terminus is the confluence with Van Boxel Creek. This ISF reach is approximately 7.55 miles long and flows in a northerly direction through parts of Gunnison County. This right is in addition to an existing instream flow right on the Little Cimarron River from the headwaters to the Butte Ditch headgate, in the amount of 2.0 cfs (1/1 – 12/31), decreed in Case No. 84CW0396 with an appropriation date of 5/4/1984.

On April 6, 2017, the Division 2 Water Court decreed instream flow water rights to the CWCB on East Fork Turkey Creek in Case No. 16CW3075 for 1.35 cfs (5/1-8/31), 0.5 cfs (9/1-11/30), 0.3 cfs (12/1-3/31), and 0.6 cfs (4/1-4/30), with an appropriation date of January 26, 2016. The upstream terminus is the East Fork Turkey Creek headwaters and the lower terminus is the confluence with West Fork Turkey Creek. This ISF reach is approximately 3.43 miles long and flows in a southerly direction through parts of El Paso and Teller Counties.

On April 16, 2017, the Division 5 Water Court decreed instream flow water rights to the CWCB on Morgan Gulch in Case No. 16CW3114 for 2.1 cfs (5/1-7/31), 0.8 cfs (8/1-9/30), and 0.3 cfs (10/1-4/30), with an appropriation date of January 26, 2016. The upstream terminus is the Morgan Gulch headwaters and the lower terminus is the confluence with the Williams Fork River. This ISF reach is approximately 4.1 miles long and flows in a southwesterly direction through parts of Grand County. (*Rob Viehl*)

CWCB PARTICIPATES IN ANNUAL REGIONAL WATER FESTIVALS— The CWCB is scheduled to participate in six Children's Water Festivals throughout the State of Colorado. These regional water festivals will be attended by hundreds of 4th, 5th and 6th graders. CWCB staff has put together a presentation focused on the importance of implementing Colorado's Water Plan, discussing the water challenges the state faces and what the state is currently working on the challenges. The presentation also focuses on what the students can do their part to implement their water plan by learning how to use water more efficiently at home and will receive toilet leak detection tablets to check for leaks at home. Festival dates and locations are as follows:

- April 13 Wray, Wray High School
- May 9 Pueblo, Colorado State University-Pueblo
- May 11 Northglenn/Thornton/Westminster, Front Range Community College
- May 15-16 Grand Junction, Colorado Mesa University
- May 18 Aurora, Community College of Aurora
- May 19 Boulder, University of Colorado (*Ben Wade*)

NEW CWCB STAFF— The CWCB welcomes Elizabeth Schmit to the Administration Section. Elizabeth started on April 10th and will work at the front desk providing assistance to the CWCB and the DNR Executive Director's Office. Elizabeth has a strong administrative background and a degree in American Studies/Art History. Elizabeth moved to Colorado a few years ago and has developed a great interest in the Colorado outdoors. She enjoys working for the CWCB and DNR in a role that supports the agency's mission to preserve Colorado's natural resources. (*Tina Heltzel*)

~GENERAL ATTACHMENTS~

- 01 Steam and Lake Protection De Minimis Cases
- 02 Instream Flow and Natural Lake Level Program Summary of Resolved Opposition 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 Emergency Loans Status Report
- 05 Loan Repayment and Delinquency Report Loan Financial Activity Report

Director's Report Attachment - May 17-18, 2017 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/ ISF Case #	ISF Amount (CFS)	Injury (%)	Cumulative Injury (%)	Count
17CW3027	Meredith Long	Fryingpan River 73W1945	39 (11/1 -4/30) 110 (5/1-10/31)	0.00090 0.01180	0.06560 0.20882	5
17CW3026	Meredith Long	Fryingpan River 73W1945	39 (11/1-4/30) 110 (5/1-10/31)	0.02170 0.01180	0.06650 0.22062	6
96CW0017	Young Life	Cottonwood Creek 96CW0017	20 (1/1-12/31)	0.16280 0.05520	0.85349 0.33361	218
96CW0017	-	Cottonwood Creek 96CW0017	20 (1/1-12/31)	0.00400 0.00220	0.85749 0.38581	219

May 17-18, 2017 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. 14CW3096 (Water Division 5) - Application of Stillwater Ranch Open Space Association

The Board ratified this statement of opposition at its November 2014 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 augmentation plan do not injure the Board's instream flow water rights on the Roaring Fork River by expansion of use, altering the time, place and amount of historical return flows, or not replacing out-of-priority depletions 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. However, six parties remain in the case and if this case proceeds to trial, this stipulation may need to be renegotiated.

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
76W2948	Roaring Fork River	confl Difficult Creek	confl Maroon Creek	32 (1/1 - 12/31)	01/14/1976
85CW0646	0	confl Maroon Creek	confl Fryingpan River	30 (10/1 - 3/31) 55 (4/1 - 9/30)	11/08/1985
10CW0184^	•	confl Maroon Creek	confl Owl Creek	3.54 (5/1 - 10/31)	06/30/1904
10CW0184^	Roaring Fork River	confl Owl Creek	confl Fryingpan River	Varies 0.15-0.89 (varies 5/1 - 10/31)	06/30/1904
85CW0639		confl Fryingpan River	confl Crystal River	75 (10/1 - 3/31) 145 (4/1 - 9/30)	11/08/1985

[^] 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:

- Applicant and Opposer consent to the following method of stream calculations for administration of the instream flow water right decreed in W-2948 (1976) in the reach of the Roaring Fork River in the vicinity of the Nellie Bird Ditch headgate if adopted by the Division of Water Resources: DWR may administer an instream flow call by using the gage reading at the Roaring Fork River Near Aspen, Co., USGS number 9073400, DWR ID ROAASPCO, subtracting the concurrent Nellie Bird Ditch diversions and the Salvation Ditch diversion to calculate the stream flows below the two ditch headgates. The use of such stream calculation to administer the instream flow water right decreed in Case No. W-2948 is the sole discretion of the Division of Water Resources.
- Under C.R.S. § 37-92-102(3)(b) (2016), by agreement with the CWCB, and in recognition of Applicant's existing water uses and practices occurring at the time of the appropriations of the Roaring Fork instream flow water rights, Applicant may use the historical consumptive use for Applicant's Senior Nellie Bird Right regardless of the amount of flow present in the Roaring Fork instream flow right.
- CWCB and Applicant negotiated terms regarding existing and new places of use, new diversion rates and timing, return flow rates and timing, diversion limits on alternate points of diversion, and return flow locations.
- (2) Case No. 10CW0007 (Water Division 7) Application of BP America Production Company, Chevron Midcontinent LP, Four Star Oil & Gas Company, XTO Energy Inc.

The Board ratified this statement of opposition at its May 2010 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicants' proposed plan for augmentation replaces out-of-priority depletions in time, place and amount so that it does not injure the Board's instream flow water rights on the Florida River. 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 rights in Water Division 7 in the Animas watershed that could be injured by this application:

Case Number	Stream	Upper Terminus	Lower Terminus	CFS Rate (Dates)	Approp. Date
77W1763	Florida River	outlet Lemon Res	confl Salt Creek	14 (10/15 - 6/30) 7 (7/1 - 10/14)	01/19/1977
77W1764	Florida River		confl Animas River	20 (10/15 - 6/30) 12 (7/1 - 10/14)	01/19/1977

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

- The two Colorado Water Conservation Board ("CWCB") instream flow water rights on the Florida River, decreed in Case Nos.W-1763-77 and W-1764-77, are senior in priority to the

wells augmented by this plan for augmentation, and the wells shall be subject to administration when a valid call is placed by the CWCB. The sub crop of the Fruitland Formation crosses the Florida River in the reach where the river is deemed critical. Shown on decree Exhibit C. A CWCB instream flow right and other water rights are located on the Florida River downstream of the subcrop and may therefore be potentially impacted by stream depletions attributable to the CBM wells covered by this plan.

B. Letters in Lieu

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

(1) Case No. 17CW3005 (Water Division 1) - Application of Cemex, Inc. and the City of Longmont

During the January 2017 Water Court Resume Review, CWCB staff identified concerns regarding Applicants' diligence request on conditional water rights to be used for "fishery enhancement" and "minimum stream flows," which conflicts with the exclusive authority of CWCB. This case was resolved with CWCB by a letter agreement, dated March 23, 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 in the case:

 No water shall be released from storage pursuant to the subject St. Vrain - Portland Reservoir water right for fishery enhancement and/or minimum stream flow uses unless Applicants, or their successors, have first entered into a water delivery agreement with the Colorado Water Conservation Board that addresses the use of such releases to preserve or improve the natural environment to a reasonable degree.

(2) Case No. 16CW0025 (Water Division 7) - Application of Castle Smith

During the November 2016 Water Court Resume Review, CWCB staff identified concerns regarding Applicant's claim of beneficial use to enhance riparian wildlife habitat, which conflicts with the exclusive authority of CWCB. This case was resolved with CWCB by a letter agreement, dated March 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 in the case:

- The water rights decreed herein is to irrigate wetlands and riparian vegetation. Claims to enhance the riparian wildlife habitat have been withdrawn.



1313 Sherman Street Denver, CO 80203

P (303) 866-3441 F (303) 866-4474 John Hickenlooper, Governor

Robert Randall, DNR Executive Director

Lauren Ris, CWCB Acting Director

TO: Colorado Water Conservation Board Members

FROM: Derek Johnson, P.E., Project Manager

DATE: May 17-18, 2017 Board Meeting

Directors Report: Water Project Loans

Interest Rates

Introduction

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

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

1.80% - Agricultural

2.55% - Low-income Municipal2.90% - Middle-income Municipal3.30% - High-income Municipal

6.00% - Commercial 2.00% - Hydroelectric

The standard loan term is 30 years. Rates are reduced by 0.25% for 20-year loans, and by 0.80% for 10-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.





1313 Sherman Street Denver, CO 80203

P (303) 866-3441 F (303) 866-4474 John Hickenlooper, Governor

Lauren Ris, CWCB Acting Director

Robert Randall, DNR Executive Director

TO: Colorado Water Conservation Board Members

FROM: Anna Mauss, P.E., Marketing

Finance Section

DATE: May 17-18, 2017 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 Ap	proved Applica	ations			
Grand Valley Drainage District	Buthorn Drain	Jan 1, 2017	Colorado	The District identified the Buthorn Drain as its top capital improvement project need to address irrigation return flows and stormwater conveyance.	\$5,000,000
Company	Upper Platte & Beaver Canal Diversion Structure	Sept 1, 2016	South Platte	The purpose of this project is to replace the existing diversion structure that diverts water for both the Upper Platte & Beaver Canal Company and the Deuel & Snyder Improvement Company.	\$7,412,000
	Augmentation Project	July 1, 2016	Arkansas	The Town is proposing construction of a 99 AF augmentation reservoir to replace out-of-priority depletions as a result of the Town's overuse of alluvial wells.	\$2,800,000
Consolidated	-	July 1, 2016 presented at N WCB meeting	Лау	The purpose of this project is to pipe the lateral to improve efficiencies within the ditch system. The company will also receive \$950K in CDOT funds as a part of the Hwy 550 expansion project.	\$2,500,000
Totals					\$14,982,500

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 Rehabilitatio	n \$6,000,000
Bijou Irrigation District	Reservoir Rehabilitatio	n \$600,000
 Left Hand Water District 	Water Rights	\$6,000,000
 Windy Gap Firming Participants 	Windy Gap Firming	\$90,000,000
•Subtotal		\$211,600,000

Arkansas River Basin

•Stonewall Springs, LLC	Reservoir Construction	\$5,500,000
 Colorado Springs Flycasting Club 	Reservoir Rehabilitation	\$450,000
•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
 Security Water & San District 	Water Supply Project	\$3,000,000
 Fort Lyon Canal Company 	Adobe Creek Dam Rehab	\$6,000,000
•Subtotal		\$20,750,000

San Miguel/San Juan River Basir

•Town of Norwood	Dual Water System	\$1,000,000
 Town of Bayfield 	Ditch Piping	\$500,000
•Subtotal		\$1,500,000

Colorado River Basin

 Kendall Reservoir 	Reservoir Rehabilitation	\$400,000
Private Borrower	Reservoir Rehabilitation	\$250,000
Subtotal		\$650,000

Gunnison River Basin

•Gunnison County Electric Hydroelectric Project \$1,000,000

Rio Grande Basin

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

North Platte Rasin

•No projects at this time



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Robert Randall, DNR Executive Director

Lauren Ris, CWCB Acting Director

TO: Colorado Water Conservation Board Members

FROM: Derek Johnson, P.E., Project Manager

Kirk Russell, P.E., Deputy Director

Board Meeting: May 17-18, 2017 Board Meeting

Directors Report: Water Project Loan Program

Design & Construction Status Report

The CWCB Loan Program has Substantially Completed 28 projects in Fiscal Year 2016/2017 as shown in Table 1. There are currently 51 projects authorized to receive loan funding totaling \$248 million. There are 51 projects currently under contract and in the Design and Construction phase totaling \$150.2 million. There were an additional 14 Emergency Loans Substantially Completed Fiscal Year 2016/2017 totaling \$9.1 million and an additional 5 Emergency Loan projects under contract totalling \$7.9 million shown under a separate report.

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

		TADLL I			
	Borrower	Project	County	Loan Amount	Complete
1	Greeley and Loveland Irrigation Company	Irrigation System Improvements	Larimer	\$ 3,745,080	07/01/2016(a)
2	Boxelder Basin Regional Stormwater Authority	East Side Detention Facility Project	Larimer & Weld	\$ 7,171,000	07/01/2016(b)
3	Boxelder Basin Regional Stormwater Authority	County Rd 52 Culvert Project	Larimer & Weld	\$ 818,100	07/01/2016
4	Lake Canal Reservoir Company	North Gray Reservoir Rehab Project	Larimer & Weld	\$ 204,298	07/01/2016(c)
5	Louden Irrigating Canal & Reservoir Company	Emergency Diversion Structure and Ditch Repair	Larimer	\$ 126,250	07/01/2016
6	Boxelder Basin Regional Stormwater Authority	Larimer & Weld Canal Crossing Structure Project	Larimer & Weld	\$ 1,010,000	08/01/2016
7	Prairie Ditch Company	Plaza Phase 3: Prairie Ditch Imp. Project	Rio Grande	\$ 131,300	08/01/2016
8	Farmers Pawnee Canal Company	Diversion Structure Replacement Project	Logan	\$ 2,067,470	09/01/2016
9	Northern Colorado WCD Hydropower Enterprise	Granby Hydropower Project	Grand	\$ 5,135,183	10/01/2016
10	Pisgah Reservoir and Ditch Company	Mount Pisgah Dam/Wrights Res Rehabilitation	Teller	\$ 990,176	10/01/2016(d)
11	Bow Mar Water & Sanitation District	Rehabilitation and Replacement of Water Meters	Arapahoe & Jefferson	\$ 332,795	11/01/2016
12	Union Well Augmentation Group	Union Reservoir Water Rights Purchase	Weld	\$ 227,250	11/01/2016
13	Ephraim Ditch Company	Ephraim Diversion and Headgate Rehabilitation	Rio Grande	\$ 101,000	11/01/2016
14	Parkville Water District	Evans Reservoir Bypass Flume Project	Lake	\$ 181,800	12/01/2016
15	Cortez, City of	Water Meter Replacement Project	Montezuma	\$ 858,500	12/01/2016



16	Cottonwood W&S District	WISE - ECCV Pipeline Purchase	Douglas & Arapahoe	\$ 342,921	01/01/2017
17	Inverness W&S District	WISE - ECCV Pipeline Purchase	Douglas & Arapahoe	\$ 1,845,270	01/01/2017
18	Gypsum, Town of	LEDE Ditch and Reservoir Rehabilitation	Eagle	\$ 2,689,731	01/01/2017(e)
19	Plum Valley Heights Subdistrict	Raw Water Supply Project	Douglas	\$ 2,248,260	02/01/2017
20	Windsor, Town of	Kyger Reservoir Project	Larimer & Weld	\$ 4,545,000	02/01/2017(f)
21	Grand Junction, City of	Hallenbeck Reservoir No. 1 Dam Rehabilitation	Mesa	\$ 1,010,000	03/01/2017(g)
22	Julesburg Irrigation District	Reconstruction of the Harmony No. 1 Dam Structure	Sedgwick	\$ 203,616	03/01/2017
23	Bellyache Ridge Metro District	Well Replacement Project	Eagle	\$ 169,175	04/01/2017
24	Oligarchy Irrigation Company	Dam Outlet Works Rehabilitation	Boulder	\$ 901,930	04/01/2017(h)
25	Uncompahgre Valley Water Users Association	Drop 5 Hydroelectric Project	Montrose & Delta	\$ 6,999,300	04/01/2017
26	North Poudre Irrigation Co	Reservoir No. 4 Rehabilitation	Larimer	\$ 2,263,410	05/01/2017(i)
27	San Luis Valley Water Conservancy District	Anaconda Ditch Water Right Acquisition	Alamosa	\$ 1,123,575	05/01/2017
28	Sanford Canal Company	Sanford Diversion and Headgate Rehabilitation	Rio Grande	\$ 101,000	05/01/2017
			Total	\$ 47,543,390	

Fiscal Year 2016/2017 has added or preserved 21,613 acre-feet of reservoir storage ((a) 12,925, (b) 1,800, (c) 075, (d) 2,192, (e) 254, (f) 1,257, (g) 699, (h) 1,737, (i) 674).



Irrigation System Improvements

Greeley and Loveland Irrigation Company Substantially Complete July 1, 2016



Project Description

The Greeley and Loveland Irrigation Company (Company) is a mutual ditch company established in 1900. Together with the Seven Lakes Reservoir Company they own and operate nine reservoirs and control the Greeley and Loveland Canal.

Boyd Lake, owned by the Company, is the largest reservoir in the irrigation system and has a surface area of 1,750 acres with a storage capacity of 48,871 acre-feet. The Boyd Lake project replaced the high-level reservoir inlet and outlet from the Greeley and Loveland Irrigation Canal so that the Company can discharge water into Boyd Lake for storage during low reservoir levels, or discharge water back into the canal for deliveries during high reservoir levels. This project was completed in May 2015 Horseshoe Lake, owned by Seven Lakes, has a surface area of 650 acres and a storage capacity of 8,115 acre-feet. The Horseshoe Lake project replaced the high-level outlet in order to increase the conveyance capability from Horseshoe Lake into Boyd Lake to 1,100 cfs, at higher reservoir levels, so the Company and Seven Lakes can more efficiently provide irrigation water to shareholders. This project was completed in March 2016.

Lake Loveland, owned by the Company, had a significant amount of sand and silt deposited during the September 2013 flood and subsequent irrigation seasons. In order to ensure water could continue to flow into the lake, and therefore into Horseshoe Lake and Boyd Lake as well, construction crews removed 24,821 CY of material adjacent to the lake's inlet. This project was completed in March 2016.

Р	R O J E C	T DAT	A	
Sponsor: Greeley & Loveland Irrigation Company	County: Larimer		Water Source: Big Thompson River	
Type of Loan: Reservoir Rehabilitation Board Approval Date: September 2013				
Terms of Loan: \$3,745,080 at 2.15% for 30 years				
Design Engineer: URS Corporation/AECOM				
Contractor: Moltz Constructors (Boyd & Horseshoe projects), Coulson Excavating (Lake Loveland)				
Project Elements: (2) High-level reservoir outlet replacements, 300 LF spillway conduit, concrete				
ditch lining, concrete outlet 24,821 sand removal				



East Side Detention Facility

Boxelder Basin Regional Stormwater Authority
Substantially Complete July 1, 2016



Project Description

The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between the City of Fort Collins, Larimer County and the Town of Wellington, to facilitate the construction of regional stormwater improvements to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The East Side Detention Facility is a key component in the Authority's master plan. The detention facility provides 1,800 AF of detention storage and will decrease downstream flows from approximately 6,700 cfs to 2,400 cfs. The reduced flow rate will allow 100-year flows to be contained in the current cross-section of Boxelder Creek and will eliminate the flow that occurs in the 100-year flood plain below the proposed detention facility. Due to the location of and inherent integration required with the authority's adjacent Country Road 52 project (CWCB Loan Contract CT15-069), these two projects were bid as one construction contract. Construction commenced in August 2015 and was Substantially Completed in July 2016.

Р	R O J E C	T DAT	A
Sponsor: Boxelder Basin Regional Stormwater Authority	County: Larimer		Water Source: Boxelder Creek
Type of Loan: Flood Control		Board Approval	Date: May 2013
Terms of Loan: \$7,171,000 at 3.0% for 15 years			
Design Engineer: Ayres Associates			
Contractor: Dietzler Construction Corporation			
Project Elements: ~9,000 LF Flood Control Dam (1,800 AF Capacity), 425 LF of a 17'5"x6' Box Culvert			



County Road 52 Improvements

Boxelder Basin Regional Stormwater Authority
Substantially Complete July 1, 2016



Project Description

The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between the City of Fort Collins, Larimer County and the Town of Wellington, to facilitate the construction of regional stormwater improvements to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The County Road 52 Improvement Project was the installation of box culverts under County Road 52 to reduce roadway overtopping in a 100-year storm event. Due to the location of and inherent integration required with the authority's adjacent East Side Detention Facility project (CWCB Loan Contract CT15-070), these two projects were bid as one construction contract. Altogether, these projects are expected to reduce downstream flows in Boxelder Creek from over 7,000 cfs to less than 2,400 cfs during a 100-year storm event. The reduced flow rate will allow 100-year flows to be contained in the current cross-section of Boxelder Creek and will eliminate the flow that occurs in the 100-year flood plain below the proposed detention facility. Construction commenced in August 2015 and was Substantially Completed in July 2016.

Р	R O J E C	T D A T	A
Sponsor: Boxelder Basin Regional Stormwater Authority	County: Larimer		Water Source: Boxelder Creek
Type of Loan: Flood Control		Board Approval	Date: January 2014
Terms of Loan: \$818,100 at 2.50% for 15 years			
Design Engineer: Ayers Associates			
Contractor: Dietzler Construction Corporation			
Project Elements: (4) 20'x4' Box Culverts, utility line relocations			



North Gray Reservoir Rehabilitation

Lake Canal Reservoir Company Substantially Complete July 1, 2016



Project Description

The Lake Canal Reservoir Company obtained a CWCB loan to construct a new spillway on North Gray Reservoir. The reservoir was under a storage restriction by the Office of the State Engineer (SEO) due to the inadequacy of the old spillway. The old spillway was a corrugated metal pipe that had corroded through.

The original project was to abandon the old spillway and construct a new spillway between North and South Gray Reservoirs. The Project scope increased due to additional video inspection of existing structures and in coordination with the Boxelder Basin Regional Stormwater Authority's East Side Detention Facility flood control project. During final design, a video inspection of North Gray Reservoir's existing outlet pipe and the interconnect pipe between North and South Gray Reservoirs showed both structures were in need of repair. As this presented a new dam safety concern, the Company determined to add the abandonment of the existing outlet and the replacement of the interconnect structure to the Project scope so it could be completed at the same time as the original spillway project. The new interconnect structure is now used as North Gray's outlet. The Project was successfully completed in April 2016.

PROJECT DATA				
Sponsor: Lake Canal Reservoir Company	County: Larimer	& Weld	Water Source: Box Elder Creek	
Type of Loan: Reservoir Rehabilitation Board Approval Date: September 2011			Date: September 2011	
Terms of Loan: \$204,298 at 2.10% for 30 years				
Design Engineer: Smith Geotechnical Engineering Consultants				
Contractor: Dietzler Construction Corporation				
Project Elements: Abandonment of old outlet works, new outlet structure with 18" diameter HDPE pipe (interconnect structure), and new 80 LF spillway				



Emergency Diversion Structure and Ditch Repair

Louden Irrigating Canal & Reservoir Company Substantially Complete July 1, 2016



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 river diversion. The ditch was diverting water as the September storm started. As the flood progressed, the headgates could not be safely reached for operations. Water overtopped the headgate structure by at least 4 feet resulting in damage to the headgate and ditch system. The first 3,000 feet of the ditch were totally filled with silt and debris. The ditch breached back to the river in two places and undercutting caused slides that threatened the ditch. Construction work included cleaning out the ditch, rebuilding the ditch with concrete blocks, rebuilding the service road, and cleaning and rehabilitating the diversion headgates. The work was completed in time to deliver water by the 2014 irrigation season. Remaining funds were left available should additional repairs be necessary. However, those items were ultimately paid using Company cash.

Р	R O J E C	T DAT	A
Sponsor: Louden Irrigating Canal & Reservoir Company	County: Larimer		Water Source: Big Thompson
Type of Loan: Ditch Rehabilitation Board Approval Date: May 2014			
Loan Terms: (Original) \$161,600 @ 2.70% for 30 years (Final) \$126,250 @ 2.70% for 30 years			
Design Engineer: Telesto Solutions, Inc			
Contractor: Lee Nauta, John Moen			
Project Elements: Ditch and headgate cleanout from flood debris and sediment.			



Larimer & Weld Canal Crossing Structure Project

Boxelder Basin Regional Stormwater Authority
Substantially Complete August 1, 2016



Project Description

The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between the City of Fort Collins, Larimer County and the Town of Wellington, to facilitate the construction of regional flood control projects to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The crossing structure provides conveyance for 100-year flows from Boxelder Creek across the Larimer and Weld Canal in a safe and controlled manner. Previously the Boxelder Creek 100-year flows inundated the Larimer and Weld Canal, causing it to overflow west of I-25 into the Cooper Slough drainage within the City of Fort Collins. The crossing structure is made up of a side-flow spillway and erosion control features to allow flood flows to safely pass over and across the canal. Construction started in December 2015 and was completed in April 2016.

P	R O J E C	T DAT	A
Sponsor: Boxelder Basin Regional Stormwater Authority	County: Larimer		Water Source: Boxelder Creek
Type of Loan: Flood Control		Board Approval	Date: May 2013
Terms of Loan: (Original \$1,010,000 at 2.75% for 15 years(Final) \$835,104.53 @ 2.75% for 15 years			
Design Engineer: Ayres Associates			
Contractor: Crossfire, LLC			
Project Elements: Spillway construction, erosion control consisting of: gabion mattress, turf reinforcement mat (TRM), riprap, and articulated concrete block (ACB) mat			



Plaza Project Phase 3: Prairie Ditch Implementation Project

Prairie Ditch Company

Substantially Complete August 1, 2016



Project Description

The Plaza Project is a multi-phased project intended to improve the health and function of the Rio Grande River in the Sevenmile Plaza area through stream bank restoration, wetland restoration, and the replacement of aging and inefficient diversion and headgate structures. Phase 1 was a planning phase and identified several diversion and headgate structures in need of replacement. Phase 2 (McDonald Ditch Implementation Project) was the Plaza Project's first implementation project and was funded in part with a CWCB Loan and WSRF grant. Phase 3 is the second implementation project and the subject of this loan. Project Tasks include the final engineering design and construction of the new Prairie Ditch diversion and headgate, as well as stream bank stabilization, monitoring, outreach, and education. Project was funded in part with this CWCB Loan to the ditch company and a WSRF grant to the Colorado Rio Grande Restoration Foundation.

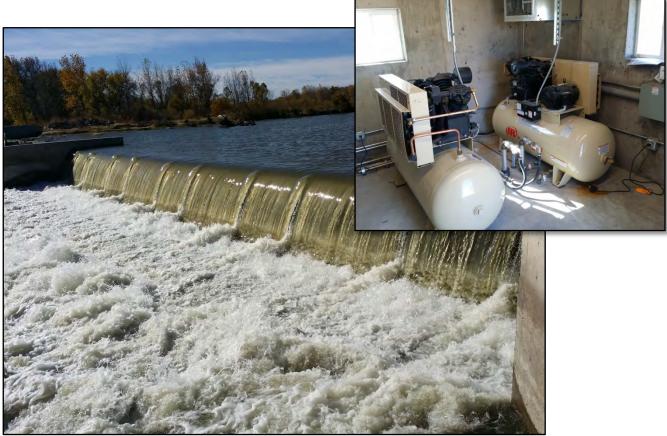
Р	R O J E C	T DAT	A
Sponsor: Prairie Ditch Company	County: Rio Gra	ande	Water Source: Rio Grande River
Type of Loan: Ditch Rehabilitati	tion Board Approval Date: May 2014		
Terms of Loan: \$131,300 at 1.25% for 10 years			
Design Engineer: Riverbend Engineering, LLC & Natural Resources Conservation Service (NRCS)			
Contractor: Robins Construction			
Project Elements: 120 LF grouted boulder diversion dam, trash rack structure, (4) slide headgates			
and structure, (1) radial sluice gate, structure and channel, headgate automation			



Diversion Structure Replacement Project

Farmers Pawnee Canal Company

Substantially Complete September 1, 2016



Project Description

The Company provides irrigation water to a 10,000 acre service area, extending from one mile south of Merino to four miles north of Sterling along the west side of the South Platte River. The Company's diversion structure is 218-foot long rollover diversion dam that spans the width of the river. Adjacent to the dam is the Company's 40-foot canal headgate structure. Both structures were originally built in 1926. After the September 2013 flood, the river began to undermine the structures. Attempts to repair the structures with additional steel sheet piling and concrete were not successful and the undermining worsened. The Company rebuilt the diversion dam and canal headgate. Replacement of the diversion of am provides the Company with an opportunity to utilize an improved design and alleviate ongoing maintenance issues from sand accumulation within the canal.

Р	R O J E C	T DAT	A	
Sponsor: Farmers Pawnee Canal Company	County: Logan		Water Source: South Platte River	
Type of Loan: Diversion Structure Board Approval Date: May 2014				
Terms of Loan: \$2,067,470 at 1.75% for 30 years				
Design Engineer: Gauthiere Engineering, Inc.				
Contractor: Concrete Specialties and Utilities				
Project Elements: Replacement of river diversion structure, replacement of ditch headgate structure installation of hydraulic bladders and controls				



Granby Hydropower Project

Northern Colorado Water Conservation District Substantially Complete October, 2, 2016



Project Description

Northern Water, acting by and through its hydropower enterprise, received a loan for the construction of the Granby Hydropower Project. The Project is located at the existing Colorado - Big Thompson Project Granby Dam and utilizes the existing releases to the Colorado River without changing the flow regime. The hydro station will use the minimum streamflow obligations and a portion of additional releases to generate power through a 1.2 megawatt facility. The Project is being operated under the U.S. Bureau of Reclamation's Lease of Power Privilege (LOPP) process. Power generated is purchased by Mountain Parks Electric, Inc. per a 30-year Power Purchase Agreement (PPA). The Project was completed and generating power by May 2016.

P.	ROJEC	T DAT	A
Sponsor: Northern Colorado Water Conservancy District, Hydropower Enterprise	County: Grand		Water Source: Colorado River
Type of Loan: Hydroelectric		Board Approval	Date: May 2014
Terms of Loan: \$5,135,183.00 at	2.0% for 30 years		
Design Engineer: CH2M			
Contractor: Aslan Construction			
Project Elements: (2) 600 kilowa	tt Francis turbines	, 70'x26' powerh	nouse



Mt. Pisgah Dam/Wrights Reservoir Outlet Works Rehabilitation Project

Pisgah Reservoir and Ditch Company Substantially Complete October 1, 2016



Project Description

The Pisgah Reservoir and Ditch Company received a CWCB Loan and a \$161,345 WSRF grant to rehabilitate Pisgah Dam at Wrights Reservoir per the State Engineer's Office direction. The Project goal was to improve the safety and operation of the dam's low level outlet works and properly abandon the dam's original outlet conduits. Phase 1 was to properly abandon the old outlet works by injecting the old conduit with grout. Phase 2 was the installation of an upstream gate to allow for an unpressurized outlet when closed. Phase 3 was the replacement of the outlet works including gate valves, operators, and stems; new hydraulic controls and piping; replacing the access ladder and valve operator building; and concrete tunnel repairs. Phases 2 and 3 were successfully completed. The success of Phase 1 has yet to be determined and the Company plans on additional engineering and monitoring to determine if additional mitigation work is needed. Future work on Phase 1 will be completed with Company funds unless Project costs greatly exceed current estimates, thus necessitating a new loan.

Р	R O J E C	T DAT	A
Sponsor: Pisgah Reservoir and Ditch Company	County: Teller		Water Source: Fourmile Creek
Type of Loan: Reservoir Rehabilitation Board Approval Date: September 2012			
Terms of Loan: \$1,172,261 at 1.75% for 30 years (Original) 990,176.11 (Final)			
Design Engineer: RJH Consultants, Inc.			
Contractor: Inland Potable Services, Inc.			
Project Elements: Grouting of (2) 16" dia pipe, 30"x30" sluice gate (underwater construction), (2) 24" knife gate, tunnel grout repairs, hydraulic control piping, valve house construction.			



Rehabilitation and Replacement of Water Meters

Bow Mar Water and Sanitation District Substantially Complete November 1, 2016



Project Description

The Bow Mar Water & Sanitation District is a master meter distributer for Denver Water located just south of Denver. The District received loan funding for the planned rehabilitation and replacement of water meters throughout the subdivision service area.

The purpose of the project was to replace or rehabilitate the existing meters, which currently underreport actual usage due to age and wear. The meter replacement/rehabilitation program replaced 233 meters, rehabilitated 60 existing meters by replacing the meter register to accommodate automatic meter reading, and updated the District's billing system to accommodate automatic meter reading.

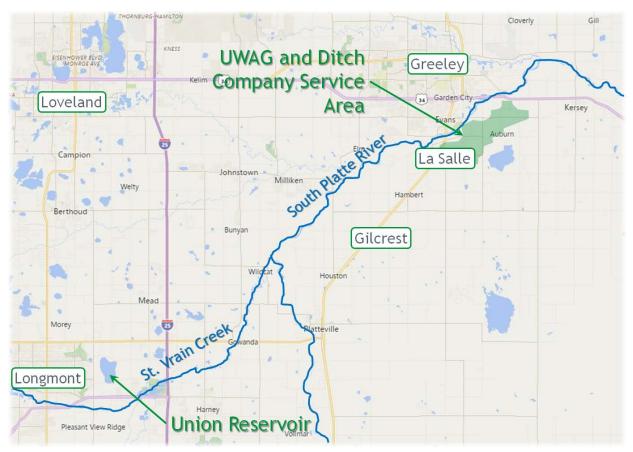
Sponsor: Bow Mar Water and Sanitation District	R O J E C County: Arapaho		Water Source: Denver Water (Master Meter)
Type of Loan: Water Meters		Board Approve	al Date: March 2015
Loan Terms: 2.65% for 10 years (Original) \$332,79	5 (Final) \$33°	1,407.15
Design Engineer: ENS Consulting	LLC		
Contractor: Levi Contractors, Inc.			
Project Elements: Water meter r	ehabilitation and	replacement	



Union Reservoir Water Rights Purchase

Union Well Augmentation Group

Substantially Complete November 1, 2016



Project Description

The Union Well Augmentation Group provides augmentation water for well owners of the Union Ditch Company, providing supplemental irrigation water to 29 wells covering 2,200 acres. The Company covers an average of 4 AF of well depletions per year.

The Augmentation Group purchased 2.0 shares of the Union Reservoir Company with this loan. The Augmentation Group will use these shares in the augmentation plan via a lease with the City of Longmont where Longmont will use the 2 shares and in return the Augmentation Group will receive the city's effluent, which is approved for use in the augmentation plan. The water right analysis shows each share to have an average historical consumptive use of 7.65 AF per share, along with the ability to store and regulate the average annual divertible yield of 15.3 AF per share.

P	R O J E C	T DAT	A
Sponsor: Union Well Augmentation Group	County: Weld		Water Source: South Platte
Type of Project: Water Rights Purchase Board Approval Date: May 2016			
Loan Terms: 1.45% for 20 years (Original) \$248,157 (Final) \$227,500			
Design Engineer: TZA Water Engineers			
Contractor: NA			
Project Elements: Purchase of (2)) Union Reservoir	Company shares	



Ephraim Diversion and Headgate Rehabilitation

Ephraim Ditch Company

Substantially Complete November 1, 2016



Project Description

The Ephraim Ditch Company formed in 1883 and incorporated in 1927 as a Mutual Ditch Company. Its diversion is located on the Conejos River just below the confluence with the San Antonio River and a service area covering approximately 5,000 irrigated acres. The purpose of this Project was to address the need for a well-designed diversion structure that will reduce maintenance, improve water management efficiencies, and allow for the accurate control of compact-entitled waters. The core has been washed away over time such that irrigators would pile debris or cinderblocks to act as the diversion dam, contributing to decades of limited diversion to irrigators and potential over payment to the Compact. This Project removed and replaced the diversion and headgate structure and installed automated headgates and five gauging stations.

This Project is one of three projects collectively known as the Conejos River System Confluence Management Project, managed by the Conejos Water Conservancy District. The Confluence Management Project will extend this whole river strategy to the Confluence, specifically the Sanford Canal, Ephraim Ditch, and East Bend Ditch.

P	R O J E C	T DAT	A
Sponsor: Ephraim Ditch Company	County: Rio Gra	nde	Water Source: Conejos River
Type of Loan: Ditch Rehabilitation Board Approval Date: May 2014			
Terms of Loan: \$101,000 at 1.75% for 30 years			
Design Engineer: Natural Resource	es Conservation S	Service (NRCS)	
Contractor: Natural Progression Homes, LLC			
Project Elements: Diversion Dam	(core), headgate,	sluice gate, 5 flu	umes, 5 stilling wells, telemetry



Evans Reservoir Bypass Flume Replacement

Parkville Water District

Substantially Complete December 1, 2016



Project Description

In the spring of 2014, sudden runoff combined with spring rains resulted in an unusually high snow melt. The flume was nearly overwhelmed and the portion that passes over the abutment of the dam failed. Significant erosion of the dam resulted, but emergency repairs prevented further damage and contamination of the water supply. Runoff in 2015 was unusually high as well, due to the amount of snowfall in April and unusually warm temperatures in June, necessitating emergency action again. This project constructed a replacement of the existing flumes with a new concrete inlet and trash structure, a concrete outlet structure, and a buried pipeline to carry the flows around the existing reservoir. This project met its two primary objectives of the project: to protect water quality for the City of Leadville, and to prevent failure of the Evans Reservoir dam related to flume failure.

	R O J E C	T DAT	A
Sponsor: Parkville Water District	County: Lake		Water Source: Evans Gulch
Type of Project: Ditch Rehabilit	ation	Board Approval	Date: September 2015
Loan Terms: (Original) \$181,800 @ 1.95% for 10 years (Final) \$181,800 @ 1.95% for 10 years			
Design Engineer: W.W. Wheeler & Associates, Inc.			
Contractor: Mountain Structures Inc.			
Project Elements: Concrete inlet and outlet outlet structures, ABS pipeline			



Water Meter Replacement Project

City of Cortez

Substantially Complete December 1, 2016



system and providing all training associated with said software.



Project Description

The City supplies potable water to the residents of Cortez, the Ute Mountain Ute Tribe, and Montezuma County Water District No. 1. Its supply comes from McPhee Reservoir. The existing system has 3,550 meters that range in age from 25 to 70 years old. The meters are inaccurate and are failing to capture customer usage information. The City replaced its old meters with smart meters that provide data storage and the ability to better manage water within the distribution system. The City is also received a \$50,000 Water Efficiency Grant from the CWCB and a \$200,000 grant from DOLA for this project. Neptune Technology Group from Centerville, UT manufactured the meters and Caselle Connect Application Software from Provo, UT provided the software to read the meters and assist the City with billing and receiving payments.

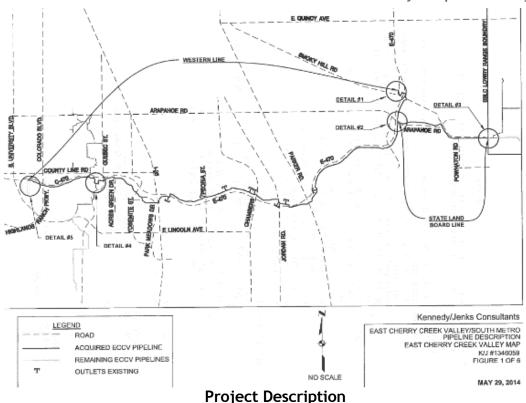
PROJECT DA	T A		
Sponsor: City of Cortez	County: Montezuma	Water Source: Dolores River	
Type of Loan: Meter Replacemen	t Board Approval	Date: January 2015	
Terms of Loan: (Original) \$858,5	00 at 2.1% for 10 years <i>(Final)</i> \$8	50,212.30 at 2.1% for 10 years	
Design Engineer: City of Cortez Engineer, Ken Torres, P.E.			
Contractor: D & L Construction, Cortez, CO			
Project Elements: Installation services for approximately 3,550 residential and commercial water			
meters ranging from 3/4 "X 5/8" to 3". The project also included providing the materials and			
training for both handheld and mobile data collection systems, as well as installing a host software			



Water Infrastructure and Supply Efficiency Project (WISE) ECCV Pipeline Purchase

Cottonwood Water and Sanitation District Contract No. CT2015-102

Substantially Complete January 1, 2017



The WISE Project is a collaborative effort by multiple south metropolitan water entities (the WISE Authority), Denver Water, and Aurora water to supplement existing water supplies by bringing reusable water supplies southward through Aurora's Prairie Waters pipeline to the East Cherry Creek Valley (ECCV) Pipeline. The WISE Authority purchased an 85% ownership share in the existing ECCV Pipeline, while the remaining 15% was purchased by Denver Water. The WISE Authority will operate and maintain the ECCV pipeline. Each WISE Authority member's cost obligations for the project are dictated by an Organizational Agreement between the WISE Authority and WISE Authority member entities, and are dependent upon each member's subscription share for water deliveries.

This Water Project Loan financed the Cottonwood Water and Sanitation District's cost share obligations for the purchase of the ECCV Pipeline by the WISE Authority, resulting in a license agreement for approximately 4.9% capacity of pipeline deliveries.

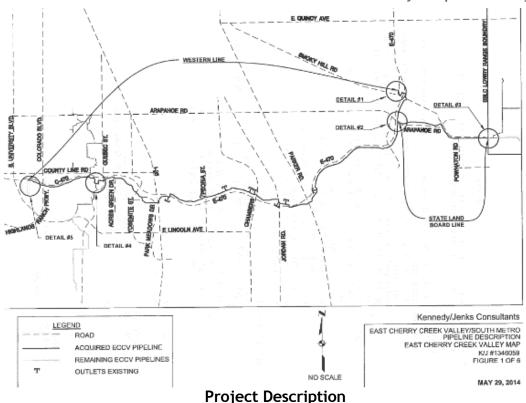
Р	rojec	t dat	a
Sponsor: Cottonwood Water and Sanitation District	County: Douglas	& Arapahoe	Water source: South Platte
Type of loan: Municipal Water Supply System Board approval date: May 22, 2014			
Terms of loan: 30 years @ 3.00% (Original) \$381,780.00 (Final) \$342,921.05			
Design engineer: No design was financed for this WISE Project element.			
Contractor: No construction was financed for this WISE Project element.			
Project elements: License Agreement for approximately 4.9% capacity in the ECCV pipeline.			
-			



Water Infrastructure and Supply Efficiency Project (WISE) ECCV Pipeline Purchase

Inverness Water and Sanitation District Contract No. CT2015-117

Substantially Complete January 1, 2017



The WISE Project is a collaborative effort by multiple south metropolitan water entities (the WISE Authority), Denver Water, and Aurora water to supplement existing water supplies by bringing reusable water supplies southward through Aurora's Prairie Waters pipeline to the East Cherry Creek Valley (ECCV) Pipeline. The WISE Authority purchased an 85% ownership share in the existing ECCV Pipeline, while the remaining 15% was purchased by Denver Water. The WISE Authority will operate and maintain the ECCV pipeline. Each WISE Authority member's cost obligations for the project are dictated by an Organizational Agreement between the WISE Authority and WISE Authority member entities, and are dependent upon each member's subscription share for water deliveries.

This Water Project Loan financed the Inverness Water and Sanitation District's cost share obligations for the purchase of the ECCV Pipeline by the WISE Authority, resulting in a license agreement for approximately 6.1% capacity of pipeline deliveries.

P	rojec	t dat	a
Sponsor: Inverness Water and Sanitation District	County: Douglas	& Arapahoe	Water source: South Platte
Type of loan: Municipal Water Supply System Board approval date: May 22, 2014			
Terms of loan: 20 years @ 2.75% (Original) \$1,874,270.00 (Final) \$1,874,270.00			
Design engineer: No design was financed for this WISE Project element.			
Contractor: No construction was financed for this WISE Project element.			
Project elements: License Agreement for approximately 6.1% capacity in the ECCV pipeline.			



L.E.D.E Ditch & Reservoir Upgrade Project Town of Gypsum













Figure 4 - Riprap Placement

Figure 5 - Spillway Channel Riprap Armoring

Project Description

The Town of Gypsum purchased the LEDE Ditch and LEDE Reservoir water rights in 2006. The reservoir is located in the headwaters of Gypsum Creek, south of Gypsum within the White River National Forest. The original water rights were decreed for irrigation uses, and provide storage of up to 947 AF in the reservoir. The Reservoir was originally built to a capacity of 431 AF. In order to accommodate continued agricultural irrigation, and for future water supplies to the Town, the project was designed to increase capacity to 947 AF. This upstream storage is required to assist in managing Gypsum Creek water rights calls and dry year operations. The reservoir storage will become even more important as the Town's population continues to increase.

With this project, the Town repaired and improved the reservoir to utilize its full potential, protecting valuable senior storage rights in the reservoir. Design and permitting commenced in 2009/2010, pipeline construction started in late 2009, and dam construction completed in 2016.

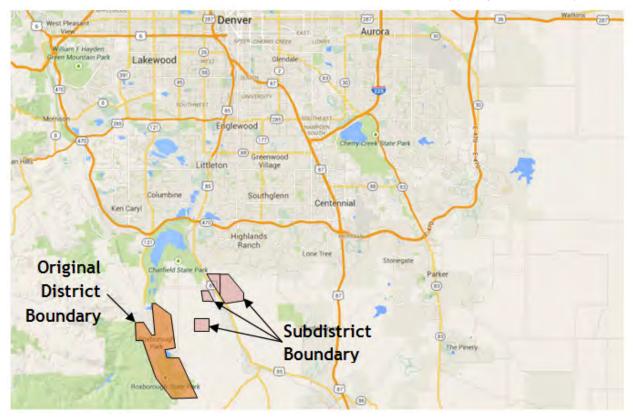
P	R O J E C T D	DATA
Sponsor: Town of Gypsum	County: Eagle	Water Source: Gypsum Creek
Type of Loan: Reservoir Rehabili	itation and Enlargement	Board Approval Date: May 2009
Loan Terms: 4.5% for 30 years (C	Original) \$2,689,731 (Final)	\$2,689,731 WSRF Funding: \$225,000
Design Engineer: Zancanella and	Associates	
Contractor: Hobbs Construction		



Raw Water Supply Project

Plum Valley Heights Subdistrict of the Roxborough Water and Sanitation District

Substantially Complete February 1, 2017



Project Description

Plum Valley Heights Subdistrict of the Roxborough Water and Sanitation District was recently formed to provide rural communities in Douglas County with a renewable water supply. The communities will be connected to the Roxborough Water and Sanitation District system through an infrastructure project funded by a WSRA grant, CWRPDA loan, and Douglas County. The total project cost (including infrastructure) is approximately \$14.9M. The CWCB loan financed the acquisition of a renewable water supply from the City of Aurora.

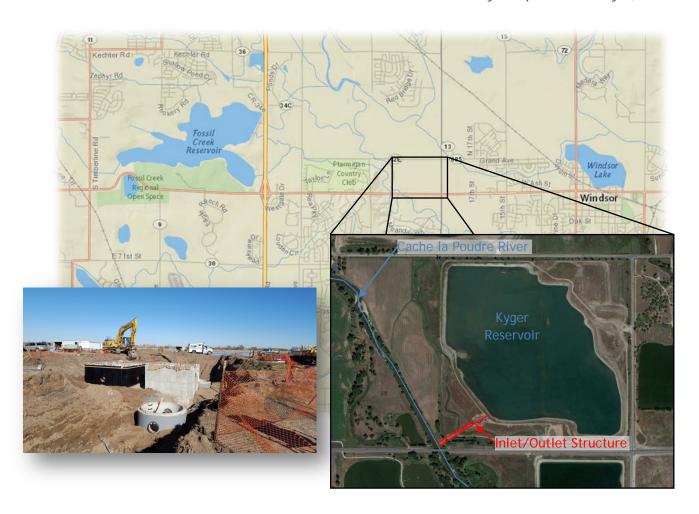
The existing residential developments of Chatfield Acres, Chatfield East, and Plum Valley Heights, and the industrial development of Titan Road Industrial Park, were built in the 1970s and 1980s. These developments are currently served by individual wells completed in the non-tributary Denver Basin aguifers. Water levels in the Denver Basin aguifers are declining, particularly in the margins of the aguifers where these developments are located. As a result, existing wells in these developments have either already failed, or are in danger of failing. The Metro Roundtable had determined this project is an important component of replacing the use of non-tributary groundwater in the South Metropolitan Area of Denver and in solving the water supply gap identified in SWSI.

P	ROJECT DAT	A
Sponsor: Plum Valley Heights Subdistrict of the Roxborough Water & Sanitation District	County: Douglas	Water Source: South Platte River
Type of Loan: Water Rights Purc	hase Board Approval	Date: May 2015
Terms of Loan: \$2,248,260 @ 3.0	05% for 30 years	
Design Engineer: NA		
Contractor: NA		
Project Elements: Purchase of a l	ong term water lease with the City	of Aurora for 150 AF per year.





Substantially Complete February 1, 2017



Project Description

The Town of Windsor was incorporated in 1890 and adopted its Home Rule Charter in 2003. The Town's Water Activity Enterprise was created by a Town Ordinance in 1994 and serves approximately 5,600 taps (2013). The Town has seen tremendous growth over the last decade and has a current population of approximately 18,700 people. The Town purchased a lined gravel pit known as Kyger Reservoir in 2014 to increase its water supply storage. Construction of the inlet, outlet, and conveyance structures occurred from fall 2016 through winter 2017. This infrastructure allows the Town to divert from the river to gravity fill the reservoir, and also to reverse flow and pump to the river from the reservoir to make releases. CWCB Loan funds went to the purchase of the reservoir and infrastructure construction. Based on a sonar survey, the Project added 1,257 acre-feet of usable storage capacity for the Town.

Р	R O J E C	T DAT	A
Sponsor: Town of Windsor	County: Larimer	~ & Weld	Water Source: Cache la Poudre
Type of Loan: Reservoir Construc	tion	Board Approval	Date: September 2013
Terms of Loan: \$4,545,000 at 2.75% for 20 years			
Design Engineer: Wenck Associates			
Contractor: Moltz Constructors			
Project Elements: Purchase of lined gravel pit. Construction of river diversion with overshot gate, pipelines, pumps, reservoir inlet/outlet structure.			



Hallenbeck Reservoir No. 1 Dam Rehabilitation

City of Grand Junction

Substantially Complete March 1, 2017



Figure 2 - After Construction

Project Description

Hallenbeck Reservoir No. 1 is one of the City of Grand Junction's 14 reservoirs. It has a capacity of 699 acre-feet. In 2014 the City of Grand Junction developed plans to mitigate seepage through the dam; however, during the evaluation process, seepage increased and an 80-foot crack developed on the downstream face of the dam. Water was immediately released from the reservoir in an effort to relieve hydrostatic pressure within the dam. The City completed a forensic evaluation of the dam that included a geotechnical investigation and structural evaluation.

With this project, the City repaired the dam to allow the City to use all of the storage capacity. Construction involved removal of several feet of material on the downstream face of the dam, removal of the existing toe drain system, installation of a blanket filter on the downstream face, installation of a new toe drain system, installation of a buttress on the downstream face, and installation of new piezometers and monuments. Construction began in August 2016 and was completed in December 2016.

P	ROJECT	D A T	A						
Sponsor: City of Grand Junction	County: Mesa		Water Source: Kannah Creek						
Type of Loan: Reservoir Rehabilita	Board Approval Date: March 2016								
Loan Terms: 2.65% for 20 years (Or	iginal) \$1,010,000 (Final)	\$764,820	.93 WSRF Funding: \$100,000						
Design Engineer: AECOM									
Contractor: M.A. Concrete Construc	ction, Inc.								



Reconstruction of Harmony No. 1 Measurement Structure

Julesburg Irrigation District Substantially Complete March 1, 2017



Project Description

The Julesburg Irrigation District (District), part owner and the operator of the Harmony No. 1 Canal, delivers both Direct Flow rights and Storage water rights to the Julesburg Reservoir. The Canal diverts water from the South Platte River approximately three miles southwest of the town of Crook, Colorado. The Canal delivers direct flow irrigation water, storage water, and augmentation water to approximately 17,000 acres of land controlled by the Harmony Ditch Company and Julesburg Irrigation District. The Canal can also be used to deliver irrigation water to an additional 6,000 acres thru the Julesburg Reservoir rights administered to the Petersen Canal as a supplemental source if supplies at the Petersen head gate are not adequate. The existing 20 foot Parshall Flume experienced structural damage over time to the point of failure. The District demolished the existing structure, replacing it with a new structure located just upstream. The purpose of this project was to provide a reliable measurement structure to accurately measure the flow of the Harmony No. 1 Canal for the various water rights being used by the Julesburg Irrigation District.

PROJECT DAT	A								
Sponsor: Julesburg Irrigation District County: Sedgwick	Water Source: South Platte								
Type of Project: Ditch Rehabilitation Board Approval	Date: May 2016								
Loan Terms: 1.70% for 30 years (Original) \$203,616 (Final) \$203,61	Loan Terms: 1.70% for 30 years (Original) \$203,616 (Final) \$203,616								
Design Engineer: Draht Consulting, LLC									
Contractor: Concrete Specialties and Utilities Construction									



Well Replacement Project

Bellyache Ridge Metropolitan District Substantially Complete April 1, 2017



Project Description

The District is located in Eagle County approximately six miles west of Edwards, Colorado. The District's water system includes three wells (#1R, 2, and 3) that fill two storage tanks. From January through March of 2013, the District had to haul in water because declining well production was not able to keep up with demands. In order to reduce the likelihood of future hauling of water, the District drilled a replacement for well #2. In addition to the CWCB loan, the Department of Local Affairs provided a \$167,500 grant.

Р	R O J E C	T DAT	A						
Sponsor: Bellyache Ridge Metropolitan District	County: Eagle		Water Source: Groundwater						
Type of Project: Well Replacem	ent	Board Approval Date: July 2013							
Loan Terms: 3.00% for 30 years (0	Original) \$169,17	5.00 (Final) \$140	0,586.73						
Design Engineer: Zancanella and Associates, Inc.									
Contractor: Shelton Drilling									



Dam Outlet Works Rehabilitation Project

Oligarchy Irrigation Company

Substantially Complete April 1, 2017



Project Description

The Oligarchy Irrigation Company owns and operates the Oligarchy #1 Dam and Reservoir, also known as Burch Lake. The reservoir stores 1,737 acre-feet of water and is classified as a significant hazard dam by the State Engineer's Office Dam Safety Branch (SEO). The purpose of the project was to rehabilitate the aging outlet works per the SEO's recommendation as the existing outlet was pressurized through the embankment, had difficult access for inspection and difficult operation of the valve, and the overall poor condition of the outlet structure. The Project constructed a new outlet works gate vault, outlet works piping, intake structure, and discharge structure. With the new upstream gate there is now a way to inspect the outlet works system without draining the lake. After completing final design and receiving contractor bids, the company sought, and was approved for, a 15% increase to the loan contract at the May 2016 Board Meeting. Construction began in May 2016 and was completed in October 2016.

Р	R O J E C	T DAT	A							
Sponsor: Oligarchy Irrigation Company	County: Boulde	r	Water Source: St. Vrain Creek							
Type of Project: Dam Rehabilita	ation	Board Approval Date: July 2015								
Final Terms of Loan: \$901,930	Final Terms of Loan: \$901,930 @ 2.40% for 30 years									
Design Engineer: Deere & Ault C	onsultants									
Contractor: Moltz Constructors	Contractor: Moltz Constructors									
Project Elements: Outlet Works incl. 24" diameter sluice gate, trash rack, 24" restrained concrete encased outlet pipe, discharge structure										



Drop 5 Hydroelectric Project

Uncompander Valley Water Users Association
Substantially Complete April 1, 2017



Project Description

The Uncompangre Valley Water Users Association (Association) provides irrigation water to over 85,000 acres in Montrose and Delta Counties. This Hydroelectric Project was developed by the W.U. Drop 5 Inc. a wholly owned Company of the Association. The Project is a 2.2 MW of hydroelectric power plant facility on its existing South Canal. The power will be sold to Delta Montrose Electric Association under a Power Purchase Agreement. The Uncompangre Project Area Federal Irrigation Systems is one of the oldest (1903) Bureau of Reclamation projects. The Association currently has five small-scale hydroelectric facilities on their system. This Project includes a diversion/bypass gate in the existing canal to divert water into the intake/power house structure. Flows are returned to the existing canal and do not affect the delivery of irrigation water. An intake/powerhouse structure houses the generator and mechanical/electrical equipment. The turbine is a vertical double regulated Kaplan turbine. These Kaplan units have been installed in the Association's Drops #1, #3 and #4. A switchyard was constructed at the powerhouse with a transformer capable of stepping up the power generated to the necessary interconnection voltage.

Р	R O J E C	T DAT	A						
Sponsor: Uncompangere Valley Water Users Association	County: Delta 8	t Montrose	Water Source: Gunnison River						
Type of Loan: Hydroelectric Pro	ject	Board Approval Date: May 2015							
Terms of Loan: 2.0% for 20 years	s (Initial) \$6,999,	300.00 (Final) \$6,	426,813.80						
Design Engineer: Sorenson Engineering									
Contractor: Shavano Falls Hydro, LLC									



Reservoir No. 4 Rehabilitation

North Poudre Irrigation Company Substantially Complete May 1, 2017



Project Description

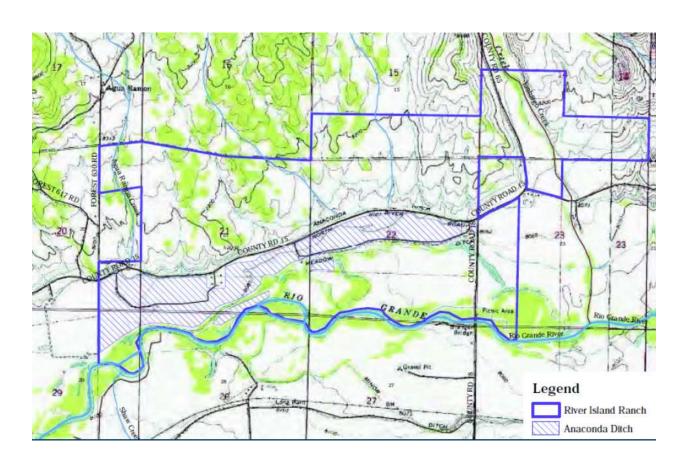
The North Poudre Irrigation Company is a mutual ditch company established in 1901. The Company's office is located in Wellington with a service area of approximately 28,000 irrigated acres of farm land. Reservoir No. 4 is an off stream reservoir constructed in the late 1880s, enlarged in the 1920s, and had the outlet works replaced in the late 1950s. The Reservoir No. 4 Rehabilitation Project modified the dam including its slope, outlet works, drains, spillway, and measurement structure, while also providing a new parking area and floodplain improvements. The primary purpose of the project was to lift the State Engineer's storage restriction on the reservoir and dam and improve the overall reservoir facility. The Project was approved by the SEO and the water storage restriction was lifted on October 11, 2016, restoring 674 AF of water storage.

Р	R O J E C	T DAT	A							
Sponsor: North Poudre Irrigation Company	County: Larimer		Water Source: Cache La Poudre							
Type of Loan: Reservoir Rehabilit	tation	Board Approval Date: November 2013								
Terms of Loan: (Original) \$2,263	Terms of Loan: (Original) \$2,263,410.00 at 2.35% for 30 years (Final) \$2,189,757.89									
Design Engineer: Ronald H. Slosso	on, P.E.									
Contractor: Zak Dirt										
Project Elements: Restoration of 674 AF of storage. New outlet incl. 30" dia. outlet conduit w/ measurement flum, gate tower, spillway drop structures, toe drain w/ measurement weir.										



Anaconda Ditch Water Rights Acquisition Project

San Luis Valley Water Conservancy District Substantially Complete May 1, 2017



Project Description

The San Luis Valley Water Conservancy District operates an augmentation program servicing portions of Rio Grande, Alamosa, Saguache, Hinsdale and Mineral Counties. The augmentation program was developed to offset river depletions from wells serving residential and commercial uses in the area. To add to the existing augmentation program, the District is purchased a 58% interest in the Anacnoda Ditch, providing an additional 304.8 acre-feet of augmentation water.

P	R O J E C	T DAT	A						
Sponsor: San Luis Valley Water	County: Alamos	ú	Water Source: Rio Grande						
Conservancy District	County. Alamos	a	River						
Type of Project: Water Rights Po	urchase	Board Approval Date: March 2013							
Loan Terms: 2.5% for 30 years	(Original) \$1,123,	574.50 (Final)	\$1,123,574.50						
Design Engineer: Davis Engineering Service, Inc.									
Contractor: N/A									



Sanford Diversion and Headgate Rehabilitation

Sanford Canal Company

Substantially Complete May 1, 2017







Project Description

The Sanford Canal Company was incorporated in 1892 as a "Colorado Water Company" and later became a Mutual Ditch Company in 1912. Its diversion is located on the Conejos River just below the confluence with the San Antonio River and has a service area covering approximately 3,000 irrigated acres. The purpose of this Project was to address the need for a well-designed diversion structure that will reduce maintenance, improve water management efficiencies, and allow for the accurate control of compact-entitled waters. The core of the Sanford Canal diversion structure had been washed away over time, contributing to decades of limited diversion to irrigators and potential over payment to the Compact. This Project removed and replaced the diversion and headgate structures and installed automated headgates and four gauging stations.

This Project is one of three projects collectively known as the Conejos River System Confluence Management Project, managed by the Conejos Water Conservancy District. The District has taken a proactive "whole river" system approach to water management and over the past few years have improved the efficiency and stability of many diversions, developed real-time water management data, and studied the effects on return flows from irrigated areas from groundwater withdrawals. The Confluence Management Project extended this whole river strategy to the Confluence, specifically to the Sanford Canal, Ephraim Ditch, and East Bend Ditch.

P	R O J E C	T DAT	A							
Sponsor: Sanford Canal Company	County: Rio Gra	nde	Water Source: Conejos River							
Type of Loan: Ditch Rehabilitation	n	Board Approval Date: May 2014								
Terms of Loan: \$101,000 at 1.75	% for 30 years									
Design Engineer: Natural Resource	es Conservation S	Service (NRCS)								
Contractor: Natural Progression F	lomes, LLC									
Project Elements: Diversion Dam (core), sluice gate, headgates, automation, 4 gauging stations										

					New	Recovered						Attachment 3
	Contract Borrower	County	Loan Amount	Total Storage	Storage Effect	Storage Effect	Annual Delivery	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
	Projects in Design or Construction											
1	Bennett, Town of >Wells #3 and #6 Replacement Project CT2015-161 *\$	Adams Arapahoe	\$1,454,000	-	-	-	261	100%	May 2015 - June 2017	90%	ACM	Drilling began in May 2015. All drilling was complete as of the end of July. Temporary were replaced by permanant pumps and the Town is in the process of bringing the wells online. and expects that process to be complete in the summer of 2017.
2	Central CO WCD - WAS > Augmentation Water Supply Project C150337 (CT2015-060) *90%	Weld/ Adams/ Morgan	\$3,030,000	-	1	-	20,400	100%	N/A	N/A	JMH	Purchased a portion of the water rights on 4/25/13. An additional 1 share of PVIC has been identified for inclusion prior to Mar 2017 expiration date. Final pay request is pending. Loan will be SC on June 1, 2017 to line up with other CWCB loans currently in repayment
3 - (CHATFIELD Reallocation Project - First Cost of Storage			38,005	20,600	-	44,456					\$54,633,223
3а	Castle Pines North Metropolitan District >(C150404A) CT2016- 2049 *\$	Arapahoe Douglas Park Weld	\$723,160					N/A	2019	N/A	JMH	
3b	Centennial Water & Sanitation District >(C150405A) CT2016- 2053 *\$	Arapahoe Douglas Park Weld	\$4,978,290					N/A	2019	N/A	JMH	This contract is to provide reimbursement for the Chatfield Reallocation Project, specific to the "first cost of storage." To date, Chatfield participants
3с	Center of Colorado Water Conservancy District >(C150406A) CT2016- 2047 *\$	Arapahoe Douglas Park Weld	\$94,637					N/A	2019	N/A	JMH	have not yet had to make this payment. It is now estimated funds may not be required until 2019.
3d	Central Colorado Water Conservancy District >(C150407A) CT2016- 2057 *\$	Arapahoe Douglas Park Weld	\$3,187,560					N/A	2019	N/A	JMH	
4 - (CHATFIELD Reallocation Project - Phase 1 Mitigation											\$37,786,120
4a	Castle Pines North Metropolitan District >(C150404B) CT2016- 2050 *\$	Arapahoe Douglas Park Weld	\$4,143,020		1,006			30%	2017 - 2022	0%	JMH	
4b	Centennial Water & Sanitation District >(C150405B) CT2016- 2055 *\$	Arapahoe Douglas Park Weld	\$28,527,450		6,922			30%	2017 - 2022	0%	JMH	This contract is to provide reimbursement for the Chatfield Reallocation Project, for engineering, recreation facilities construction, on-site mitigation, off-site mitigation, and mitigation monitoring. Phase 1 covers the work required to be done to allow storage to occur.
4c	Center of Colorado Water Conservancy District >(C150406B) CT2016- 2048 *\$	Arapahoe Douglas Park Weld	\$511,363		131			30%	2017 - 2022	0%	JMH	The Chatfield Reservoir Mitigation Company has been formed and CDM Smith/Leonard Rice has been selected at the Project Program Manager. Engineering work to develop a final design and more specific construction cost estimate can now start. Final cost estimate expected March or April 2017
4d	Central Colorado Water Conservancy District >(C150407B) CT2016- 2058 *\$	Arapahoe Douglas Park Weld	\$18,263,830		4,274			30%	2017 - 2022	0%	JMH	2017
5 - 0	CHATFIELD Reallocation Project - Phase 2 Mitigation											\$7,000,310
5a	Castle Pines North Metropolitan District >(C150404C) CT2016- 2051 *\$	Arapahoe Douglas Park Weld	\$1,587,720					0%	2022 - 2028	0%	JMH	
5b	Centennial Water & Sanitation District >(C150405C) CT2016- 2056 *\$	Arapahoe Douglas Park Weld	\$10,934,260					0%	2022 - 2028	0%	JMH	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 will cover work remaining after storage is allowed.
5c	Central Colorado Water Conservancy District >(C150407C) CT2016- 2060 *\$	Arapahoe)ouglas Weld	\$7,000,310					0%	2022 - 2028	0%	JMH	

												Attacriment 3
6	Chilcott Ditch Company >Jimmy Camp Creek Siphon Reconstruction CT2017-3188	El Paso	\$580,750	-	-	-	4,961	100%	Feb 2017 - April 2017	75%	DRJ	Under Construction.
7	Dixon Canon Ditch & Reservoir Company >Dixon Reservioir Dam Improvements CT2017-914 \$	Larimer	\$278,100	412	-	412	312	100%	Spring 2017 - May 2017	0%	JMH	Bids were opened 12/14/16. 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. SEO approved plans and borrower is working with contractor on final schedule. If unable to complete by May, will push construction to Fall 2017
8	Duke Ditch Company >Piping the Duke Ditch CT2017-915 \$	Delta	\$90,000	-	-	-	2,424	30%		0%	ACM	Loan and grant contracts were executed in August 2016. NRCS is working on design. Construction is expected to start in the fall of 2017.
9	Fowler, Town of > Augmentation Pipeline Project C150359 (CT2015-054) *\$	Otero	\$277,245	-	-	-	157	100%	Fall 2017 - Spring 2018	0%	DRJ	Engineering completed. Easement and appraisal processes causing delays. Bid process to occur in next several months.
10	Georgetown, Town of > Outlet Works Modification Project C150321 (CT2015-055) *\$90%	Clear Creek	\$2,976,975	386	,	386	208	100%	Aug 2014 - April 2017	99%	ACM	Construction began in August 2014 and was mostly complete by April 2016. When the new outlet gate was tested, operational issues were identified. The Town is working on solutions with additional engineering support and gate manufacturers. The Town requested a one-year extension to the loan contract.
11	Grand Mesa Water Conservancy District > Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061) *\$	Delta	\$227,250	155	-	155	400	100%	Mar 2013 - Aug 2017	50%	ACM	Construction on Peak Reservoir began in the 2013 season and was completed in Oct 2014. Blanche Park construction was delayed due to Federal permitting issues. SEO approved construction drawings in June 2016. The District anticipates a loan extension and increase in May 2017.
12	Grand Valley Water Users Association >Government Highline Canal Lining CT2017-2258	Mesa	\$151,500	-	-	-	260,000	50%	Aug 2017 - Dec 2017	0%	ACM	Final design and permitting are underway. Construction is planned for late summer 2017.
13	Huerfano County Water Conservancy District > Regional Augmentation Project C150364 (CT2015-047) *\$	Huerfano	\$2,222,000	-	-	-	20	75%	Jan 2014 - Mar 2019	60%	ACM	Land and water rights purchase occurred in January 2014. Camp Ranch augmentation site construction is complete. The Red Wing augmentation project is on hold pending a re-evaluation of sites for the augmentation site. Alternative sites are under consideratin.
14	Lake Durango Water Authority > Source Water Supply Project C150317 (CT2015-013) *\$90%	LaPlatta	\$2,525,000	-	-	-	309	100%	Oct 2016 - Oct 2017	15%	KGR	Project Construction begin in October. Most of the pipe has been delivered and stored on site. Road alignment from highway to the outlet tower has been roughed cut in. Blasting was required in some areas.
15	Lake McIntosh Reservoir Company >Lake McIntosh Outlet Works Repair CT2016-2794 \$	Boulder	\$1,727,100	2,476	-	2,476	1,533	100%	Jan 2017 - May 2017	50%	JMH	Phase 1 construction includes pipeline from ditch crossing to downstream manhole. Phase 2 to include piping under roadway and Platte Rive Power Authority substation. Phase 1 Construction began January 2017 and was completed in April 2017. Phase 2 to begin after PRPA negotiations/coordination are complete.
16	Lamar, City of >Repurposing of Wells 12 and 13 CT2017-917	Prowers	\$101,000	-	-	-	2,005	100%	May 2017 - Aug 2017	1%	DRJ	Bidding and procurement of pipe and well materials under way. Construction anticipated early May.
17	Larimer & Weld Irrigation Company >Headgate Structure Replacement CT2017-2253	Larimer & Weld	\$681,750	-	-	-	85,000	100%	Fall 2017 - Spring 2018	0%	JMH	Bids received in September 2016 exceeded budget and the Company elected not to award the project at this time. Project was rebid in March 2017 and awarded to Moltz. Preconstruction meeting scheduled for May 2, 2017.
18	Lookout Mountain Water District > Upper Beaver Brook Dam Spillway CT2016-2515 \$	Clear Creek	\$3,099,690	257	134	123		100%	June 2016 - August 2017	75%	DRJ	Spillway labrynth weir concrete wall pours completed Jan 2017. Activity on site expected to pick up again early Spring depending on weather. Clearing of inundated trees to start.
19	Monte Vista, City of > Augmentation Water Rights Acquisition C150309 (CT2015-011) *\$	Rio Grande	\$1,693,770	-	-	-	1,212	50%	N/A	N/A	ACM	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.

21 Schreider Research Distal Pige Project Delas \$161,500					i		i						Attacriment 3
21 Schreider Research Distal Pige Project Delas \$161,500	20	> Rehabilitation of the Livermore Irrigation Tunnel	Larimer	\$1,451,673	-	-	-	44,400	100%	-	98%	DRJ	Tunnel completed, water flowing.
22	21	>Orchard Ranch Ditch Pipe Project	Delta	\$151,500	-	-	-	2,750	15%	-	0%	DRJ	Construction fall 2017, may delay to Spring 2018 depending on progress of elements of project through Buereau of Reclamation. Company continues to explore supplementary grant funding options.
23	22	> Overland Reservoir Rehabilitation	Delta	\$1,141,300	6,200	971	-	17,000	50%	Permitting	0%	KGR	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.
24 Steeped Reservoir Splitway Engagement CTC2017 (CTC1017 (2)) Supply (CTC1016 (2)) Suppl	23	> Ditch System Rehabilitation	Chaffee	\$186,345	-	-	-	3,260	85%	-	80%	ACM	Ditch lining phase of the project was completed in December 2010. NRCS completed design plans for replacment of the river diversion structure & construction occured in Nov 2016. Additional ditch work is expected in 2017. A loan extension request is underway.
25 Sanchez Reservoir Outlet Rehabilitation Project Costilla \$1,381,276 55,000 - 15,000 100% Marro 2017 99% ACM 2015, Seepage and monitoring work is currently orgoning. A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work. Surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring work surrently orgoning A loan in anticipated in 2017 to finish seepage monitoring worksurrently orgoning A loan in an	24	> Riverside Reservoir Spillway Enlargement	Weld	\$2,838,100	64,000	1	-	105,000	90%		0%	DRJ	Plans under review by SEO. Construction timing indeterminate. Contract extension in progress.
28	25	> Sanchez Reservoir Outlet Rehabilitation Project	Costilla	\$1,381,276	55,000	1	-	15,000	100%	-	99%	ACM	Construction began in Oct 2014. Outlet works work was completed in Jan 2015. Seepage and monitoring work is currently ongoing. A loan increase is anticipated in 2017 to finish seepage monitoring work.
27	26	>Lake 4 Outlet Pipeline Repair	Boulder	\$619,130	600	-	600	182		-		JMH	
28	27	> Lambert Ranch Water Rights Purchase	Douglas	\$318,150	-	1	-	55	N/A	N/A	N/A	JMH	Closing was delayed until 2015 due to easement access to purchased wells. Closing on water rights occurred September 2015. Easement aquisition process is still underway pending final pipeline alignment.
29 >Laramie-Poudre Tunnel Rehabilitation CT2016-2001 \$ Spring 2015 Spring 20	28	>Storage Development and Water Rights Purchase	Weld	\$10,000,000	1,092	1,092	-	2,442	5%	- 1	0%	DRJ	
Seservoir Rehabilitation Custer Sa,009,800 1,095 500 167 500 100% Permitting 90% KGR completed in May 2007. The Permitting effort for the enlargment is underway and expected to be complete by Dec 2018. West Reservoir and Ditch Company Separation Sept 2016 Sep	29	>Laramie-Poudre Tunnel Rehabilitation	Larimer	\$1,111,000	-	-	-	6,875	100%	· -	70%	JMH	Phase 1 (Inlet) construction started September 2015 and is complete. Phase 2 (outlet) construction is in nearing final design and is planned for construction in Spring 2017, but may need to be extended till Fall 2017.
Sept 2016 Sept	30	> Reservoir Rehabilitation		\$3,009,800	1,095	500	167	500	100%	Permitting	90%	KGR	
32a Cottonwood W&S Dist - C150408B (CT2015-106) *\$ Douglas/ Arapahoe \$2,636,100	31	>Repair of West Reservoir No. 1 Outlet Works	Delta	\$313,018	455	-	455	604	100%	-	99%	DRJ	Project complete. Final disbursement completed. SC imminent. "Reservoir is about 75% filled" as of 4/18.
32a Cottonwood W&S Dist - C150408B (CT2015-106) *\$ Spring 2015 S	32 -	WISE Project - Phase 1 Infrastructure											\$16,802,501
32b Inverness W&S Dist - C150409B (CT2015-118) *\$ Douglas/Arapahoe \$1,181,700 100% - Jan 2017 Infrastructure to treatment plant completed. 42-inch Pipeline construction Spring 2015 Ridgeway line continues. E470 bore complete. 32c Parker W&S Dist - C150410B (CT2015-108) *\$ Arapahoe \$6,785,321 990% - 60% DRJ DRJ		,		\$2,636,100					100%		80%	DRJ	
32c Parker W&S Dist - C150410B (CT2015-108) *\$ Douglas/ Aranahoe \$6,785,321 90% - 60% DRJ	32b	Inverness W&S Dist - C150409B (CT2015-118) *\$	Douglas/ Arapahoe	\$1,181,700					100%	-	40%	DRJ	Infrastructure to treatment plant completed. 42-inch Pipeline construction on
Jan 2017	32c	Parker W&S Dist - C150410B (CT2015-108) *\$	Douglas/ Arapahoe	\$6,785,321					90%	Spring 2015 - Jan 2017	60%	DRJ	Ridgeway line continues. E470 bore complete.

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32d	Pinery (Denver SE Sub W&S Dist) C150411B (CT2015-085) *\$	Douglas/ Arapahoe	\$6,199,380					90%	Spring 2015 - Jan 2017	60%	DRJ	
33	WISE Project - Phase 2 Infrastructure											\$7,400,078
33 -	WISE Floject - Fliase 2 Illiastructure											
33a	Cottonwood W&S Dist - C150408C (CT2015-105) *\$	Douglas/ Arapahoe	\$1,127,160					0%	Spring 2018 - Fall 2021	0%	DRJ	
33b	Inverness W&S Dist - C150409C (CT2015-119) *\$	Douglas/ Arapahoe	\$1,427,130					0%	Spring 2018 - Fall 2021	0%	DRJ	
33c	Parker W&S Dist - C150410C (CT2015-109) *\$	Douglas/ Arapahoe	\$3,418,658					0%	Spring 2018 - Fall 2021	0%	DRJ	
33d	Denver SE Sub W&S Dist - C150411C (CT2015-086) *\$	Douglas/ Arapahoe	\$1,427,130					0%	Spring 2018 - Fall 2021	0%	DRJ	
34 -	WISE Project - DIA Connection											
34a	Cottonwood W&S Dist - C150408D (CT2015-104) *\$	Douglas/ Arapahoe	\$363,600					52%	N/A	NA	DRJ	Annual diisbursment to be made on this loan through 2021.Design Status indicates percent of funds disbursed to date.
34b	Inverness W&S Dist - C150409D (CT2015-120) *\$	Douglas/ Arapahoe	\$454,500					45%	N/A	NA	DRJ	Annual diisbursment to be made on this loan through 2021.Design Status indicates percent of funds disbursed to date.
34c	Parker W&S Dist - C150410D (CT2015-110) *\$	Douglas/ Arapahoe	\$1,099,890					52%	N/A	NA	DRJ	Annual diisbursment to be made on this loan through 2021.Design Status indicates percent of funds disbursed to date.
34d	Denver SE Sub. W&S Dist (Pinery) - C150411D (CT2015-087) *\$	Douglas/ Arapahoe	\$454,500					52%	N/A	NA	DRJ	Annual diisbursment to be made on this loan through 2021. Design Status indicates percent of funds disbursed to date.
	Projects Un	der Contract	\$150,164,091	170,133	35,630	4,774	621,726					
	*= No Option Ltr \$= 1% SF in CORE 90%= Contract Restriction											
	Approved Projects - Not Under Contract											
	Approved Projects - Not Orider Contract											
а	Grand Valley Water Users Association >Grand Valley Power Plant Rehabilitation CT2017-2875	Mesa	\$1,717,000	-	-	-	-		In Contracting		JMH	BOR Design meeting 2/28
b	North Poudre Irrigation Company >Mountain Supply Reservior No. 10 Repairs CT2017-3641	Larimer	\$499,950	344	0	264			In Contracting		DRJ	
С	Orchard Mesa Irrigation District >Grand Valley Power Plant Rehabilitation CT2017-2878	Mesa	\$1,717,000	-	-	-	-		In Contracting		JMH	BOR Design meeting 2/28
d	Southeastern CO Water Conserv. District > Arkansas Valley Conduit C150238	Crowley	\$60,600,000	-	-	-	6,555		In Contracting		KGR	Pending Federal Appropriation. Hydro project may be considered from these loan funds
				1		I						

е	Southeastern CO Water Conserv. District >Pueblo Dam Hydroelectric Project CT2017-1424	Crowley	\$16,725,600	-	-	-	-		In Contracting		DRJ	Attachment 3
f	Town Of Wiggins >Wiggins Recharge Facility at Glassey Farms CT2017-3609		\$2,408,850						In Contracting		JMH	
	Not Under Contrac	t SubTotal =	\$83,668,400	344	-	264	6,555					
		Grand Total =	\$233,832,491	170,477	35,630	5,038	628,281					
							020,20					
	Reservoir construction projects involving storage: new, en Projects Substantially Completed in Fiscal Year 2016/		edging or removar	or a SEO re	Striction =	5,038						
1	Greeley and Loveland Irrigation Company > Irrigation System Improvements C150362 (CT2015-022)	Larimer	\$3,745,080	12,925	-	12,925	45,000	100%	Summer 2014 - Apr 2016	100%	JMH	7/1/2016
2	Boxelder Basin Regional Stormwater Authority > East Side Detention Facility Project C150353 (CT2015-070)	Larimer/ Weld	\$7,171,000	-	1,800	-	N/A	100%	Aug 2015 - June 2016	100%	JMH	7/1/2016
3	Boxelder Basin Regional Stormwater Authority > County Rd 52 Culvert Project C150393 (CT2015-069)	Larimer/ Weld	\$818,100	-	-	-	N/A	100%	Aug 2015 - June 2016	100%	JMH	7/1/2016
4	Lake Canal Reservoir Company > North Gray Reservoir Rehab Project C150322 (CT2015-042)	Larimer/ Weld	\$204,298	333	-	75	333	100%	Nov 2015 - Mar 2016	100%	JMH	7/1/2016
5	Louden Irrigating Canal & Reservoir Company > Emergency Diversion Structure and Ditch Repair C150398 (CT2015-151)	Larimer	\$ 126,250	-	-	-	8,000	100%	Summer 2014 - June 2016	100%	JMH	7/1/2016
6	Boxelder Basin Regional Stormwater Authority > Larimer & Weld Canal Crossing Structure Project C150352 (CT2015-071)	Larimer/ Weld	\$1,010,000	-	-	-	N/A	100%	Dec 2015 - April 2016	100%	JMH	8/1/2016
7	Prairie Ditch Company > Plaza Phase 3: Prarie Ditch Imp. Project C150400 (CT2015-134) *\$	Rio Grande	\$131,300	-	-	-	16,000	100%	Oct 2015 - Aug 2016	100%	JMH	8/1/16
8	Farmers Pawnee Canal Company > Diversion Structure Replacement Project C150394 (CT2015-132)	Logan	\$2,067,470	-	-	-	27,956	100%	Mar 2014 - Nov 2015	100%	DRJ	9/1/2016
9	Northern Colorado WCD- Hydropower Enterprise > Granby Hydropower Project C150396 (CT2015-140)	Grand	\$5,135,183	-	-	-	210,000	100%	May 2015 - May 2016	100%	JMH	10/1/2016
10	Pisgah Reservoir and Ditch Company > Mount Pisgah Dam/Wrights Res Rehabilitation C150341 (CT2015-027)	Teller	\$990,176	2,192	-	2,192	86,000	100%	June 2015 - Sep 2016	100%	JMH	10/1/2016
11	Bow Mar Water & Sanitation District >Rehabilitation and Replacement of Water Meters CT2016-2516	Arapahoe & Jefferson	\$332,795	-	-	-	338	100%	July 2016 - Oct 2016	100%	DRJ	11/1/2016

_												Attachment 3
12	Union Well Augmentation Group >Union Reservoir Water Rights Purchase CT2016-3463	Weld	\$227,250	-	-	-	116	N/A	N/A	N/A	JMH	11/1/2016
13	Ephraim Ditch Company > Ephraim Diversion and Headgate Rehabilitation C150402 (CT2015-090) *\$	Rio Grande	\$101,000	-	-	-	4,100	100%	Aug 2015 - Nov 2016	100%	JMH	11/1/16
14	Parkville Water District >Evans Reservoir Bypass Flume Project CT2016-2004	Lake	\$181,800	-	-	-	1,500	100%	Aug 2016 - Oct 2016	100%	DRJ	12/1/2016
15	Cortez, City of > Water Meter Replacement Project CT2015-152	Montezuma	\$858,500	-	-	-	2,600	100%	June 2015 - Oct 2016	99%	ACM	12/1/2016
16	Cottonwood W&S District >WISE - ECCV Pipeline Purchase C150408A (CT2015-102)	Douglas/ Arapahoe	\$342,921	-	-	-	-	100%	N/A	N/A	DRJ	1/1/2017
17	Inverness W&S District >WISE - ECCV Pipeline Purchase C150409A (CT2015-117)	Douglas/ Arapahoe	\$1,845,270	-	-	-	-	100%	N/A	N/A	DRJ	1/1/2017
18	Gypsum, Town of > LEDE Ditch and Reservoir Rehabilitation C150296 (CT2015-058) *\$	Eagle	\$2,689,731	685	254	-	1,200	100%	Jul 2013 - Sep 2016	100%	DRJ	1/1/2017
19	Plum Valley Heights Subdistrict >Raw Water Supply Project CT2015-176 *\$	Douglas	\$2,248,260	-	ı	1	150	N/A	N/A	N/A	JMH	2/1/2017
20	Windsor, Town of > Kyger Reservoir Project C150366 (CT2015-057) *\$	Larimer/ Weld	\$4,545,000	1,257	1,257	-	2,035	100%	July 2016 - Mar 2017	100%	JMH	2/1/2017
21	Grand Junction, City of >Hallenbeck Reservoir No. 1 Dam Rehabilitation CT2017-916	Mesa	\$1,010,000	699	ı	699	5,218	100%	Aug 2016 - Dec 2016	100%	ACM	3/1/2017
22	Julesburg Irrigation District >Reconstruction of the Harmony No. 1 Dam Structure CT2017-904	Sedgwick	\$203,616	-	-	-	54,423	100%	Nov 2016 - Dec 2016	100%	DRJ	3/1/2017
23	Bellyache Ridge Metro District > Well Replacement Project C150356 (CT2015-015) *	Eagle	\$169,175	-	-	-	11	100%	Feb 2015 - March 2017	100%	ACM	4/1/2017
24	Oligarchy Irrigation Company > Dam Outlet Works Rehabilitation CT2016-1597 *\$	Boulder	\$901,930	1,737	-	1,737	7,966	100%	May 2016 - Oct 2016	100%	JMH	4/1/2017
25	Uncompahgre Valley Water Users Association >Drop 5 Hydroelectric Project CT2015-174 *\$	Montrose/ Delta	\$6,999,300	-	-	-	N/A	100%	Dec 2015 - Aug 2016	100%%	KGR	4/1/2017
26	North Poudre Irrigation Co > Reservoir No. 4 Rehabilitation C150378 (CT2015-003) *\$	Larimer	\$2,263,410	1,781	-	674	44,400	100%	Nov 2015 - Jun 2016	100%	JMH	5/1/2017

Loan Program Attachment 3

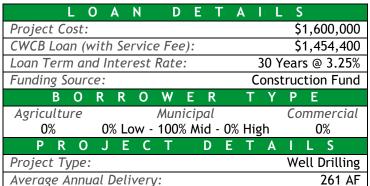
												Attacriment 3
27	San Luis Valley Water Conservancy District > Anaconda Ditch Water Right Acquisition C150348 (CT2015-166) *\$	Alamosa	\$1,123,575	-	-	-	386	0%	N/A	N/A	ACM	5/1/2017
28	Sanford Canal Company > Sanford Diversion and Headgate Rehabilitation C150401(CT2015-091) *\$	Rio Grande	\$101,000	-	-	-	4,000	100%	Aug 2015 - Dec 2016	100%	JMH	5/1/2017
		SubTotal =	\$47,543,390	21,609	3,311	18,302	521,732					



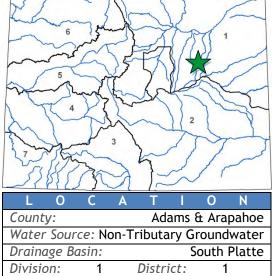
Wells #3 and #6 Replacement Project

Town of Bennett

November 2014 Board Meeting



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.



Borrower: Well Augmentation System of the **County:** Weld, Adams, Morgan

Central Colorado Water Conservancy District

Project Name: Water Rights Purchase & Gravel Pit Project Type: Water Rights Purchase &

Storage Project Augmentation Facility

Drainage Basin: South Platte Water Source: South Platte Basin

Total Project Cost: \$3,333,400 **Funding Source:** Construction Fund

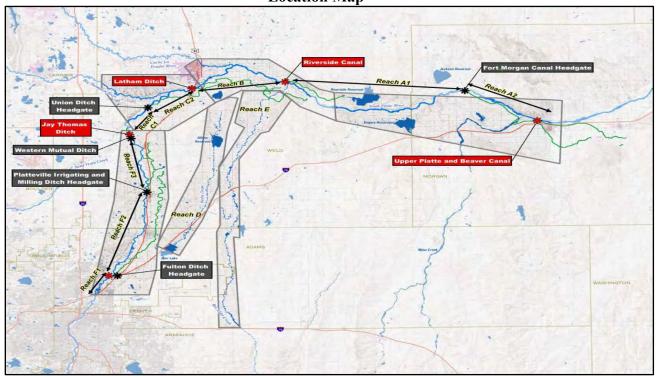
Type of Borrower: Agricultural **Annual Depletions** 20,400 AF

Covered:

CWCB Loan: \$3,030,000 (w/ 1% service fee) Interest Rate: 1.75% Term: 30 years

The Well Augmentation Subdistrict (WAS) of the Central Colorado Water Conservancy District is located in Adams, Weld, and Morgan counties. WAS is a special district created by the Weld County District Court on January 8, 2004, pursuant to the applicable provisions of the "Water Conservancy Act", Section 37-45-101, C.R.S. It has the power to acquire and sell water rights, construct and operate facilities, exercise eminent domain, levy taxes, and contract with other agencies. WAS has operated an augmentation plan since 2004, covering approximately 78 square miles and 214 predominantly agricultural member wells. WAS has an average annual depletion of 20,400. WAS has requested a loan for purchasing more water and storage rights to enable WAS to issue a pumping quota to member wells for the first time since 2006. The WAS General Fund will cover the remaining project expenses.

Location Map



County: Douglas

C150404

Borrower: Castle Pines North

Metropolitan District

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

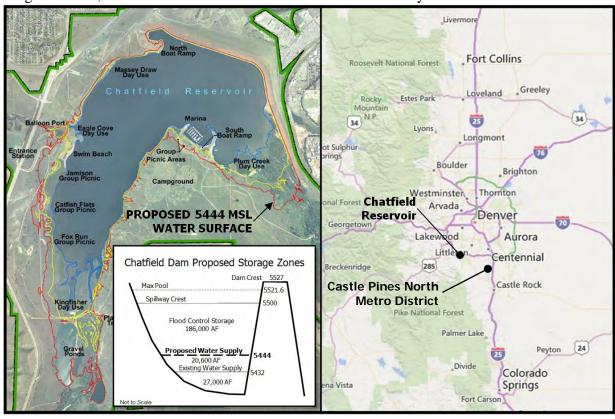
Base Fund

Type of Borrower: High-income Municipal **Average Annual Delivery:** 1,300 AF

Added Water Supply Storage: 1005.8 AF

CWCB 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.



C150405

Borrower: Centennial Water & Sanitation District County: Douglas

Drainage Basin: South Platte **Water Source:** South Platte River

Plum Creek

Total Project Cost: \$48,888,000 **Funding Source:** Severance Tax Perpetual

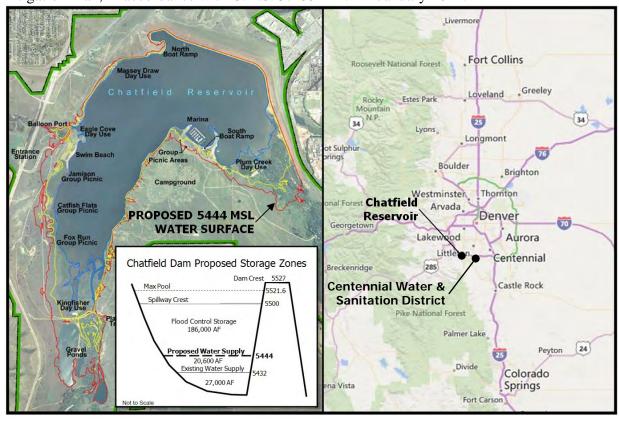
Base Fund

Type of Borrower: High-income Municipal **Average Annual Delivery:** 17,500 AF

Added Water Supply Storage: 6,922.1 AF

CWCB 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 acrefeet 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.



County: Park

C150406

Borrower: Center of Colorado Water

Conservancy District

Drainage Basin: South Platte **Water Source:** South Platte River

Plum Creek

Total Project Cost: \$931,000 **Funding Source:** Severance Tax Perpetual

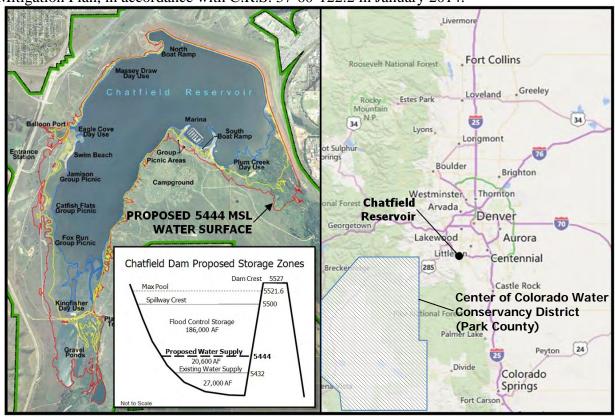
Base Fund

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.



C150407

Borrower: Central Colorado Water

Conservancy District

Project Name: Chatfield Reallocation Project Project Type: Reservoir Storage

Drainage Basin: South Platte **Water Source:** South Platte River

Plum Creek

County: Adams, Weld

Total Project Cost: \$28,170,000 **Funding Source:** Severance Tax Perpetual

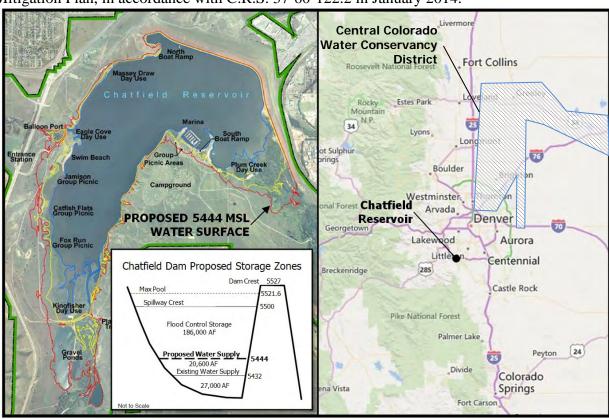
Base Fund

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

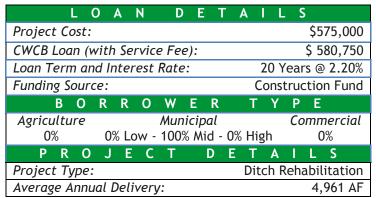
The Central Colorado Water Conservancy District is located in the South Platte River basin between Denver and Fort Morgan including Beebe Draw, and the lower portions of the Box Elder Creek and Lost Creek drainages. Approximately 210,000 acres of irrigated agricultural lands are served by the District.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

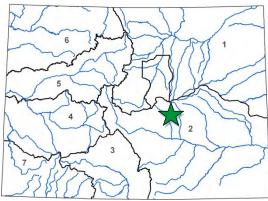




Jimmy Camp Creek Siphon Reconstruction

Chilcott Ditch Company January 2017 Board Meeting

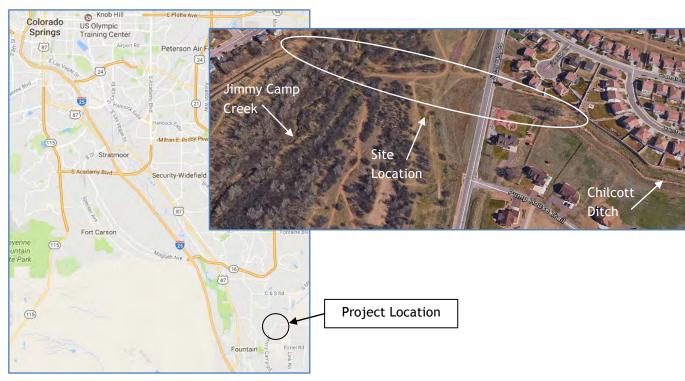




The Chilcott Ditch Company, located in El Paso County, operates the Chilcott Ditch for the benefit of its shareholders by providing direct flow Zirrigation water. The ditch diverts from Fountain creek, just north of the Town of Fountain, and water deliveries are made through the Company's eight mile ditch to service historically

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County	':					Е	l Paso
Water	Sour	ce:			Fou	ntain	Creek
Draina	ge Bo	asin:				F	Pueblo
Divisio	n:	2		Distri	ct:	1	0

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. A 42-inch diameter 1,300 foot long siphon conveys 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 has been in service for nearly 76 years. The structure has required significant repairs over the last few years. In reviewing the siphon's age, maintenance history and number of failures, the Company has concluded that the siphon has reached its useful life and the Company intends to rebuild the siphon prior to the 2017 irrigation season.

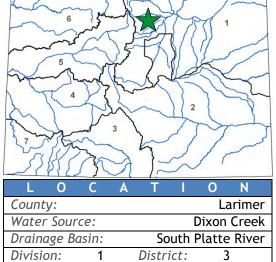




Dixon Reservoir Dam Improvement

Dixon Canon Ditch and Reservoir Company
May 2016 Board Meeting

LOAN DET.	AILS
Project Cost:	\$309,000
CWCB Loan (with Service Fee):	\$278,100
Loan Term and Interest Rate:	30 years @ 2.55%
Funding Source:	Construction Fund
BORROWER	TYPE
A AA	
Agriculture Municipal	Commercial
17% 0% Low - 83% Mid - 0%	
,	
17% 0% Low - 83% Mid - 0%	High 0%
17% 0% Low - 83% Mid - 0% P R O J E C T D E	High 0% T A I L S



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.



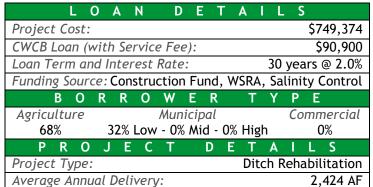


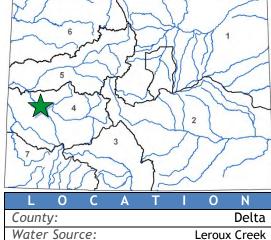
Piping the Duke Ditch **Duke Ditch Company**

March 2016 Board Meeting

Gunnison

42





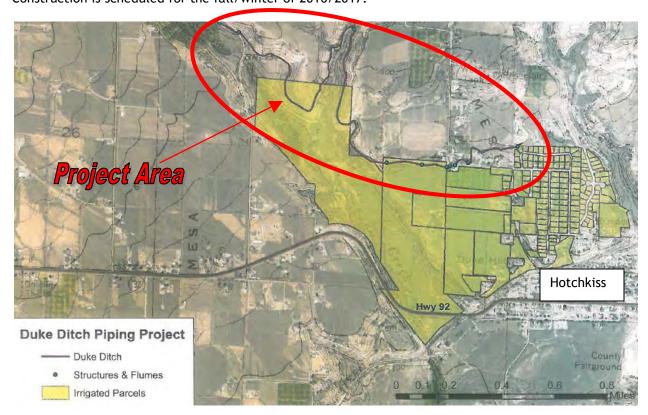
District:

Drainage Basin:

Division:

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.



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

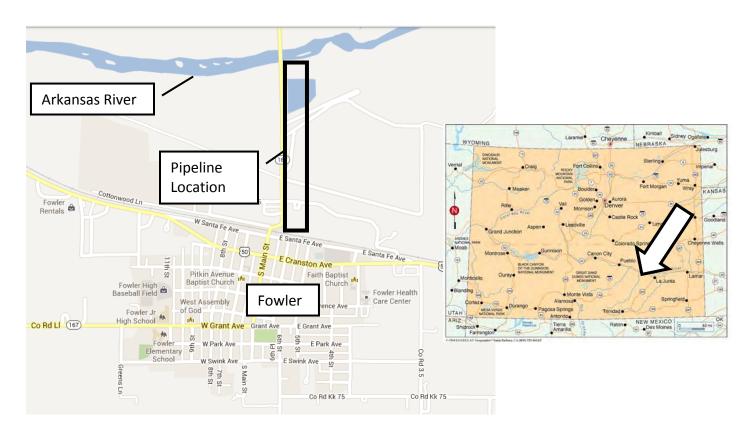
Total Project Cost: \$305,000 **Funding Source:** Construction Fund

Type of Borrower: Municipal (Low) **Average Annual Diversion:** 157 AF

CWCB Loan: \$277,245 Interest Rate: 2.25% Term: 30 years

(with 1% Service Fee)

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.



Borrower: Town of Georgetown County: Clear Creek County

(Water and Sewer Enterprise)

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

Drainage Basin/District: South Platte / 7 Water Source: Clear Creek

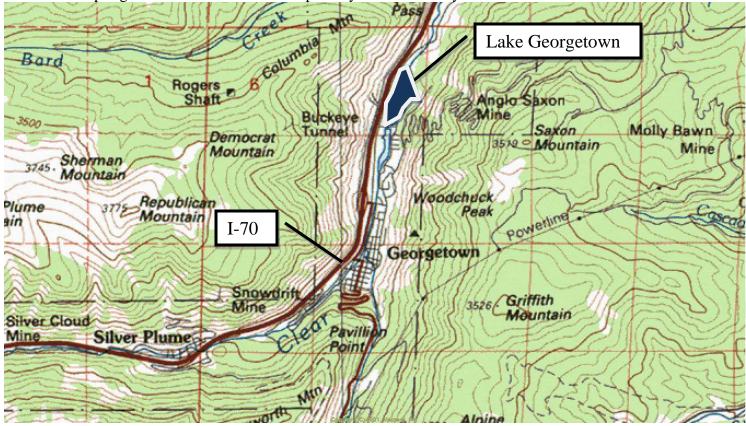
Total Project Cost: \$3,275,000 Funding Source: Construction Fund

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.





County: Delta

Borrower: Grand Mesa Water Conservancy

District

Project Name: Peak Reservoir and Blanche

Park Reservoir Rehabilitation

Drainage Basin/ District: Gunnison / 40 **Water Source:** Surface Creek

Total Project Cost: \$640,000 Funding Source: Construction Fund/

WSRA Gunnison Basin Funds

Project Type: Reservoir Rehabilitation

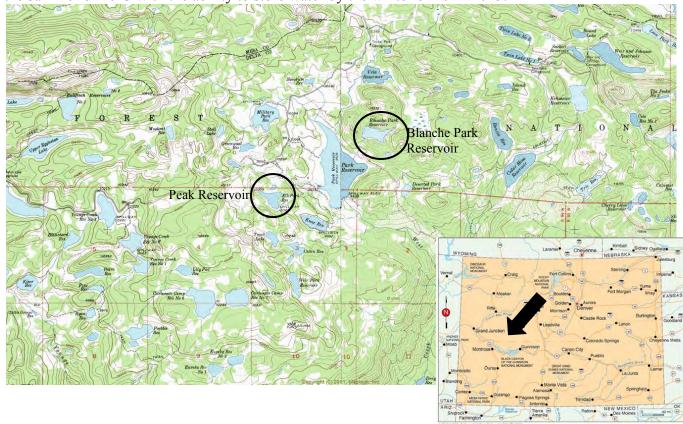
Type of Borrower: Municipal/Agricultural Average Annual Diversion: 400 AF

Storage Added: 155 AF

CWCB Loan: \$227,250 Interest Rate: 1.55%* Term: 20 years

(with 1% Service Fee) (Reduced from 1.8% blended rate)

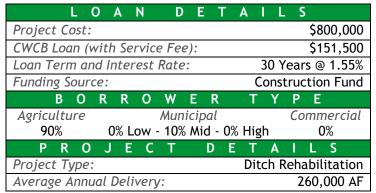
The Grand Mesa Water Conservancy District owns several reservoirs and a network of ditches to service agricultural users and municipal users including the Town of Orchard City and Cedaredge. It is requesting a loan to rehabilitate Peak Reservoir and Blanche Park. Both reservoirs are located in the Grand 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.

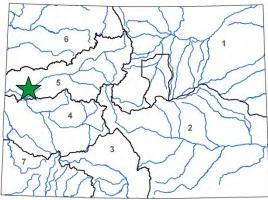




Government Highline Canal Lining

Grand Valley Water Users Association September 2016 Board Meeting

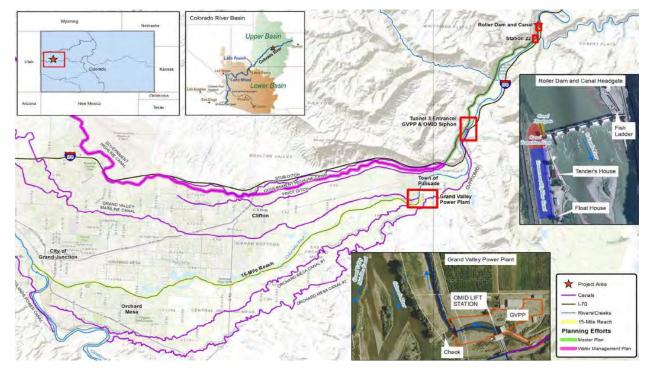




The Grand Valley Water Users Association (Association), is requesting funding for the Government Highline Canal Lining Project. The Association is the managing entity of the Bureau of Reclamation's Grand Valley Project. The Grand Valley Project facilities include the Grand Valley Diversion Dam (also known as the Roller Dam) on the Colorado River in De Beque Canyon, the

LOCATIONCounty:MesaWater Source:Colorado RiverDrainage Basin:ColoradoDivision:5District:72

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.





Borrower: Huerfano County Water Conservancy **County:** Huerfano

District

Project Name: Regional Augmentation Project Project Type: Water Rights Acquisition

and Augmentation

Drainage Basin: Arkansas / District 67 **Water** Huerfano River

Source:

Total Project \$3,050,000 **Funding** Construction Fund

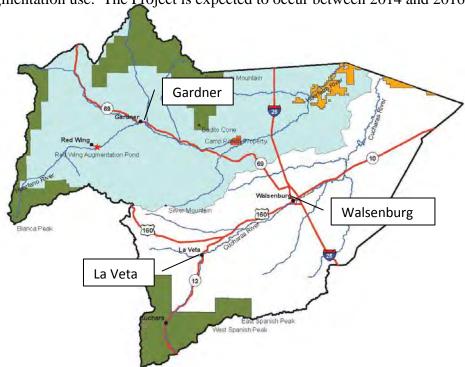
Cost: Source:

Type of Low-Income Municipal Avg. Annual 19.5 AF

Borrower: Diversions:

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.



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).



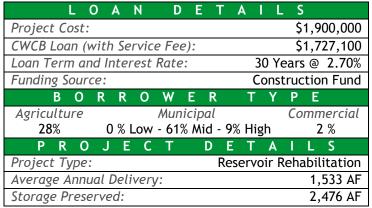


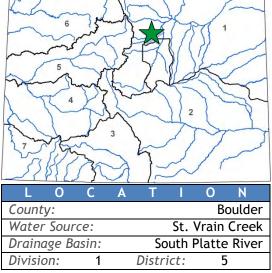




Lake McIntosh Outlet Works Repair

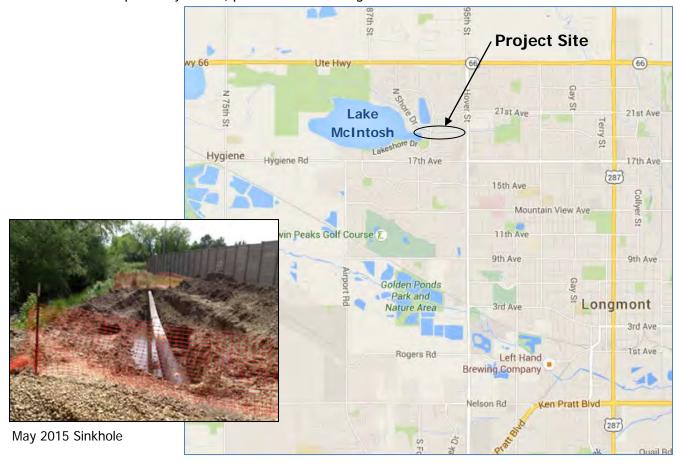
Lake McIntosh Reservoir Company January 2016 Board Meeting





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.

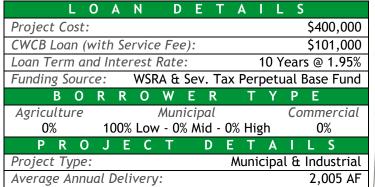


Repurposing of Wells 12 and 13

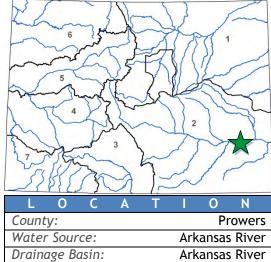
City of Lamar

September 2015 Board Meeting





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



District:

67

2

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.

Division:



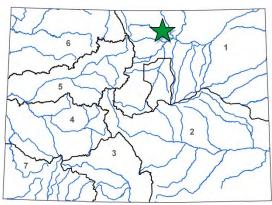
Water Project Loan Program - Project Data Sheet



Headgate Structure Replacement

Larimer and Weld Irrigation Company September 2016 Board Meeting

LOAN DET	AILS
Project Cost:	\$750,000
CWCB Loan (with Service Fee):	\$681,750
Loan Term and Interest Rate:	30 Years @ 1.5%
Funding Source:	Construction Fund
BORROWER	TYPE
Agriculture Municipal	Commercial
96% 0% Low - 4% Mid - <1%	High 0%
	J
PROJECT DE	
PROJECT DE Project Type:	



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

L O C A T I O N

County: Larimer & Weld

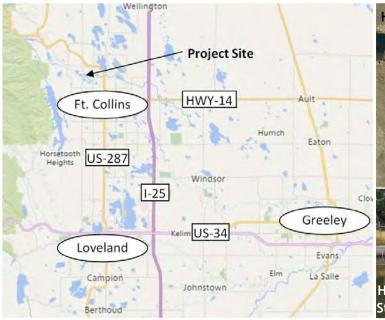
Water Source: Cache la Poudre River

Drainage Basin: South Platte

Division: 1 District: 3

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.





Upper Beaver Brook Dam Spillway

COLORADO
Colorado Water
Conservation Board
Department of Natural Resources

Lookout Mountain Water District November 2015 Board Meeting

LOA	N	D	Е	T	A	1	L	S		
Project Cost:								\$3	3,4	10,000
CWCB Loan:								\$3	3,0	99,690
Loan Term and Interest Rate: 30 years @ 3.25%										
Funding Source: Construction Fund										
BORR	0	W	E R		Ţ	,	Y	Р	Ε	
Agriculture		Muni	cipal					Coi	nn	nercial
0%	High	h-inco	ome	1009	%				()%
PROJE	С	Т	D	Ε	T		4	I	L	S
Project Type:				Re	ese	rvo	ir I	Enla	arg	ement
4 4 10:							10	7		o foot
Average Annual Div	ersio	n:					I)/	acı	re-feet

The Lookout Mountain Water District, a drinking water provider with 565 taps in Jefferson County, seeks to increase the storage capacity of the Upper Beaver Brook Dam. By designing and constructing a new labyrinth spillway structure in the location of the existing spillway,

L O C A T I O N

County: Clear Creek

Water Source: South Fork Beaver Brook

Drainage Basin: South Platte River

Division: 1 District: 7

a raise in the normal reservoir pool elevation will provide approximately 140 acre-feet of additional storage.



Water Project Loan Program - Project Data Sheet

Water Project Loan Program - Project Data

Borrower: City of Monte Vista County: Rio Grande

(Water Activity Enterprise)

Project Name: Augmentation Water Rights **Project Type:** Water Rights Purchase

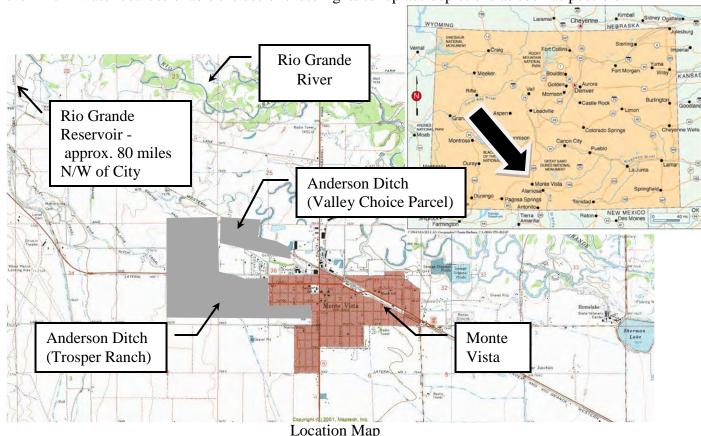
Acquisition **Drainage Basin:** Rio Grande **Water Source:** Rio Grande River

Total Project Cost: \$1,863,500 **Funding Source:** Construction Fund

Type of Borrower: Low-Income Municipal **Aver. Demand:** 1,212 AF/year

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



COLORADO Colorado Water Conservation Board Department of Natural Resources

COLORADO Rehabilitation of the Livermore Irrigation Tunnel

North Poudre Irrigation Company July 2016 Board Meeting

LOAN DET.	A I L S
Project Cost:	\$ 1,597,000
CWCB Loan (with Service Fee):	\$ 1,451,673
Loan Term and Interest Rate:	30 years @ 2.25%
Funding Source:	Construction Fund
BORROWER	TYPE
Agriculture Municipal	Commercial
26% 0% Low - 73% Mid - 0%	High 1%
PROJECT DE	TAILS
PROJECT DE Project Type:	T A I L S Ditch Rehabilitation

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 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 have accumulated in the base of the tunnel, ponding up to three feet of water and

restricting the overall flow capacity. The geometry of the collapse zones varies; however, the disrupted zones were estimated visually to be up to 45 feet high and 35 feet wide. An ongoing concern is of roof or partial collapse in the tunnel, which could result in severe disruption of water service for 14 communities and over 200 farms. The project will also include proactive repairs to an additional ten shear/void areas.

Construction is scheduled for the fall/winter of 2016/2017.





Water Project Loan Program - Project Data Sheet



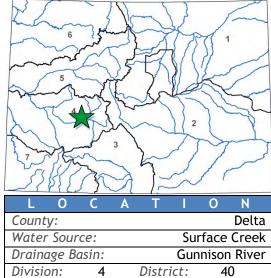
COLORADO Colorado Water Conservation Board

Department of Natural Resources

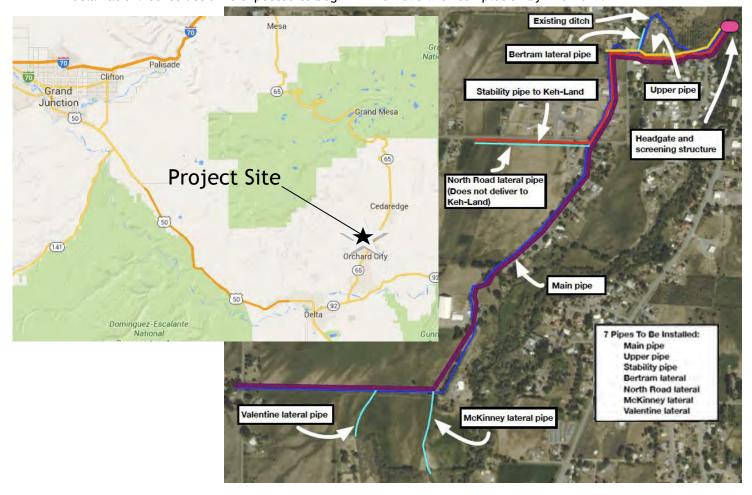
Orchard Ranch Ditch Company January 2016 Board Meeting

0 Α Project Cost: \$1,430,720 \$151,500 CWCB Loan (with Service Fee): Loan Term and Interest Rate: 30-Years @ 1.95% Severance Tax Perpetual Base Fund Funding Source: BORROWER Ε Agriculture Municipal Commercial 14% Low - 0% Mid - 0% High 0% 86% R C D F Ditch Rehabilitation Project Type: 2,750 AF Average Annual Delivery:

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

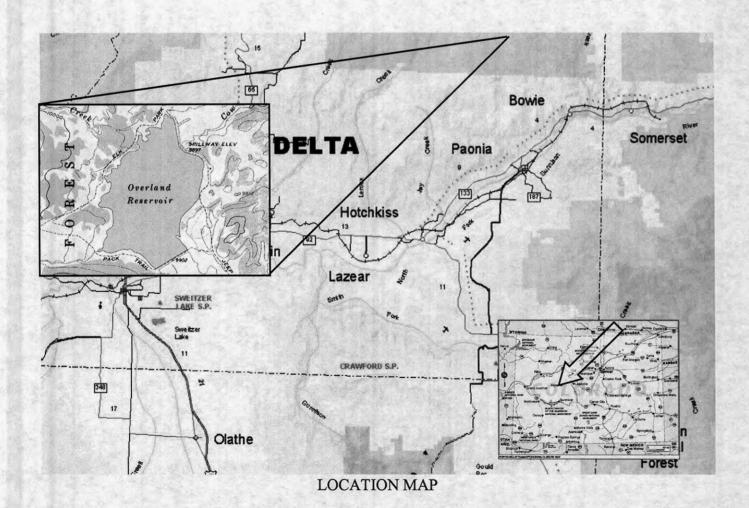
Drainage Basin: Gunnison River Basin Water Source: Cow Creek

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.



Water Project Loan Program - Project Data

Borrower: Riverside Ditch & Allen Extension Co. County: Chaffee

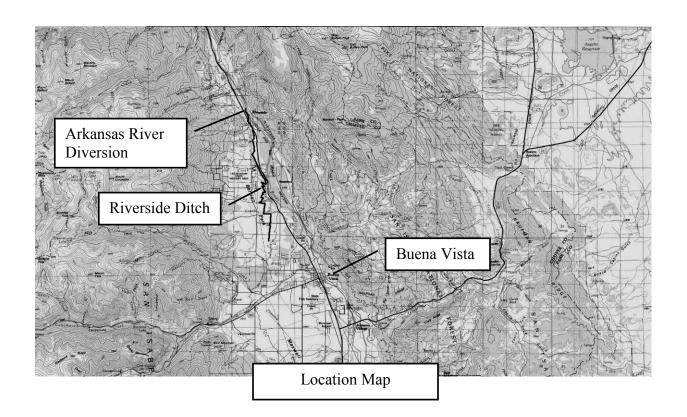
Drainage Basin: Arkansas River

Total Project Cost: \$205,000 Funding Source: Construction Fund

Type of Borrower: Agricultural Average Diversion: 3,250 acre-feet

CWCB Loan: \$186,345 (Including 1% fee) Interest Rate: 2.75% Term: 30 years

The Riverside Ditch and Allen Extension Company (Company), located near Buena Vista, owns and operates the Riverside Ditch (canal) that provides irrigation water to a 450 acre service area within Chaffee County. A significant portion of the Company's structures along the 125 year old canal are aged and in need of repair or replacement. The Company intends to complete a number of phased improvements to the canal that include: repairs to the river diversion; lining of portions of the canal to reduce seepage; installation of canal monitoring using SCADA equipment; phreatophyte removal; repair/replacement of aging headgates; and installation of standardized flumes. The proposed improvements would benefit the shareholders by improving overall canal efficiency, thereby increasing the consistency of shareholder headgate deliveries. These improvements will also benefit the Company through increased operator safety. Improvements are expected to be completed between the winter of 2009 and spring of 2012.



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

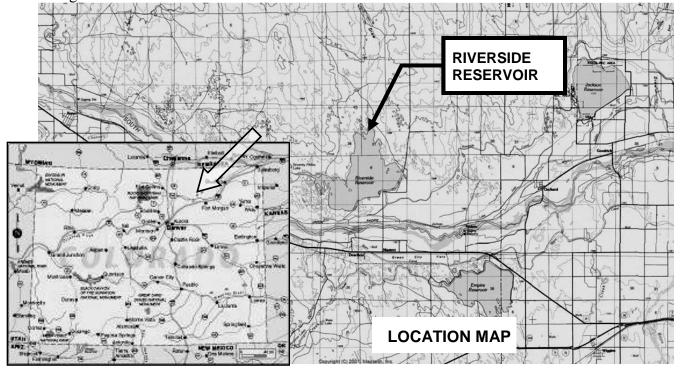
Perpetual Base Account

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)

Borrower: Sanchez Ditch and Reservoir Co.

County: Costilla

Project Name: Sanchez Reservoir Outlet

Project Type: Dam Rehabilitation

Rehabilitation Project

Water Source(s): Ventero Creek

Basin / District: Rio Grande / 24

Funding Sources: Construction Fund & WSRA

(Basin & Statewide funds)

Total Project Cost: \$2,282,000

Average Diversions: 15,000 AF

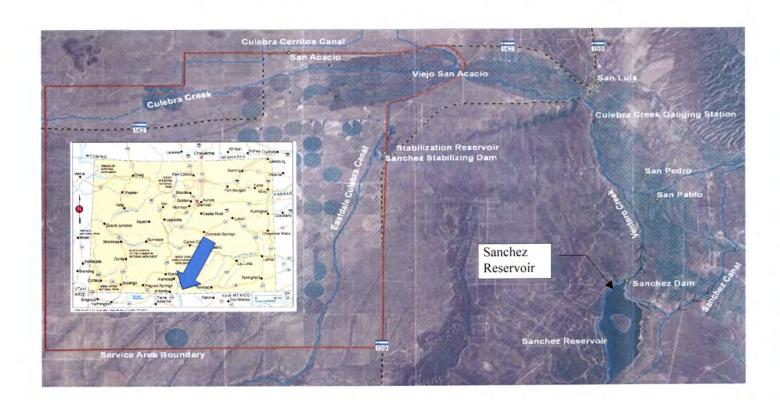
Type of Borrower: Agricultural

(Interest Rate Increased by 0.25% for longer term)

Interest Rate: 2.0% Term: 40 years

Loan Amount: \$1,381,276 (Including 1% fee) Interest Rate: 2 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.



St Vrain Creek

South Platte

5



Lake 4 Outlet Pipeline Repair

St. Vrain and Left Hand Water Conservancy District
January 2017 Board Meeting

LOAN DETAILS						
Project Cost: \$912,0	00					
CWCB Loan (with Service Fee): \$619,1	30					
Loan Term and Interest Rate: 30 Years @ 2.85%						
Funding Source: Construction Fund						
BORROWER TYPE						
Agriculture Municipal Commerci	al					
0% 0% Low - 0% Mid - 97% High 3%						
PROJECT DETAILS						
Project Type: Reservoir Rehabilitation	on					
Average Annual Delivery: 182	ΑF					
Storage Preserved: 600 i	ΑF					

L O C A T I O N
County: Boulder

District:

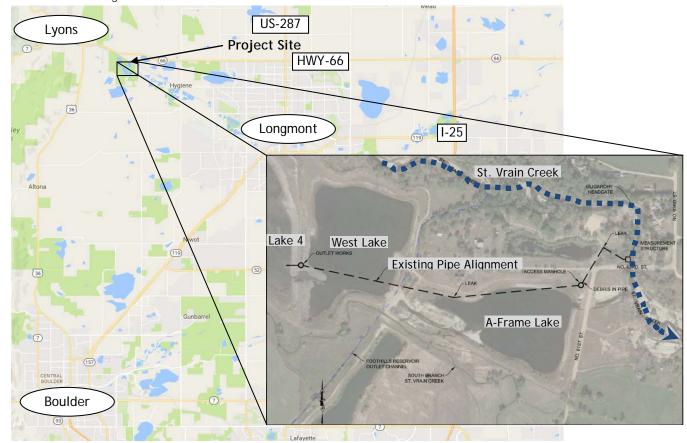
The St. Vrain and Left Hand Water Conservancy District and Boulder County Parks and Open Space jointly own a lined reservoir known as Rock'n WP Ranch Lake No. 4 (Lake 4). Lake 4 was created by reclaiming mined slopes, installing a slurry wall liner around the former gravel pit,

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 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.

Water Source:

Division:

Drainage Basin:



Water Project Loan Program - Project Data Sheet

Borrower: Thunderbird Water and Sanitation District County: Douglas

Project Name: Lambert Ranch Water Rights Purchase

Project Type: Water Rights Purchase

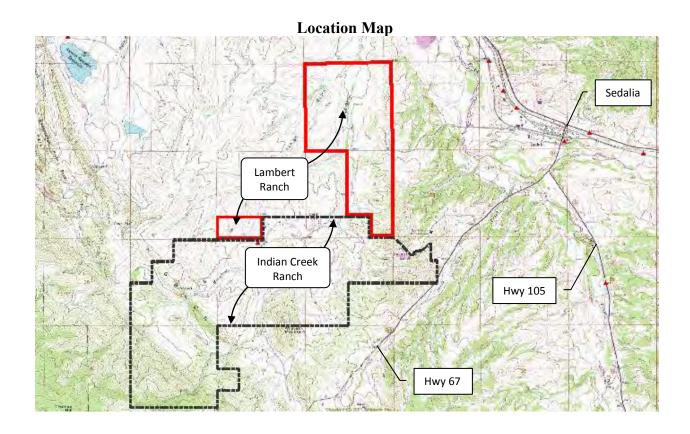
Drainage Basin: South Platte, District 8 **Water Source:** Denver Basin Aquifer

Total Project Cost: \$350,000 Funding Source: Construction Fund

Type of Borrower: Middle-Income Municipal **Avg. Annual Delivery:** 55 AF

CWCB Loan: \$318,150 (w/ 1% service fee) Interest Rate: 4.25% Term: 20 years

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. The District is applying for a loan to purchase 895.9 AF of Denver Basin decreed ground water rights that underlie the property known as Lambert Ranch. On average, the District delivers approximately 55 AF annually. 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.





Storage Development and Water Rights Purchase

Town of Firestone

November 2016 Board Meeting

L O	A	N	D	Ε	Т	Α	1	L	S		
Project Cost:								\$	10	,04	3,150
CWCB Loan (wit	th Se	rvic	e Fee):				\$	10	,00	0,000
Loan Term and Interest Rate: 20 Years @ 2.35%											
Funding Source	Funding Source: Construction Fund										
B O R	R	0	W	E I	R	1	·)	Y P		E	
1 11											
Agriculture			Muni	cipa	l			С	on	ıme	ercial
-	0% Lo	ow -	Muni 0% M	•		% H	igh	С	on	nme 0%	
-	0% Lo			•	100		igh		on		
0%		C	0% M	id - D	100 E	. 1	· /	\	Į	0%	
0% P R O	J E	C	0% M T Storag	id - D	100 E	. 1	· /	\	Į	0% - Pur	S

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

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County	/:						Weld		
Water	Sour	ce:		St. Vrain River /					
					Во	ulder	Creek		
Draina	ge Bo	asin:		South Platte River					
Divisio	n:	1		Distr	ict:	2	2		

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.

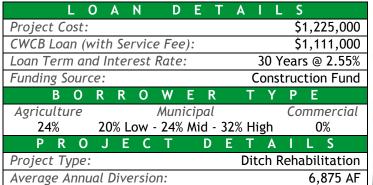


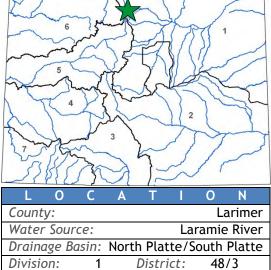
Water Project Loan Program - Project Data Sheet



Laramie-Poudre Tunnel Rehabilitation

The Tunnel Water Company September 2015 Board Meeting

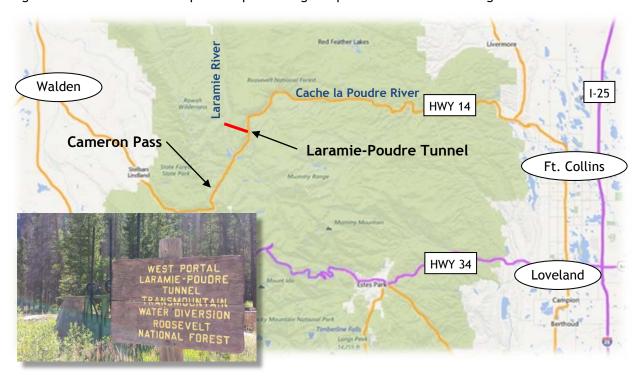




The Tunnel Water Company operates the Laramie-Poudre Tunnel for the benefit of its two shareholders: Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). The tunnel diverts from the Laramie River, about 60 miles west of Fort Collins, and delivers water through a 2.15-mile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



CWCB Construction Loan Program PROJECT DATA SHEET

Borrower: Upper Arkansas Water Conservancy District County: Chaffee/Fremont/Custer

Project Name: North Fork Reservoir Rehab/Expansion Drainage Basin: Arkansas River

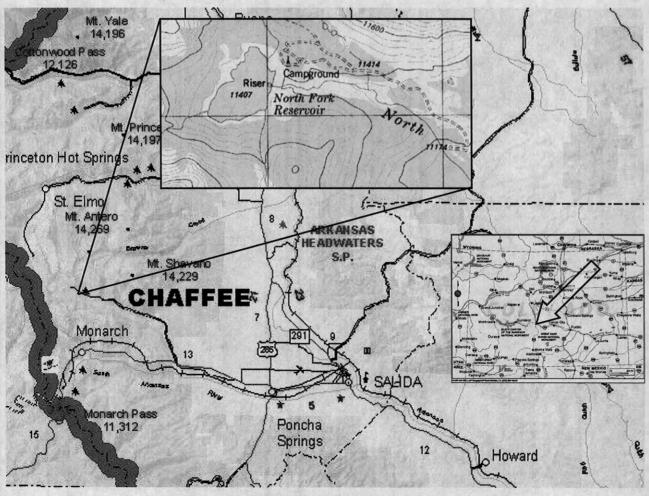
Project Type: Dam and Spillway Modifications Water Source: N. Fork of S. Arkansas

Total Project Cost: \$3,309,850 Funding Sources: CWCB & Company

Loan Amount: \$2,980,000 Current Reservoir Storage: 500 acre-feet

Type of Borrower: Low Municipal/Agricultural Interest Rate: 3.0% Term: 30 years

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 at elevation 11,400 feet and is located 10 miles from Maysville on the North Fork of the South Arkansas River. The District plans to repair the outlet gate, improve the access for construction, increase the spillway capacity, mitigate seepage along the right abutment, and raise the dam height by 15 feet. This will increase the capacity of the reservoir from 595 AF to 1095 AF. The enlargement will also require the relocation of portions of a campground. The reservoir is located on Forest Service property and currently has a Special Use Permit authorizing the repair work. The enlargement work will require a NEPA study prior to Forest Service permitting.



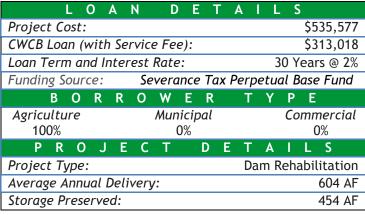
LOCATION MAP



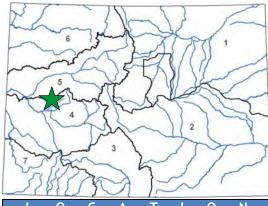
Repair of West Reservoir No.1 Outlet Works

West Reservoir and Ditch Company January 2017 Board Meeting

(Loan Increase)



The West Reservoir and Ditch Company operates West Reservoir No. 1, providing water seven miles eastward via Wakefield Ditch to Wakefield Mesa. Diversions are available for livestock as it traverses east Oak Mesa and irrigates approximately 600 acres of hay and pasture. The



O	C	Α	T		O	N
						Delta
our	ce:				Jay	Creek
Drainage Basin:					Gu	nnison
1:	4		Distri	ct:		40
	our e Bo	ource: e Basin:	Source: e Basin:	Source: e Basin:	Source: e Basin:	Source: Jay se Basin: Gu

current landowners use the Oak Mesa Reservoir and Ditch water for spring irrigation and for midsummer to fall irrigation. West Reservoir No. 1 was improved in the early 1950s, but was under a storage restriction order from the Office of the State Engineer due to deterioration of the outlet pipe. This project includes a low-level outlet sized to meet SEO release requirements, an outlet stilling basin structure downstream of the dam for energy dissipation, and an intake structure for a manually operated slide gate and trash racks. Construction was completed in fall of 2016. The Company incurred additional expense during construction and seeks an increase in loan funding.



Water Project Loan Program - Project Data Sheet

County: Douglas & Arapahoe

Project Type: New Water Supply

C150408

Borrower: Cottonwood Water & Sanitation

District

Project Name: Water Infrastructure and Supply

(WISE) Efficiency Project

Drainage Basin/ District: South Platte / 8 **Water Source:** South Platte

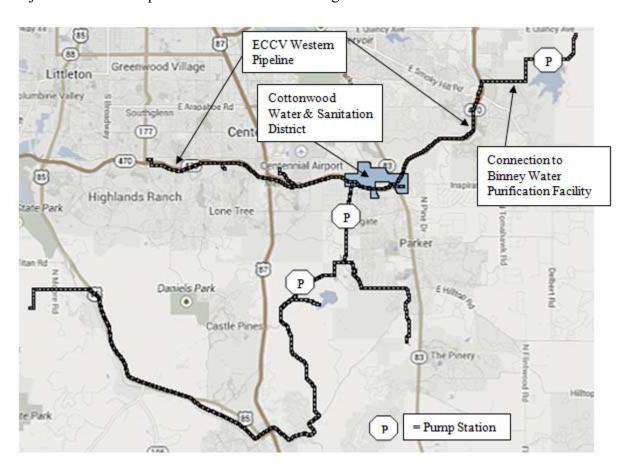
Total Project Cost: \$4,960,000 Funding Source: Construction Fund

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.



County: Douglas & Arapahoe

Water Source: South Platte

Project Type: New Water Supply

C150409

Borrower: Inverness Water & Sanitation

District

Project Name: Water Infrastructure and Supply

(WISE) Efficiency Project

Drainage Basin/ District: South Platte / 8

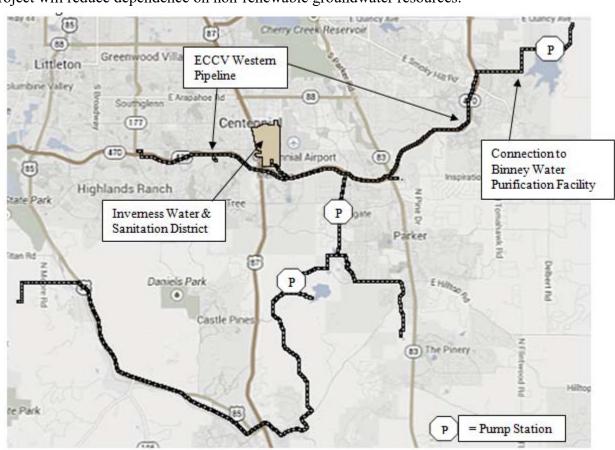
Total Project Cost: \$5,400,000 **Funding Source:** Construction Fund

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.



C150410

Borrower: Parker Water & Sanitation District County: Douglas & Arapahoe

Project Name: Water Infrastructure and Supply **Project Type:** New Water Supply

(WISE) Efficiency Project

Drainage Basin/ District: South Platte / 8 **Water Source:** South Platte

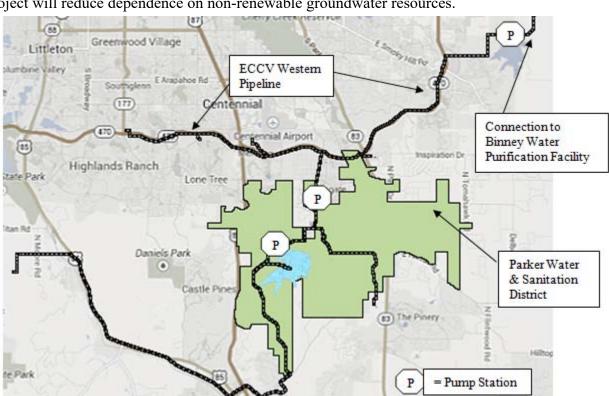
Total Project Cost: \$17,305,500 Funding Source: Construction Fund

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.



County: Douglas

Project Type: New Water Supply

C150411

Borrower: Denver Southeast Suburban Water

and Sanitation District (dba

Pinery Water and Wastewater District)

Project Name: Water Infrastructure and Supply

(WISE) Efficiency Project

Drainage Basin/ District: South Platte / 8 **Water Source:** South Platte

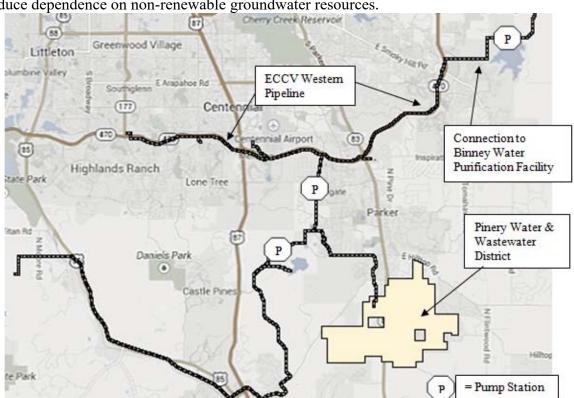
Total Project Cost: \$10,920,000 Funding Source: Construction Fund

Type of Borrower: High-income Municipal **Average Annual Delivery:** 2,837 AF

CWCB Loan: \$9,926,280 (with 1% service fee) **Interest Rate:** 3.00% **Term:** 30 years

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

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



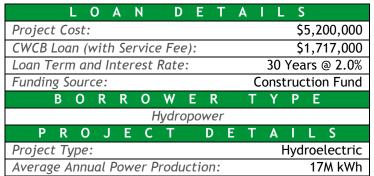
Projects Not Under Contract



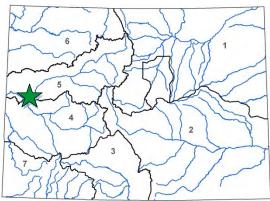
Grand Valley Power Plant Rehabilitation

Grand Valley Water Users Association

November 2016 Board Meeting



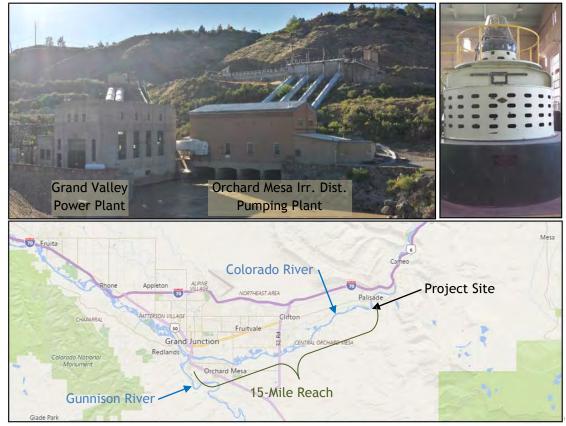
The Grand Valley Water Users Association (Association) and Orchard Mesa Irrigation District (District) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Engergy) in conjunction with the Cameo coal fired power plant. The Association and District took operational control of the plant when Xcel decided to cease its operations. The Association and District equally split costs and



L O	С	Α	T		0	N			
County:						Mesa			
Water Sou	ırce:		Colorado River						
Drainage I	Basin:				Co	lorado			
Division:	5		Distr	ict:	7	2			

revenues from the GVPP under a Lease of Power Privilage with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an importnant role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat. The non-consumptive hydropower water right ensures continued flows for this important stretch of river.

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



Water Project Loan Program - Project Data Sheet



Mountain Supply Reservoir No. 10 Repairs

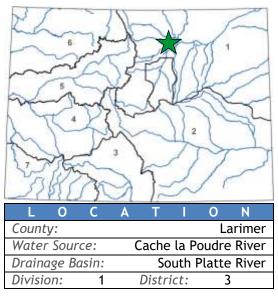
North Poudre Irrigation Company
March 2017 Board Meeting

LOAN DETAIL	S							
Project Cost:	\$495,000							
CWCB Loan (with Service Fee):	\$499,950							
Loan Term and Interest Rate: 30 years @ 2.50%								
Funding Source: Severance Tax Perpetual Base Fund								
D O R R O W E R I I I	PΕ							
Agriculture Municipal C	Commercial							
26% 0% Low - 73% Mid - 0% High	1%							
PROJECT DETAI	L S							
Project Type: Reservoir Rel	habilitation							
Average Annual Delivery:	88,900 AF							
Total Reservoir Storage:	344 AF							
Water Storage Preserved:	264 AF							

The North Poudre Irrigation Company's service area encompasses approximately 300 square miles, including additional service areas covering 14 communities and municipal water providers owning NPIC shares. The Company operates 22 storage reservoirs, 5 flood control dams, and approximately 200 miles of ditches. Irrigated acreage within the service area supports production of corn, sugar beets, soybeans, hay, and feed crops.

Mountain Supply Reservoir No. 10, 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. In August of 2015, the outlet works experienced a failure in the corrugated metal pipe outlet tube downstream of the intake headgate. The reservoir was drained. A subsequent storage restriction by the State Engineer's Office (SEO) was put in place while the Company made temporary repairs. Due to the temporary nature of the repairs, the Company was only permitted to store 80 acre-feet, pending comprehensive repairs to the outlet works. Further engineering investigations found need for additional reservoir infrastructure repairs, including repairs to the headgate and inlet structure from the ditch to the reservoir, grading in the bottom of the reservoir from inlet to outlet, and changes to the outlet works.

The purpose of the Project is to repair the Mountain Supply Reservoir No. 10 inlet and outlet works, removing the SEO storage restriction and restoring the Company's ability to hold their full storage rights.





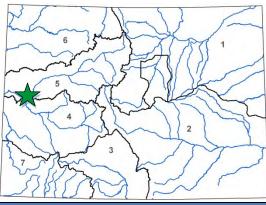


Grand Valley Power Plant Rehabilitation

Orchard Mesa Irrigation District November 2016 Board Meeting

	L	_ () ,	A	N	D	Е	Ţ	. ,	Ą		L :	S		
Project	Co	st:											55,2	00,0	000
CWCB Loan (with Service Fee): \$1,717,000															
Loan Te	Loan Term and Interest Rate: 30 Years @ 2.0%														
Funding	Funding Source: Construction Fund														
	В	0	R	R	0	W	E	R		T	Υ	P	E		
					H	lydro	роч	ver	,						
		0	J	E	C	T		D	Ε	Т	Α		L	S	
Р	ĸ	•													
Project					<u> </u>	•		<u>-</u>					droe	lect	ric

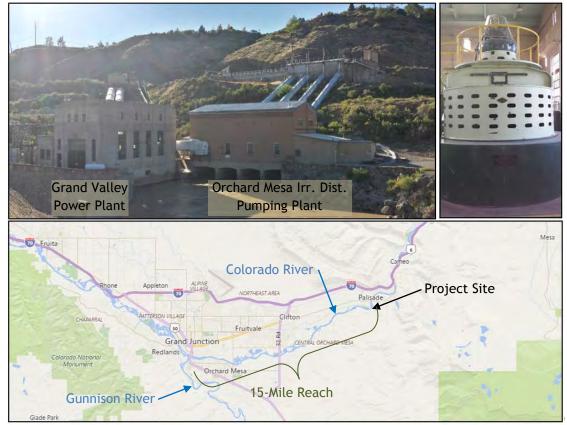
The Orchard Mesa Irrigation District (District) and Grand Valley Water Users Association (Association) are each seeking a loan to cover its cost share for the Grand Valley Power Plant (GVPP) Rehabilitation Project. The GVPP is owned by the Bureau of Reclamation and originally operated by Public Service Company of Colorado (Xcel Engergy) in conjunction with the Cameo coal fired power plant. The District and Association took operational control of the plant when Xcel decided to cease its operations. The District and Association equally split costs and revenues



L O	С	Α	Т		0	N			
County:						Mesa			
Water Sou	urce:		Colorado River						
Drainage	Basin:				Co	lorado			
Division:	5		Distr	ict:	7	2			

from the GVPP under a Lease of Power Privilage with Reclamation and a Power Purchase Agreement with Xcel. In addition to being a revenue source, the GVPP serves an 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

Water Project Construction Loan Program - Project Data

Borrower: SECWCD - Enterprise **County**: Pueblo, Crowley, Otero, Bent, Prowers

Drainage Basin: Arkansas — Fry-Ark Project

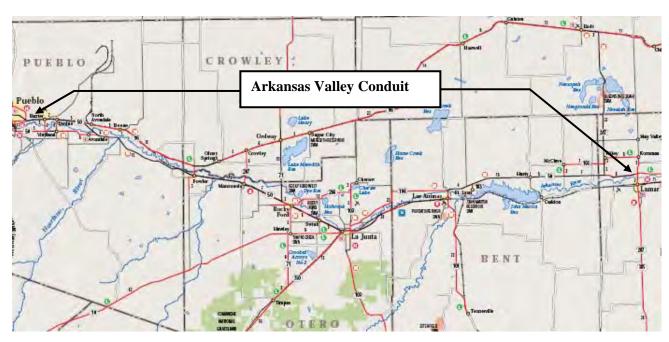
Total Project Cost: \$300,000,000 **Funding Sources:** CWCB, Federal

Type of Borrower: Municipal/Low **Aver. Delivery:** 6,555 AF (2005 demand)

CWCB Construction Fund Loan: \$60,600,000 Interest Rate: 3.25% Term: 30 years

(incl. 1% loan fee)

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.



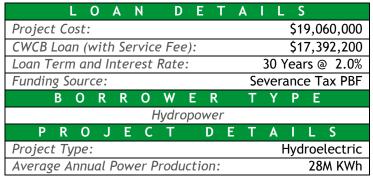
Location Map



Arkansas Valley Conduit Phase One Pueblo Dam Hydroelectric Project

Southeastern Colorado Water Conservancy District

July 2016 Board Meeting



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

L O C A T I O N

County: Pueblo

Water Source: Arkansas River

Drainage Basin: Arkansas River

District:

10

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.

Division:

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.

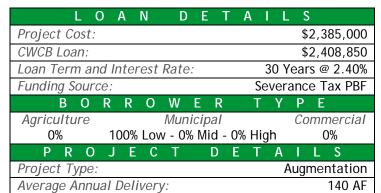


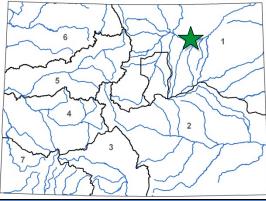


Wiggins Recharge Facility at Glassey Farms

Town of Wiggins

March 2017 Board Meeting





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.

L	0	С	Α	T	I	0	N
Count	у:					N	/lorgan
Water	Sour	ce:		So	uth	Platte	e River
Draina	ige B	asin:		Sc	uth	Platte	River
Divisio	n:	1		Distr	ict:	1	l

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.





1313 Sherman Street Denver, CO 80203

P (303) 866-3441 F (303) 866-4474 John Hickenlooper, Governor

Robert Randall, DNR Executive Director

Lauren Ris, CWCB Acting Director

TO: Colorado Water Conservation Board Members

FROM: Derek Johnson, P.E., Project Manager

Kirk Russell, P.E., Deputy Director

DATE: May 17-18, 2017 Board Meeting

DIRECTORS REPORT: Water Project Loan Program

Emergency Loan Status Report

As a result of the unprecedented floods of September 2013, the CWCB awarded zero-interest and no-payment 3-year bridge loans to water suppliers. Typically the loans are utilized by borrowers to replace diversion structures and reconstruct the ditch delivery system.

To date, the CWCB has 19 projects authorized totaling \$17 million. The CWCB Emergency Loan Program has completed construction on 13 projects as shown in Table 1.

The attached spreadsheet summarizes the status of the projects. A detailed description can be found on the following Data Sheets.

TABLE 1

	Borrower	Project	County	Loan	Completed
1	Boulder and Larimer County Irrigation	Boulder & Larimer Diversion Structure Repair	Boulder & Larimer	\$ 202,000	4/2014
2	Ish Reservoir Company	Inlet Ditch & Diversion Structure Repair	Boulder	\$ 207,050	4/2014
3	Big Thompson and Platte River	Big Thompson & Platte River Div. Structure Repair Larimer		\$ 189,861	6/2014
4	Church Ditch Water Authority	Leyden Creek Crossing Repair	Jefferson	\$ 591,179	5/2014
5	Highland Ditch Co.	Highland Ditch System Repairs	Boulder	\$1,477,756	4/2014
6	Left Hand Ditch Co.	Left Hand Ditch System Repairs	Boulder	Boulder \$1,203,086	
7	Oligarchy Irrigation Co.	Oligarchy Irr. Ditch River Diversion Struct. Repair	Boulder	\$ 326,036	5/2014
8	Rough & Ready Irrigation Ditch Company	Rough & Ready River Diversion Struct.Repair	Boulder	\$ 246,851	5/2014
9	Beeman Irrigation	Emergency Beeman Diversion Dam Repair	Weld	\$2,020,000	5/2014
10	Consolidated Home Supply Ditch & Reservoir Co	George Rist Ditch Repair	Larimer	\$ 434,412	5/2014
11	Consolidated Home Supply Ditch & Reservoir Co	Big Dam Diversion Structure Repair	Larimer	\$1,745,603	9/2015
12	Green Ditch Company	Emergency Green Ditch Channel Repair	Boulder	\$ 189,200	6/2014
13	Culver Ditch Company	Culver Mahoney Ditch Repair	Boulder & Larimer	\$ 151,500	4/2014
14	Butte Irrigation & Milling Company	Emergency Berm Repair	Boulder \$ 113,23		5/2014
				\$9,097,770	



								Attachment 4	
			Loan	Design	Construction			Status Description/Update	
Borrower/Project		County	Amount	Status	Start/End	Status	PM		
1	Big Elk Meadows Association > Emergency Raw Water Storage Repair C150391	Boulder/ Larimer	\$ 2,020,000	75%	7/2014-9/2018	30%	JMH	Project includes the reconstruction of 5 dams in series. Mirror Dam complete as of April 2015. Rainbow Dam' complete as of December 2016. Willow Dam to begin construction Summer 2017. Sunset and Meadow Dams pending. Association was approved for a loan increase at March 2017 Board Meeting to help with cash flow, and an increase to the zero percent window as construction window has been extended.	
2	North Poudre Irrigation Company > Fossil Creek Res. Diversion Structure Repair C150368	Larimer	\$ 876,680	100%	11/2015 - 3/2016	100%	JMH	Construction was delayed due to continuously high river conditions during winter of 2014/2015. Bids were received August 2015 and construction began November 2015. Work has been completed and company is waiting for possible FEMA reimbursements. Loan to be closed out, and interest to begin accruing, on 11/1/18.	
3	St. Vrain and Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair	Boulder	\$ 4,545,000	50%	Spring 2017 - Fall 2017	0%	JMH	Approved July 2014 Board Meeting. Contract has been signed and final design is underway.	
4	Supply Irrigating Ditch Company >Emergency Supply Irrigating Ditch Repair Project CT15-142	Boulder	\$ 324,210	100%	3/2015-5/2015	100%	JMH	Construction complete, loan funds remaining. No additional disbursements are anticipated. FEMA reimbursements pending. Loan to be closed out, and interest to begin accruing, on 3/1/18.	
5	Sylvan Dale Ranch,LLP > Emergency Irrigation Pond Excavation C150392	Larimer	\$ 105,171	100%	6/2014-4/2014	100% Ltr	JMH	Project is complete and borrower has repaid a large sum of the principal. Loan to be closed out, and interest to begin accruing on 6/1/17.	

CWCB Water Project Loan Program Project Data Sheet

C150391

Project Name: Emergency Raw Water Storage

Repair Project

Drainage Basin/ District: South Platte / 4

Total Project Cost: \$1,900,000

Type of Borrower: Middle-Income Municipal

CWCB Loan: \$1,515,000

(with 1% service fee)

Project Type: Reservoir Rehabilitation

Water Source: West Fork of the Little

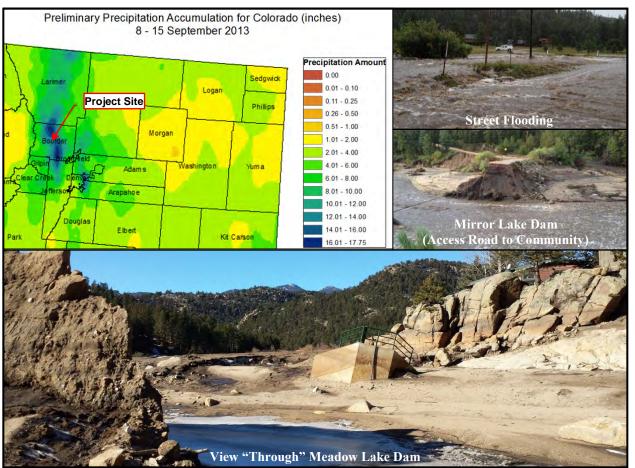
Thompson River

Funding Source: Severance Tax PBF

Water Storage: 108 AF

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.



CWCB Water Project Loan Program Project Data Sheet

C150368

Borrower: North Poudre Irrigation Company County: Larimer

Project Name: Fossil Creek Reservoir Diversion **Project Type:** Diversion Rehabilitation

Structure Repair

Drainage Basin/ District: South Platte / 3 **Water Source:** Cache la Poudre

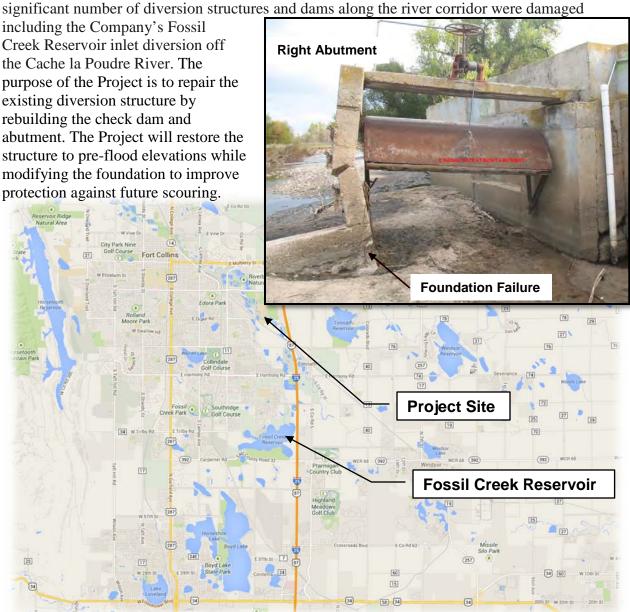
Total Project Cost: \$477,000 **Funding Source:** Severance Tax PBF

Type of Borrower: Blended **Average Annual Diversion:** 31,700 AF

CWCB Loan: \$481,770 Interest Rate: 2.35% Term: 30-years

(with 1% service fee) (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



CWCB Water Project Loan Program Project Data Sheet

Borrower: St. Vrain and Left Hand Water

Conservancy District

Project Name: Emergency Rock'n WP Ranch

Lake No. 4 Repair Project

Drainage Basin: South Platte

Total Project Cost: \$9,000,000

Type of Borrower: Blended

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

County: Boulder

Project Type: Reservoir Rehabilitation

Water Source: St. Vrain Creek

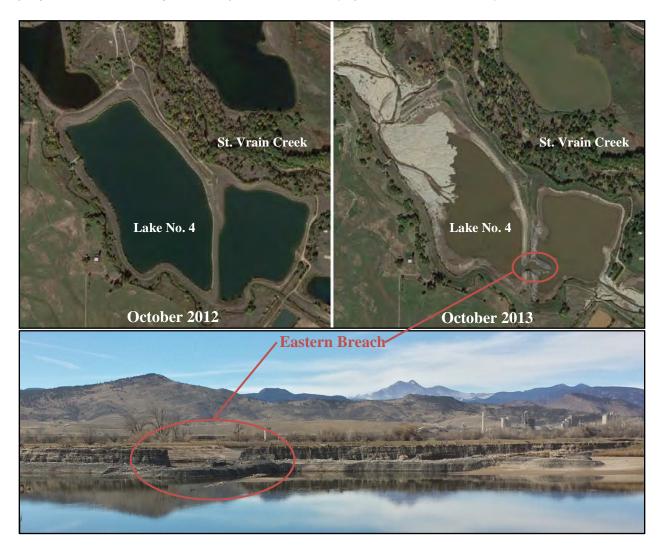
Funding Source: Severance Tax Perpetual

Base Fund

Average Annual Augmentation: 200 AF Preserved Water Supply Storage: 600 AF Interest Rate: 3.2% Term: 30-years

(Ownership: 93% High Municipal, 7% Commercial)

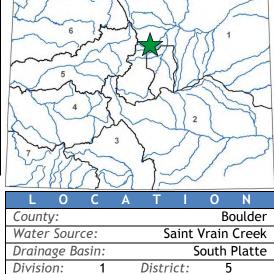
During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the District's Rock'n WP Ranch Lake No. 4. During the flood, St. Vrain Creek breached in over four locations above the Lake. The unlined gravel pits above the Lake were flooded, causing their earthen embankments to fail, sending flood water into the Lake. The Lake filled and eventually overtopped, breaching its eastern embankment. The purpose of the Project is to repair the Lake to resume its use as a water augmentation reservoir by the District. Boulder County is a co-owner of the Lake. As the County and the District are public agencies, it is expected that FEMA will reimburse 75% of the Project Cost and the State's Public Assistance Program will cover 12.5% under their respective emergency programs. The remaining cost of repairs will be evenly split with Boulder County.



Emergency Supply Irrigating Ditch Repair Project

Supply Irrigating Ditch Company November 2014 Board Meeting

LOA	N D	E T A	l L	. S	
Project Cost:				\$3	21,000
CWCB Loan (with Se	rvice Fee):			\$3	24,210
Loan Term and Inter	est Rate:		27 \	ears @	2.25%
Funding Source:	Severan	ice Tax P	erpeti	ıal Bas	e Fund
BORR	O W E	R	T Y	PΕ	
Agriculture	Munic	ipal		Comn	nercial
86% 0% L	_ow - 5% M	id - 7% H	igh	2	2%
PROJE	СТ	DΕ	T A	I L	S
Project Type:		[Ditch I	Rehabil	itation
Average Annual Dive	rsion:			4,	650 AF



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. The Company has received approval of its Project Worksheet from FEMA to fund a portion of the permanent repairs. This loan will cover the remaining cost associated with the repairs and provide upfront funding for the FEMA reimbursement funds. Construction is scheduled to be complete prior to the 2015 irrigation season.



Water Source: Big Thompson River

Construction Completed: May 2014

Sylvan Dale Ranch, LLLP Emergency Irrigation Pond Excavation

C150392



Project Description

The Ranch has been owned and operated by the Jessup family since 1946 as both a guest ranch and a working ranch encompassing 3,200 acres in the foothills at the mouth of the Big Thompson Canyon, seven miles west of Loveland. There are 160 the year, the pastures are grazed by the Ranch's grass-fed cattle herd. The Ranch owns two adjoining ponds next to Big Thompson River. The ponds, which were silted in during the September 2013 flood, are fed by springs and drain into the river just above the George Rist Ditch diversion. The Ranch pumps water out of the ponds to irrigate pastures located immediately south of the ponds. Between 142 and 190 acre-feet are used per season, using two center pivots. Without these ponds, there is no means to irrigate the pastures. The purpose of this project is to excavate the silt from the ponds.

Project Data

Sponsor: Sylvan Dale Ranch, LLP **County:** Larimer

Terms of Loan: \$105,171 for 30 years @ 1.75%

Expended Amount: \$105,171 Anticipates FEMA Funding: NO Design Engineer: None

Contractor: Custom Design Fabricators - Livermore, Colorado

Project Elements: The ponds were excavated and the silt was distributed to various locations on the

Ranch.

	Projects Substantially Completed in Calender Year 20	16						
1	Boulder and Larimer County Irrigation > Boulder & Larimer Diversion Structure Repair C150374	Boulder & Larimer	\$ 202,000	100%	1/2014-4/2014	100% Ltr	JMH	Loan Paid in Full
2	Ish Reservoir Company > Inlet Ditch & Diversion Structure Repair C150376	Boulder	\$ 207,050	100%	1/2014-4/2014	100% Ltr	JMH	Loan Paid in Full
3	Big Thompson and Platte River > Big Thompson & Platte River Div. Structure Repair C150373	Larimer	\$ 189,861	100%	5/2014-6/2014	95%	JMH	12/1/16
4	Church Ditch Water Authority > Leyden Creek Crossing Repair C150377	Jefferson	\$ 591,179	100%	1/2014-5/2014	95%	JMH	12/1/16
5	Highland Ditch Company > Highland Ditch System Repairs C150369	Boulder	\$ 1,477,756	100%	10/2013-4/2014	100%	JMH	12/1/16
6	Left Hand Ditch Company > Left Hand Ditch System Repairs C150370	Boulder	\$ 1,203,086	100%	10/2013-2/2015	99%	JMH	12/1/16
7	Oligarchy Irrigation Company > Oligarchy Irr. Ditch River Diversion Struct. Repair C150372	Boulder	\$ 326,036	100%	1/2014-5/2014	100%	JMH	12/1/16
8	Rough & Ready Irrigation Ditch Company > Rough & Ready River Diversion Struct.Repair C150371	Boulder	\$ 246,851	100%	1/2014-5/2014	100%	JMH	12/1/16
9	Beeman Irrigation > Emergency Beeman Diversion Dam Repair C150385	Weld	\$ 2,020,000	100%	1/2014-5/2014	100%	JMH	1/1/17
10	Consolidated Home Supply Ditch & Reservoir Co > George Rist Ditch Repair C150380	Larimer	\$ 434,412	100%	2/2014-5/2014	99%	JMH	1/1/17
11	Consolidated Home Supply Ditch & Reservoir Co > Big Dam Diversion Structure Repair C150375	Larimer	\$ 1,745,603	100%	1/2014-9/2015	100%	JMH	1/1/17

Loan Program Attachment 4

_			1					Attaciment 4
12	Green Ditch Company > Emergency Green Ditch Channel Repair C150383	Boulder	\$ 189,200	100%	5/2014-6/2014	100%	JMH	3/1/17
13	Culver Ditch Company > Culver Mahoney Ditch Repair C150390	Boulder & Larimer	\$ 151,500	100%	2/2014-4/2014	100% Ltr	JMH	3/1/17
14	Butte Irrigation & Milling Company > Emergency Berm Repair C150382	Boulder	\$ 114,369	100%	4/2014-5/2014	100%	JMH	5/1/17
	Projects Complete	ed Sub Total:	\$9,098,902.27					

Boulder and Larimer County Irrigating and Manufacturing Ditch Company Emergency Boulder & Larimer Diversion Structure Repair

C150374



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. The purpose of this Project is to repair the Little Thompson River diversion structure and the Ish Reservoir inlet ditch structure to allow the Company to deliver water to shareholders.

Project Data

Sponsor: Boulder & Larimer County: Boulder & Larimer Water Source: Little Thompson River

County Irrigating & Manufacturing

Ditch Co.

Terms of Loan: \$202,000 for 30 years @ 1.90% Construction Completed: April 2014

Expended Amount: \$202,000 Anticipates FEMA Funding: NO

Design Engineer: Tessara Water, LLC - Hudson, Colorado and SM&RC Structural Engineers, Inc. - Lakewood,

Colorado

Contractors: Concrete Structures, Inc. - Longmont, CO. & Zac Dirt, Inc. - Longmont, CO.

Project Elements: The Project included the repair of the Little Thompson River diversion structure and the Ish Reservoir Inlet Ditch: The scope of work for the diversion structure repairs involved removing debris from the dam and diversion structure, forming and pouring a new wing wall on the north side of the diversion dam, and then rechanneling the Little Thompson River to flow back over the diversion dam. The scope of work for the inlet ditch washout repairs involved creating a new path for the Company's ditch through the area. This involved creating a foundation secured to bedrock and building a new water conveyance system on top of the foundation.

Ish Reservoir Company Emergency Inlet Ditch and Diversion Structure Repair

C150376



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. The purpose of this Project is to repair the Little Thompson River diversion structure and the Ish Reservoir inlet ditch structure to allow the Company to deliver water to shareholders.

Project Data

Sponsor: Ish Reservoir Company County: Boulder & Water Source: Little Thompson River

Larimer

Terms of Loan: \$207,050 for 30 years @ 1.75% Construction Completed: April 2014

Expended Amount: \$207,050 Anticipates FEMA Funding: NO

Design Engineer: Tessara Water, LLC - Hudson, Colorado and SM&RC Structural Engineers, Inc. - Lakewood,

Colorado

Contractors: Concrete Structures, Inc. - Longmont, CO. & Zac Dirt, Inc. - Longmont, CO.

Project Elements: The Project included the repair of the Little Thompson River diversion structure and the Ish Reservoir Inlet Ditch: The scope of work for the diversion structure repairs involved removing debris from the dam and diversion structure, forming and pouring a new wing wall on the north side of the diversion dam, and then rechanneling the Little Thompson River to flow back over the diversion dam. The scope of work for the inlet ditch washout repairs involved creating a new path for the Company's ditch through the area. This involved creating a foundation secured to bedrock and building a new water conveyance system on top of the foundation.



Emergency Big Thompson and Platte River Diversion Structure Repair

Big Thompson and Platte River Ditch Company Project Closeout December 1, 2016



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. The purpose of this Project was to repair the diversion structure and crossing structures to allow the Company to deliver water to shareholders. The Company's diversion structure and by-pass structure were repaired and its crossing over the Little Thompson River was replaced with a siphon to provide for greater flood resiliency. The old crossing structure was a bottleneck at times of free river, so the structure has been improved to allow for additional flows. Final loan costs were lower than originally anticipated because many project components were able to be repaired as opposed to being replaced.

Р	R O J E C	T D	A T	A
Sponsor: Big Thompson and	County: Larimer			Water Source: Big Thompson
Platte River Ditch Company	county. Laminer			River
Type of Project: Diversion Rehabilitation Board Appro			oroval	Date: October 2013
Loan Terms: (Original) \$808,000 at 1.85% for 30 years (Disbursed) \$189,861.39				
Design Engineer: NOCO Engineering Inc. & Weeks & Associates, Inc.				
Contractor: Kielian Construction				
Project Elements: Headgate rehabilitation, siphon construction, flood clean up.				



Emergency Leyden Creek Crossing Repair

Church Ditch Water Authority
Project Closeout December 1, 2016



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 Authority's Church Ditch. Church Ditch flood repairs include restoring the Church Ditch to pre-flood conditions. The Leyden Creek Crossing Structure was rebuilt with this section of the ditch piped to prevent the uncontrolled diversion of flood waters in potential future events. For all areas of the ditch, sediment that was deposited by the flood was removed and the ditch banks were reshaped where sloughing occurred. Riprap was added to portions of the reconstructed ditch banks to prevent erosion and increase protection to the ditch. This project qualified for FEMA public assistance.

PROJECT DATA					
Sponsor: Church Ditch Water Authority	County: Jefferso	on	Water Source: Clear Creek		
Type of Project: Diversion Rehab	pe of Project: Diversion Rehabilitation Board Approval				
Loan Terms: (Original) \$606,000 at 2.85% for 30 years (Disbursed) \$591,178.65					
Design Engineer: Ecological Resource Consultants, Inc.& SM&RC Structural Engineers, Inc.					
Contractor: J.L. Melton Construction, Inc.; Kemp and Hoffman, Inc.; & Diamond Excavating, Inc.					
Project Elements: Piping a ditch crossing a creek. Bank stabilization.					



Emergency Highland Ditch System Repairs

Highland Ditch Company

Project Closeout December 1, 2016



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. The purpose of this Project was to repair the Company's system to allow the delivery of water to shareholders. This project included the reconstruction of the Highland Ditch diversion structure and headgate that were completely washed away in Lyons along the St. Vrain River. The inlet and outlet ditches of Foothills Reservoir were also rehabilitated as part of the project. The work included: repairing of the main diversion structure, headgate, SCADA system, and inlet and outlet ditches of Foothills Reservoir. This project qualified for FEMA public assistance, and coordination remains on-going.

P	R O J E C	T DAT	A		
Sponsor: Highland Ditch Company	County: Boulder		Water Source: St. Vrain Creek		
Type of Project: Diversion Rehabi	litation	Board Approval Date: October 2013			
Loan Terms: (Original) \$1,999,800 at 1.95% for 30 years (Disbursed) \$1,477,756.28					
Design Engineer: Tessara Water,	Design Engineer: Tessara Water, LLC. & Providence Infrastructure Consultants, Inc.				
Contractor: Zac Dirt, Inc.					
Project Elements: Diversion dam and trash rack construction. Flood clean up.					



Emergency Left Hand Ditch System Repairs

Left Hand Ditch Company

Project Closout December 1, 2016



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 system. The Company restored its system to pre-flood condition which included: Replacement of the Left Hand Creek parshall flume and recorder station, repair of several Left Hand Valley ditch diversions (Crocker, Table Mountain, Bader, Hunman, Star, Holland, Williamson, and Gold Lake Filler Ditch), and replacement of the diversion dam and headgate structure at the Allens Lake Filler Canal.

P	R O J E C	T DAT	A	
Sponsor: Left Hand Ditch Company	County: Boulder		Water Source: Left Hand Creek	
Type of Project: Diversion Rehabilitation Board App			Date: October 2013	
Loan Terms: (Original) \$3,276,056 at 2.30% for 30 years (Disbursed) \$1,203,086.40				
Design Engineer: Smith Geotechnical Engineering Consultants, Inc.				
Contractor: Left Hand Excavating, Inc.				
Project Elements: Repair of multiple diversions and headgate structures along the St. Vrain Creek corridor. Replacement of measuring flume.				



Emergency Oligarchy Ditch River Diversion Structure Repair

Oligarchy Irrigation Company Project Closeout December 1, 2016



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 Oligarchy Ditch Company's diversion structure on the St. Vrain Creek. The original structure was completely lost in the flood. The diversion structure was completely reconstructed to the same size and location as the original with slightly modified sand gates and flumegate. For better operation and river administration, the rebuilt diversion separates the sand gate and the flumegate into their own passages through the diversion dam. A fish ladder was also constructed as part of the project.

P	R O J E C	T DAT	A	
Sponsor: Oligarchy Irrigating Company	County: Boulde	r	Water Source: St. Vrain Creek	
Type of Project: Ditch Rehabilitation Board Approval			Date: September 2015	
Loan Terms: (Original) \$1,262,500 @ 2.50% for 30 years (Disbursed) \$1,073,069.12				
Design Engineer: Deere and Ault Consultants, Inc.				
Contractor: Fischer Construction, Inc.				
Project Elements: Diversion Structure, sluice and flume gates, headgates, & fish ladder.				



Emergency Oligarchy Ditch River Diversion Structure Repair

Rough & Ready Irrigating Ditch Company Project Closeout December 1, 2016



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 Rough and Ready Irrigating Company's river diversion on the St. Vrain Creek. This structure also serves as the diversion dam for the Palmerton Ditch. The diversion dam and sand gates were completely lost to the flood and the headgates sustained major damage. The purpose of this Project was to completely reconstruct the diversion dam, sand gates, headgates, ditches, and measuring flumes. The structure was completely reconstructed to the same size and location but included a combined conveyance ditch off the diversion and the addition of a bypass to the river to better regulate diversions. Additionally, a fish ladder was incorporated into the new diversion dam

Р	R O J E C	T DAT	A	
Sponsor: Rough & Ready Irrigating Ditch Company	County: Boulde	r	Water Source: St. Vrain Creek	
Type of Project: Ditch Rehabilit	ation	Board Approval	Date: September 2015	
Loan Terms: (Original) \$1,843,250 @ 2.70% for 30 years (Disbursed) \$1,210,116.19				
Design Engineer: Deere and Ault Consultants, Inc.				
Contractor: Lawrence Construction Company, Inc				
Project Elements: Diversion dam with fish ladder, headgates, conveyance ditch, river turnout				
structure.				



Emergency Beeman Diversion Dam Repair

Beeman Irrigating Ditch and Milling Company Project Closeout January 1, 2017



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 system. The Company and Meadow Island No. 2 jointly operate a diversion dam, measurement flume, and bifurcation structure. The flood deposited silt covered the dam and cut a new channel through the historic island, cutting off flow to the joint headworks area. This project included four phases: (1) demolition of existing structure and reconstruction of the headworks, (2) installation of an adjustable check dam in place of the current stop log dam, (3) demolition/reconstruction of a portion of the existing 'big dam' structure, and (4) channel bank stabilization.

P	R O J E C	T DA7	ГА	
Sponsor: Beeman Irrigating	County: Weld		Water Source: South Platte	
Ditch & Milling Company	country. Weta		River	
Type of Project: Diversion Rehab	oilitation	Board Approval Date: October 2013		
Loan Terms: (Original) \$2,020,000 at 1.75% for 30 years (Disbursed) \$1,479,643.46				
Design Engineer: Smith Geotechnical Engineering Consultants, Inc.				
Contractor: Northern Colorado Constructors, Inc.				
Project Elements: Headworks and diversion dam constructin including (1) 2'x60' and (1) 3'x48'				
Obermeyer Gates, solar powered automation equipment				



Emergency George Rist Ditch Repair

Consolidated Home Supply Ditch and Reservoir Company Project Closeout January 1, 2017



Project Description

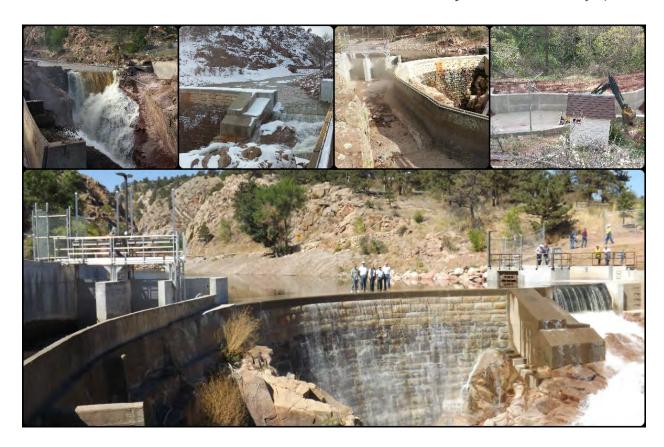
During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's George Rist ditch and diversion structure. During the flood, the diversion dam, headgate, measuring flume, stilling well and house, and access road was heavily damaged. Additionally, two sections of ditch embankment were completely washed out. The Project included cleaning debris and silt out of the diversion dam and headgates, reconstruction of the measuring flume and stilling well, and reconstruction of the diversion structure access road. The two sections of ditch embankment that were breached were restored with compacted material and erosion protection measures

Р	R O J E C	T DAT	A	
Sponsor: Consolidated Home	County: Larimer	,	Water Source: Big Thompson	
Supply Ditch & Res. Co.	country. Larinier		River	
Type of Loan: Diversion Rehabili	tation	Board Approval	Date: October 2013	
Terms of Loan: (Original) \$519,140 at 1.95% for 30 years (Disbursed) \$491,111.77				
Design Engineer: Deere & Ault Consultants				
Contractor: Gerrard Excavating				
Project Elements: Diversion dam and headgate repair; parshall flume, ditch embankment rebuild				



Emergency Big Dam Diversion Structure Repair

Consolidated Home Supply Ditch and Reservoir Company Project Closeout January 1, 2017



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 "Big Dam" diversion structure. During the flood, the river overtopped the structure by approximately ten feet. The top five feet of the masonry structure was washed out and the mortar between masonry blocks on the north abutment was partially lost. Construction activities on the dam included the installation of new masonry blocks, a concrete cap, and a new spillway with an adjustable obermeyer gate. Construction on the dam required the reconfiguration of the company's headgates. Though not directly attributable to the flood, the Company chose to replace its sand out gates, control gates, and the parshall flume as they were in poor condition needing replacement. The company has a FEMA Project Worksheet for the dam and headgates and are in the process of seeking reimbursement for eligible costs.

Р	R O J E C	T DAT	A	
Sponsor: Consolidated Home Supply Ditch & Res. Co.	County: Larimer		Water Source: Big Thompson River	
Type of Loan: Diversion Rehabilitation Board Approval Date: October 2013				
Terms of Loan: \$1,858,400 at 1.95% for 30 years				
Design Engineer: Deere & Ault Consultants				
Contractor: Gerrard Excavating				
Project Elements: Masonry dam reconstruction; 6'x20' Obermeyer gate (spillway) w/ control house; (2) 5'x7'6" headgates; (2) 6'x7'3" sandout gates; (2) 6'6"x6'6" Control gates; acess road, walkways, new parshall flume				



Emergency Green Ditch Channel Repair

Green Ditch Company

Project Closeout March 1, 2017



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 Green Ditch. The flood relocated Boulder Creek upstream of the Green Ditch diversion thereby leaving the Green Ditch headgate dry. The project included repairing the Boulder Creek channel breach with compacted embankment material and riprap erosion control. Boulder Creek currently flows in its pre-flood flowline alignment over the Green Ditch diversion structure. The Company analyzed a plan to relocate the diversion structure but has since decided to instead focus on fully restoring and improving the structure at its historic location. Work continues on this front but emergency loan funds will not be needed to complete the task.

P	R O J E C	Т	D A T	A					
Sponsor: Green Ditch Company	County: Boulder			Water Source: Boulder Creek					
Type of Loan: Ditch Rehabilitation Board Approval Date: November 2013									
Terms of Loan: (Original) \$530,250 at 2.50% for 30 years (Disbursed) \$189,199.50									
Design Engineer: Applegate Grou	ıp								
Contractor: Lefthand Excavating									
Project Elements: Headgate, sand gate, measurement flume rehabilitation, ditch reshaping, debris									
and silt removal.									

Culver Lateral Ditch Company Emergency Culver Mahoney Ditch Repair

150390



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 Culver Lateral Ditch Company ditch and diversion structure. The flood damaged the diversion dam, headgate structure, sand gates, measurement flume, and recording structure. Additionally, the first 1,500 feet of ditch was destroyed as it effectively became a part of the Little Thompson River. The next 1,800 feet of ditch was filled with sediment. The purpose of the Project is to repair the diversion structure and ditch to allow the Company to divert its decreed water rights.

Project Data

Sponsor: Culver Lateral Ditch Company County: Water Source: Little Thompson River

Boulder/Larimer

Terms of Loan: \$151,000 for 30 years @ 2.30% Construction Completed: May 2014

Expended Amount: \$151,000 Anticipates FEMA Funding: YES

Design Engineer: TZA Water Engineers, Inc. - Lakewood, Colorado

Contractor: Chaparral Construction, LLC - LaVeta, Colorado

Project Elements: The project included removal of debris and silt from the ditch and diversion dam, reshaping the ditch sideslopes and flowline, and rehabilitation of the headgate structure, sand gates, measurement flume, and recording structure.



Emergency Berm Repair

Butte Irrigating and Milling Company Project Closeout May 1, 2017



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 or breached. Portions of the Butte Mill Ditch Company's ditch were silted in and the flood eventually breached a berm upstream of the Company's diversion point, causing the post-flood river to bypass the diversion structure. The purpose of the Project was to repair this berm and clean out the ditch channel to allow the Company to divert its decreed water rights. The project included the removal of flood debris and silt from the ditch and construction of an earthen berm protected with 9 inch riprap on the sideslope and soil riprap and bedding material on the berm crest. Construction was completed in May 2014.

Р	R O J E C	T D	A T	A					
Sponsor: Butte Irrigating and Milling Company	County: Boulder	County: Boulder Water Source: Boulder Cre							
Type of Loan: Diversion Rehabili	tation	Board Approval Date: October 2013							
Terms of Loan: (Original) \$277,750 at 2.30% for 30 years (Disbursed) \$113,236.49									
Design Engineer: Applegate Group									
Contractor: Harley Keeter, Jr. Trucking									
Project Elements: Berm repair with 9-inch riprap and reseeding.									

WATER PROJECT CONSTRUCTION LOAN PROGRAM LOAN REPAYMENT DELINQUENCY REPORT LOAN FINANCIAL ACTIVITY REPORT MAY 2017

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2016 through April 2017. The effective due date of the payment is inclusive of the Board's current 30 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 ten months of Fiscal Year 2017 totaled 219. There were four loan payments not received on time during this period. The loan payments from the Sanchez Ditch and Reservoir Company and the Two Rivers Water Company were less than 30 days late. The loan payments from Fuchs Ranches, Inc. and the Town of Rico were less than 60 days late. Thus, the ontime performance for the total repayments due was 98% in compliance or 2% not in compliance.

LOAN FINANCIAL ACTIVITY

Loan Financial Activity relative to the Water Project Construction Loan Program for Fiscal Year 2017 is summarized as follows: Funds received relative to loans in repayment totaled \$101.5 M for this year. Funds disbursed relative to new project loans totaled \$25.1 M for this year. Net activity resulted in \$76.4 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 \$80.8 M in receivables and \$23.2M in disbursements for a total net activity of \$57.6 M received over disbursed. The STPBF consists of \$20.7 M in receivables and \$1.9 M in disbursements for a total net activity of \$18.8 M received over disbursed.

[See Details in Table on the Next Page]

COLORADO WATER CONSERVATION BOARD

FINANCIAL ACTIVITY REPORT FOR FISCAL YEAR 2017

CONSTRUCTION FUND

Period	Princip	al	In	terest	Total Received		Disbursements		Net Activity	
July 2016	\$ 175	5,219	\$	177,772	\$	352,990	\$	=	\$	352,990
August 2016	\$ 69,829	,119 \$	1	,139,802	\$	70,968,921	\$	1,422,755	\$	69,546,166
September 2016	\$ 594	,899	1	,087,003	\$	1,681,902	\$	702,809	\$	979,093
October 2016	\$ 775	5,633	5	604,218	\$	1,379,851	\$	716,499	\$	663,352
November 2016	\$ 468	3,976	5	378,366	\$	847,342	\$	2,462,536	\$	(1,615,194)
December 2016	\$ 954	,147	5	984,727	\$	1,938,874	\$	7,494,295	\$	(5,555,421)
January 2017	\$ 374	,491 \$	5	240,886	\$	615,378	\$	1,935,534	\$	(1,320,157)
February 2017	\$ 399	,486 \$	\$	289,133	\$	688,619	\$	1,763,540	\$	(1,074,921)
March 2017	\$ 480),725	\$	368,141	\$	848,866	\$	5,451,971	\$	(4,603,105)
April 2017	\$ 824	,729 \$	5	607,266	\$	1,431,995	\$	1,217,720	\$	214,275
May 2017	\$	- \$	\$	1	\$	-	\$	-	\$	-
June 2017	\$	- \$	\$	-	\$	-	\$	-	\$	-
FY 2017 Totals	\$ 74,877,4	24 \$	5,5	877,314	\$	80,754,738	\$	23,167,658	\$	57,587,080

SEVERANCE TAX PERPETUAL BASE FUND

Period		Principal		Interest	Total Received		Disbursements		Net Activity	
July 2016	\$	60,728	\$	34,502	\$	95,230	\$	-	\$	95,230
August 2016	\$	423,038	\$	65,634	\$	488,672	\$	494,138	\$	(5,466)
September 2016	\$	3,373,146	\$	1,305,042	\$	4,678,189	\$	20,285	\$	4,657,904
October 2016	\$	370,975	\$	472,810	\$	843,785	\$	130,390	\$	713,395
November 2016	\$	4,741,943	\$	185,184	\$	4,927,128	\$	350,346	\$	4,576,782
December 2016	\$	641,627	\$	180,155	\$	821,782	\$	-	\$	821,782
January 2017	\$	520,403	\$	106,654	\$	627,057	\$	626,089	\$	967
February 2017	\$	644,227	\$	128,588	\$	772,815	\$	74,654	\$	698,161
March 2017	\$	5,912,437	\$	153,110	\$	6,065,547	\$	120,644	\$	5,944,903
April 2017	\$	1,092,977	\$	275,753	\$	1,368,731	\$	63,063	\$	1,305,668
May 2017	\$	-	\$	-	\$	-	\$	-	\$	-
June 2017	\$	-	\$	-	\$	-	\$	-	\$	-
FY 2017 Totals	\$ 1	7,781,502	\$ 2	2,907,432	\$	20,688,934	\$	1,879,609	\$	18,809,325
GRAND TOTALS	\$9	2,658,926	\$ 8	8,784,746	\$	101,443,672	\$	25,047,267	\$	76,396,405