



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

DIRECTOR'S REPORT

May 2016

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: James Eklund
Erik Skeie

DATE: May 18-19, 2016

SUBJECT: Agenda Item 7d, March 2016 CWCB Board Meeting Director's Report

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~INTERSTATE AND FEDERAL~

U.S.-MEXICO, MINUTE 319 IMPLEMENTATION AND FUTURE NEGOTIATIONS— The United States, Mexico, and the Colorado River basin states are meeting several times a month to continue to implement Minute 319 activities, and to continue to explore the possibility of agreeing to another Minute within this calendar year. There are workgroup meetings and additional Minute Negotiating Group meetings scheduled through July of this year. The May MNG meeting will take place in Mexico City. Director Eklund and Staff will provide updates to the Board when details develop. *(Michelle Garrison)*

GLEN CANYON DAM ADAPTIVE MANAGEMENT WORK GROUP (AMWG) AND TECHNICAL WORK GROUP (TWG) MEETINGS— The Glen Canyon Dam TWG held its spring meeting on April 19 and 20, 2016 in Phoenix, Arizona. At that meeting, the TWG received briefings on the status of key natural resources, discussed the triennial budget and charter and protocol for the Science Work Plan, and made observations regarding the Draft EIS (DEIS) for the Long Term Experimental and Management Plan (LTEMP), which the BOR and NPS released on January 8, 2016. To review a copy of the DEIS for LTEMP, visit the following website: <http://ltempeis.anl.gov/index.cfm>. The Staff has been working with the Office of the Attorney General to draft a comment letter on behalf of Colorado and join comment letters provided by the 7-Basin States and the Upper Colorado River Commission. Director McClow and AG staff can discuss the approach with the Board at the May Board meeting. *(Michelle Garrison)*

BASIN STATES DROUGHT CONTINGENCY PLANNING— The Basin States have continued to coordinate with the Department of the Interior to develop appropriate tools to address the possibility that declining elevations at Lakes Powell and Mead could continue. In the Upper Basin, the drought contingency planning efforts have focused on expanded weather modification activities, strategically using upstream CRSP storage, and demand management activities. The Upper Division States continue to explore demand management activities through the System Conservation Agreement Pilot Program and the Colorado Water Bank Work Group activities. In addition, the Upper Division States and the Department of the Interior are continuing to flesh out a possible agreement that could describe the circumstances when, and the processes for, using CRSP storage to protect critical elevations at Lake Powell and recover that storage in subsequent years. *(Michelle Garrison)*

~STATEWIDE~

CWCB PARTICIPATES IN ANNUAL REGIONAL WATER FESTIVALS— The CWCB is scheduled to participate in three 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 securing Colorado’s water future, discussing the water challenges the state faces, what is currently being done and how a balanced approach will help our state as we head into the future. The students will also learn ways they can help implement the Colorado Water Plan by using 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:

- May 11 - Boulder, University of Colorado
- May 12 - Northglenn/Thornton/Westminster, Front Range Community College
- May 16-17 - Grand Junction, Colorado Mesa University
(*Ben Wade*)

~COLORADO RIVER BASIN~

COLORADO RIVER WATER USE— As of April 25, 2016, the Lake Mead water level was at 1077.08 feet with 9.771 million acre-feet (MAF) of storage, or 37% of capacity, while the Lake Powell water level was at 3591.71 feet with 10.976 MAF of storage, or 45% of capacity. Total system active storage as of April 24 was 28.590 MAF, or 48% of capacity, which is approximately the same as one year ago. As of April 18, 2016, the forecast unregulated inflow into Lake Powell for Water Year 2016 is 8.441 MAF, which is 78% of average.

2016 Water Use Forecast: As of April 28, the 2016 Reclamation forecast for the Lower Basin states’ consumptive use of Colorado River water is 7.043 MAF, which includes Arizona at 2.627 MAF, California at 4.146 MAF, and Nevada at 0.270 MAF. The forecast for 2016 for California’s agricultural consumptive use of Colorado River water is 3.347 MAF. The forecast for Metropolitan Water District of Southern California’s 2016 use is 0.653 MAF. (*Andy Moore*)

~PLATTE RIVER BASIN~

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM— The Platte River Recovery Implementation Program (PRRIP) Governance Committee (GC) held its regular meeting on March 9, 2016 in Kearney, CO. On March 8- 9, 2016, the GC also held a Structured Decision Making (SDM) workshop to kick off the “adjust” phase of adaptive management related to the conclusion that Short Duration High Flows (SDHFs) will not produce suitable nesting sandbars. The GC also held a special conference call on April 12, 2016 to discuss proposed amendments to the J2 Water Service Agreement. No decisions were made during the call.

Agenda items for the regular GC meeting in March included regular committee meeting and budget updates and an update on the J2 Reservoir Project. The GC approved the Grassland Monitoring Sole-Source Contract, the Wet Meadows Hydrologic Monitoring Approach Final Peer Review Package, beginning the Combined Whooping Crane Habitat Synthesis Chapters peer review process, the No-Cost Net Controllable Conserved Water (NCCW) Project Score, payments in lieu of 2014 taxes, and to return to the original cost indexing method to account for inflation. The GC also approved removing a 50% match requirement, which allowed them to approve a \$100,000 contribution for Central Platte River

Phragmites Control, for 2016 only. The GC appointed Mike Drain (Chair), Brian Klerkin (Wyoming), Dennis Strauch (Upper Platte Water Users), Bill Taddicken (Environmental Groups), and Jennifer Schellpeper (Nebraska) to the scoring subcommittee and elected a temporary chair of the GC for the June 2016 GC meeting. There was also discussion of a proposed 10-year extension for the First Increment.

CWCB staff participated in Technical Advisory Committee (TAC), Land Advisory Committee (LAC), Water Advisory Committee (WAC), and Finance Committee (FC) meetings. The next regular GC meeting will be held on June 7-8, 2016 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 2016 Director's Report

- Parker Water & Sanitation District - Water Meter Replacement Program
- Metro State University: One World One Water - Water Efficiency Film

Five grants have been approved since the March 2016 Director's Report

- Bow Mar Water & Sanitation District - Water Meter Replacement Program (\$36,601.84)
- Metro State University: One World One Water - Water Efficiency Film (\$46,534)
- High Country Conservation Center - "Summit Saves" Water Efficiency Program for Summit
- County (\$31,945)
- North Weld County Water District - Water Efficiency Plan Update (\$36,149.36)
- Metro State University: One World One Water Center - Colorado Water Collaboratory (\$26,738)

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

- Little Thompson Water District - Water Loss Control Audits -75% Progress Report & Final Report
- City of La Junta - Water Efficiency Plan Update - Final Plan
- Town of Monument - Water Loss Control Audit - Final Report
- Town of Windsor - Water Efficiency Plan Update - Final Plan
- City of Rifle - Water Efficiency Plan Update - 75% Progress Report
- City of Ouray - Water Measurement Plan - 75% Progress Report
- Arapahoe County Water & Wastewater Authority - Water Efficiency Plan Update - Final Plan

(*Ben Wade*)

WATER EFFICIENCY & DROUGHT PLANS UPDATE—

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

DROUGHT MANAGEMENT PLANS:

Approved Plans

No new plans approved since last board meeting

WATER EFFICIENCY PLANS:

Approved Plans

- Aurora Water
- Cherokee Metropolitan District
- La Junta

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.

- Skyland Metro District
- Mount Crested Butte
- Southeastern Colorado Water Conservancy District Supplemental Regional Plan
- City of Montrose

Water Efficiency Plans in review

- Town of Windsor
- Arapahoe County Water & Wastewater Authority

(Kevin Reidy & Ben Wade)

GOVERNOR'S WATER AVAILABILITY TASK FORCE— The next Water Availability Task Force meeting will be held on May 25, 2016 from 1:00pm-3:00pm 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— 23 percent of the state is currently classified as abnormally dry, while two percent is in an active moderate drought. April has been wet across most of the state and storage remains high. El Nino conditions remain and typically result in average to above average precipitation across the state. In line with this, the Climate Prediction Center of NOAA is forecasting above average precipitation for the next three months. *(Taryn Finnessey)*

2016 WATERSHED SUMMIT— A statewide watershed summit will be held on June 9th at the Colorado Botanical Garden this one day event will be an opportunity to dialogue about watershed health, Colorado's Water Plan, resiliency, water conservation, corporate social responsibility, agriculture, education, and climate impacts. The 2016 Watershed Summit is designed to bring together water experts and the next generation of water leaders from across the region. Attendees will help develop the dialogue around current water issues and practical solutions for addressing them.

This year's focus on "Water Is Your Business" seeks to add new voices to the discussion, introduce innovative ideas and break down silos. The goal is to bring local influence to global issues. Registration is free. Agenda and registration information can be found at <http://events.r20.constantcontact.com/register/regform?llr=fmphqbdab&oeidk=a07ecba28msb1f0dc02> (*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. Kevin Reidy is on the technical advisory group as well as the steering committee. At present time, Denver Water is still running numbers through their model but should be done very soon. The project is moving into the exploratory scenario planning phase. With the help of the Sonoran Institute, the group will run various scenarios and see how climate, economy and social trends affect the model runs. (*Kevin Reidy*)

CFWE CITIZEN'S GUIDE TO CONSERVATION WORKGROUP— Kevin Reidy is participating in the working group to develop the next CFWE Citizen's Guide to Conservation. The last edition was published in 2004 and much has changed since that time. Kevin reviewed the draft in early April and provided comments to CFWE. (*Kevin Reidy*)

SB15-008 IMPLEMENTATION— Kevin Reidy 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. Curriculum will be developed with webinars and in person trainings taking place in Summer-Fall of 2016. A successful training took place at the Rocky Mountain Land Use Institute's spring conference in early March. At present Kevin and DOLA staff are reviewing the first module. (*Kevin Reidy*)

NATIONAL AMERICAN PLANNING ASSOCIATION CONFERENCE— Kevin Reidy presented at the National APA conference in Phoenix in early April. He presented on a panel regarding the land use-water planning integration work the CWCB is carrying out in CO. (*Kevin Reidy*)

WESTERN LAND USE AND WATER INITIATIVE— Kevin Reidy has been asked by the Sonoran Institute/Lincoln Institute of Land Policy to be part of a stakeholder process to offer input and guidance in developing their new joint program around water and land use. They are looking to figure out which activities they want to take on for the next three years, specifically in Colorado. Kevin attended the first meeting in Phoenix and will be participating in future calls and meetings. (*Kevin Reidy*)

~WATERSHED AND FLOOD UPDATES~

MAPPING UPDATE—

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. The final scopes of work have been approved and awaiting final task orders to begin work.

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 is 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)

COLORADO HAZARD MAPPING UPDATE— Senate Bill 15-245 granted \$6.8 million to fund the Colorado Hazard Mapping Program, which includes floodplain, erosion hazard, and debris flow mapping. The CWCB is responsible for both the floodplain and erosion zone mapping portions of the project. Currently, floodplain mapping is underway, and is being completed in multiple phases. The first phase is working to remap floodplains in the 2013 flood affected areas in Boulder, Larimer, Weld and parts of Gilpin and Jefferson Counties. Phase 1 is broken up into five tasks: 1) Field Reconnaissance & Survey, 2) Topographic Data Development, 3) Hydrology, 4) Hydraulics, and 5) Floodplain Mapping. To date the Field Reconnaissance & Survey, Topographic Data Development, and Hydrology tasks are complete, while Hydraulic Analysis is underway. Phase 1 streams are anticipated to be complete this summer. All project information can be found at <http://coloradohazardmapping.com/>

CWCB staff and their consultant team from AECOM meet quarterly with local and county officials within the project boundaries to give updates on the status of the program, discuss concerns, and ensure collaboration and transparency. The first quarterly meeting was held in November 2015 and the second in February 2016. The third is scheduled for May 25, 2016 in Weld County and will be followed by a Big Thompson Discovery Meeting. The Discovery effort is also being led by the CWCB and is the process of evaluating a watershed in order to determine what components of a Flood Risk Project may be appropriate. Findings from the Discovery will be used by FEMA to determine what efforts may or will be funded for further flood risk identification and assessment in a collaborative manner, taking into consideration the information collected from local communities during this process. Discovery initiates

open lines of communication and relies on local involvement for productive discussions about flood and non-flood risk. The process provides a forum for a watershed-wide effort to understand how an individual community's risks are related to various risks present throughout the watershed.
(Stephanie DiBetitto)

CWCB - NATURAL RESOURCES CONSERVATION SERVICE (NRCS) EMERGENCY WATERSHED PROTECTION (EWP) PROGRAM UPDATE— The CWCB continues to work with the NRCS, local watershed coalitions, and local governments to implement the EWP program. The EWP program is being used to implement the priorities of the watershed master plans developed in watersheds affected by the 2013 floods. EWP projects will restore streams to protect life and property while improving ecological processes. The total funding for project implementation is over \$63 million. The NRCS is paying for 75%, the State is covering 12.5%, and the local watershed coalitions and local governments are paying 12.5% of the project implementation. CWCB has \$6.8 million from the NRCS to pay for technical assistance and design of the projects. The design budget is underfunded, and the CWCB is working with the Department of Local Affairs to utilize other federal resources for design. There is still a shortfall, but staff will continue to investigate resources to close the design funding gap.

CWCB has hired Resilient Watershed Partners (RWP) to manage the EWP program. RWP is a collaboration of many of the best in river restoration, and it is led by Enginuity Engineering Solutions, LLC. The team includes key members in the fields of fluvial geomorphology, floodplain engineering, riparian ecology, aquatic biology, and environmental permitting. The team will be coordinating approximately 75 EWP projects. They will be designing certain projects, and reviewing the designs for all projects. They will also be on site during the implementation of the projects to ensure that the philosophical objective of the State is implemented correctly. More information on the program can be found at www.coloradoewp.com.

Staff has worked with RWP and other parties to develop key resources, including Engineering Guidance, a Colorado specific Bioengineering manual, and a Revegetation Matrix. The latter two documents are critical resources moving river restoration in Colorado to a higher standard. CWCB is asking all design consultants involved in project implementation to review these resources. They are available at www.coloradoewp.com/guidelines-and-resources. (Chris Sturm)

CWCB-Local Project Sponsor Contract for EWP Financial Assistance

CWCB has completed a template for the contract agreement that local project sponsors must execute with the Colorado Water Conservation Board (CWCB) to initiate EWP Financial Assistance (FA) funds for project construction. Specific dates and Federal Award ID number are to be determined once the Financial Agreement with NRCS is approved. NRCS approval and signature starts the 220 day timeline for non-exigent projects.

Upcoming Projects:

Upper Fountain Creek Restoration at Fitz Gulch - The 2013 floodwaters carved a new gully and cut off road access to homes. Gullying will continue to contribute sediment to the Fountain Creek headwaters and cause problems with home access. The project area is approximately 0.35 acres and the total project length is about 500 feet, with the primary purpose of separating stream flow from the access road. The project design may include rip-rap ditching, earthwork, hard surfacing for the high-flow channel, and channel shaping. Work will also include protection of existing infrastructure,

including utility lines. Best management practices to minimize additional disturbance will be followed during construction. Existing trees and root structures will be saved to the extent possible.

Wellington Gulch Restoration at North to North Pipeline - Hillside and gully erosion is undermining structural supports for a crucial water supply line. Excessive runoff from the 2013 flood washed away soil and caused erosion around the pipeline. The objective of this project is to protect the structural supports for the pipeline, including retaining structures, earthwork, grading, erosion control barriers, and to provide revegetation to maintain the functionality of the vulnerable 10,500 feet of pipe.

Left Hand Creek Restoration at Deutschteig Property - The 2013 flood eroded stream banks along Left Hand Creek and left flood debris though the Deutschteig property. The project proposes to remove debris and revegetate with willows, trees, and shrubs, as well as seed and mulch disturbed areas.
(Jeff Conboy)

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 16 out of 251 total National Flood Insurance Program participating communities that have not yet provided documentation of adopting the Rules. However, one of the 16 remaining communities has begun to adopt some of the standards. In accordance with the procedure outlined in Rule 16, staff is working on drafting notices of non-compliance to those remaining communities. Stephanie DiBetitto, member of the Watershed and Flood Section, will be taking over this responsibility, and will continue to provide outreach and technical assistance to communities. (Jamie Prochno and Stephanie DiBetitto)

RIVER RUN PROJECT— In 2012, CWCB staff explained the vision that Sheridan, Englewood, Littleton, and Arapahoe County were interested in preserving the original flood control aspects of the CWCB-owned and Corps of Engineers-inspected “Chatfield Downstream Channel Improvement Project.” Collectively called the South Platte Working Group II, these entities were exploring solutions agreeable at the local, state, and federal levels but wanted to expand the scope of activities to also include recreational and environmental benefits. This was a board approved process with the understanding that projects would also be approved by the US Army Corps



of Engineers - Omaha Flood Readiness Branch.

It is important to accommodate embracing urban rivers but also maintaining adequate flood conveyance. Four years later after \$1M in planning, modeling and design, the CWCB received approval from the Corps to build the first component of this vision, River Run Park. The project, now under construction, is estimated at \$4M with the first phase to be completed in July 2016. Pictured is the construction of River Run park with the Oxford Avenue road bridge in the distance. The project will feature a repaired drop structure to become a river surfing wave for low flow periods, repair of another failed drop structure, a sandy beach area, terraced park areas, a picnic shelter, playground, running water bathrooms, and storm water drainage improvements. No water rights or storage in Chatfield was requested for this project and it was designed for the 200-500 cfs experience that is common for several spring and early summer months in this area. (*Joe Busto*)

FLOOD THREAT BULLETIN UPDATE— The daily Flood Threat Bulletin prepared by a consultant under contract to the CWCB will began its eleventh year of daily flood forecasting for the State of Colorado on May 1st. For the fifth consecutive year, Dewberry will provide services as a consultant.

Dewberry and CWCB staff will provide daily flood threat outlooks that will be accessible online for interested users. Following upon a successful format from last year, county-specific forecasts have been replaced with more watershed-specific forecasts. The appearance of the portal has been updated to a more modern look with some additional features set to become available after the program has begun. These features include brief summaries of specific storm events and a more user-friendly portal for use in analyzing different future periods for longer range outlooks for both quantified rainfall forecasts as well as flood threats. A new quantified precipitation forecast feature has been added in order to assist end users with identifying the threat for a particular area. Also, an archive of past forecasts is now available. 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.

Dewberry compiles usage statistics, and the usage has continued to grow in each successive year of operation. This was particularly noticeable in 2015, during the “Miracle May” that affected all of Colorado and resulted in a disaster declaration for 11 counties throughout Colorado.

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*)

~AGENCY UPDATES~

RECENTLY DECREED ISF WATER RIGHTS— On April 19, 2016, the Division 4 Water Court decreed an instream flow water right to the CWCB on Hubbard Creek in Case No. 4-15CW3089 for 8.3 cfs (4/16-6/30), 2.6 cfs (6/11-8/15) and 1.8 cfs (8/16-4/15), with an appropriation date of January 26, 2015. The upstream terminus is the U.S. Forest Service property boundary and the lower terminus is the Deertrail Ditch headgate. This ISF reach is approximately 1.88 miles long and flows in a southerly direction through parts of Delta County.

PERSONNEL UPDATE— Jamie Prochno, a member of the Watershed and Flood Protection Section since 2010, announced she would be leaving CWCB staff in order to take a position with the Corps of Engineers Omaha District. Jamie has served as the Community Assistance Program (CAP) Coordinator, which assists FEMA and local governments with management of the National Flood Insurance Program in Colorado.

In addition to the basic tasks of the CAP program, Jamie also managed the erosion hazards component of the Hazards Mapping Bill (SB 15-245) and assisted local communities with technical reviews of applications and other local documents when needed.

Jamie will be greatly missed and CWCB staff wishes her well at her new position at the Corps of Engineers. Jamie's last day was May 3rd.

Stephanie DiBetitto will take over Jamie's tasks as interim CAP coordinator until a permanent replacement is hired. (*Kevin Houck*)

~GENERAL ATTACHMENTS~

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- 02 Instream Flow and Natural Lake Level Program - Summary of Resolved Opposition Cases

~LOAN PROGRAM ATTACHMENTS~

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Director's Report Attachment – May 18-19, 2016 CWCB Meeting

Stream and Lake Protection Section De Minimis Cases

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

Case No.	Applicant	Stream/ Case Number	ISF Amount	Percent Injury	Cumulative % Injury	Previous Cases
2-96CW017	DeFurio Custom Homes Inc.	Cottonwood Creek/ 2-79CW115	20 cfs (summer) 20 cfs (winter)	0.00118 % 0.00021 %	0.67731 % 0.32483 %	207
2-92CW084	Monarch Spur RV Park	Lost Creek/ 2-82CW146	1 cfs (summer) 1 cfs (winter)	0.04333 % 0.02624 %	0.04333 % 0.02624 %	0
4-16CW001	Ayer & Ayer Real Estate LLC	Crystal Creek/ 4-84CW399	5.5 cfs (summer) 5.5 cfs (winter)	0.00090 % 0.00090 %	0.00090 % 0.00090 %	0
5-13CW056	Kirk VanHee & Robert Borchardt	Eagle River/ 5-80CW126	110 cfs (summer) 45 cfs (winter)	0.00527 % 0.01022 %	0.51429 % 0.70914 %	28
5-13CW056	Kirk VanHee & Robert Borchardt	Eagle River/ 5-80CW124	130 cfs (summer) 50 cfs (winter)	0.00446 % 0.00920 %	0.58865 % 0.86860 %	36

May 18-19, 2016 Board Meeting
Instream Flow and Natural Lake Level Program
Summary of Resolved Opposition Cases

The Board's Instream flow ("ISF") Rule 8i. 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).

(1) Case No. 4-15CW016 - Application of Cross Bar Ranch, Claudio Alvarez

The Board ratified this statement of opposition at its September 2015 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water rights does not injure the Board's instream flow water rights on Porphyry Creek, Agate Creek, Major Creek, and Tomichi Creek by expansion of use. Some of the water rights are claimed with senior appropriation dates. 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 ISF water right(s) that could have been injured by this application:

CWCB Case No.	Stream	Amount (cfs)	Approp. Date	Watershed	County
4-80CW113	Porphyry Creek	1	3/17/1980	Tomichi Creek	Gunnison
4-80CW114	Agate Creek	1	3/17/1980	Tomichi Creek	Saguache Gunnison
4-80CW110	Major Creek	1.5	3/17/1980	Tomichi Creek	Gunnison
4-80CW132	Tomichi Creek	9	3/17/1980	Tomichi Creek	Saguache Gunnison

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

- Pursuant to C.R.S. § 37-92-102(3)(b), 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 CWCB's instream flow rights listed above, Applicant may divert the following regardless of the amount of flow present in the stream to satisfy CWCB's instream flow rights, as follows: (A) Applicant may divert from Propyry Ditch up to 1 cfs for irrigation of 10 acres from April 15 through July 15 as well as stockwater and wildlife uses. This amount reflects the use at the time of the CWCB's instream flow appropriations. (B) Applicant may divert from Agate No.1 Ditch up to 1.0 cfs for irrigation of 10 acres as well as stockwater and wildlife uses. This amount reflects the actual use at the time of the CWCB's instream flow appropriation. (C) Applicant may divert from Means Bros. No. 11 Ditch up to 1.6 cfs of the new water right for the Means Bros. No. 11 Ditch, Cross Bar Enlargement together with the 0.4 cfs previously

decreed to the Means Bros. No. 11 Ditch, for a total of 2.0 cfs for irrigation of 20 acres, as well as an additional 0.1 cfs for stockwater and 0.1 cfs for wildlife uses. This amount reflects the actual use at the time of the CWCB's instream flow appropriations.

- The subordination of the CWCB's instream flow water rights to the Applicant's Porphyry Ditch, Agate No. 1 Ditch, and Means Bros. No. 11 Ditch, Cross Bar Enlargement water rights, as described above and decreed herein, will not interfere with the administration of the CWCB's water rights in priority as against other water rights, and will not result in a general subordination of the CWCB's water rights to any other junior water rights. While the CWCB's instream flow rights are, under C.R.S § 37-92-102(3)(b), subject to the Applicant's uses and rate limitations described above for the Porphyry Ditch, Agate No.1 Ditch and Means Bros. No. 11 Ditch, Cross Bar Enlargement water rights, the water rights approved in this decree will be administered subject to the prior appropriation system in relation to all other water rights.

(2) Case No. 5-15CW3054 - Application of CLP Granby, LLC, and the Town of Granby
The Board ratified this statement of opposition at its September 2015 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed augmentation plan and exchange does not injure the Board's instream flow water rights on the Colorado River and Fraser River by not replacing depletions in the proper time, place and amount. Some of the water rights are claimed with senior appropriation dates. The court dismissed this application without prejudice after the applicants voluntarily proposed such dismissal.

The CWCB holds the following ISF water right(s) that could have been injured by this application:

CWCB Case No.	Stream	Amount (cfs)	Approp. Date	Watershed	County
5-90CW300	Colorado River	40 (5/1-8/31) 20 (9/1-4/30)	11/27/1990	Colorado Headwaters	Grand
5-90CW308B	Fraser River	30 (5/15-9/15) 19 (9/16-5/14)	11/27/1990	Colorado Headwaters	

(3) Case No. 6-14CW005 - Application of Philip Lopez and Ron Palmer
The Board ratified this statement of opposition at its September 2014 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed simple change of water rights did not injure the Board's instream flow water rights on the White River by expansion of use. The court dismissed the application without prejudice on February 23, 2016 for lack of progress.

The CWCB holds the following ISF water right(s) that could have been injured by this application:

CWCB Case No.	Stream	Amount (cfs)	Approp. Date	Watershed	County
5-77W3652C	White River	200	11/15/1977	Upper White	Rio Blanco

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. 1-15CW3146 - First Amended Application of Upper South Platte Water Conservancy District and Center of Colorado Water Conservancy District

During the January 2016 Water Court Resume Review, conducted in March 2016, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case No. 1-80CW067 on Middle Fork South Platte River. The case was opposed by 3 parties and is currently in active status in the court. This case was resolved with CWCB by a letter agreement, dated March 25, 2016, 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 Districts recognize that the Colorado Water Conservation Board's existing instream flow water right decreed in Case No. 80CW067, District Court, Water Division No. 1, on Middle Fork South Platte River is senior to the water right decreed in this case.
- The beneficial use of the water right for fish and wildlife propagation and preservation will only be made in storage within the Districts' service area boundaries.
- The Districts did not claim and this decree does not adjudicate a right to reuse or successively use return flows from the water right granted herein.
- If an administrative exchange is required to deliver water to areas within or outside of the Districts' service area boundaries, then such administrative exchanges shall: 1) require approval by the State and Division Engineers; 2) require notice to the CWCB, if any exchanges extend through an instream flow reach; and 3) not operate through any in stream flow reach, if the decreed instream flow water right is not met.

(2) Case No. 3-15CW3030 - Application of San Luis Valley Irrigation Well Owners

During the December 2015 Water Court Resume Review, conducted in February 2016, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case Nos. Case Nos. 3-83CW051, 3-83CW047, 3-84CW138, 3-82CW237, 3-82CW214, 3-82CW216, 3-84CW137, 3-83CW040, 3-83CW049, 3-83CW039, and 3-83CW042 on Clear Creek, North Clear Creek, the Conejos River, Rio del los Pinos, and the Rio Grande River. This case was resolved by a letter agreement, dated April 4, 2016, 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:

- Applicant recognizes that the Colorado Water Conservation Board's existing instream flow water right decreed in Case Nos. 83CW051, 83CW047, 84CW138, 82CW237, 82CW214, 82CW216, 84CW137, 83CW040, 83CW049, 83CW039, and 83CW042, District Court, Water Division No. 3 on Clear Creek, North Clear Creek, the Conejos River, Rio del los Pinos, and the Rio Grande River were decreed prior to the filing of this case (collectively, "Previously Decreed Instream Flow Rights," and individually "Previously Decreed Instream Flow Right").

- The claimed Exchanges extend from the location of replacement water introduced to the stream up to the several exchange-to points with an appropriation date of January 14, 2014.
- The Exchanges claimed herein are junior to CWCB's Previously Decreed Instream Flow Rights, and will not be operated to the extent that one of the Previously Decreed Instream Flow Rights within a particular exchange reach is not met and the stream is being administered within that particular exchange reach for the benefit of that Previously Decreed Instream Flow Right.

(3) Case No. 5-16CW3107 - Application of Kathy Marie Risner

During the January 2016 Water Court Resume Review, conducted in March 2016, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water rights decreed in Case No. 5-85CW646 on Roaring Fork River. This case was resolved by a letter agreement, dated April 4, 2016, 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:

- Applicant recognizes that the Colorado Water Conservation Board's existing instream flow water right decreed in Case No. 85CW646, District Court, Water Division No. 5 on Roaring Fork River was decreed prior to the filing of this case.
- The beneficial use of piscatorial will only be made as a storage use.
- The beneficial use of "aesthetic" will only be made as an "incidental aesthetic" use within the Applicant's storage structure and will not constitute a calling water right.



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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

John Hickenlooper, Governor

Robert Randall, Interim DNR
Executive Director

James Eklund, CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: May 18-19, 2016 Board Meeting

DIRECTORS REPORT: Water Project Loan Program
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:

- 1.70% - Agricultural
- 2.40% - Low-income Municipal
- 2.75% - Middle-income Municipal
- 3.10% - High-income Municipal
- 6.00% - Commercial
- 2.00% - Hydroelectric

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.





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James Eklund, CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: May 18-19, 2016 Board Meeting

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

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

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



Prequalified Project List

BORROWER	PROJECT NAME	APPLICATION DATE	BASIN	PROJECT DESCRIPTION	PROJECT COST	LOAN AMOUNT
Previously Approved Applications						
City of Fort Collins Utilities	Michigan Ditch Reconstruction	Nov 1, 2015	North Platte* (Project location)	The purpose of this project is to repair the section of the Michigan Ditch that failed as a result of a land slide.	\$7,050,000	\$6,345,000
Florida Consolidated Ditch Company	Hess Lateral Improvement Project	July 1, 2015	Southwest	The purpose of this project is to pipe the lateral to improve efficiencies within the ditch system. A WSRA grant application is expected. The company will also receive \$950K in CDOT funds as a part of the Hwy 550 expansion project.	\$2,500,000	\$762,500
Totals					\$9,550,000	\$7,107,500

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
•Colorado Trout Group	Reservoir Rehabilitation	\$300,000
•Kembel Reservoir	Reservoir Rehabilitation	\$100,000
•Upper Platte & Beaver Ditch Co.	Diversion Structure	\$1,000,000
•Bijou Irrigation District	Reservoir Rehabilitation	\$500,000
•St Vrain and Left Hand WCD	Reservoir Rehabilitation	\$1,000,000
•Town of Firestone	Water Rights/Storage	\$3,000,000
•Central CO WCD	Pipeline Project	\$4,000,000
•Larimer and Weld Irr. Co.	Reservoir Inlet	\$4,000,000
•North Poudre Irr. Co.	Tunnel Project	\$1,500,000
•Parker Water & Sanitation District	Water Meter Project	\$5,000,000
• Subtotal		\$120,400,000

Arkansas River Basin

•City of Walsenburg	Reservoir(s) Rehabilitation	\$6,000,000
•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
•Southeastern Colorado WCD	Hydro Project	\$15,000,000
•City of Woodland Park	Storage Project	\$1,000,000
• Subtotal		\$34,750,000

San Miguel/San Juan River Basin

- No current projects

Colorado River Basin

•Kendall Reservoir	Reservoir Rehabilitation	\$200,000
•Orchard Mesa Irrigation District	Hydro Project	\$5,000,000
• Subtotal		\$5,400,000

Gunnison River Basin

- No current projects

Rio Grande Basin

•Manasa Land & Irrigation Co.	Ditch Rehabilitation	\$6,000,000
•Baca Grande Water and San District	Water Rights Purchase	\$1,000,000
•Sanchez Ditch and Reservoir Co.	Dam Rehabilitation	\$4,000,000
•Subtotal		\$11,000,000

Yampa River Basin

•Town of Oak Creek	Reservoir Rehabilitation	\$500,000
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James Eklund, CWCBC Director

TO: Colorado Water Conservation Board Members**FROM:** Kirk Russell, P.E., Finance Section Chief**BOARD MEETING:** May 18-19, 2016**DIRECTORS REPORT:** Water Project Loan Program
Design & Construction Status Report

The CWCBC Loan Program has Substantially Completed seventeen (17) projects in Fiscal Year 15/16 as shown in Table 1. There are currently fifty-seven (57) projects authorized to receive loan funding totaling \$248 million. There are fifty (50) projects currently under contract and in the Design and Construction phase totaling \$184 million. There are an additional twenty (20) Emergency Loans approved totaling \$23 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

	Borrower	Project	County	Loan	Complete
1	East Mesa Water Company	Ditch Piping Project	Pitkin/Weld	\$732,927	7/1/15
2	Greeley Irrigation Company	Greeley Canal No. 3 Rehab.	Weld	\$1,134,839	7/1/15
3	Eckhardt Farms Inc.	Water Rights Purchase	Weld	\$1,232,036	9/1/15
4	Penrose Water District	Water Rights & Pipeline Install	Fremont	\$8,615,684	10/1/15
5	Santa Maria Reservoir Co.	Siphon and Canal System Rehab.	Hinsdale/ Mineral	\$1,405,163	11/1/15
6	Santa Maria Reservoir Co.	Dam Spillway Restoration	Hinsdale/ Mineral	\$3,677,663	11/1/15(a)
7	Lower Poudre Augment. CO.	Cornish Water Rights Purchase	Larimer/Weld	\$1,163,500	11/1/15
8	Crystal Lakes W&S Assoc.	Lower Lone Pine Enlargement	Larimer	\$2,016,460	1/1/2016 (b)
9	Town of Ridgway	Lake Otonowanda Rehabilitation	Ouray	\$606,000	1/1/16 (c)
10	Lower Poudre Augment. Co.	Box Elder Water Rights Purchase	Larimer/ Weld	\$454,500	1/1/16
11	Lower Arkansas Valley WCD	Water Rights Purchase	Bent/Crowley/ Otero/Prowers	\$2,560,350	3/1/16
12	Fort Lyon Canal Company	Replace of Horse Creek Flume	Otero/Bent/ Prowers	\$1,542,296	4/1/16
13	Fulton Irrigating Ditch Co.	Diversion Structure Rehab.	Adams	\$1,947,138	4/1/16
14	Bergen Ditch & Reservoir Co	Bergen Reservoir No. 2 Rehab.	Jefferson	\$2,110,765	4/1/16 (d)
15	Upper Platte & Beaver Creek Canal Company	Hospital Road Recharge Facility & Bridge Project	Morgan	\$119,685	4/1/16
16	Owl Creek Reservoir Co.	Owl Creek Reservoir Rehab.	Weld	\$485,000	5/1/16
17	Brighton Ditch Company	River Breach Repair Project	Adams	\$225,000	5/1/16
			Total:	\$30,029,005	

Fiscal Year 15/16 has added or preserved 12,925 AF of reservoir storage [(a) 12,000, (b) 271, (c) 363, (d) 726]





Project Description

The Company is located in the Crystal River Valley in the western portion of Pitkin County and provides irrigation water diverted out of the Crystal River. The project site is located six miles south of Carbondale. The earthen ditch was replaced with 42-inch HDPE pipe. The new pipe enters a 650 foot long rock tunnel that was collapsing. The Company worked with the NRCS and URS Corporation to pipe the ditch and utilize a combination of rock anchoring and grouting to protect the HDPE pipe inside the tunnel section. The Company serves 12 shareholders and is primarily used to grow hay and forage crops for cattle ranching. The Company was approved for grant funding from NRCS and construction was completed in June 2015.

P R O J E C T D A T A		
<i>Sponsor:</i> East Mesa Water Company	<i>County:</i> Pitkin & Garfield	<i>Water Source:</i> Crystal River
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> July 2013
<i>Final loan Contract Terms:</i> \$367,418.42 at 1.75% for 30 years		
<i>Design Engineer:</i> Natural Resource Conservation Service (NRCS) & URS Corporation		
<i>Contractor:</i> Mueller Construction & Rock Solid Construction		
<i>Project Elements:</i> Pipe removal, 42" HDPE, concrete inlet and outlet structures, tunnel stabilization, and grouting of tunnel		



Greeley Canal No. 3 Rehabilitation

Greeley Irrigation Company
Substantially Complete July 1, 2015



Project Description

GIC facilities consist of a river diversion structure, approximately 13 miles of earthen canal, check structures, delivery headgates, spill structures, trash screens, and other minor structures. A portion of these facilities are in need of repair, upgrades, or replacement. GIC diverts water from the Cache la Poudre River west of Greeley and the canal terminates east of approx. 12 miles downstream. The GIC Board is undertaking a number of phased improvements to the canal including: 1) repairs to, and partial replacement of, the river diversion; 2) piping or lining of portions of the canal; 3) consideration of canal automation using supervisory control and data acquisition (SCADA) equipment; 4) tree removal and tree pruning; 5) canal realignment, reshaping, and straightening; and 6) removal or repair of selected headgates and installation of new headgates.

This is the first step of a phased canal modernization, that would have the effect of improving overall canal operations and operational efficiency; increasing consistency of shareholder headgate deliveries; decreasing operational liabilities; and reducing unnecessary operational spills.

P R O J E C T D A T A		
<i>Sponsor:</i> Greeley Irrigation Company	<i>County:</i> Weld	<i>Water Source:</i> Cache La Poudre River
<i>Type of Loan:</i> Canal Rehabilitation		<i>Board Approval Date:</i> January 2007
<i>Terms of Loan:</i> \$2,233,867 at 2.85% for 30 years		
<i>Design Engineer:</i> Smith Geotechnical Engineering Consultants, Aqua Engineering		
<i>Contractor:</i> ECI Buildings and Components, LLC		
<i>Project Elements:</i> 683' of 6' CMP, Radial Gate Installation, 60 tons of subgrade stabilization material, 1350' of 3 rail fence, concrete wall, building electrical system, gate motors, control and monitor conduit, 1300' box culvert, 89 loans of rip rap, 3 headwalls and gates replacement		



Water Rights Purchase

Eckhardt Farms, Inc.
Substantially Complete September 2015



Project Description

Eckhardt Farms Inc. is located in Weld County near LaSalle, Colorado. The farming Corporation has been incorporated since 1993. It farms 3,000 acres and generates revenues from crops of hay, wheat, corn, sugar beets, onions, and pinto beans. In the past, the Corporation was able to irrigate with well water. The wells it used are part of Central Colorado Water Conservancy District's - Well Augmentation Subdistrict and have not been able to be pumped since 2005. Since that time the Corporation has been leasing shares in the Western Mutual Ditch Company.

Through this loan, the Corporation intended to purchase the water it had been leasing for the past seven years and continue to use it for agricultural production. Those shares later became unavailable to purchase and the Corporation identified a total of 16.06 shares of Farmers Independent and 2 shares of Western Mutual to be purchased under this loan. The loan was modified to reflect the new shares.

P R O J E C T D A T A		
<i>Sponsor:</i> Eckhardt Farms Inc.	<i>County:</i> Weld	<i>Water Source:</i> South Platte River
<i>Type of Loan:</i> Water Rights Purchase		<i>Board Approval Date:</i> Sept 2012/Jan 2015
<i>Terms of Loan:</i> \$1,232,035.88 at 1.75% for 30 years		
<i>Design Engineer:</i> White Sands Water Engineers, Inc		
<i>Contractor:</i> N/A		
<i>Project Elements:</i> Purchase of 16.06 Shares of Farmers Independent Ditch Company and 2.0 Shares of the Western Mutual Ditch Company.		



Raw Water Acquisition and Utilization Project

Penrose Water District

Substantially Complete October 1, 2015



Project Description

The District is located in Fremont County about 35 miles southwest of Colorado Springs and 20 miles west of Pueblo, and currently provides domestic water to approximately 4000 people with the equivalent of 1,870 residential taps in and around the unincorporated town of Penrose. The District entered into this project to secure water supplies for projected future growth and demand in drought years. The District's water supply is obtained by a lease with the Beaver Park Water, Inc., which owns and operates Brush Hollow Reservoir. The 1990 lease has a 30-year term, and provides an increasing amount of water each year, 751 AF in 2006, leveling out at 1,000 AF in 2020. In drought years, the amount available to PWD is further reduced below the contract amount. Future build-out demand in 2040 is projected to be 1,200 acre-feet for about 8,000 residents and 3,240 taps.

This project saw the acquisition of water rights from the purchase of the Goodwin Ranch, 10/ 12 of the Pleasant Valley Ditch, with a change in use and change in point of diversion to approximately 6 miles downstream. With the construction of well infrastructure, a storage tank, pump station, and pipeline, water can now be diverted from 6 shallow alluvial wells immediately north of the Arkansas River and pumped approximately 6 miles through a 12- inch transmission line to Brush Hollow Reservoir or to the District's water plant. The Project also saw the installation of a flow monitoring gage at the headgate of the Pleasant Valley Ditch in support of the District's augmentation plan.

P R O J E C T D A T A		
<i>Sponsor:</i> Penrose Water District - Water Activity Enterprise	<i>County:</i> Fremont	<i>Water Source:</i> Arkansas River - Pleasant Valley Ditch
<i>Type of Loan:</i> Water Rights Purchase/ Pipeline	<i>Board Approval Date:</i> January 2007	
<i>Terms of Loan:</i> \$8,615,684 at 3.25% for 30 years		
<i>Design Engineer:</i> GMS Inc.		
<i>Contractor:</i> Pate Construction Company		
<i>Project Elements:</i> water rights purchase, well construction, storage tank and booster pump station construction, 36,400 LF of pipeline construction		



Santa Maria Reservoir
Siphon and Canal System Rehabilitation Project
Santa Maria Reservoir Company
Substantially Complete November 1, 2015



Project Description

The Santa Maria Reservoir Company owns and operates Continental Reservoir (27,000 AF) and Santa Maria Reservoir (43,500 AF), located in the Rio Grande River Basin near Creede, Colorado. Santa Maria and Continental operate in conjunction with each other via a century old conveyance system made up of a pipeline, siphon, and open ditch. For the past 20 years, Continental has been under a storage restriction due to seepage issues, limiting the storage to 15,000 AF. The Company completed a two phased approach to rehabilitate its system. The first phase (this project) was the rehabilitation of the conveyance system between the reservoirs including repairs to the siphon support system and lining of the canal. Funding for this project also included \$463,750 in grant funds from the CWCB's WSRA program.

P R O J E C T D A T A		
<i>Sponsor:</i> The Santa Maria Reservoir Company	<i>County:</i> Hinsdale & Mineral	<i>Water Source:</i> North Clear Creek
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> March 19, 2013
<i>Terms of Loan:</i> \$1,405,163 @ 1.75% for 30 years		
<i>Design Engineer:</i> AECOM		
<i>Contractor:</i> RMS Utilities, Inc.		
<i>Project Elements:</i> 3,600 LF of 42-inch pipe, 1,060 LF of canal lining, 39 cubic yards of reinforced concrete overlays for thrust blocks		



Continental Dam Spillway Restoration Project

Santa Maria Reservoir Company
Substantially Complete November 1, 2015



Project Description

The Santa Maria Reservoir Company owns and operates Continental Reservoir (27,000 AF) and Santa Maria Reservoir (43,500 AF), located in the Rio Grande River Basin near Creede, Colorado. Santa Maria and Continental operate in conjunction with each other via a century old conveyance system made up of a pipeline, siphon, and open ditch. For the past 20 years, Continental has been under a storage restriction due to seepage issues, limiting the storage to 15,000 AF. The Company completed a two phased approach to rehabilitate its system. The second phase (this project) was the rehabilitation of the spillway at Continental Reservoir and seepage control system added to the dam embankment. Funding for this project also included \$1,013,750 in grant funds from the CWCB's WSRA program.

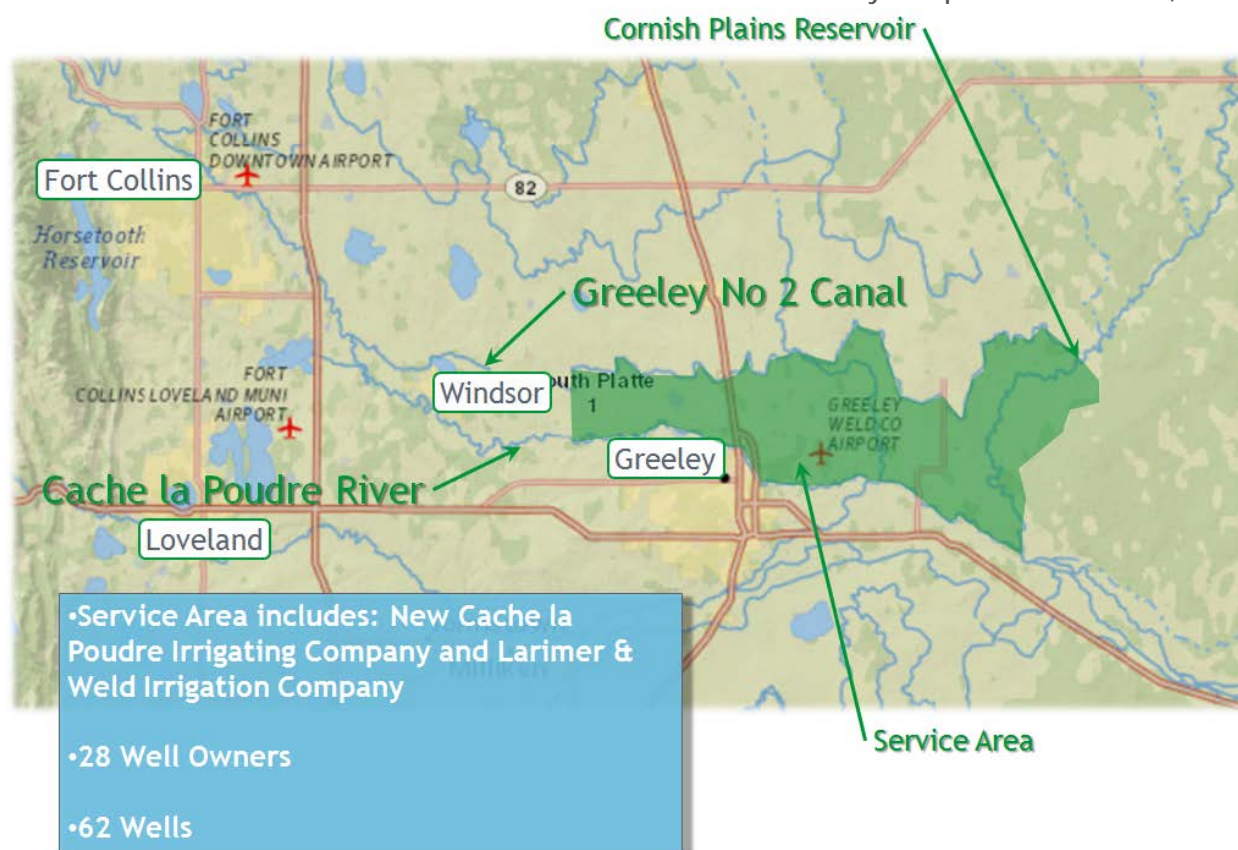
P R O J E C T D A T A		
<i>Sponsor:</i> The Santa Maria Reservoir Company	<i>County:</i> Hinsdale & Mineral	<i>Water Source:</i> North Clear Creek
<i>Type of Loan:</i> Dam Rehabilitation		<i>Board Approval Date:</i> September 25, 2013
<i>Terms of Loan:</i> \$3,677,663 @ 1.75% for 30 years		
<i>Design Engineer:</i> AECOM		
<i>Contractor:</i> Moltz Constructors, Inc.		
<i>Project Elements:</i> 1,200 CY of concrete placed for spillway replacement, 6,000 CY of filter material placed in dam embankment		



Cornish Water Rights Purchase

Lower Poudre Augmentation Company

Substantially Complete November 1, 2015



Project Description

The Lower Poudre Augmentation Company provides augmentation water for 62 irrigation wells in Larimer and Weld Counties owned by 28 individual owners. The wells provide irrigation water to 4,000 acres. The Company currently has in place a 1 AF of augmentation water per irrigated acre quota.

The Company's augmentation plan was awarded a decree under consolidated Case No. 04CW025/06CW295 in January 2014. Water rights that were changed to augmentation use in that decree include the Cornish Plains Farms water rights, which are made up of 34.5 shares of the New Cache La Poudre Irrigating Company and 4.0 shares of the Cache La Poudre Reservoir Company. These shares were historically used on the Cornish Plains Farm but have been leased to the Company for use in its augmentation plan since 2004. This Project purchased those shares for permanent inclusion in the Company's augmentation plan.

P R O J E C T D A T A		
<i>Sponsor:</i> Lower Poudre Augmentation Company	<i>County:</i> Larimer & Weld	<i>Water Source:</i> Cache la Poudre River
<i>Type of Loan:</i> Water Rights Purchase		<i>Board Approval Date:</i> May 2015
<i>Terms of Loan:</i> \$1,163,015 @ 1.75% for 30 years		
<i>Design Engineer:</i> HRS Water Consultants, Inc.		
<i>Contractor:</i> NA		
<i>Project Elements:</i> Purchase of 34.5 shares of the Cache La Poudre Irrigating Company, and 4.0 shares of the Cache La Poudre Reservoir Company.		



Lower Lone Pine Lake Enlargement Project

Crystal Lakes Water and Sewer Association
Substantially Complete January 1, 2016



AFTER



BEFORE

Project Description

Crystal Lakes Water and Sewer Association borrowed funds to enlarge Lower Lone Pine Lake from 10.5 AF to 100.5 AF. The increase provided augmentation water for the Crystal Lakes subdivision, located in Larimer County, servicing over 800 residences. These residences derive their water supply from individual wells. This increased storage capacity will protect the community against possible well curtailments.

P R O J E C T D A T A		
<i>Sponsor:</i> Crystal Lakes Water and Sewer Association	<i>County:</i> Larimer	<i>Water Source:</i> North Lone Pine Creek (tributary to Cache la Poudre River)
<i>Type of Loan:</i> Reservoir Enlargement		<i>Board Approval Date:</i> November 15, 2011
<i>Storage Increase:</i> 90 AF		
<i>Loan Terms:</i> (Original) \$2,016,459 @ 4.0% for 30 years (Final) \$2,016,459.59 @ 4.0% for 30 years		
<i>Design Engineer:</i> Wenck Associates, Inc.		
<i>Contractor:</i> American Civil Constructors, Inc.		
<i>Project Elements:</i> 550 CY of concrete placed for spillway replacement, 28,000 CY of filter material placed in dam embankment, and 2,500 CY of riprap		



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Lake Otonowanda Rehabilitation Project

Town of Ridgway

Substantially Complete January 1, 2016



Project Description

The rehabilitation improvements and enlargement of Lake Otonowanda was to ensure a reliable water supply of raw water that would be available under future drought conditions. Otonowanda is the primary storage facility for the town, responsible for treating and delivering potable water to 695 SFE. Otonowanda. During 2002, all of the Town's water rights fell out of priority due to extended drought conditions and the Town was dangerously close to running out of water. The improvements to the reservoir, including: replacement of the outlet works, reservoir lining and a 254-AF enlargement, provided the Town the ability to store more of its adjudicated water rights and a controlled means to release the water, firming the Town's water supply in the event of future call outs.

P R O J E C T D A T A		
<i>Sponsor:</i> Town of Ridgway	<i>County:</i> Ouray	<i>Water Source:</i> Ridgway Ditch
<i>Type of Project:</i> Reservoir Enlargement		<i>Board Approval Date:</i> September 2012
<i>Loan Terms: (Original)</i> \$606,000 @ 3.0% for 30 years <i>(Final)</i> \$606,000		
<i>Design Engineer:</i> Joanne Fagan, PE, City Engineer		
<i>Contractor:</i> Rundle Construction, Hotchkiss CO		
<i>Project Elements:</i> replacment of outlet works, earthwork, and reservoir lining		

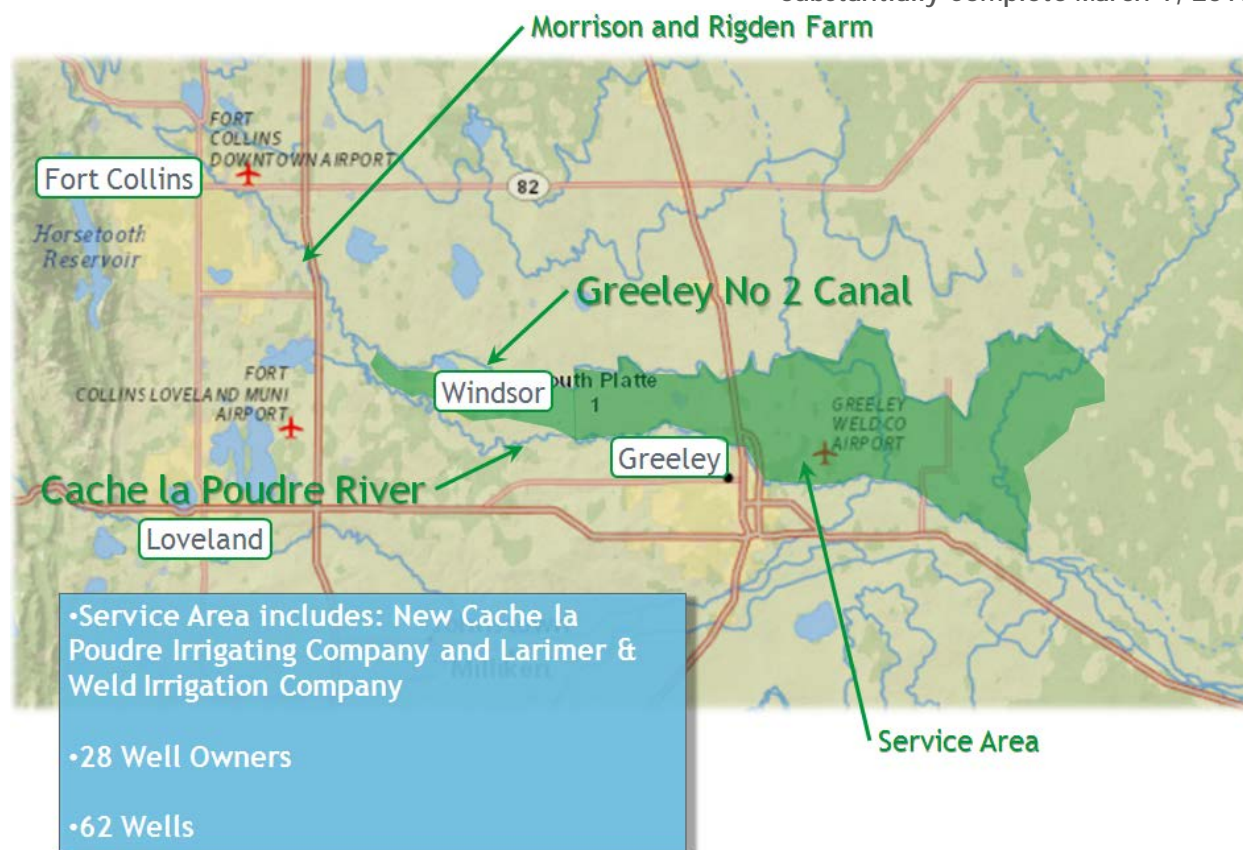


COLORADO
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Box Elder Water Rights Purchase

Lower Poudre Augmentation Company

Substantially Complete March 1, 2016



Project Description

The Lower Poudre Augmentation Company provides augmentation water for 62 irrigation wells in Larimer and Weld Counties owned by 28 individual owners. The wells provide irrigation water to 4,000 acres. The Company currently has in place a 1 AF of augmentation water per irrigated acre quota.

The Company's augmentation plan was awarded a decree under consolidated Case No. 04CW025/06CW295 in January 2014. The Project purchased 0.5 Box Elder Ditch shares historically used on the Morrison Farm, and 1.5 Box Elder Ditch shares historically used on the Rigden Farm. The land historically irrigated by these shares is now the site of an active gravel pit and will become a lined reservoir at the conclusion of mining. Therefore, dry-up associated with the Subject Shares has already occurred. It is expected that while the Subject Shares are undergoing a change of use case in water court, that they will be available for use in the Company's augmentation plan as early as 2016 through a Substitute Water Supply Plan.

P R O J E C T D A T A		
Sponsor: Lower Poudre Augmentation Company	County: Larimer & Weld	Water Source: Cache la Poudre River
Type of Project: Water Rights Purchase	Board Approval Date: September 2015	
Loan Terms: (Original) \$454,500 @ 1.85% for 30 years (Final) \$454,500 @ 1.85% for 30 years		
Design Engineer: Applegate Group, Inc.		
Contractor: NA		
Project Elements: Purchase of 0.5 Box Elder Ditch shares (Morrison Farm) and 1.5 Box Elder Ditch shares (Rigden Farm)		



Water Rights Purchase Project

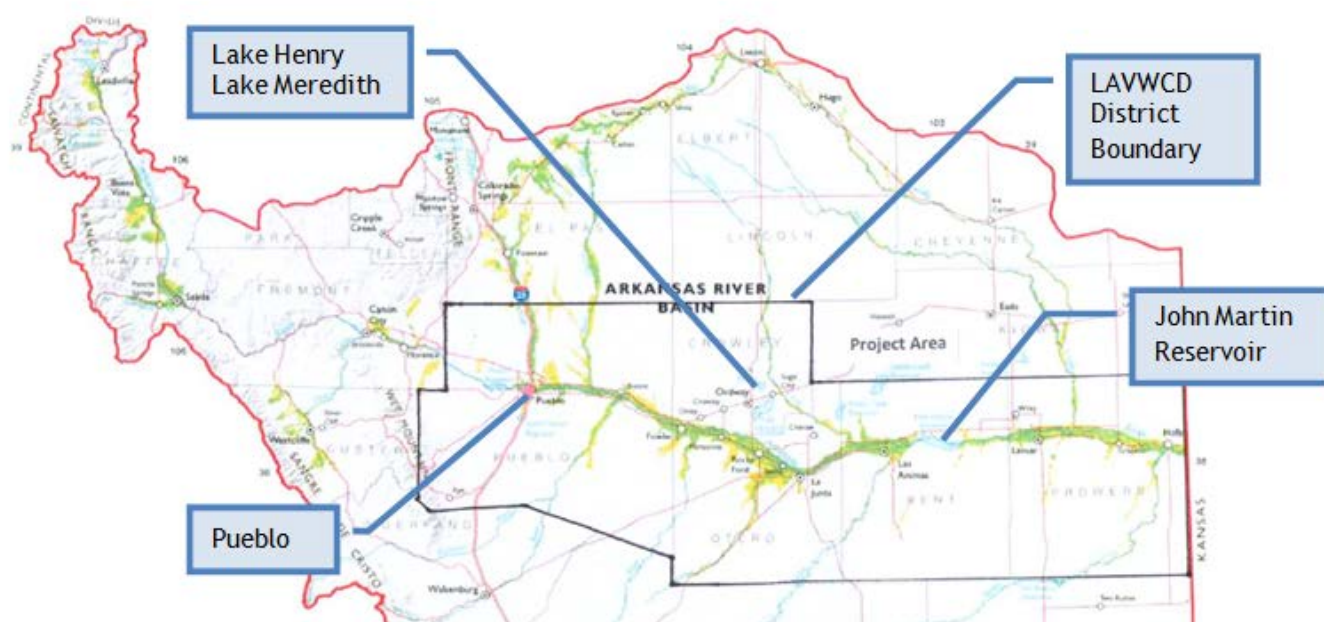
Lower Arkansas Valley Water Conservancy District

Substantially Complete 1/1/2016

Project Description

The Lower Arkansas Valley Water Conservancy District supports agriculture in the Lower Arkansas River valley, participating in water-related projects and providing water for Rule 10 and Rule 14 plans in compliance with the Arkansas River Compact, the Catlin Following-Leasing pilot project, and leases to farmers as needed and available.

The District purchases 400.6 Colorado Canal Company shares to complement an additional purchase of 149.4 Colorado Canal Company shares with the support of a separate WSRA Grant and District funds.



P R O J E C T D A T A		
<i>Sponsor:</i> Lower Arkansas Valley WCD	<i>County:</i> Bent, Crowley, Prowers, Pueblo	<i>Water Source:</i> Arkansas River
<i>Type of Loan:</i> Water Rights Purchase	<i>Board Approval Date:</i> May 2015	
<i>Terms of Loan:</i> \$2,560,350 @ 1.45% for 20 years		
<i>Design Engineer:</i> NA		
<i>Contractor:</i> NA		
<i>Project Elements:</i> Purchase of Water Rights		

Replacement of the Horse Creek Flume

Fort Lyon Canal Company
Substantially Complete April 1, 2016



Project Description

The Horse Creek Flume has been in operation since 1938. The flume is a 400- foot- long, 10- foot- diameter, elevated steel pipe located on the Fort Lyon Canal where it crosses Horse Creek, approximately 10 miles northeast of La Junta and about 8 miles west of Las Animas, in Bent County, Colorado. Evaluations by multiple professional engineers found the flume to be in extremely poor condition and in need of immediate replacement. Failure of the flume, designed to convey 1800 cfs, could result in the loss of more than 50 million in crop revenue and loss of supply to more than 14, 000 acres of wildlife habitat in the downstream Queens and Thurston State Wildlife Areas. The flume was replaced with new 10-foot diameter pipe, tied into rehabilitated inlet and outlet works.

P R O J E C T D A T A		
<i>Sponsor:</i> Fort Lyon Canal Company	<i>County:</i> Otero, Bent, Prowers	<i>Water Source:</i> Horse Creek
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> September 2015
<i>Terms of Loan:</i> 1.75% for 30 years (Original) \$1,629,130 (Final) \$1,542,296		
<i>Design Engineer:</i> SM&RC Structural Engineers, Inc.		
<i>Contractor:</i> Moltz Construction, Inc.		
<i>Project Elements:</i> Replacement of elevated flume structure, repair of inlet and outlet works		

Diversion Structure Rehabilitation

Fulton Irrigating Ditch Company

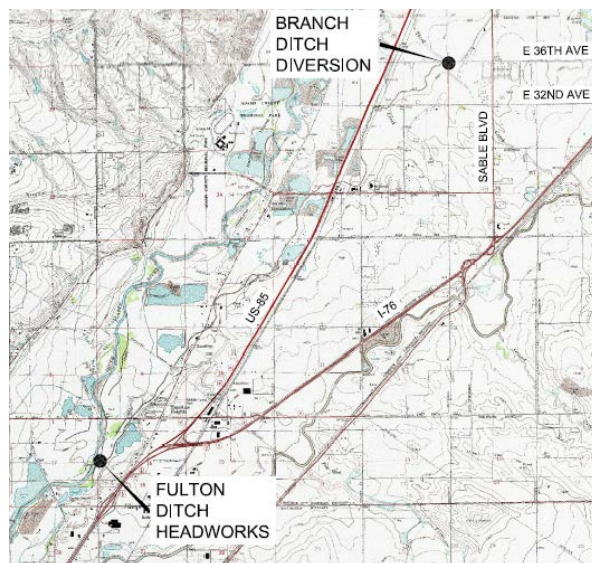
Substantially Complete April 1, 2016



Project Description

The purpose of the Project was to replace the Company's South Platte River diversion gates, rehabilitate the existing trash rack, and install a gantry crane system to clean the trash gates automatically. The Project included reconstruction of the Branch Ditch Diversion Structure on the Fulton Ditch at a different site.

The Company diverts South Platte River water near 100th Avenue in Commerce City to a 38,000-acre service area. Increasing sago pond weed in the South Platte River was beginning to obstruct the flow of water through the existing trash rack. Construction began in spring of 2014, and completed spring of 2016.



P R O J E C T D A T A		
<i>Sponsor:</i> Fulton Irrigating Ditch Co.	<i>County:</i> Adams	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Diversion Rehabilitation	<i>Board Approval Date:</i> May 2014	
<i>Loan Terms:</i> 2.45% for 30 years <i>(Original)</i> \$2,027,070 <i>(Final)</i> \$1,947,139		
<i>Design Engineer:</i> Deere and Ault Consultants, Inc.		
<i>Contractor:</i> Lillard & Clark Construction Company; Rodney Hunt - Fontaine (gates and hardware)		
<i>Project Elements:</i> Construction and installation of gantry crane grate cleaning system, rehabilitate trash rack, replace diversion gates and operators		



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Bergen Reservoir No. 2 Rehabilitation

Bergen Ditch and Reservoir Company
Substantially Complete April 1, 2016



Project Description

The Bergen Ditch and Reservoir Company utilizes Bergen Ditch to divert water off Turkey Creek and deliver it to shareholders through a series of open and piped ditches, reservoirs, pumps and pipelines. The Company owns three reservoirs, Bergen No.1, Bergen No. 2 and Polly Deane. Bergen No. 2 was originally constructed in 1874. The dam of Bergen No. 2 Reservoir has an ongoing history of slumping and seepage issues. In 2007 the dam's outlet works were damaged and temporary repairs were made in 2009. Ongoing SEO inspection reports have monitored seepage, stability, erosion and outlet concerns over recent years. Following the latest inspection report the SEO verbally recommended the Company consider rehabilitation of the dam or face the possibility of a storage level restriction. This project generally consisted of removing and replacing the existing outlet works with a concrete encased 24 inch HDPE outlet, modifications to the embankment drain system, and upstream slope rehabilitation. Major construction activities occurred between June 2015 and December 2015. The SEO issued their Acceptance of Construction on February 29, 2016.

P R O J E C T D A T A		
<i>Sponsor:</i> Bergen Ditch & Reservoir Company	<i>County:</i> Jefferson	<i>Water Source:</i> Turkey Creek
<i>Type of Loan:</i> Dam Rehabilitation	<i>Board Approval Date:</i> November 2012	
<i>Loan Terms: (Original)</i> \$2,111,102 @ 3.15% for 30 years <i>(Final)</i> \$2,110,764.54 @ 3.15% for 30 years		
<i>Design Engineer:</i> W.W. Wheeler & Associates		
<i>Contractor:</i> American West Construction		
<i>Project Elements:</i> 272 LF concrete encased 24” HDPE outlet pipe, concrete inlet and outlet structures, toe drain system, riprap upstream slope		



Hospital Road Recharge Facility

Upper Platte and Beaver Canal Company

Substantially Complete April 1, 2016



Project Description

The Upper Platte & Beaver Canal Company, provides irrigation water to a 9,500-acre service area composed of irrigated alluvial land situated between the South Platte River and Beaver Creek, extending from its Platte River diversion headgate just west of the City of Fort Morgan to approximately 4 miles east of the Town of Brush.

Along with supplying irrigation water to shareholders, the Company operates a recharge plan that generates recharge credits to replace out-of-priority depletions attributable to well pumping. The Company has a decreed recharge plan involving recharge ponds, reaches, and augmentation wells. Currently, the operation of the recharge plan results in restrictions on well pumping due to the lack of recharge credits and requires the use of augmentation wells. The Company needed an additional recharge pond and especially needed a pond at a greater distance to the South Platte River.

This project included the construction of an additional recharge pond at a greater distance from the river to generate recharge credits of sufficient volume and proper timing to allow well pumping to provide a full water supply.

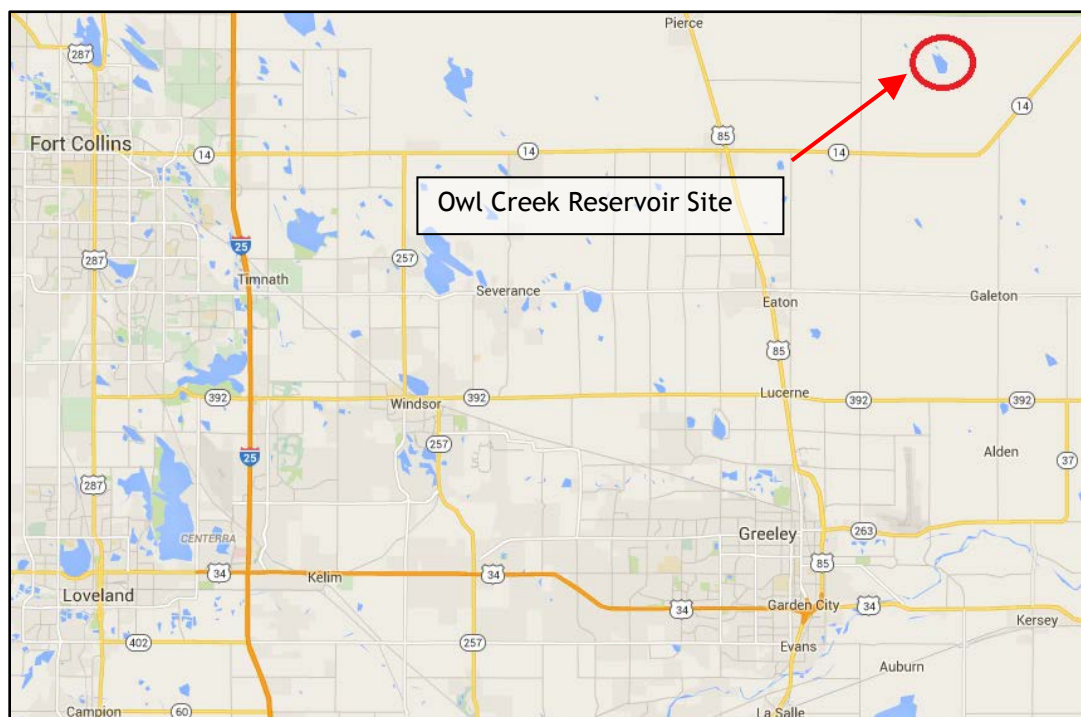
Note that the original project included the widening of an existing bridge at its main diversion facilities on the Platte River; this element project was not constructed, as the Company is investigating additional river diversion projects that will likely include those elements.

P R O J E C T D A T A		
<i>Sponsor:</i> Upper Platte & Beaver Canal Co.	<i>County:</i> Morgan	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Augmentation	<i>Board Approval Date:</i> July 2014	
<i>Loan Terms:</i> 1.75% for 10 years <i>(Original)</i> \$190,890 <i>(Final)</i> \$119,685.76		
<i>Design Engineer:</i> TZA Water Engineers		
<i>Contractor:</i> Castle Rock Construction Company		
<i>Project Elements:</i> Excavation of an augmentation pond		



Owl Creek Reservoir Project

Owl Creek Reservoir Company
Substantially Complete May 2016



Project Description

The Owl Creek dam was originally constructed in 1896 to store water for irrigation. It was constructed of a granular material that over the years suffered structural damage due to seepage. In 1983 sand boils appeared along the toe of the dam giving evidence that piping was occurring along the dam embankment. Given the condition of the dam embankment and the potential for failure, the dam was intentionally breached in 1983. The Owl Creek Reservoir is located in Weld County, approximately 6 miles east and 3 miles north of the Town of Ault. The source of water is from surface runoff from the Owl Creek basin, encompassing over 160 square miles of drainage area. The average flow in Owl Creek ranges from 1 to 10 cfs.

The Owl Creek Reservoir Company received a loan in 2001 to rehabilitate the Owl Creek Reservoir's dam and spillway, and to increase the storage capacity of the reservoir from approximately 800 acre-feet to 1,200 acre-feet. The Company has not made substantial progress towards completion of the project and allowed the loan contract to expire. The CWCB has decided to close out the project without a construction start.

P R O J E C T D A T A		
<i>Sponsor:</i> Owl Creek Reservoir Company	<i>County:</i> Weld	<i>Water Source:</i> Owl Creek
<i>Type of Project:</i> Reservoir Rehabilitation	<i>Board Approval Date:</i> May 2001	
<i>Loan Terms:</i> 3.25% for 30 years (Original) \$1,125,000.00 (Final) \$485,000.00		
<i>Design Engineer:</i> Applegate Group		
<i>Contractor:</i> Did not construct the project		
<i>Project Elements:</i> Design plans complete		



Diversion Prior to Flood



Diversion During Flood



Diversion After Construction

Project Description

In May and June of 2015, the South Platte River experienced extended high flows. This resulted in a breach of the river bank between the Company's diversion structure and the upstream Ken Mitchell Ponds headgate owned by the City of Brighton. Approximately 120 feet of the east bank was washed out, directing the river away from the Company's diversion. The City of Brighton owns the property where the breach is located and the City of Aurora owns the Prairie Water Pipeline which was exposed by this breach. Neither the City of Brighton nor Aurora planned any immediate repairs to the breach. In order to restore flows to its headgate, the Company constructed a cofferdam on the east bank of the river to close this breach in July 2015.

P R O J E C T D A T A		
<i>Sponsor:</i> Brighton Ditch Company	<i>County:</i> Adams	<i>Water Source:</i> South Platte River
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> September 2015
<i>Loan Terms: (Original)</i> \$225,000 for 30 years @ 2.55% <i>(Final)</i> \$225,000 for 30 years @ 2.55%		
<i>Design Engineer:</i> Deere & Ault Consultants, Inc.		
<i>Contractor:</i> Claystone Construction, LLC		
<i>Project Elements:</i> Repair bank breach on the South Platte River adjacent to diversion dam.		

Design and Construction - Summary

Loan Program
Attachment 3

Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
Projects in Design or Construction							
1 Bellyache Ridge Metro District > Well Replacement Project C150356 (CT2015-015)	Eagle	\$169,175	100%	Feb 2015 - May 2016	90%	ACM	A test well was drilled in winter of 2015 and did not produce the amount of water required by the District to meet its needs. That well was capped in Oct 2015 and appears to have had a positive impact on the water availability of the District's 2 remaining wells. The District is in a holding pattern as it continues to monitor the wells.
2 Bennett, Town of > Wells #3 and #6 Replacement Project CT2015-161	Adams Arapahoe	\$145,400	100%	May 2015 - July 2016	80%	ACM	The Project was bid in 2014 and drilling began in May 2015. All drilling was complete as of the end of July. Temporary pumps are currently in place and will be replaced with the permant pumps by summer 2016.
3 Boxelder Basin Regional Stormwater Authority > Larimer & Weld Canal Crossing Structure Project C150352 (CT2015-071)	Larimer/ Weld	\$1,010,000	100%	Dec 2015 - April 2016	99%	JMH	Construction began in December 2015. Construction is complete and contractor has turned site back over to ditch company control.
4 Boxelder Basin Regional Stormwater Authority > East Side Detention Facility Project C150353 (CT2015-070)	Larimer/ Weld	\$7,171,000	100%	Aug 2015 - June 2016	70%	JMH	Land aquisition of all required parcels has been completed and loan funds were advanced to cover land purchase costs. Construction began August 2015. Most of the dam is now at rough grade and completion is schedule for June 2016.
5 Boxelder Basin Regional Stormwater Authority > County Rd 52 Culvert Project C150393 (CT2015-069)	Larimer/ Weld	\$818,100	100%	Aug 2015 - June 2016	98%	JMH	Project is being constructed under same construction contract as East Side Detention Facility. Construction began in September 2015 and was completed in March 2016 except for some revegetation and to occur in spring. Will not be closed out until adjacent East Side Detention Facility is closed out.
6 Central CO WCD - WAS > Augmentation Water Supply Project C150337 (CT2015-060)	Weld/ Adams/ Morgan	\$3,030,000	50%	Apr 2013 - Mar 2017	30%	JMH	Purchased a portion of the water rights on 4/25/13. Additional water rights/projects being identified.
7 - CHATFIELD Reallocation Project - First Cost of Storage							\$54,633,223
Castle Pines North Metropolitan District >(C150404A) CT2016- 2049	Arapahoe Douglas Park Weld	\$723,160	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 have not yet had to make this payment. It is now estimated funds may not be required until 2019.
Centennial Water & Sanitation District >(C150405A) CT2016- 2053	Arapahoe Douglas Park Weld	\$4,978,290	N/A	2019	N/A	JMH	
Center of Colorado Water Conservancy District >(C150406A) CT2016- 2047	Arapahoe Douglas Park Weld	\$94,637	N/A	2019	N/A	JMH	

Design and Construction - Summary

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
	Central Colorado Water Conservancy District >(C150407A) CT2016- 2057	Arapahoe Douglas Park Weld	\$3,187,560	N/A	2019	N/A	JMH	
8 - CHATFIELD Reallocation Project - Phase 1 Mitigation								\$41,486,120
	Castle Pines North Metropolitan District >(C150404B) CT2016- 2050	Arapahoe Douglas Park Weld	\$4,143,020	0%	2016 - 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. 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.
	Centennial Water & Sanitation District >(C150405B) CT2016- 2055	Arapahoe Douglas Park Weld	\$28,527,450	0%	2016 - 2022	0%	JMH	
	Center of Colorado Water Conservancy District >(C150406B) CT2016- 2048	Arapahoe Douglas Park Weld	\$511,363	0%	2016 - 2022	0%	JMH	
	Central Colorado Water Conservancy District >(C150407B) CT2016- 2058	Arapahoe Douglas Park Weld	\$18,263,830	0%	2016 - 2022	0%	JMH	
9 - CHATFIELD Reallocation Project - Phase 2 Mitigation								\$11,558,810
	Castle Pines North Metropolitan District >(C150404C) CT2016- 2051	Arapahoe Douglas Park Weld	\$1,587,720	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.
	Centennial Water & Sanitation District >(C150405C) CT2016- 2056	Arapahoe Douglas Park Weld	\$10,934,260	0%	2022 - 2028	0%	JMH	
	Central Colorado Water Conservancy District >(C150407C) CT2016- 2060	Arapahoe Douglas Weld	\$700,310	0%	2022 - 2028	0%	JMH	
10	Colorado Parks & Wildlife > Beaver Park Reservoir Rehabilitation C150343	Rio Grande	\$10,000,000	Ph1 100% P2 100%	July 2013 - Nov 2015	100% 99%	KGR	Phase 1 Alsand Construction \$2M. Spillway & Grout work is complete. Phase 2 Construction by ASI is complete. Reservoir is storing water under SEO observation. Celebration is scheduled for May 17, 2016 at the site.

Design and Construction - Summary

Loan Program
Attachment 3

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
11	City of Cortez > Water Meter Replacement Project > CT2015-152	Montezuma	\$858,500	100%	June 2015 - May 2016	95%	ACM	Notice to proceed was issued in June 2015. All of the meters that required relocation have been moved. New AMR meters have replaced about 95% of the City's meters. Project completion is anticipated in mid 2016.
12	Ephraim Ditch Company > Ephraim Diversion and Headgate Rehabilitation C150402 (CT2015-090)	Rio Grande	\$101,000	100%	Aug 2015 - Apr 2016	80%	JMH	NRCS has finalized design. Fabrication of steel structures began August 2015. Diversion structure concrete work began Jan 2016. Major tasks are scheduled so diversion and headgate will be functional by irrigation season.
13	Farmers Pawnee Canal Company > Diversion Structure Replacement Project C150394 (CT2015-132)	Logan	\$2,067,470	100%	Mar 2014 - Nov 2015	99%	DRJ	Substantial completion imminent. Final pmt req submitted.
14	Fowler, Town of > Augmentation Pipeline Project C150359 (CT2015-054)	Otero	\$277,245	100%	Fall 2016 - Winter 2016	0%	DRJ	Bid process imminent.
15	Georgetown, Town of > Outlet Works Modification Project C150321 (CT2015-055)	Clear Creek	\$2,976,975	100%	Aug 2014 - May 2016	99%	ACM	Construction began in August 2014. Gate testing occurred on 4/28/15. The gate is operational at 50% of its capacity. Rodney-Hunt (gate manufacturer) is fabricating a replacement part to be installed in spring of 2016.
16	Grand Mesa Water Conservancy District > Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	\$227,250	100%	Mar 2013 - Nov 2016	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. The project is on hold until the permits are issued.
17	Greeley and Loveland Irrigation Company > Irrigation System Improvements C150362 (CT2015-022)	Larimer	\$3,745,080	100%	Summer 2014 - Apr 2016	98%	JMH	Boyd Lake Project: Construction started January 2015, completed May 2015. Horseshoe Project: Phase 1 and 2A complete, Phase 2B began October 2015 and had final walk thru in March. Site cleanup and reseeding work will occur through April.
18	Gypsum, Town of > LEDE Ditch and Reservoir Rehabilitation C150296 (CT2015-058)	Eagle	\$2,690,000	100%	Jul 2013 - Sep 2016	75%	DRJ	Construction to be delayed until Spring thaw. Dam embankment just short of topping off. Spillway construction, upstream slope riprap, outlet gate installation, instrumentation will all be done after embankment fill is complete.
19	Huerfano County Water Conservancy District > Regional Augmentation Project C150364 (CT2015-047)	Huerfano	\$2,222,000	75%	Mar 2014 - Oct 2016	60%	ACM	Land and water rights purchase to occurred in January 2014. Camp Ranch augmentation site construction is underway. The Red Wing augmentation project is on hold pending a re-evaluation of sites for the augmentation site.
20	Lake Canal Reservoir Company > North Gray Reservoir Rehab Project C150322 (CT2015-042)	Larimer/ Weld	\$204,298	100%	Nov 2015 - Mar 2016	95%	JMH	Project was delayed until neighboring Boxelder East Side Detention Facility design was finalized. Loan increase was approved at Nov 2015 Board Meeting. Construction began Nov 2015. Original outlet and spillway have been abandoned and new outlet poured. Work on dam and spillway are near substantially complete. Contractor working on punch list items.

Design and Construction - Summary

Loan Program
Attachment 3

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
21	Lake Durango Water Authority > Source Water Supply Project C150317 (CT2015-013)	LaPlatta	\$2,525,000	100%	Spring 2016 - Spring 2017	95%	KGR	Easements are being negotiated. Bids opened on March 31. Bids were high. Sponsors are looking into ways to reduce costs.
22	Las Animas Consolidated Canal Company >Repair and Replacement of the Las Animas Consolidated Canal Spillway Structure CT2016-1007	Bent	\$363,782	100%	Jan 2016 - Spring 2016	99%	DRJ	Loan increase request planned for May Board mtg.
23	Left Hand Ditch Company > Allen Lake and Lake Isabelle Repair Project C150336 (CT2015-088)	Boulder	\$1,475,307	100%	Nov 2012 - Oct 2015	99%	ACM	Allen Lake construction was completed in August 2013. Lake Isabelle outletworks construction began in 2013 and was completed in October 2015. The loan will be substantially complete on June 1, 2016.
24	Lookout Mountain Water District > Upper Beaver Brook Dam Spillway CT2016-2515	Clear Creek	\$3,099,690	100%	June 2016 - August 2017	0%	DRJ	SEO approved plans and specifications. Contractor selected.
25	Louden Irrigating Canal & Reservoir Company > Emergency Diversion Structure and Ditch Repair C150398 (CT2015-151)	Larimer	\$ 161,600	100%	Summer 201 - Apr 2016	90%	JMH	Initial repair phase of project is complete. Improvements to the diversion and heatgate system occurred in Fall of 2015. Handrails to be installed in spring 2016
26	McDonald Ditch Company > Ditch Diversion and Headgate Replacement C150334 (CT2015-044)	Rio Grande	\$101,000	100%	Dec 2014 - Apr 2016	99%	JMH	Phase 1 Construction (diversion dam) started December 2014, completed in March 2015. Phase 2 (pipeline) started in December 2015 and was completed by March 2016. Only remaining work is removal of old diversion structure, to be completed in April 2016.
27	Monte Vista, City of > Augmentation Water Rights Acquisition C150309 (CT2015-011)	Rio Grande	\$1,693,770	N/A	Oct 2010 - Jul 2017	50%	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.
28	North Poudre Irrigation Co > Reservoir No. 4 Rehabilitation C150378 (CT2015-003)	Larimer	\$2,263,410	100%	Nov 2015 - Jun 2016	75%	JMH	Design was updated per SEO suggestion to upsize spillway to meet higher classification. Wildlife Mitigation completed in January 2015. Reservoir construction began November 2015. Concrete work has been completed and major earthwork is finishing up.
29	Northern Colorado WCD- Hydropower Enterprise > Granby Hydropower Project C150396 (CT2015-140)	Grand	\$5,135,183	100%	May 2015 - May 2016	80%	JMH	Power Purchase and Lease of Power Privledge agreements signed March 2015. Construction started in May 2015 and was shut down for winter. Contractor back on site in March 2016. All equipment now on site. Completion is expected to occur by the first of May 2016.
30	Oligarchy Irrigation Company > Dam Outlet Works Rehabilitation CT2016-1597	Boulder	\$860,000	100%	Summer 201 - Fall 2016	0%	JMH	SEO approved plans and specification on 3/1/16. Project was put out to bid in March 2016 and are working on finalizing the construction contract.

Design and Construction - Summary

Loan Program
Attachment 3

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
31	Overland Ditch and Reservoir Company > Overland Reservoir Rehabilitation C150206 (CT2015-034)	Delta	\$1,141,300	50%	Permitting	0%	KGR	Permitting issues are being addressed to enlarge reservoir. Company is concerned about the impact of increased costs to the project
32	Parkville Water District >Evans Reservoir Bypass Flume Project CT2016-2004	Lake	\$181,800	99%	Aug 2016 - Oct 2016	0%	DRJ	Preparing bid documents.
33	Pisgah Reservoir and Ditch Company > Mount Pisgah Dam/Wrights Res Rehabilitation C150341 (CT2015-027)	Teller	\$1,172,261	100%	June 2015 - Nov 2016	95%	JMH	Approved for additional loan funds at November 2014 and July 2015 Board Meeting. Phase 1 complete. Phase 2 began September 2015. Phase 3 began November 2015. Project is on schedule to be operational for 2016 irrigation season but due to a failure in a gate frame material, full completion will not occur until Fall 2016.
34	Plum Valley Heights Subdistrict >Raw Water Supply Project CT2015-176	Douglas	\$2,248,260	99%	Summer 2016 - Winter 2017	0%	JMH	Project has completed final design and is in process of US Fish and Wildlife Section 7 Consultation which they have till Mid-April to review, and then undergoes a 30 day public comment period. Construction is hoped to commence this summer and be completed by early 2017.
35	Prairie Ditch Company > Plaza Phase 3: Prarie Ditch Imp. Project C150400 (CT2015-134)	Rio Grande	\$131,300	100%	Oct 2015 - Sept 2016	90%	JMH	Bids for the diversion dam were received August 27, 2015 and construction began October 2015. Headgate phase was bid and awarded in November 2015. Diversion dam is complete and headgate was poured in Feb 2016. Remaining work includes the sand out channel (Fall 2016)
36	Riverside Ditch and Allen Extension Company > Ditch System Rehabilitation C150301 (CT2015-050)	Chaffee	\$186,345	85%	Jul 2010 - June 2016	80%	KGR	Ditch lining phase of the project was completed in December 2010. NRCS La Junta Fld office has completed design plans for replacment of the river diversion structure. Const. expected in summer of 2016.
37	Riverside Reservoir and Land Company > Riverside Reservoir Spillway Enlargement C150291 (CT2015-026)	Weld	\$2,838,100	90%	Summer 2016+	0%	DRJ	Plans under review by SEO. Construction timing indeterminate.
38	San Luis Valley Water Conservancy District > Anaconda Ditch Water Right Acquisition C150348 (CT2015-166)	Alamosa	\$839,000	N/A	2016	N/A	ACM	Water rights purchase was pending a water court change case completion. The case was settled in December 2015. The District expects the purchase to occur in mid-2016.
39	Sanchez Ditch and Reservoir Company > Sanchez Reservoir Outlet Rehabilitation Project C150342 (CT2015-012)	Costilla	\$1,381,276	100%	Oct 2014 - March 2017	90%	ACM	Construction began in Oct 2014. Outlet works work was completed in Jan 2015. Seepage and monitoring work is scheduled for 2016.
40	Sanford Canal Company > Sanford Diversion and Headgate Rehabilitation C150401(CT2015-091)	Rio Grande	\$101,000	100%	Aug 2015 - Mar 2016	98%	JMH	NRCS has finalized design. Fabrication of steel structures began August 2015. Construction of diversion dam and headgates began in October 2015 and nearing completion. Concrete work is finished, sluice gate is installed and automation has been completed.

Design and Construction - Summary

Loan Program
Attachment 3

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
41	Thunderbird W&S Dist > Lambert Ranch Water Rights Purchase C150320 (CT2015-049)	Douglas	\$318,150	100%	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.
42	Tunnel Water Company >Laramie-Poudre Tunnel Rehabilitation CT2016-2001	Larimer	\$1,111,000	100%	Sep 2015 - Fall 2016	60%	JMH	Phase 1 (Inlet) construction started September 2015. Box culverts installed and functional. Will perform final grading and site cleanup spring 2016. Phase 2 (outlet) construction not a part of current construction contract. Phase 2 to occur in Fall 2016.
43	Uncompahgre Valley Water Users Association >Drop 5 Hydroelectric Project CT2015-174	Montrose & Delta	\$6,999,300	100%	Dec 2015 - Aug 2016	50%	KGR	Excavation and concrete placment underway. Power Purchase Agreement executed.
44	Upper Arkansas Water Conservancy District > Reservoir Rehabilitation C150192 (CT2015-052)	Chaffee/ Custer	\$3,009,800	100%	Permitting	90%	KGR	The first phase of construction was awarded to ASI, Buena Vista, CO, and completed in May 2007. The Permitting effort for the enlargment is underway and expected to be complete by Dec 2018.
45	West Reservoir and Ditch Company >Repair of West Reservoir No. 1 Outlet Works CT2015-169	Delta	\$248,378	100%	May 2015 - Sept 2016	30%	DRJ	Construction to be delayed until Spring thaw. Dam excavation complete, outlet pipe partial construction will need to be removed for unstable subgrade, and reinstalled next spring. Winter closure plan forthcoming thru SEO.
46	Windsor, Town of > Kyger Reservoir Project C150366 (CT2015-057)	Larimer/ Weld	\$4,545,000	100%	Summer 2016 - Fall 2016	0%	JMH	Town purchased reservoir and water rights in summer 2014. Town completed design and permitting in spring 2016. Project will go out to bid May 2016.
47 - WISE Project - ECCV Pipeline Purchase								\$2,227,050
	Cottonwood W&S Dist - C150408A (CT2015-102)	Douglas/ Arapahoe	\$381,780	N/A	Fall 2014 - Spring 2015	N/A	DRJ	80% funds disbursed.
	Inverness W&S Dist - C150409A (CT2015-117)	Douglas/ Arapahoe	\$1,845,270	N/A	Fall 2014 - Spring 2015	N/A	DRJ	No Inverness Request for Reimb received.
48 - WISE Project - Phase 1 Infructure								\$16,802,501
	Cottonwood W&S Dist - C150408B (CT2015-106)	Douglas/ Arapahoe	\$2,636,100	1%	Spring 2015 - Jan 2017	5%	DRJ	Notice to proceed given to contractor in May 2015. Construction under way at Smoky Hill Tank site.Design and permitting under way for additional project elements.

Design and Construction - Summary

Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
Inverness W&S Dist - C150409B (CT2015-118)	Douglas/ Arapahoe	\$1,181,700	1%	Spring 2015 - Jan 2017	5%	DRJ	
Parker W&S Dist - C150410B (CT2015-108)	Douglas/ Arapahoe	\$6,785,321	1%	Spring 2015 - Jan 2017	5%	DRJ	
Denver SE Sub W&S Dist - C150411B (CT2015-085)	Douglas/ Arapahoe	\$6,199,380	1%	Spring 2015 - Jan 2017	5%	DRJ	
49 - WISE Project - Phase 2 Infructure							\$7,400,078
Cottonwood W&S Dist - C150408C (CT2015-105)	Douglas/ Arapahoe	\$1,127,160	0%	Spring 2018 - Fall 2021	0%	DRJ	
Inverness W&S Dist - C150409C (CT2015-119)	Douglas/ Arapahoe	\$1,427,130	0%	Spring 2018 - Fall 2021	0%	DRJ	
Parker W&S Dist - C150410C (CT2015-109)	Douglas/ Arapahoe	\$3,418,658	0%	Spring 2018 - Fall 2021	0%	DRJ	
Denver SE Sub W&S Dist - C150411C (CT2015-086)	Douglas/ Arapahoe	\$1,427,130	0%	Spring 2018 - Fall 2021	0%	DRJ	
50 - WISE Project - DIA Connection							
Cottonwood W&S Dist - C150408D (CT2015-104)	Douglas/ Arapahoe	\$363,600	N/A	Spring 2015 - Spring 2021	NA	DRJ	11% funds disbursed.
Inverness W&S Dist - C150409D (CT2015-120)	Douglas/ Arapahoe	\$454,500	N/A	Spring 2015 - Spring 2021	NA	DRJ	No Inverness Request for Reimb received.

Design and Construction - Summary

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
	Parker W&S Dist - C150410D (CT2015-110)	Douglas/ Arapahoe	\$1,099,890	N/A	Spring 2015 - Spring 2021	NA	DRJ	20% funds disbursed.
	Denver SE Sub. W&S Dist (Pinery) - C150411D (CT2015-087)	Douglas/ Arapahoe	\$454,500	N/A	Spring 2015 - Spring 2021	NA	DRJ	21% funds disbursed.

Projects Under Contract SubTotal = \$184,298,224

Approved Projects - Not Under Contract								
a	Southeastern CO Water Conserv. District > Arkansas Valley Conduit C150238	Crowley	\$60,600,000	In Contracting		KGR	Pending Federal Appropriation. Hydro project may be considered from these loan funds	
b	Bow Mar Water & Sanitation District >Rehabilitation and Replacement of Water Meters	Arapahoe & Jefferson	\$332,795	In Contracting		DRJ	Construction anticipated after 2015 November election, likely 2016 January	
c	Lamar, City of >Repurposing of Wells 12 and 13 CT2016-	Prowers	\$101,000	In Contracting		DRJ		
d	Lake McIntosh Reservoir Company >Lake McIntosh Outlet Works Repair CT2016-	Boulder	\$1,727,100	In Contracting		JMH		
e	Orchard Ranch Ditch Company >Orchard Ranch Ditch Pipe Project CT2016-	Delta	\$151,500	In Contracting		DRJ		
f	City of Grand Junction >Hallenbeck Reservoir No. 1 Dam Rehabilitation CT2016-	Mesa	\$1,010,000	In Contracting		AM		

Design and Construction - Summary

Loan Program
Attachment 3

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
g	Duke Ditch Company >Piping the Duke Ditch CT2016-	Delta	\$90,000		In Contracting		AM	

Not Under Contract SubTotal = \$64,012,395

Grand Total = \$248,310,619

Reservoir construction projects involving storage: new, enlargement, dredging or remo

Projects Substantially Completed in Fiscal Year 15/16

1	East Mesa Water Company > Ditch Piping Project C150360 (CT2015-141)	Pitkin/ Garfield	\$732,927	100%	Feb 2015 - May 2015	100%%	KGR	7/1/2015
2	Greeley Irrigation Company > Greeley Canal No. 3 Rehabilitation C150239 (CT2015-021)	Weld	\$1,134,839	100%%	Feb 2008 - Dec 2015	100%%	KGR	7/1/2015
3	Eckhardt Farms Inc > Water Rights Purchase C150338 (CT2015-051)	Weld	\$1,232,036	N/A	N/A	N/A	JMH	9/1/2015
4	Penrose Water District > Water Rights Purchase and Pipeline Installation C150237 (CT2015-040)	Fremont	\$8,615,684	100%	Summer 2014 - Spring 2016	100%%	DRJ	10/1/2015
5	Santa Maria Reservoir Company > Siphon and Canal System Rehabilitation Project C150350 (CT2015-005)	Hinsdale/ Mineral	\$1,405,163	100%	May 2014 - Oct 2015	100%%	ACM	11/1/2015
6	Santa Maria Reservoir Company > Continental Dam Spillway Rehabilitation Project C150365 (CT2015-006)	Hinsdale/ Mineral	\$3,677,663	100%	May 2014 - Nov 2015	99%	ACM	11/1/2015
7	Lower Poudre Augmentation Company >Cornish Water Rights Purchase CT2015-171	Larimer & Weld	\$1,163,500	N/A	N/A	N/A	JMH	11/1/2015

Design and Construction - Summary

	Contract Borrower	County	Loan Amount	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
8	Crystal Lakes Water and Sewer Association > Lower Lone Pine Lake Enlargement Project C150325 (CT2015-045)	Larimer	\$2,016,460	100%	Apr 2012 - Nov 2014	100%	ACM	1/1/2016
9	Ridgway, Town of > Lake Otonowanda Rehabilitation Project C150340 (CT2015-056)	Ouray	\$606,000	100%	June 2014 - July 2015	99%	KGR	1/1/2016
10	Lower Poudre Augmentation Company >Box Elder Ditch Water Rights Purchase CT2016-2005	Larimer, Weld	\$454,500	N/A	N/A	N/A	JMH	1/1/2016
11	Lower Arkansas Valley WCD >Water Rights Purchase CT2015-175	Bent, Crowley, Otero, Prowers, Pueblo	\$2,560,350	NA	Fall 2015	100%	DRJ	3/1/2016
12	Fort Lyon Canal Company >Replacement of Horse Creek Flume CT2016-1987	Otero, Bent, Prowers	\$1,542,296	100%	Nov 2015 - Apr 2016	100%	DRJ	4/1/2016
13	Fulton Irrigating Ditch Company > Diversion Structure Rehabilitation Project C150399 (CT2015-092)	Adams	\$1,947,138	100%	Fall 2014 - Summer 2015	100%	DRJ	4/1/2016
14	Bergen Ditch & Reservoir Company > Bergen Reservoir No. 2 Rehabilitation C150344 (CT2015-017)	Jefferson	\$2,110,765	100%	June 2015 - Apr 2016	100%	JMH	4/1/2016
15	Upper Platte & Beaver Canal Company > Hospital Rd Recharge Facility & Bridge Project CT2015-101	Morgan	\$119,685	49%	Nov 2014 - Spring 2017	49%	DRJ	4/1/2016
16	Owl Creek Reservoir Company > Owl Creek Reservoir Rehabilitation C150089 (CT2015-048)	Weld	\$485,000	N/A	N/A	N/A	TF	5/1/2016
17	Brighton Ditch Company >River Breach Repair Project CT2016-2040	Adams	\$225,000	100%	July 2015 - Aug 2015	100%	JMH	5/1/2016

SubTotal = \$30,029,005

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

Borrower: Bellyache Ridge Metropolitan District **County:** Eagle

Project Name: Well Replacement Project

Project Type: Well Drilling

Drainage Basin/ District: Colorado / 37

Water Source: Groundwater

Total Project Cost: \$355,000

Funding Source: Construction Fund/
DOLA Energy and Mineral Impact
Assistance Fund

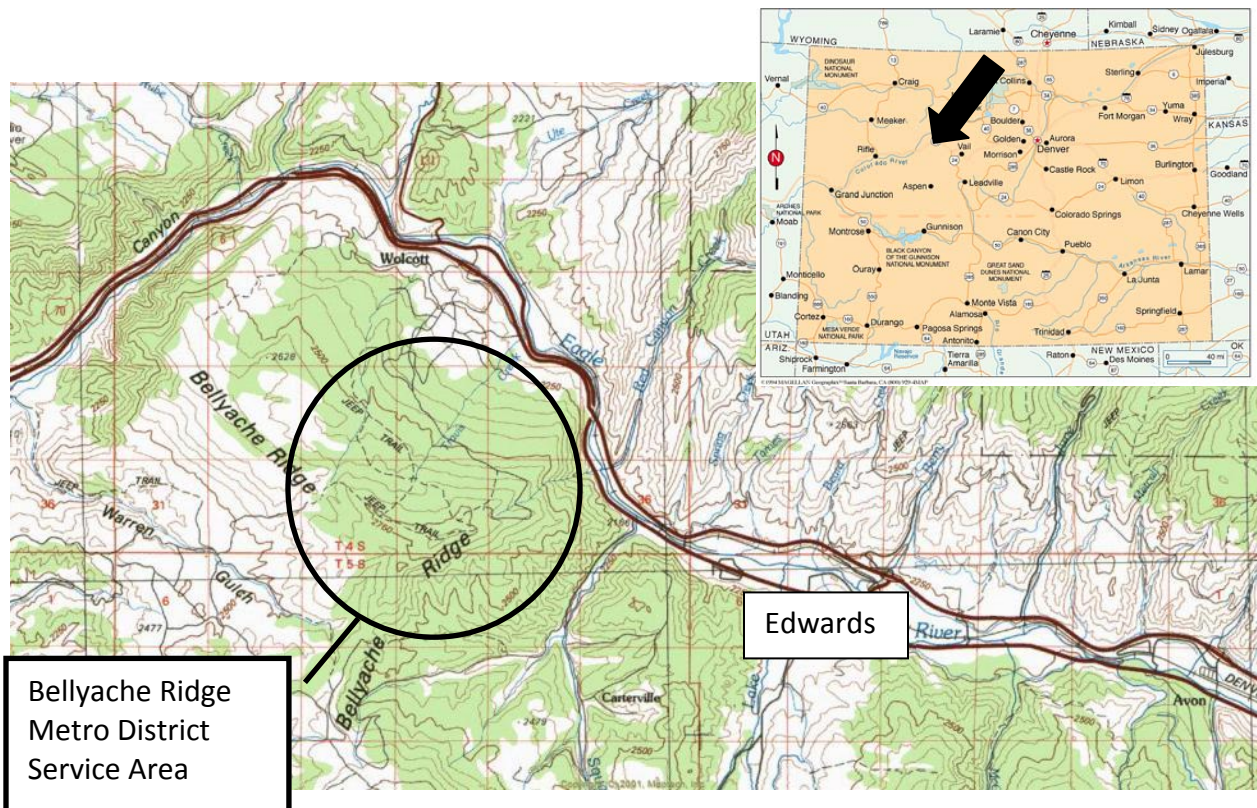
Type of Borrower: Municipal (High)

Average Annual Diversion: 11 AF

CWCB Loan: \$169,175
(with 1% Service Fee)

Interest Rate: 3.0% **Term:** 30 years

The District is located in Eagle County approximately six miles west of Edwards, Colorado. The District's water system includes three wells 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. Spring storms recharged the groundwater supply such that the District has not hauled water since March, but unless a new well is drilled hauling water will likely be required in the future. A new replacement well will be drilled as soon as funding is available.



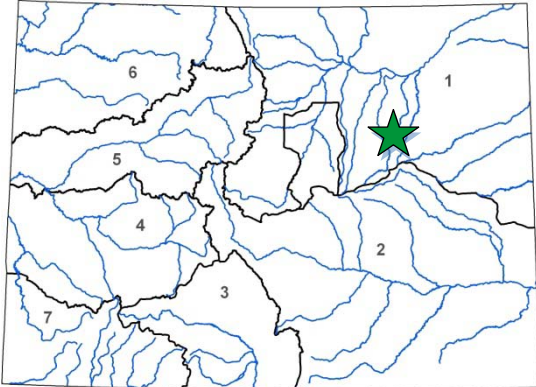


Wells #3 and #6 Replacement Project

Town of Bennett

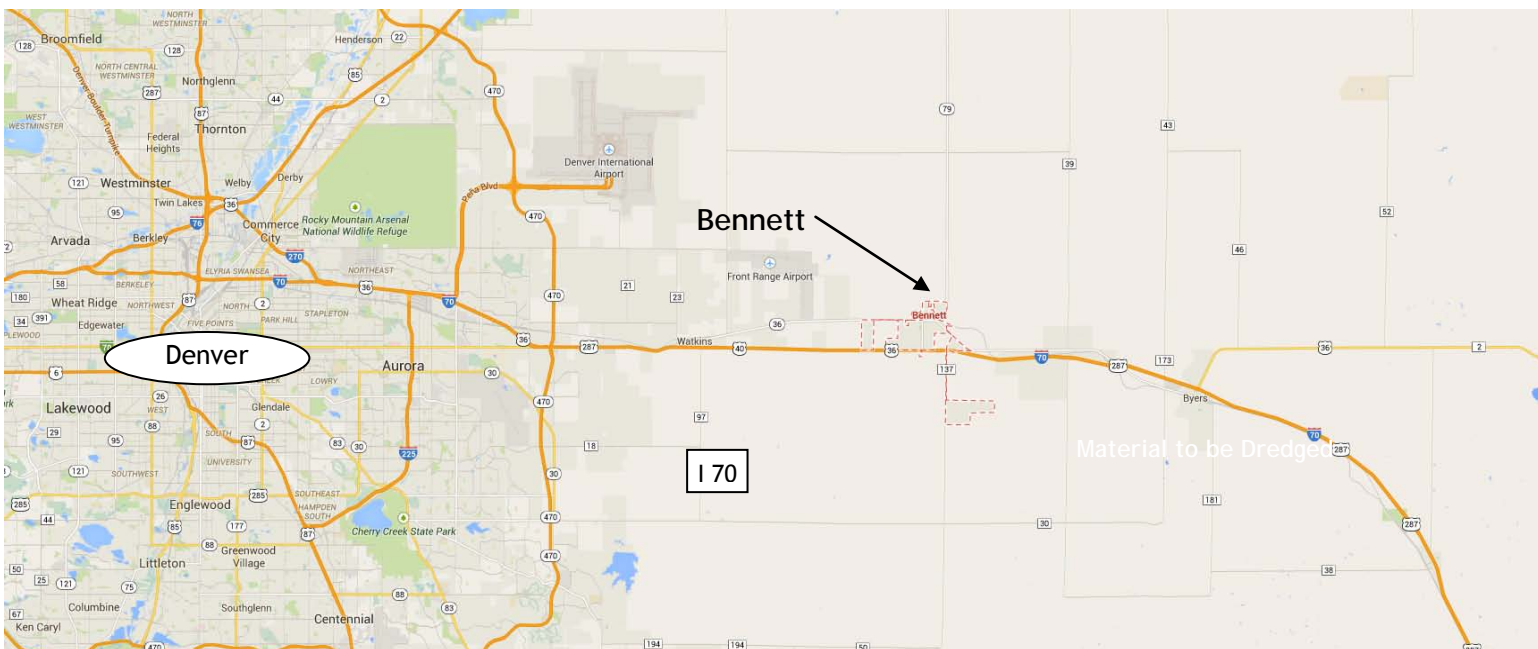
November 2014 Board Meeting

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



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

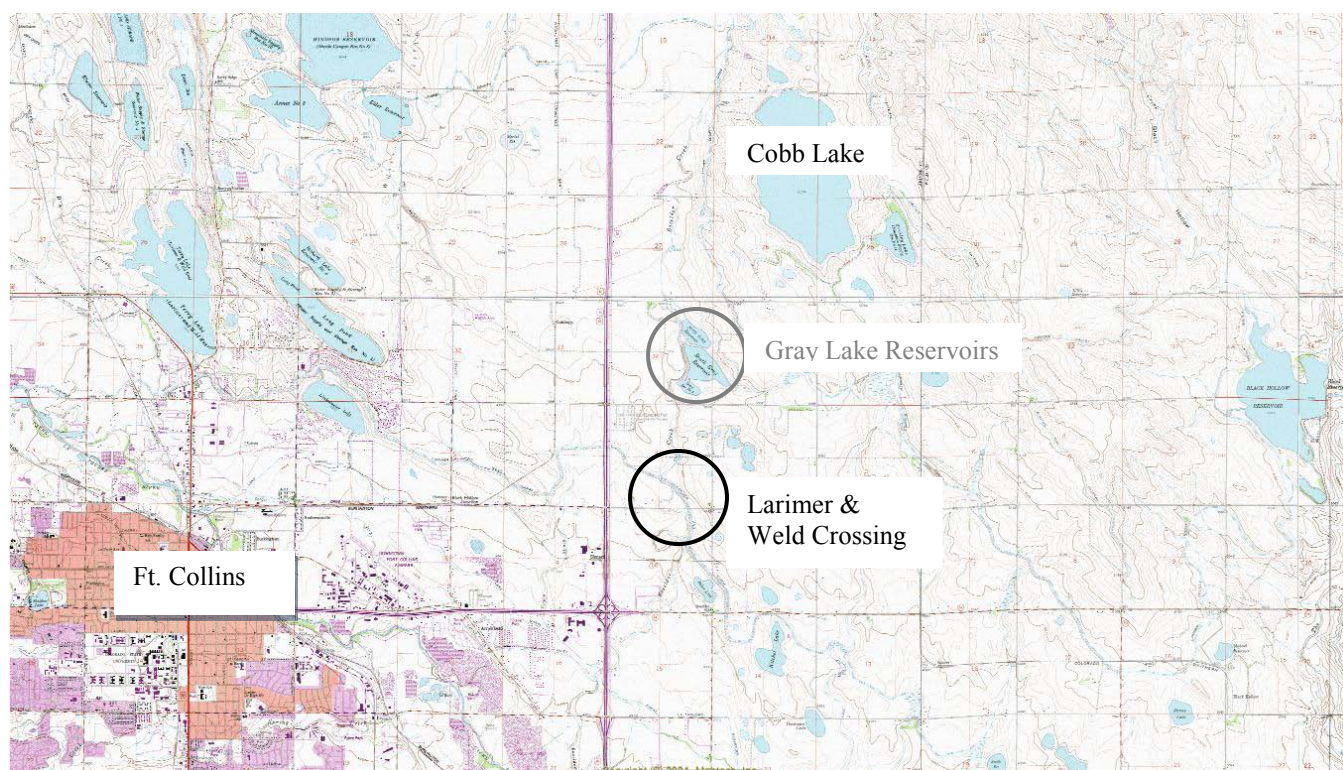
L O C A T I O N	
<i>County:</i>	Adams & Arapahoe
<i>Water Source:</i>	Non-Tributary Groundwater
<i>Drainage Basin:</i>	South Platte
<i>Division:</i>	1
<i>District:</i>	1



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

Borrower: Boxelder Basin Regional Stormwater Authority	County: Larimer
Project Name: Larimer-Weld Canal & Boxelder Creek Crossing Structure	Project Type: Flood Control
Drainage Basin / District: South Platte / 3	Water Source: Boxelder Creek
Total Project Cost: \$1,139,000	Funding Source: Construction Fund
Type of Borrower: Middle Income Municipal	Average Annual Diversion: N/A
CWCB Loan: \$1,010,000 (with 1% service fee)	Interest Rate: 2.75% Term: 15-years (rate reduced from 3.0% for middle income municipal)

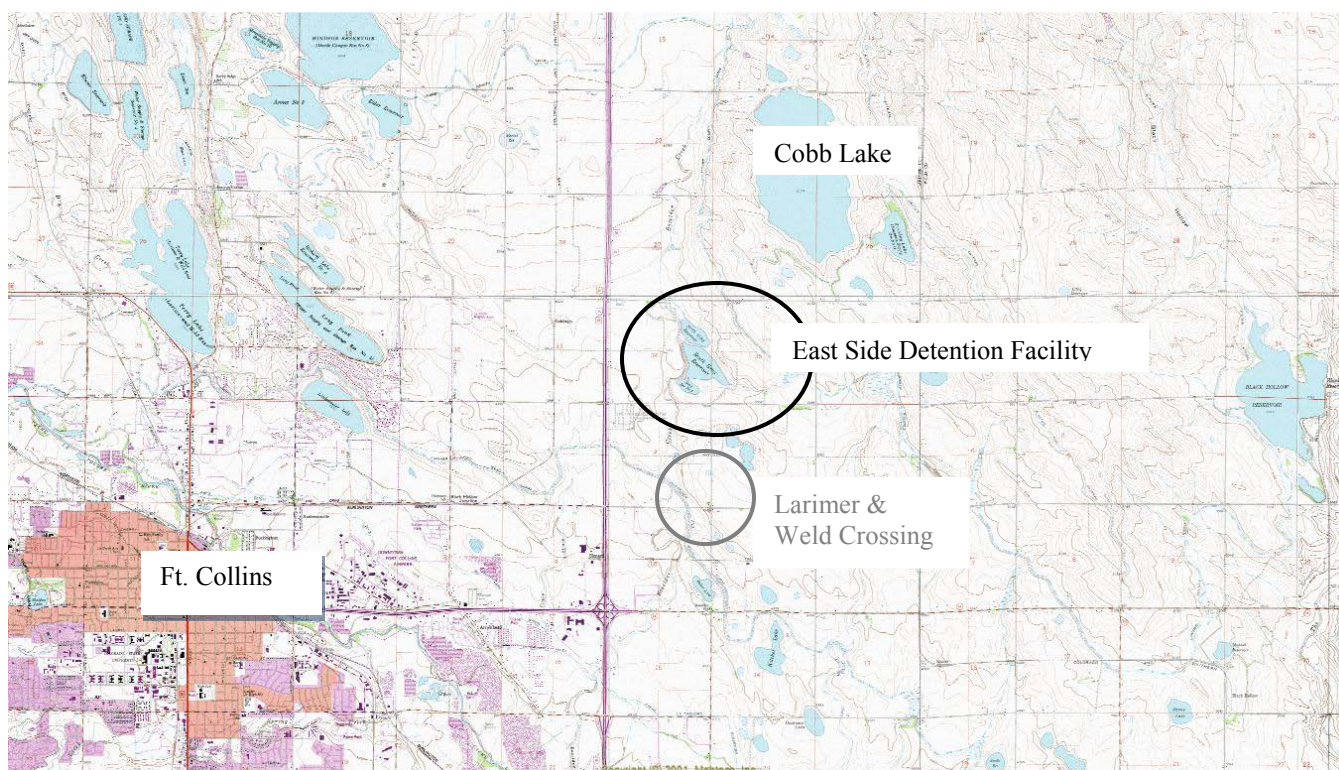
The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between the City of Fort Collins, Larimer County and the Town of Wellington, to facilitate the construction of regional flood control projects to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The crossing structure will provide conveyance for 100-year flows from Boxelder Creek across the Larimer-Weld Canal in a safe and controlled manner. Currently the Boxelder Creek 100-year flows inundate the Larimer and Weld Canal and cause it to overflow west of I-25 into the Cooper Slough drainage within the City of Fort Collins. The design of the crossing structure calls for the construction of a side-flow spillway. Construction is expected to occur between the fall of 2014 through the spring of 2014. Repayment for the project will come from stormwater service and system development fees collected by the Authority.



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

Borrower: Boxelder Basin Regional Stormwater Authority	County: Larimer
Project Name: East Side Detention Facility	Project Type: Flood Control
Drainage Basin/ District: South Platte / 3	Water Source: Boxelder Creek
Total Project Cost: \$8,761,000	Funding Source: Construction Fund
Type of Borrower: Middle Income Municipal	Average Annual Diversion: N/A
CWCB Loan: \$7,171,000 (with 1% service fee)	Interest Rate: 2.75% Term: 15-years (Reduced from 3.0% for middle income municipal)

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 will provide 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. Construction is expected to take one year beginning in December of 2013. Repayment for the project will come from stormwater service and system development fees collected by the Authority.



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

C150393

Borrower: Boxelder Basin Regional
Stormwater Authority

County: Larimer

Project Name: County Road 52 Improvements

Project Type: Flood Control

Drainage Basin/ District: South Platte / 3

Water Source: Boxelder Creek

Total Project Cost: \$1,850,000

Funding Source: Construction Fund

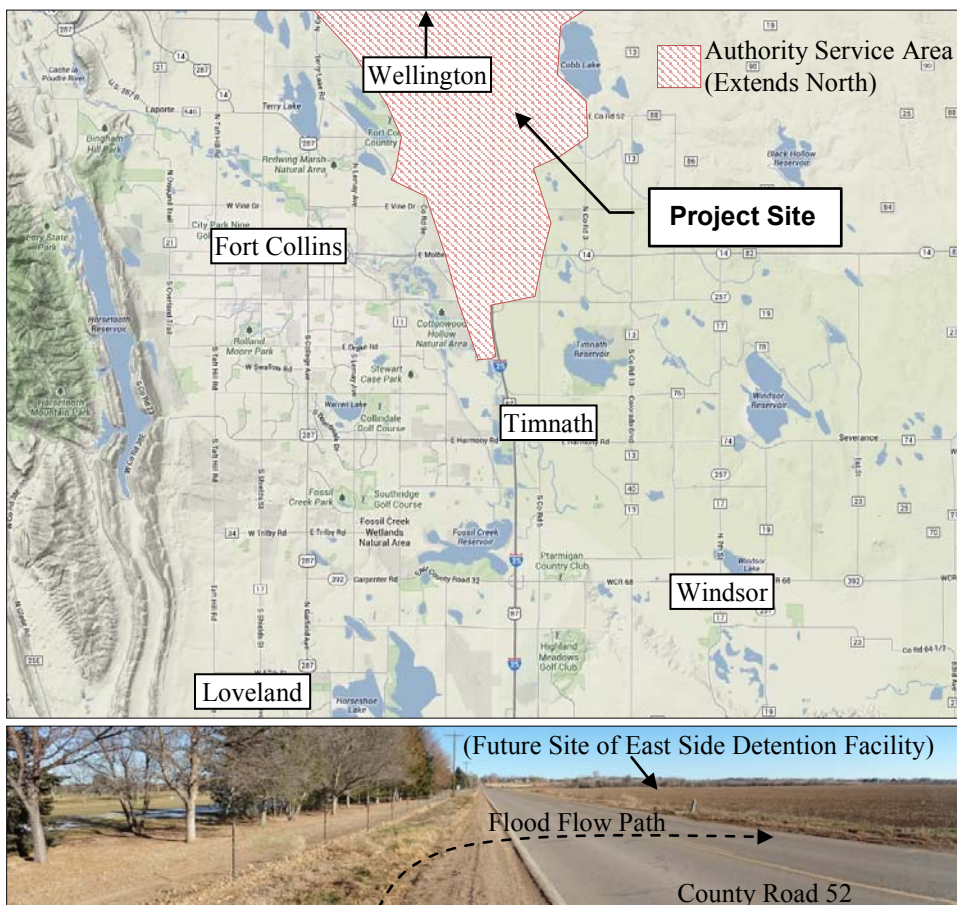
Type of Borrower: Middle Income Municipal

Average Annual Diversion: N/A

CWCB Loan: \$818,100
(with 1% service fee)

Interest Rate: 2.50% **Term:** 15 years
(Reduced from 2.75% for middle income municipal)

The Boxelder Basin Regional Stormwater Authority was formed in 2008, through an IGA between Fort Collins, Larimer County, and 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 will be completed in conjunction with the Authority's East Side Detention Facility (CWCB Loan Contract C150352) and Larimer and Weld Canal Crossing Structure (CWCB Loan Contract C150353). This Project will install box culverts under County Road 52 to reduce roadway overtopping in a 100-year storm event. 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.

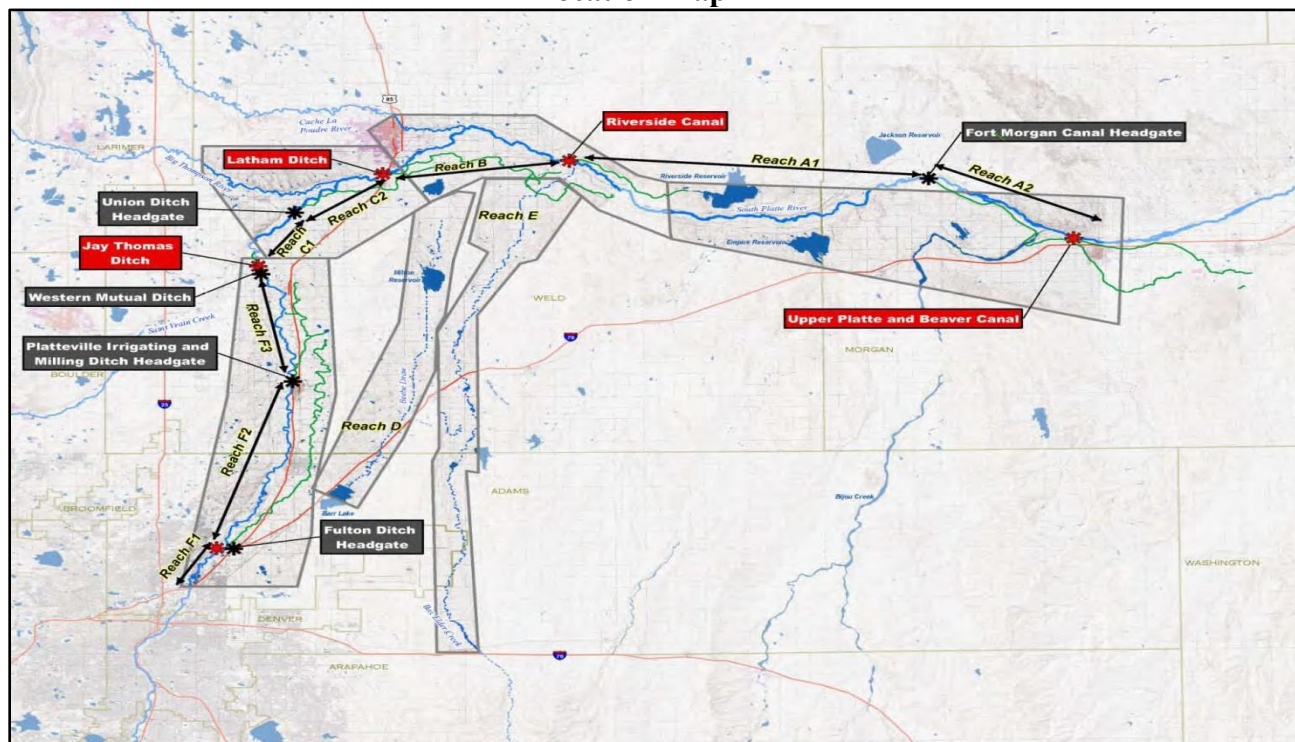


Water Project Loan Program – Project Data Sheet

Borrower:	Well Augmentation System of the Central Colorado Water Conservancy District	County:	Weld, Adams, Morgan		
Project Name:	Water Rights Purchase & Gravel Pit Storage Project	Project Type:	Water Rights Purchase & 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 Covered:	20,400 AF		
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



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

C150404

Borrower: Castle Pines North
Metropolitan District

County: Douglas

Project Name: Chatfield Reallocation Project

Project Type: Reservoir Storage

Drainage Basin: South Platte

Water Source: South Platte River
Plum Creek

Total Project Cost: \$7,100,000

Funding Source: Severance Tax Perpetual
Base Fund

Type of Borrower: High-income Municipal

Average Annual Delivery: 1,300 AF

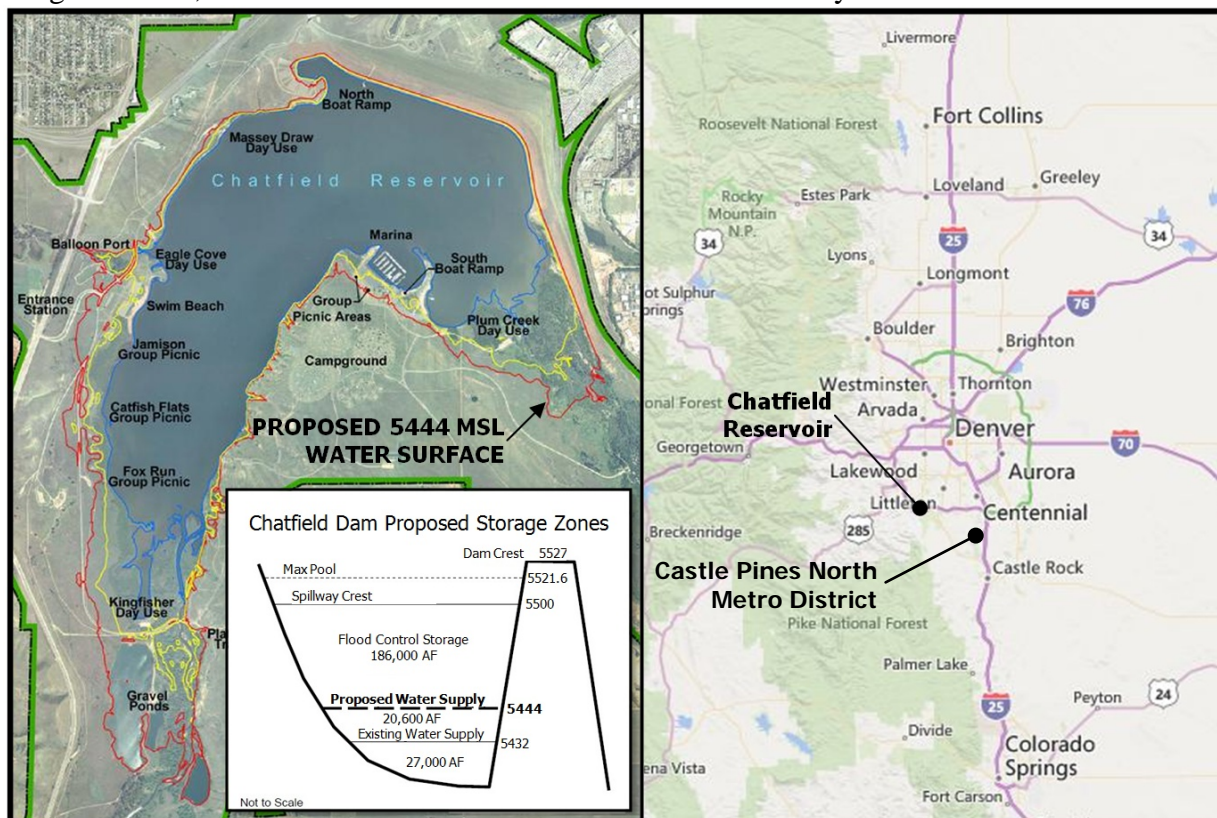
Added Water Supply Storage: 1005.8 AF

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.

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



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

C150405

Borrower: Centennial Water & Sanitation District **County:** Douglas

Project Name: Chatfield Reallocation Project

Project Type: Reservoir Storage

Drainage Basin: South Platte

Water Source: South Platte River
Plum Creek

Total Project Cost: \$48,888,000

Funding Source: Severance Tax Perpetual
Base Fund

Type of Borrower: High-income Municipal

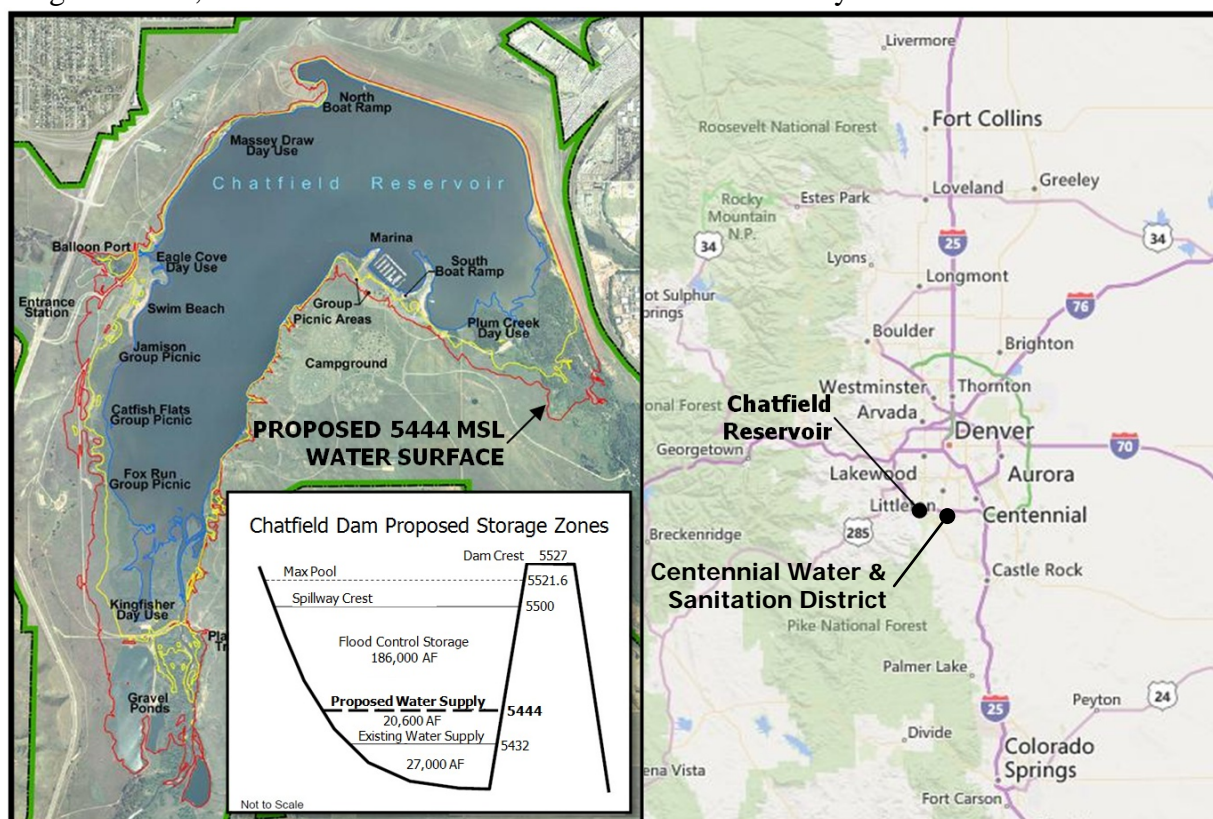
Average Annual Delivery: 17,500 AF

Added Water Supply Storage: 6,922.1 AF

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 acre-feet proposed to be reallocated, the District would receive 6,922.1 acre-feet of storage, or 33.6% of the total reallocation. The District will store Chatfield water in accordance with water court Case Nos. 83CW184, 84CW411, and 85CW314.

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



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

C150406

Borrower: Center of Colorado Water
Conservancy District

County: Park

Project Name: Chatfield Reallocation Project

Project Type: Reservoir Storage

Drainage Basin: South Platte

Water Source: South Platte River
Plum Creek

Total Project Cost: \$931,000

Funding Source: Severance Tax Perpetual
Base Fund

Type of Borrower: Middle-income Municipal

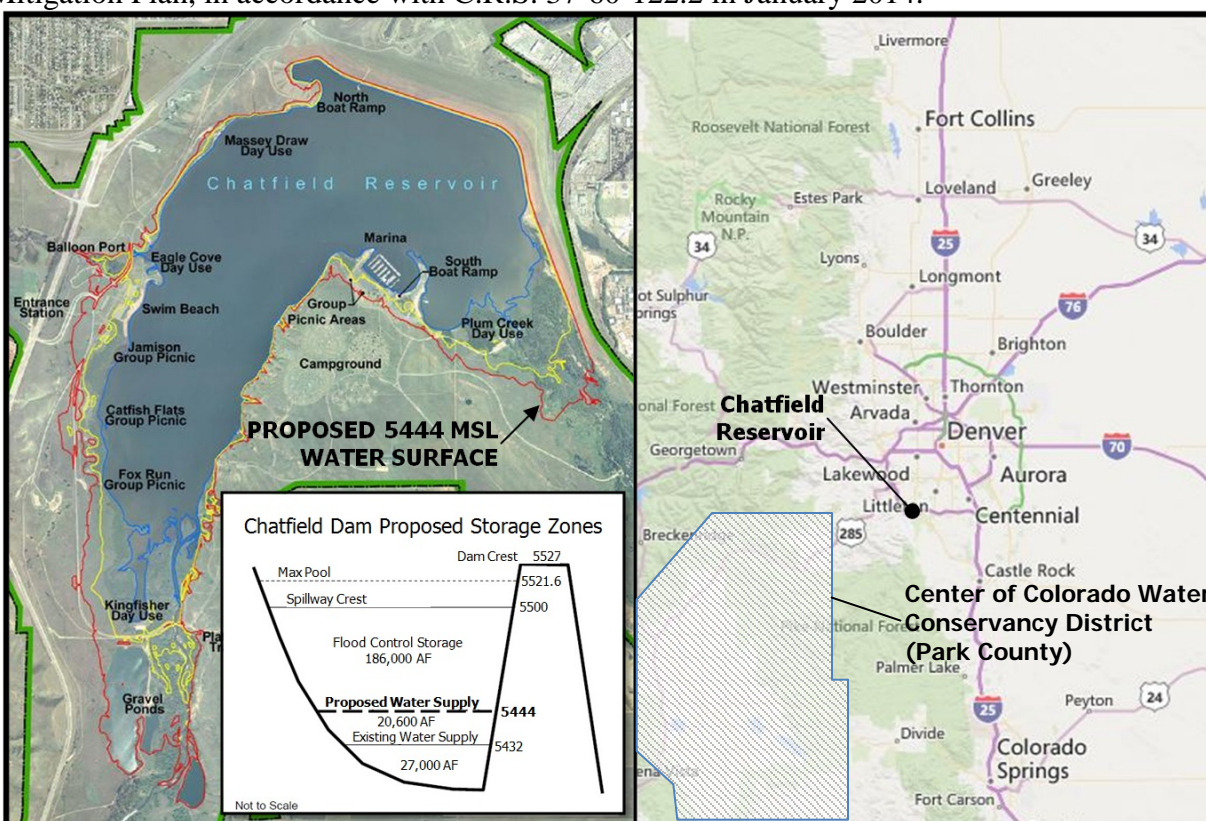
Average Annual Diversion: 700 AF

Added Water Supply Storage: 131.3 AF

CWCB Loan: \$606,000 (with 1% service fee) **Interest Rate:** 2.5% **Term:** 15-years

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

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



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

C150407

Borrower: Central Colorado Water
Conservancy District

County: Adams, Weld

Project Name: Chatfield Reallocation Project

Project Type: Reservoir Storage

Drainage Basin: South Platte

Water Source: South Platte River
Plum Creek

Total Project Cost: \$28,170,000

Funding Source: Severance Tax Perpetual
Base Fund

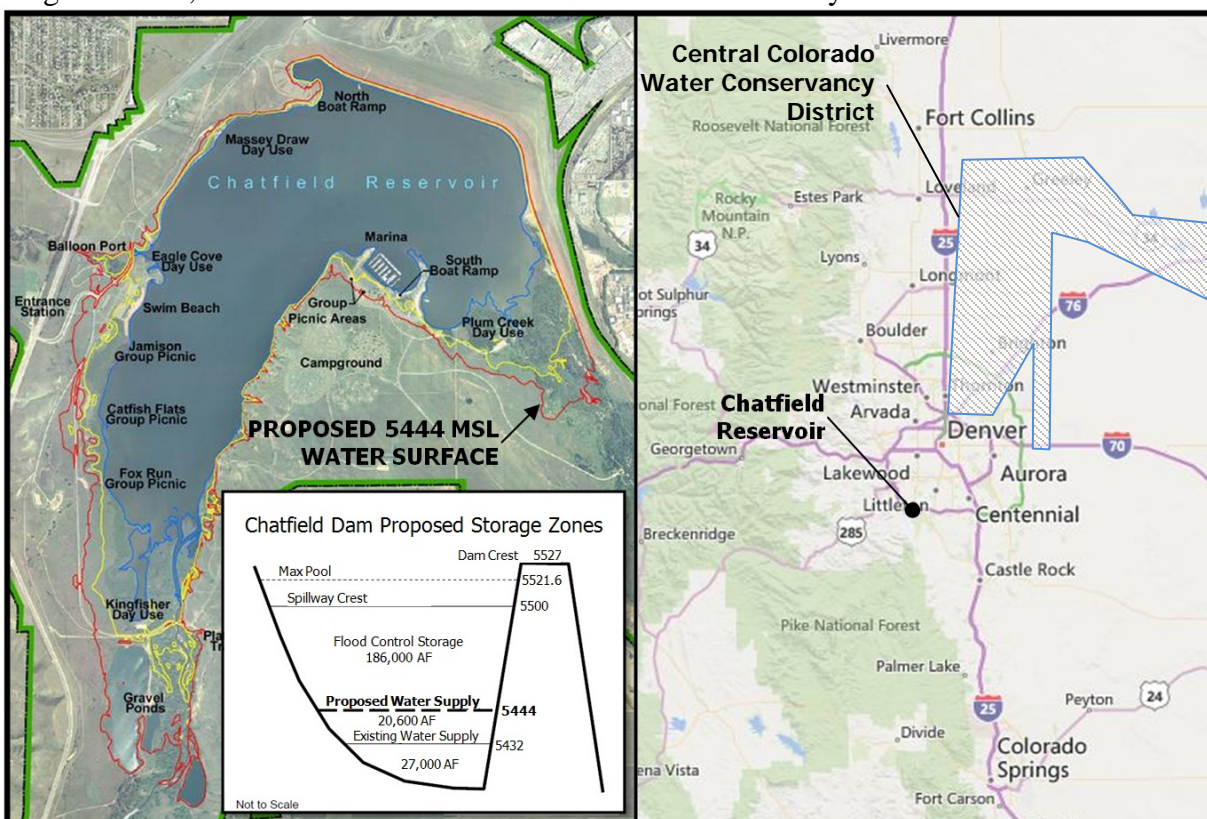
Type of Borrower: Agricultural

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

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

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

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



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

Borrower: Colorado Parks and Wildlife

County: Rio Grande

Project Name: Beaver Park Dam

Project Type: Reservoir Rehabilitation

Drainage Basin: Rio Grande Basin

Water Source: Beaver Creek

Total Project Cost: \$15,939,606

Funding Source: Construction Fund

Type of Borrower: State Agency

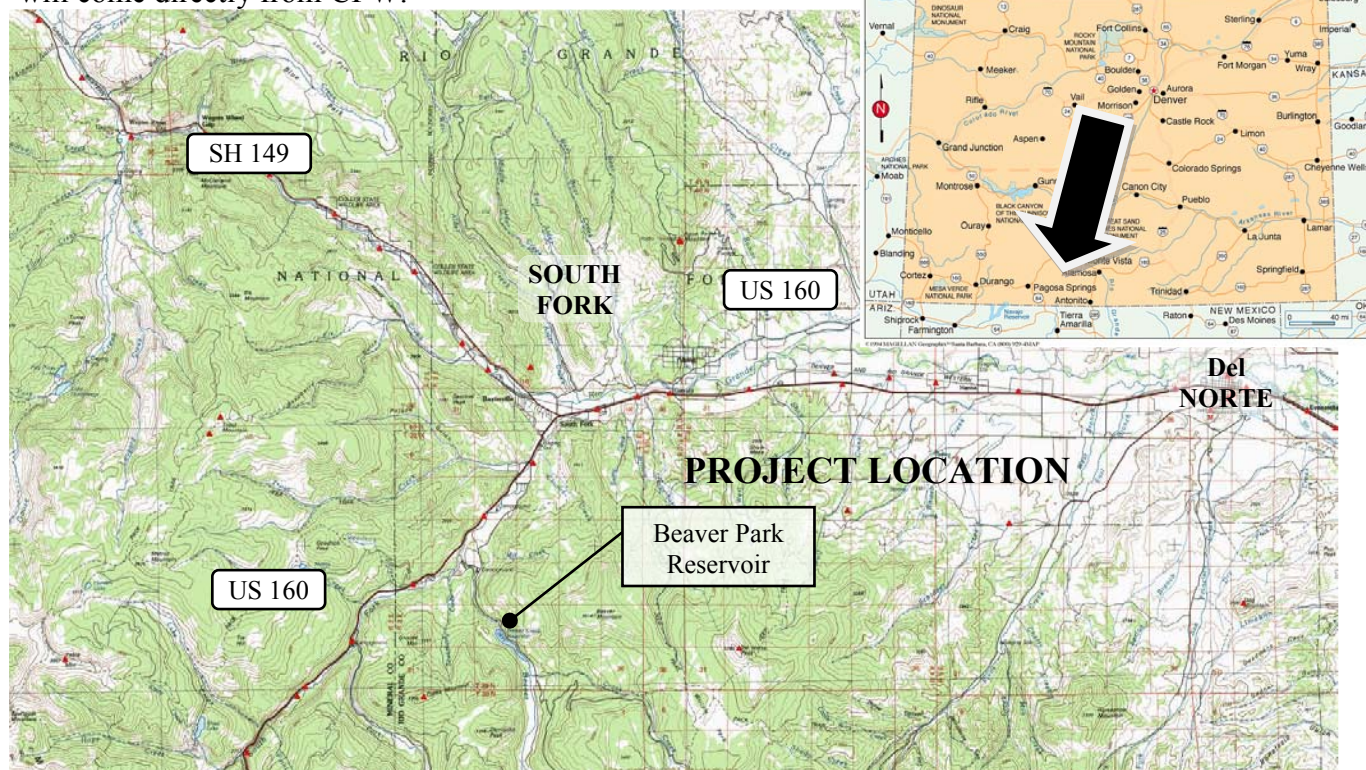
Average Annual Diversion: 4,434 AF

Restricted Capacity Reclaimed: 2,201 AF

CWCB Loan: \$10,000,000

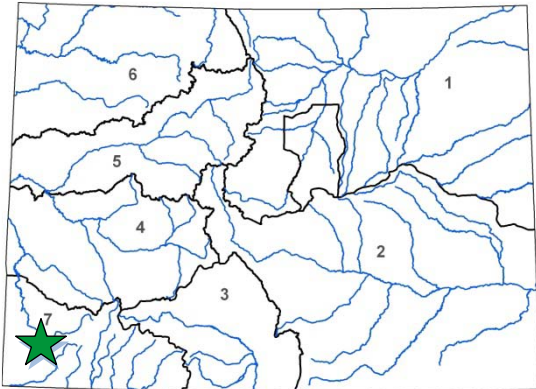
Interest Rate: 0% **Term:** 30-year

Colorado Division of Parks and Wildlife (CPW) is applying for a loan for the Beaver Park Dam Rehabilitation Project (Project). Beaver Park Reservoir (Reservoir) was originally constructed in 1914 and provides for general recreation, fishing, and water storage. In 2010, a sinkhole along the left abutment was observed by the State Engineer's Office (SEO), which resulted in the SEO placing a 20 foot fill restriction on the Reservoir. The restriction resulted in the Reservoir's capacity being reduced from 4,758 to 2,557 acre-feet. To remove the restriction, CPW intends to construct a downstream filter/drain system, an upstream high density liner, and a spillway chute. The total Project cost for the alternative selected is \$15,939,606. The General Assembly authorized CPW for a \$10,000,000 loan, at a 0% interest rate, through the 2012 Projects Bill (SB12S-002) to assist in constructing the Project, contingent upon final loan approval by the Colorado Water Conservation Board (CWCB). The remaining funds to construct the Project will come directly from CPW.





L O A N D E T A I L S	
Project Cost:	\$1,200,000
CWCB Loan (with Service Fee):	\$858,500
Loan Term and Interest Rate:	10 Years @ 2.1%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Meter replacement
Average Annual Delivery:	2,600 AF



L O C A T I O N	
County:	Montezuma
Water Source:	Dolores River
Drainage Basin:	San Juan / Dolores
Division:	7
District:	71

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 3,400 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 intends to replace the meters with smart meters that will provide data storage and the ability to better manage water within the distribution system. The City is also applying for a \$50,000 Water Efficiency Grant from the CWCB and a \$200,000 grant from DOLA. All work is expected to occur in 2015.



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

C150402

Borrower: The Ephraim Ditch Company

County: Rio Grande

Project Name: Ephraim Diversion and
Headgate Rehabilitation

Project Type: Ditch Rehabilitation

Drainage Basin/ District: Rio Grande / 22

Water Source: Conejos River

Total Project Cost: \$201,500

Funding Source: Construction Fund,
WSRA Grants

Type of Borrower: Agricultural

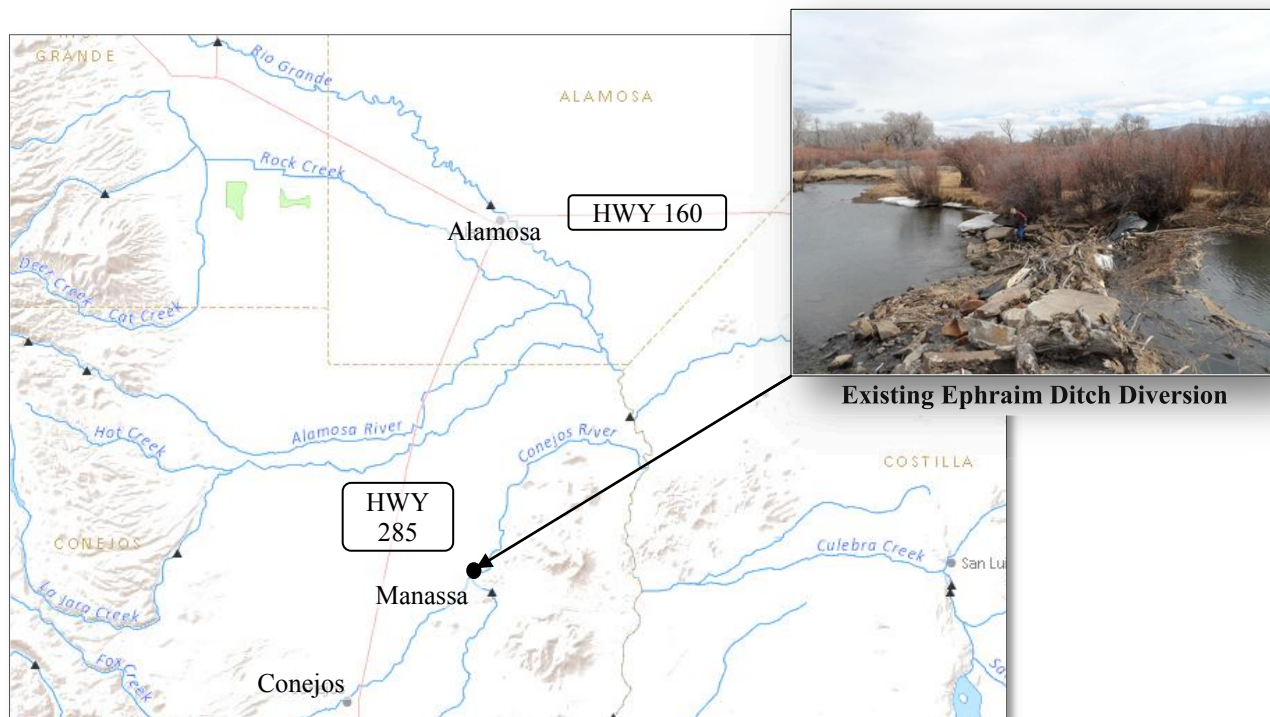
Average Annual Diversion: 4,100 AF

CWCB Loan: \$101,000
(with 1% service fee)

Interest Rate: 1.75% **Term:** 30-years

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 is 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 Ephraim Ditch diversion structure has been washed away over time, contributing to decades of limited diversion to irrigators and potential over payment to the Compact. Currently irrigators divert their water right by piling debris such as tree trunks or cinderblocks to act as the diversion dam. This Project will remove and replace the diversion and headgate structure and install automated headgates and five gauging stations. Construction is expected to start around July 2015.

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, has 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 will extend this whole river strategy to the Confluence, specifically to the Sanford Canal, Ephraim Ditch, and East Bend Ditch.



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

C150394

Borrower: Farmers Pawnee Canal Company

County: Logan

Project Name: Diversion Structure Replacement Project

Project Type: Diversion Structure

Drainage Basin/ District: South Platte / 64

Water Source: South Platte River

Total Project Cost: \$2,047,000

Funding Source: Construction Fund

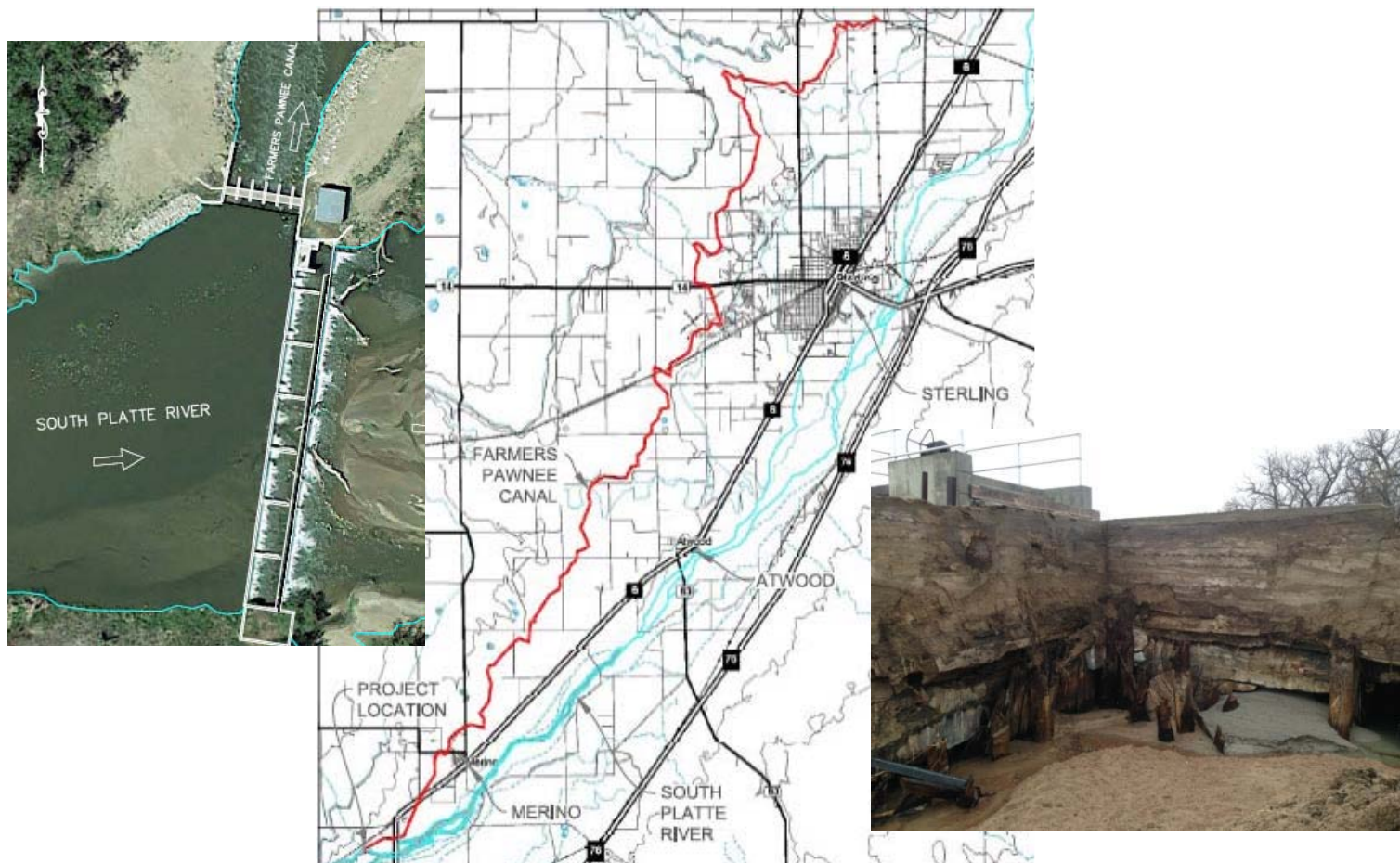
Type of Borrower: Agricultural

Average Annual Diversion: 27,956 AF

CWCB Loan: \$2,067,470
(with 1% service fee)

Interest Rate: 1.75% **Term:** 30 years

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 intends to rebuild the diversion dam and canal headgate. Replacement of the diversion dam provides the Company with an opportunity to utilize an improved design and alleviate an ongoing maintenance issue of sand accumulation within the canal. Construction is expected to occur in the fall/winter of 2014/2015.



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

C150359

Borrower: Town of Fowler, Water Enterprise

County: Otero

Project Name: Augmentation Pipeline Project

Project Type: Augmentation

Drainage Basin/ District: Arkansas / 17

Water Source: Arkansas River

Total Project Cost: \$305,000

Funding Source: Construction Fund

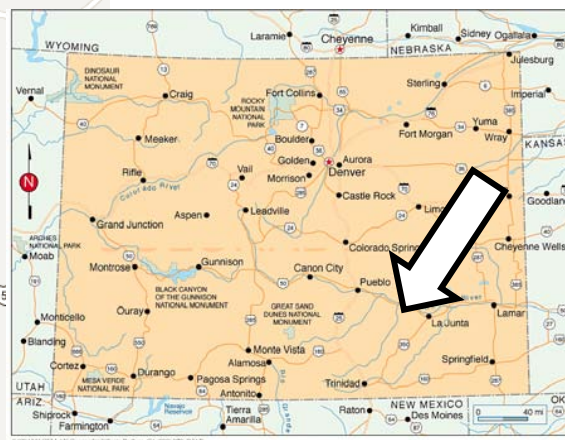
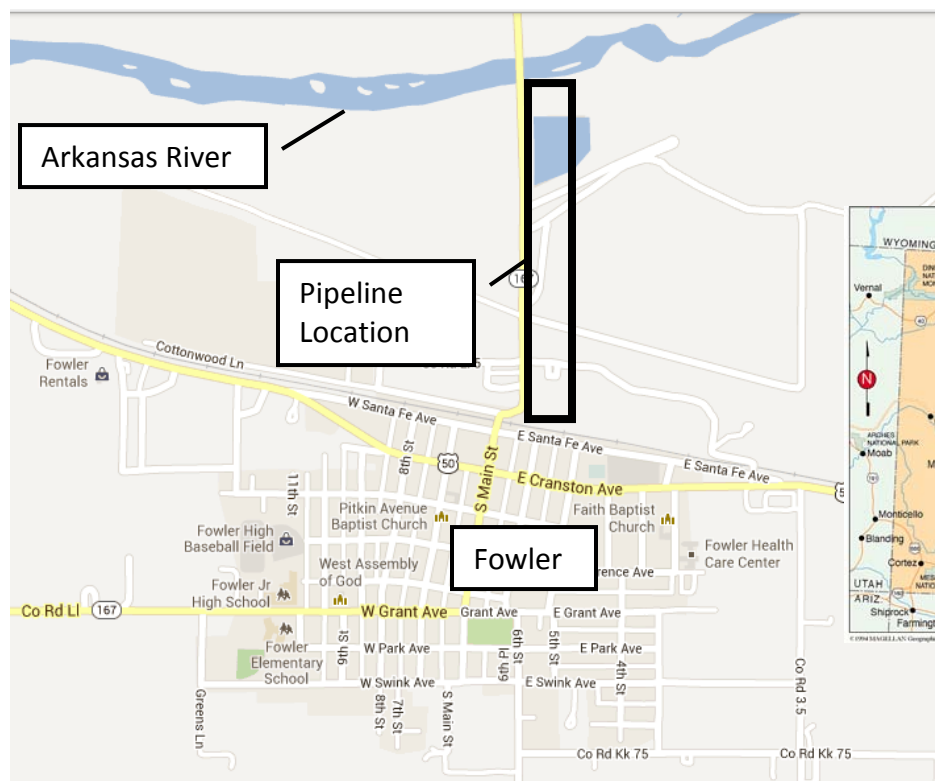
Type of Borrower: Municipal (Low)

Average Annual Diversion: 157 AF

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

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

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



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

Borrower: Town of Georgetown
(Water and Sewer Enterprise)

County: Clear Creek County

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

Drainage Basin/District: South Platte / 7

Water Source: Clear Creek

Total Project Cost: \$3,275,000

Funding Source: Construction Fund

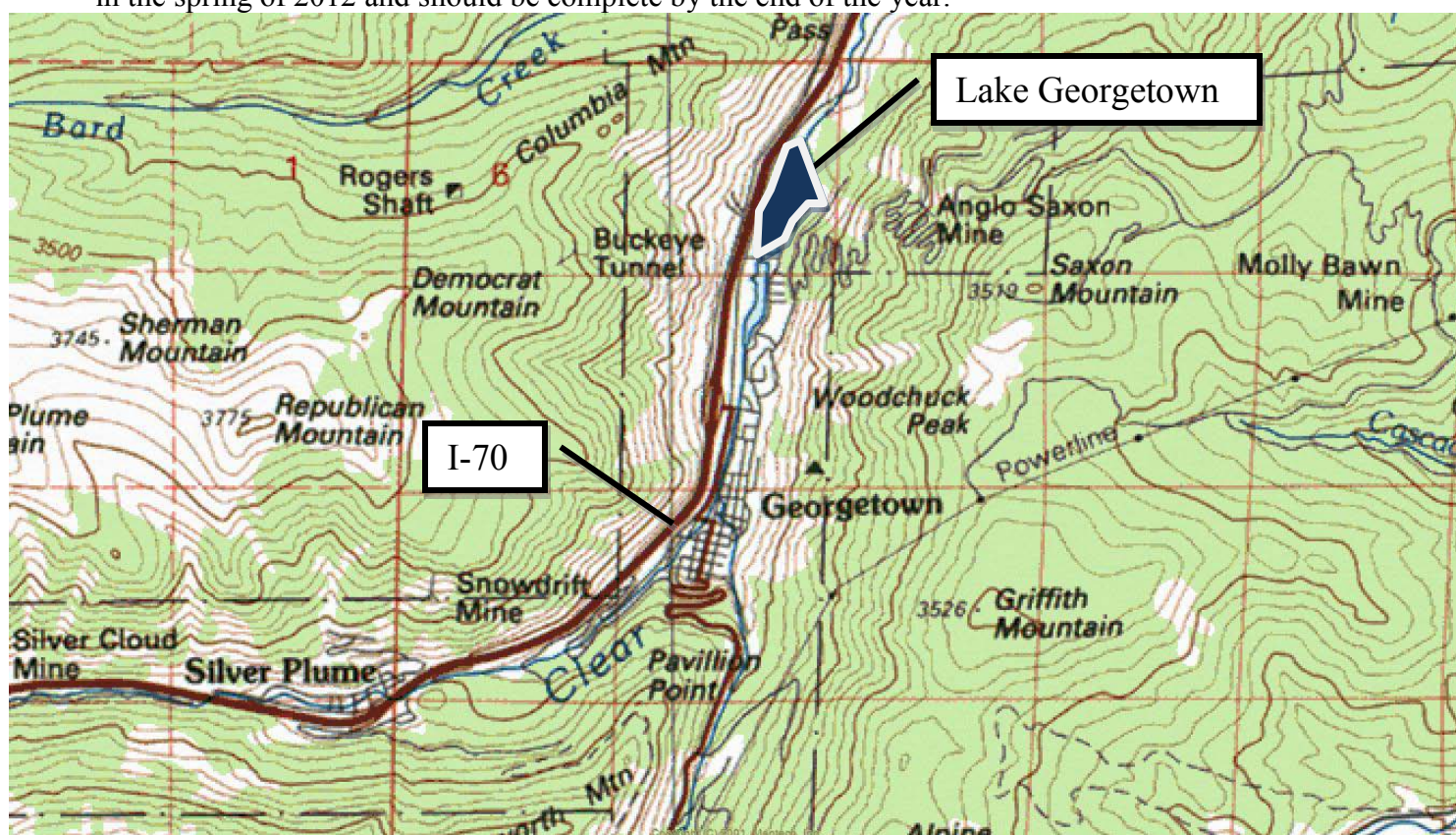
Type of Borrower: Middle-Income Municipal

Average Diversion: 208 AF

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

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

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



CWCB Water Project Loan Program Project Data Sheet

Borrower: Grand Mesa Water Conservancy District

County: Delta

Project Name: Peak Reservoir and Blanche Park Reservoir Rehabilitation

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: Gunnison / 40

Water Source: Surface Creek

Total Project Cost: \$640,000

Funding Source: Construction Fund/
WSRA Gunnison Basin Funds

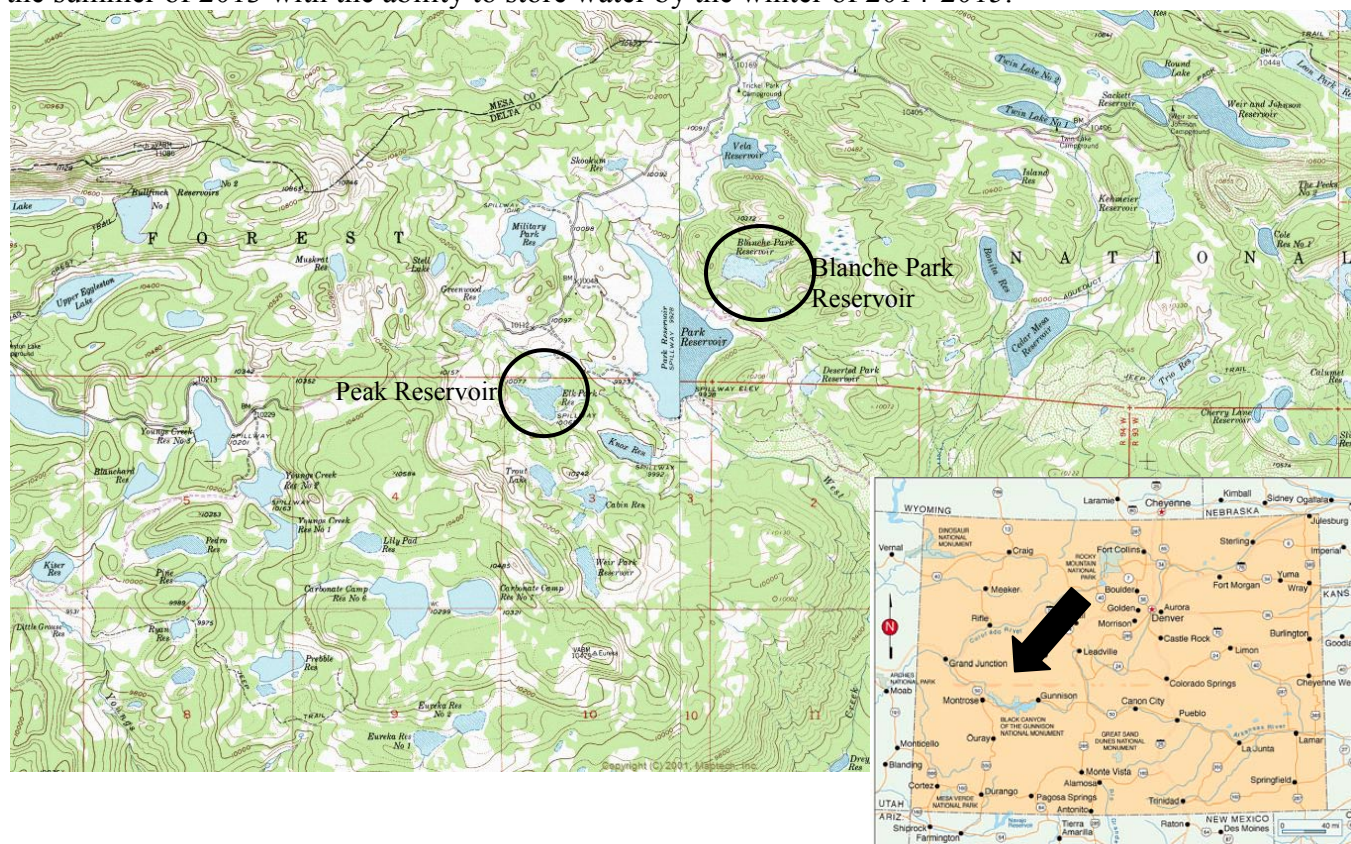
Type of Borrower: Municipal/Agricultural

Average Annual Diversion: 400 AF
Storage Added: 155 AF

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

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

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



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

C150362

Borrower: Greeley and Loveland Irrigation Company

County: Larimer

Project Name: Irrigation System Improvements

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: South Platte / 4

Water Source: Big Thompson River

Total Project Cost: \$3,470,000

Funding Source: Construction Fund

Type of Borrower: Agricultural

Average Annual Diversion: 45,000 AF

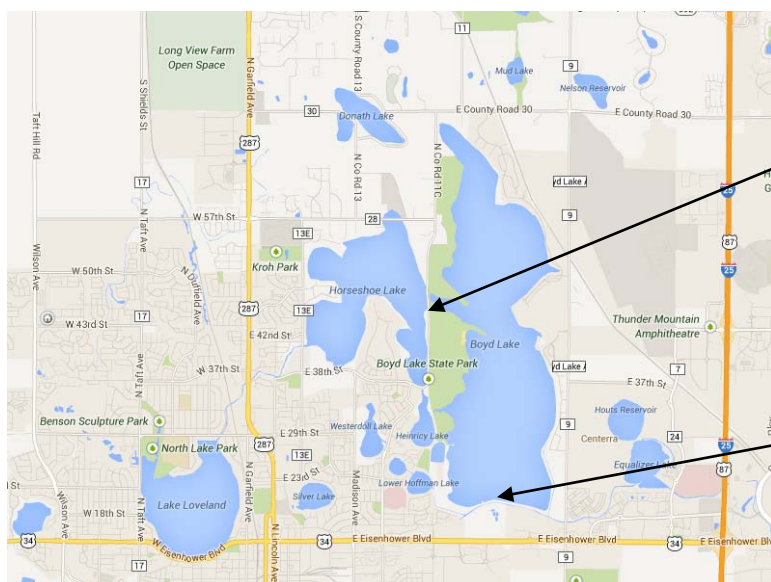
CWCB Loan: \$3,154,230
(with 1% service fee)

Interest Rate: 2.15% **Term:** 30-years
(34% Ag, 53% Low, 12% Mid, <1% High, <1% Com)

The Greeley and Loveland Irrigation Company (Company) is a mutual ditch company established in 1900. Together with the Seven Lakes Reservoir Company (Seven Lakes), 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 4,874 acre-feet. The Boyd Lake project will replace 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.

Horseshoe Lake, owned by Seven Lakes, has a surface area of 650 acres and a storage capacity of 8,051 acre-feet. The Horseshoe Lake project will be used 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.



Existing Horseshoe Lake High-Level Outlet



Existing Boyd Lake High-Level Outlet

CWCB Construction Loan Program Project Data Sheet

Borrower: Town of Gypsum

County: Eagle

Project Name: LEDE Ditch & Reservoir
Upgrade Project

Project Type: Reservoir Rehabilitation

Drainage Basin: Colorado River

Water Source: Gypsum Creek

Total Project Cost: \$3,162,000

Funding Sources: Construction Fund

Type of Borrower: High Income Municipal

Average Delivery: 1,200 AF

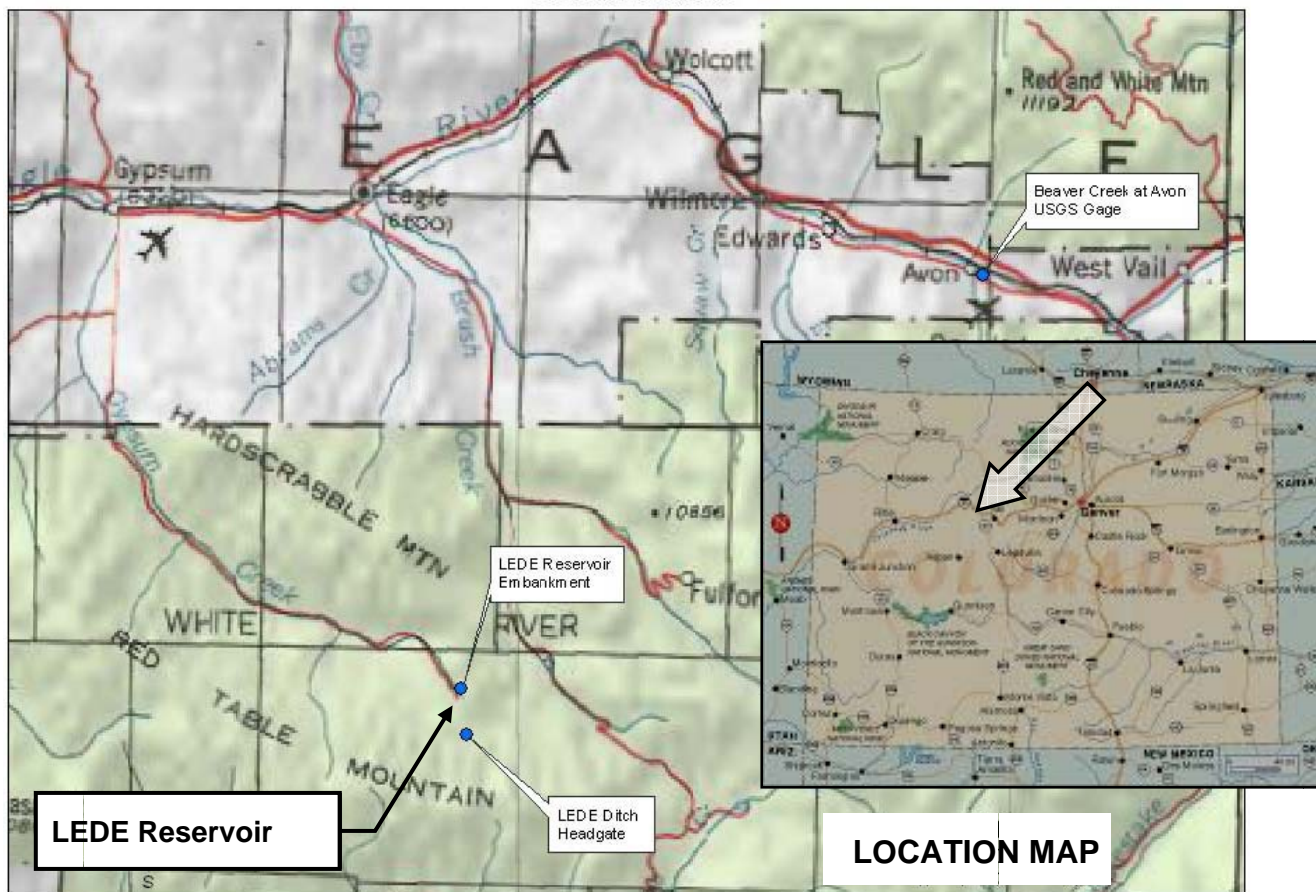
New Storage: 254 AF

Loan Amount: \$2,689,731 (Including 1% fee)

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

The Town of Gypsum purchased the LEDE Ditch and LEDE Reservoir water rights in 2006. The original water rights are decreed for irrigation uses, and provide storage for up to 947 AF in the reservoir. The Reservoir was built to a capacity of 431 AF. The Town seeks to increase capacity to 685 AF in order to accommodate continued agricultural irrigation, and for future water supplies to the Town. 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. The Town wishes to repair and improve the reservoir to utilize its potential, and to protect valuable senior storage rights in the reservoir. The reservoir is located in the headwaters of Gypsum Creek, south of Gypsum within the White River National Forest. Design and permitting is expected to occur in 2009/2010 with pipeline construction starting in late 2009 and dam construction starting in 2011.

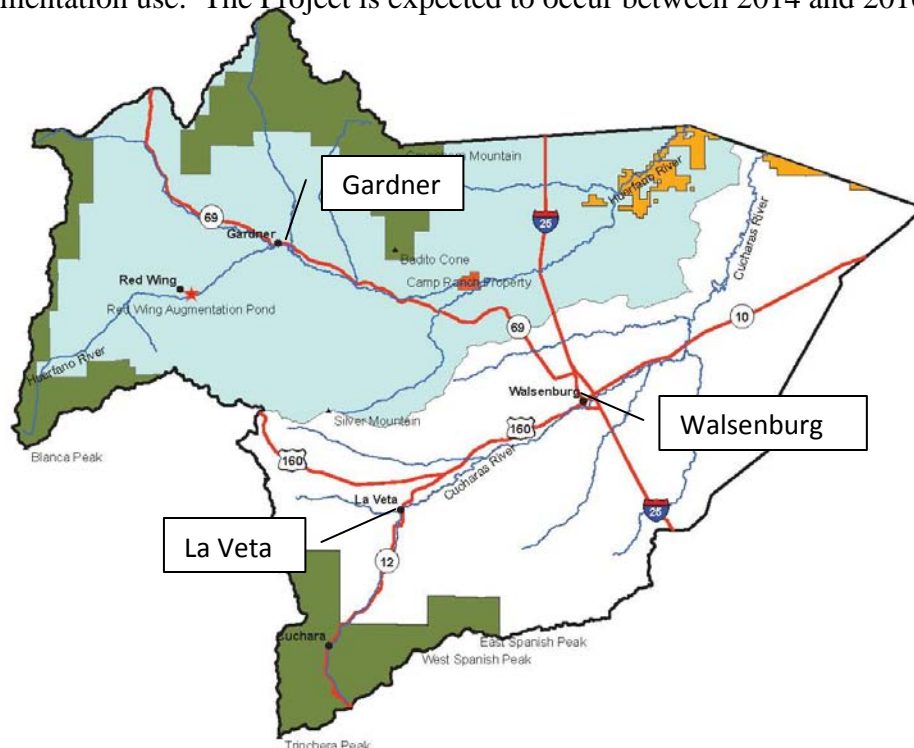
General Locations



Water Project Loan Program Project Data Sheet

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

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



CWCB Construction Loan Program Project Data Sheet

Borrower: Lake Canal Reservoir Company

County: Larimer and Weld

Project Name: North Gray Reservoir
Rehabilitation

Project Type: Reservoir Rehabilitation

Drainage Basin: South Platte River

Water Source: Box Elder Creek

Total Project Cost: \$128,300

Funding Sources: Construction Fund

Type of Borrower: Blended Agricultural
Municipal & Commercial

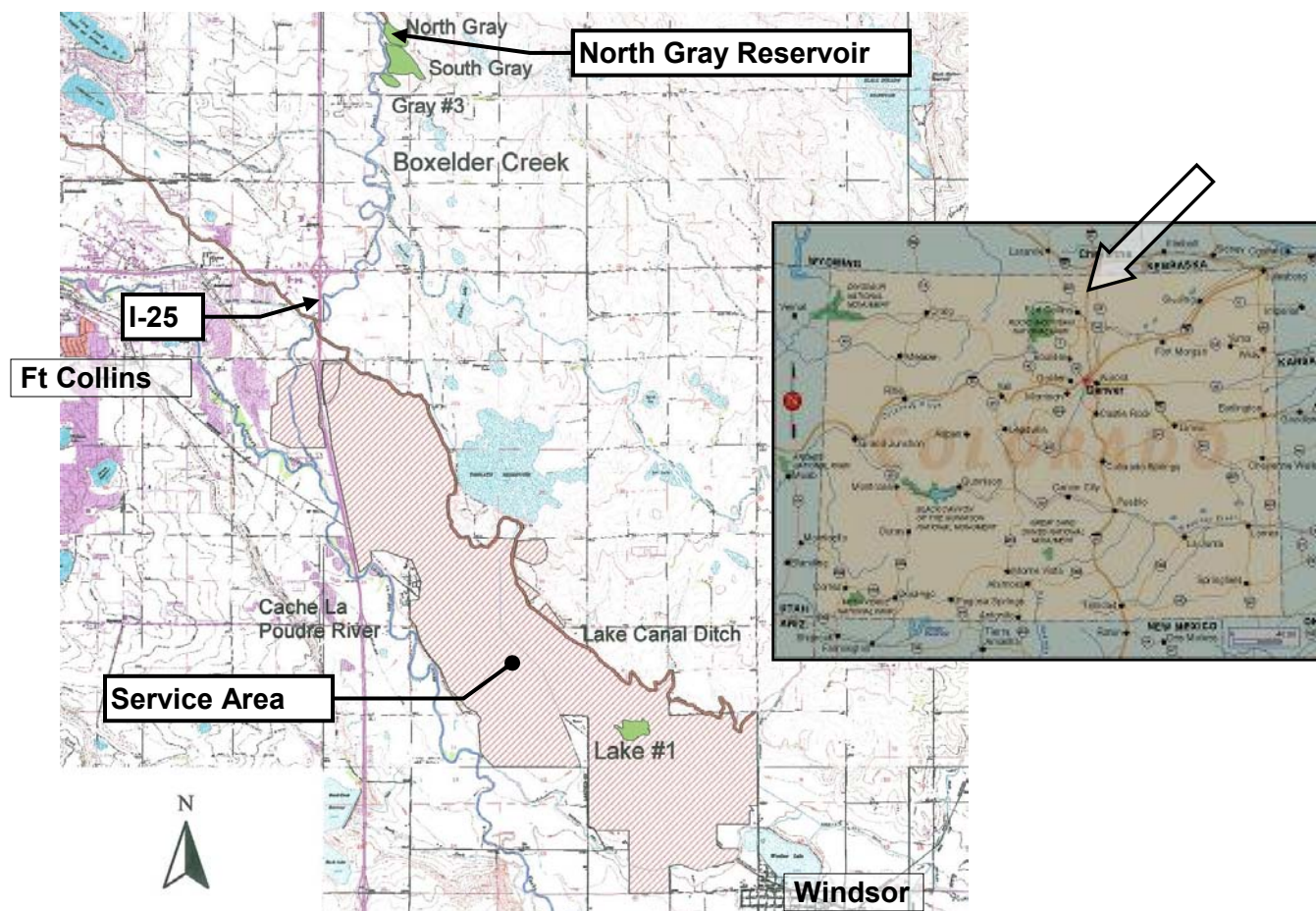
Details: 333 AF Stored
75 AF Recovered

Loan Amount: \$116,625 (Including 1% fee)

Interest Rate: 2.10% **Term:** 30 years

The Lake Canal Reservoir Company is requesting a CWCB loan to construct a new spillway on North Gray Reservoir. The reservoir is currently under a storage restriction by the Office of the State Engineer (SEO). The existing spillway is a corrugated metal pipe that has corroded through. The existing pipe will be removed and the area will be backfilled. A new concrete cutoff wall and riprap lined channel will be constructed to replace the old spillway. Project design and SEO review is expected to be completed by July 2012. Construction is planned for September through November of 2012.

Note: Because this reservoir is on the SEO's restricted reservoir list and the Company is predominately owned by agricultural interests, this loan qualifies for a 1.0% interest rate reduction. The blended rate of 3.10% was reduced to 2.10%.



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

Borrower: Lake Durango Water Authority

County: La Plata

Project Name: Source Water Supply Project

Project Type: Water Rights
Purchase/Infrastructure

Drainage Basin: San Juan / Dolores

Water Source: ALP

Total Project Cost: \$3,000,000

Funding Source: Construction Fund and
WSRA Statewide Funds

Type of Borrower: Low-income Municipal

Average Delivery: 309 AF

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

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

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

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



0 0.4 0.8 1.6 2.4
Miles

2009 NAIP aerial imagery provided by
the US Farm Service Agency

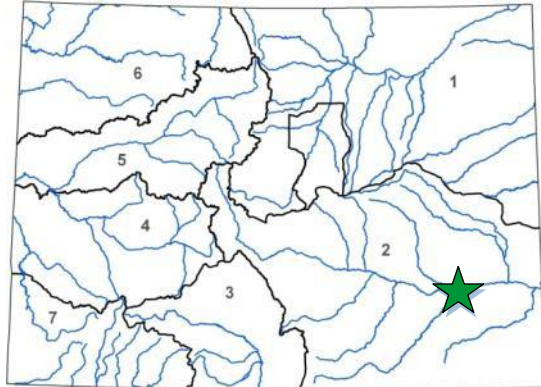




Repair & Replacement of the Las Animas Consolidated Canal Spillway Structure

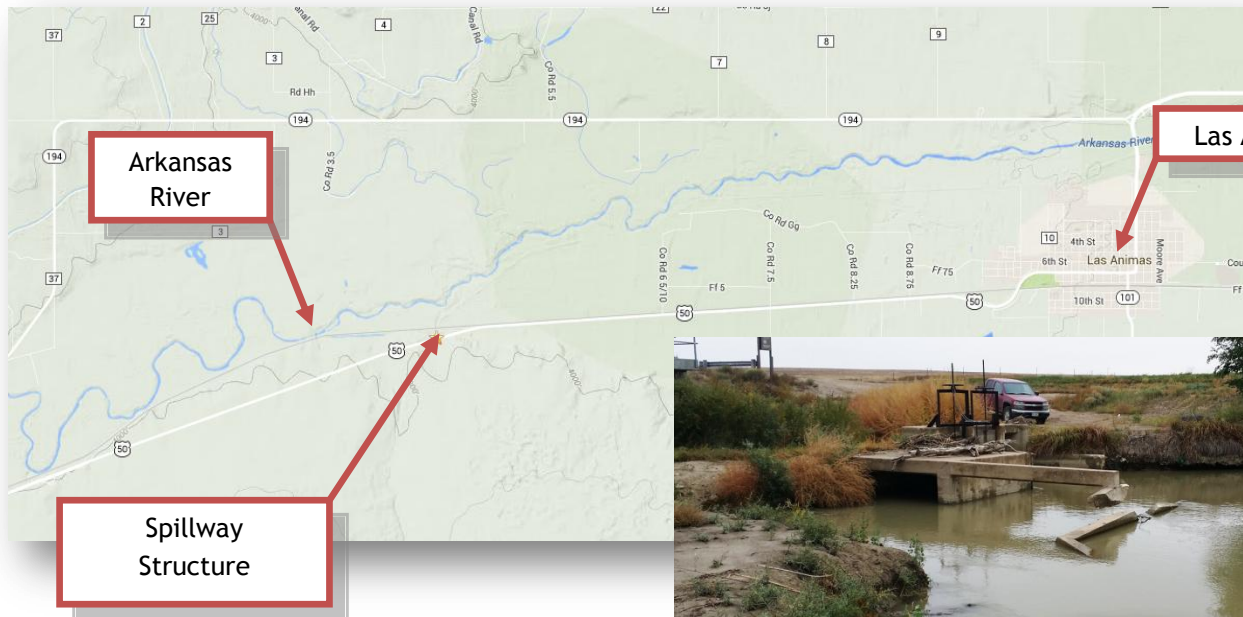
Las Animas Consolidated Canal Company
November 2014 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$ 400,200
CWCB Loan (with Service Fee):	\$ 363,782
Loan Term and Interest Rate:	30 Years @ 5.05%
Funding Source:	
B O R R O W E R T Y P E	
Agriculture	Municipal
23%	0%
	Commercial
	77%
P R O J E C T D E T A I L S	
Project Type:	Spillway Structure Replacement
Average Annual Diversion:	26,000 AF



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

The Las Animas Consolidated Canal Company and the Consolidated Extension Canal Company were formed in the mid-1870s and together have continuously operated to irrigate 8,300 acres of land in the vicinity of Las Animas, Colorado. A significant, localized thunderstorm occurred during the night in April 2014, which created heavy runoff which flowed into the canal downstream of the main canal headgate through several uncontrolled and ungaged tributaries. These flows exceeded the capacity of the existing spillway structure at the river return, caused the structure to be overtopped and undermined, and resulted in catastrophic failure of the existing structure. While temporary measures have been put in place to keep the ditch in operation, a long-term solution is being sought. The Company is seeking to replace the spillway structure with an improved and modernized structure similar to the original design, but with additional control and safety measures to allow automated canal operations, including response to similar flooding conditions in the future. Modernization of this structure will improve routine canal operations and safety, in addition to mitigating future canal failure risk.



Water Project Loan Program - Project Data

Borrower: Left Hand Ditch Company

County: Boulder

Project Name: Allen Lake and Lake
Isabelle Repair Project

Project Type: Dam Rehabilitation

Drainage Basin: South Platte, District 5

Water Source: Left Hand and St. Vrain Creek

Total Project Cost: \$1,273,000

Funding Source: Construction Fund

Type of Borrower: Blended
(46% ag, 38% mid-muni, 16% high-muni)

Avg. Annual Delivery: 22,700 AF

CWCB Loan: \$1,157,157 (incl. 1% loan fee)

Interest Rate: 2.45% **Term:** 30 years

The Company diverts water from Left Hand and St. Vrain creeks to provide irrigation water for a 15,000-acre service area in Boulder County. The water delivery system includes an elaborate network of ditches, laterals, reservoirs and headgates. Two of the Company's five reservoirs, Lake Isabelle and Allen Lake, are in need of repair. Lake Isabelle lies within the Indian Peaks Wilderness which is operated by the Forest Service. The outlet works are deteriorated and unreliable. This project will reconstruct the outlet works while placing the control valve at a more accessible location. The second reservoir, Allen Lake, is located just north of Boulder and west of Highway 36. Its dam was constructed at a 2:1 slope, and is even greater in various locations due to years of wave action displacing rip-rap and eroding the dam face. This project will flatten out the slope and re-armor it with rock rip-rap.

LOCATION MAP



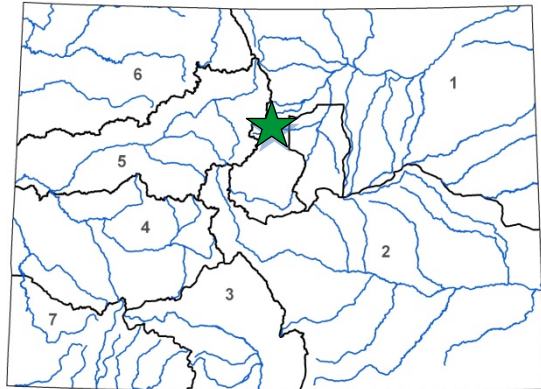


Upper Beaver Brook Dam Spillway

Lookout Mountain Water District

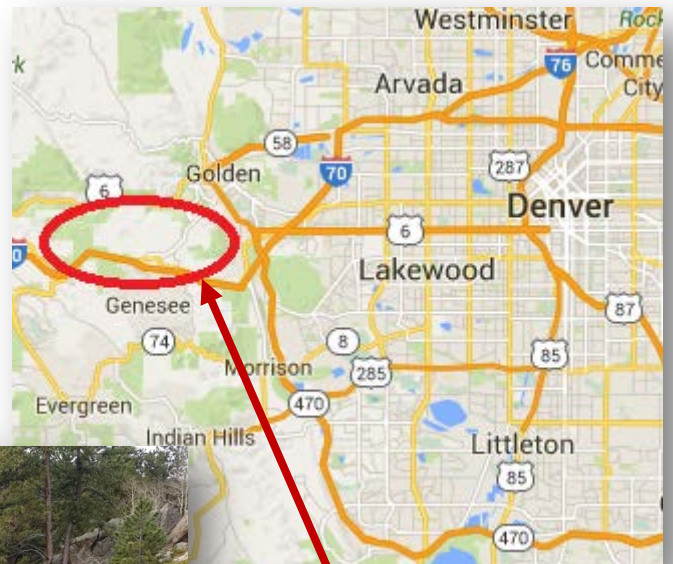
November 2015 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$3,410,000
CWCB Loan:	\$3,099,690
Loan Term and Interest Rate:	30 years @ 3.25%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	High-income 100%
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Enlargement
Average Annual Diversion:	107 acre-feet
Added Reservoir Storage:	134 acre-feet



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

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



Service Area



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

C150398

Borrower: Louden Irrigating Canal
and Reservoir Company
Project Name: Emergency Diversion Structure
and Ditch Repair
Drainage Basin/ District: South Platte / 4

County: Larimer

Project Type: Ditch Rehabilitation

Water Source: Big Thompson River

Total Project Cost: \$215,000

Funding Source: Severance Tax PBF

Type of Borrower: Blended

Average Annual Diversion: 8,000 AF

CWCB Loan: \$161,600
(with 1% service fee)

Interest Rate: 2.70% **Term:** 30-years
(25% Ag, <1% Low, 61% Mid, 8% High, 6% Com)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged, including the Company's 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. Phase 1 will clean and rebuild the ditch and service road, and salvage the existing headgates to ensure general operation for the 2014 irrigation season. Phase 2 will replace the existing headgates with gates that are safer, more accurate, and capable of remote operation.



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

C150334

Borrower: The McDonald Ditch Company

County: Rio Grande

Project Name: McDonald Ditch Diversion
and Headgate Replacement Project

Project Type: Ditch Rehabilitation

Drainage Basin/ District: Rio Grande / 20

Water Source: Rio Grande River

Total Project Cost: \$1,085,200

Funding Source: Construction Fund

Type of Borrower: Agricultural

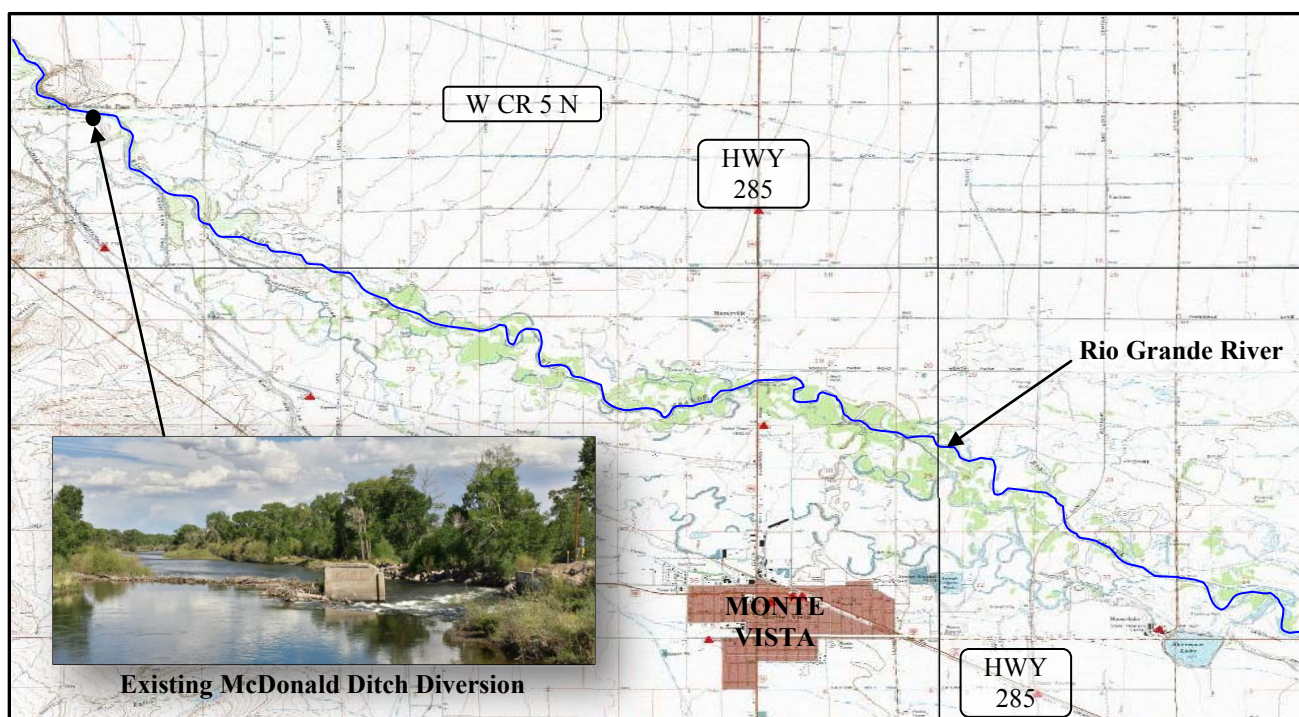
Average Annual Diversion: 45,000 AF

CWCB Loan: \$101,000
(with 1% service fee)

Interest Rate: 2.50% **Term:** 30-years

The McDonald Ditch Company is a Mutual Ditch Company formed in 1921. Their diversion structure and headgate were poorly designed and are rapidly deteriorating, presenting a growing maintenance burden for the Company. Both the diversion and headgate were highlighted as rehabilitation priorities in a 2001 study titled "Rio Grande Headwaters Restoration Project (RGHRP)." The study analyzed the condition of riparian habitats and structures along a 91-mile reach of the Rio Grande from the town of South Fork to Alamosa and triggered a more localized effort known as the Plaza Project. Phase 2 of the Plaza Project includes the final engineering design and construction of a new diversion and headgate for the McDonald Ditch Company.

A loan to the McDonald Ditch Company was approved for this Project in May 2012 in the amount of \$70,700. During the final engineering design of the McDonald Ditch diversion structure, analysis showed that the chosen design of the diversion structure at the existing location would cause flooding in the local community including the upstream bridge of W CR 5 N (Sevenmile Plaza Bridge). The solution is to relocate the diversion structure and headgate just upstream of the bridge and has increased Project cost. This loan increase request of \$30,300 is sought to cover the Company's portion of the Project cost increase.



Water Project Loan Program - Project Data

Borrower: City of Monte Vista
(Water Activity Enterprise)

Project Name: Augmentation Water Rights
Acquisition

Drainage Basin: Rio Grande

Total Project Cost: \$1,863,500

Type of Borrower: Low-Income Municipal

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

County: Rio Grande

Project Type: Water Rights Purchase

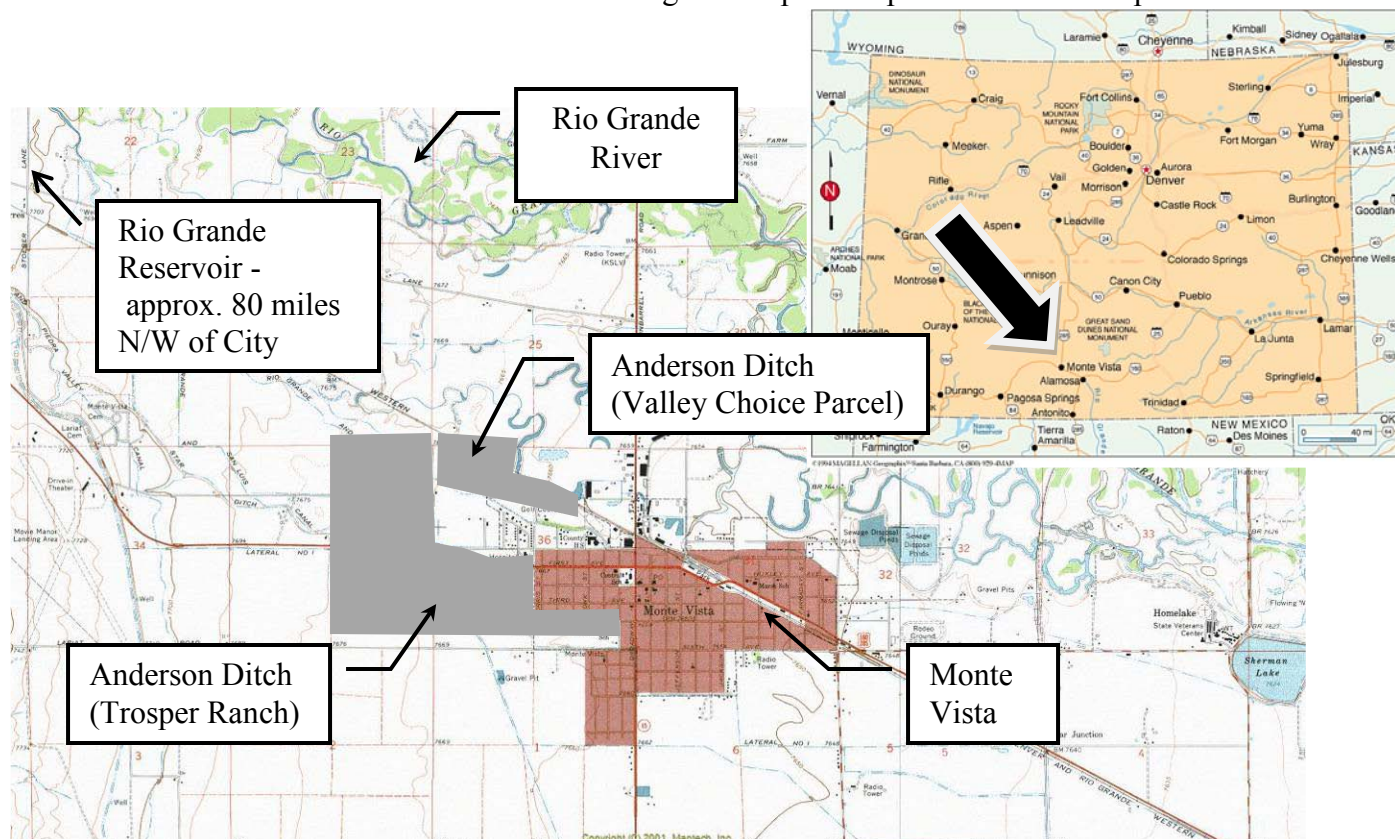
Water Source: Rio Grande River

Funding Source: Construction Fund

Aver. Demand: 1,212 AF/year

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

The City of Monte Vista, by and through its water activity enterprise, provides water to 4,300 residents in the San Luis Valley. The City's water system consists of five wells in a confined aquifer and three wells in an unconfined aquifer. Upcoming rules from the Office of the State Engineer will require water users in the San Luis Valley to replace depletions from pumping of wells in both the confined and unconfined aquifers tributary to the Rio Grande River. The water rights currently owned by the City are insufficient to fully replace the City's depletions. The City needs an additional 321 AF of replacement water. In order to meet this need, the City is purchasing Anderson Ditch water rights and storage in the Rio Grande Reservoir to store both the excess credits from the water it is purchasing and to store additional water it intends on leasing. Upon loan approval, the City plans on executing purchase agreements with the sellers of the Anderson Ditch rights and will then file in water court to enable the use of those rights to replace depletions as soon as possible.



Location Map

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

C150378

Borrower: North Poudre Irrigation Company

County: Larimer

Project Name: Reservoir No. 4 Rehabilitation

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: South Platte / 3

Water Source: Cache la Poudre

Total Project Cost: \$1,800,000

Funding Source: Construction Fund

Type of Borrower: Blended

Average Annual Diversion: 44,400 AF

CWCB Loan: \$1,636,200
(with 1% service fee)

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

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 will modify the dam including its slope, outlet works, drains, spillway, and measurement structure and will also provide a new parking area and floodplain improvements. The purpose of the project is to lift the State Engineer's storage restriction on the reservoir and dam and improve the overall reservoir facility. The Project will restore 674 AF of water storage.

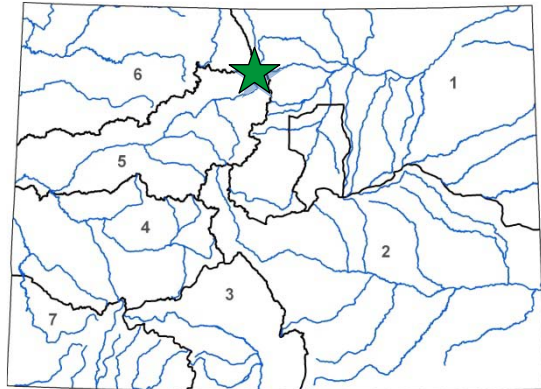




Granby Hydropower Project

Northern Colorado Water Conservancy District
November 2014 Board Meeting

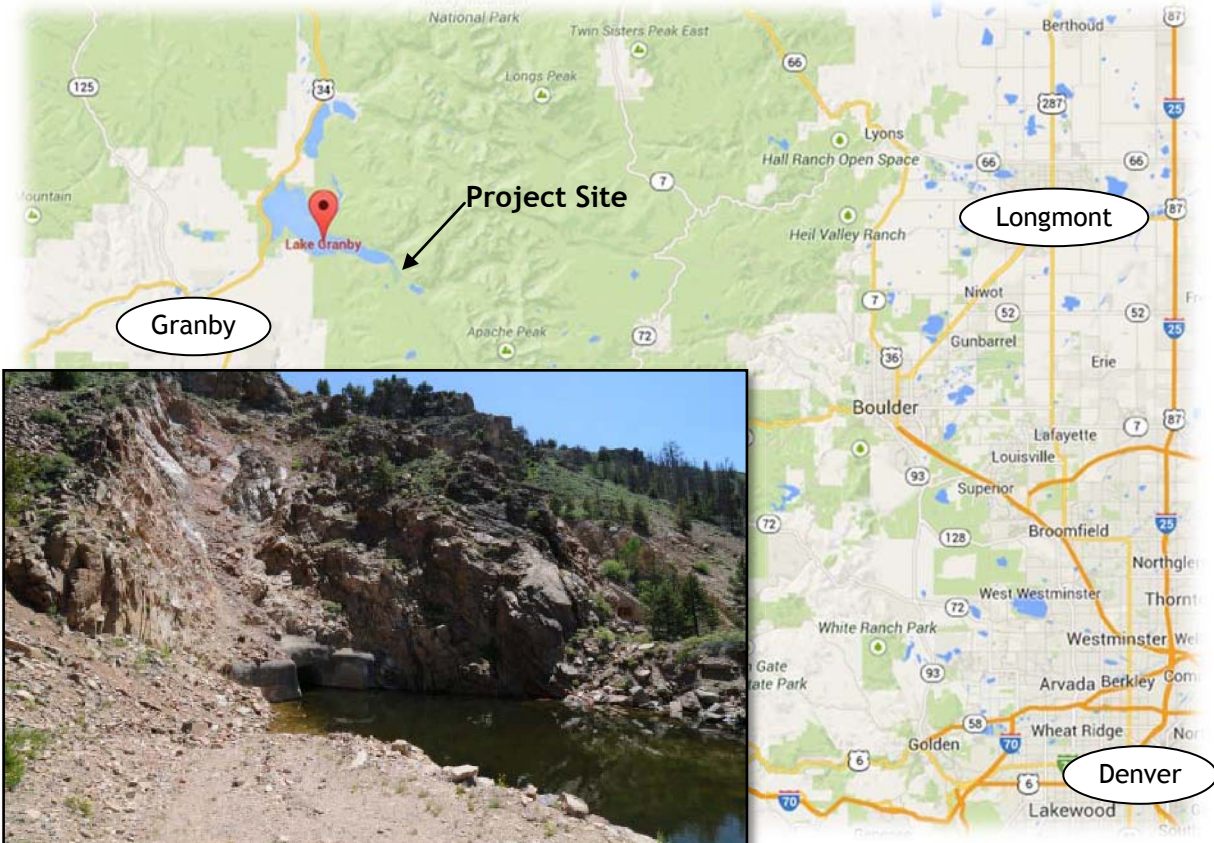
L O A N D E T A I L S	
Project Cost:	\$5,669,340
CWCB Loan (with Service Fee):	\$5,135,183
Loan Term and Interest Rate:	30 Years @ 2.0 %
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Hydropower	
P R O J E C T D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production:	4.9M KWh



L O C A T I O N	
County:	Grand
Water Source:	Colorado River
Drainage Basin:	Colorado
Division:	5
District:	51

Northern Water Hydropower Water Activity Enterprise a government -business owned by the Northern Colorado Water Conservancy District is applying for a loan for the construction of the Granby Hydropower Project. The Project is located at the existing Colorado - Big Thompson Project Granby Dam and will utilize the existing releases to the Colorado River without changing the flow regime.

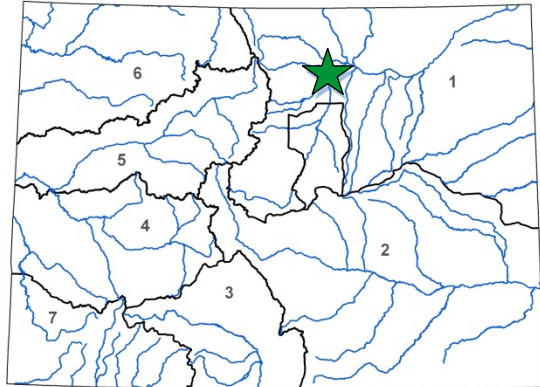
The hydro station will use the minimum streamflow obligations and a portion of additional releases to generate power through a 1.2-megawatt facility. The Project is being performed under the U.S. Bureau of Reclamation's Lease of Power Privilege (LOPP) process. Power generated will be purchased by Mountain Parks Electric, Inc. per a 30-year Power Purchase Agreement (PPA). The anticipated Project schedule is to finalize the LOPP and PPA by end of 2014. Construction will occur in the summer/fall of 2015 and is expected to be operational by the summer of 2016.



Lake Granby Tunnel Outlet

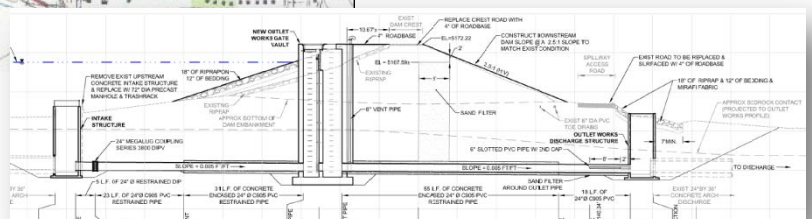
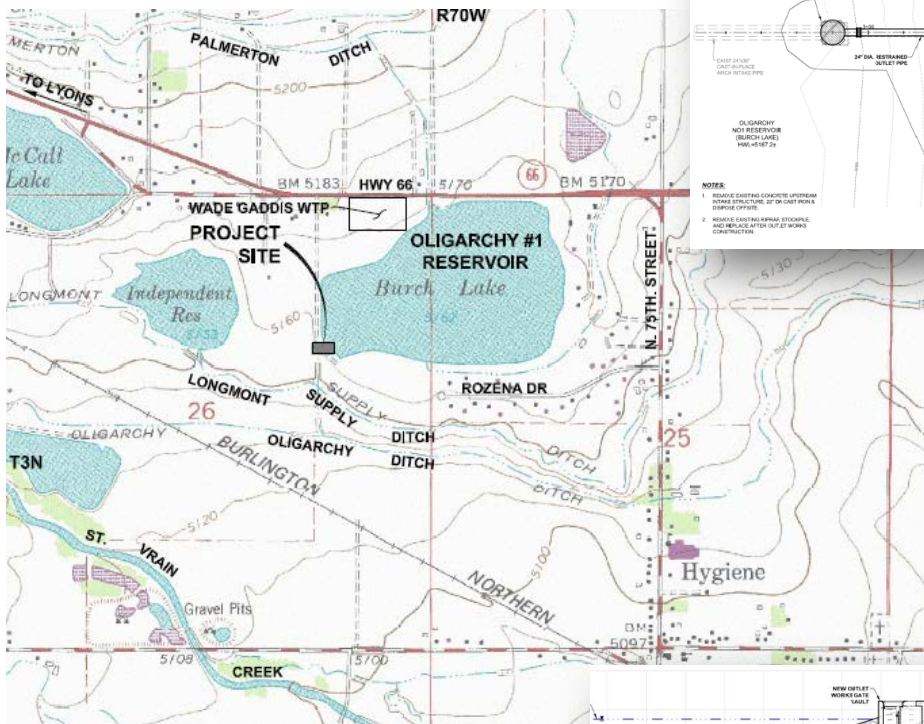
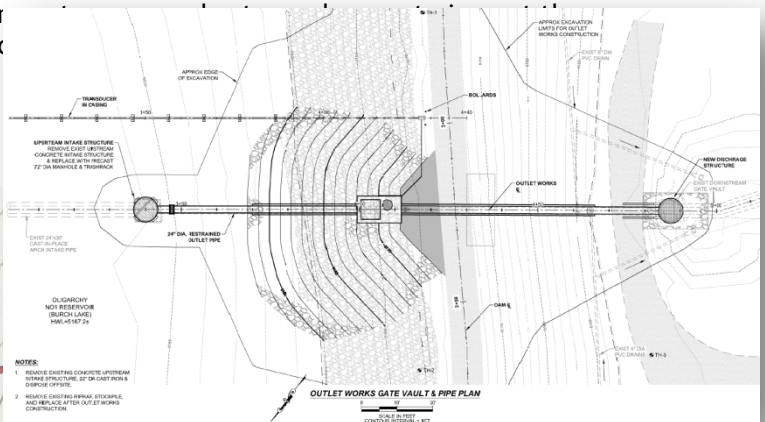


LOAN DETAILS	
Project Cost:	\$860,000
CWCB Loan (with Service Fee):	\$781,740
Loan Term and Interest Rate:	30 Years @ 2.40%
Funding Source:	Construction Fund
BORROWER TYPE	
Agriculture	Municipal (TBD)
25.4%	0% Low - 74.6% Mid - 0% High
Commercial	0%
PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average Annual Delivery:	7,966 AF
Water Supply Storage Preserved:	1,737 AF



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

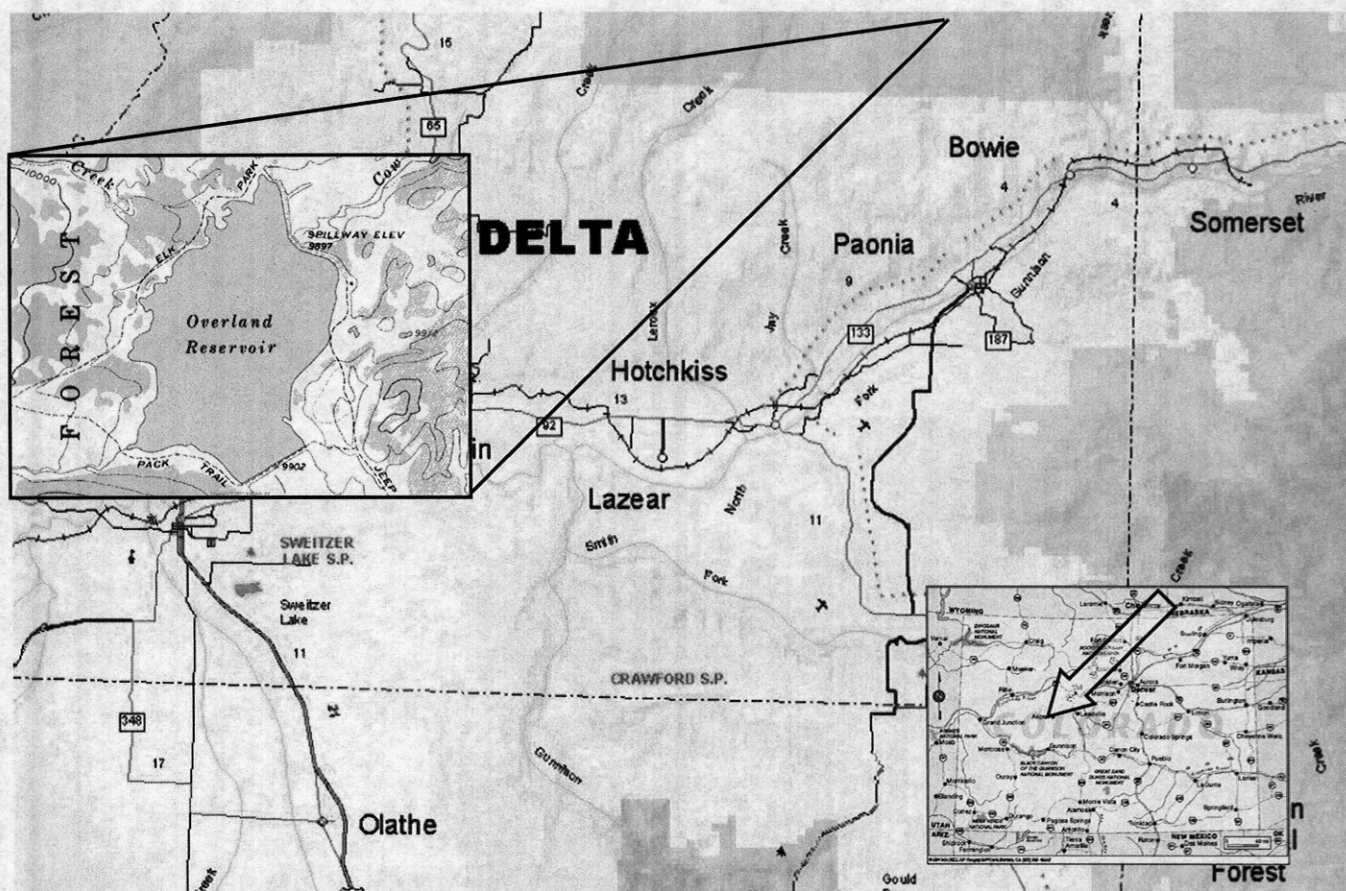
The Oligarchy Irrigation Company owns and operates the Oligarchy #1 Dam and Reservoir, also known as Burch Lake. The reservoir stores 1,737 acre-feet of water and is classified as a significant hazard dam by the Office of the State Engineer (SEO). The purpose of the project is to rehabilitate the Oligarchy Reservoir No.1 dam outlet works to include a new unpressurized outlet pipe, an outlet works system. Construction is expected to occur



CWCB Construction Loan Program Project Data Sheet

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

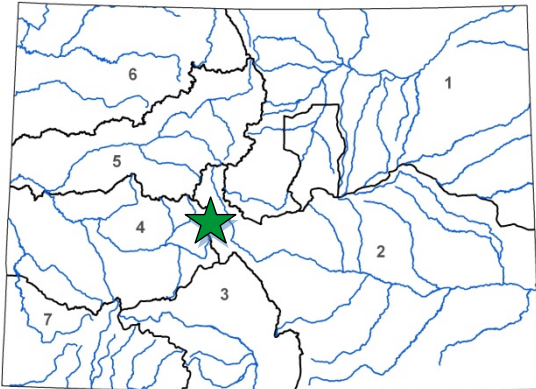
The Overland Reservoir Company is a non-profit mutual ditch company established in the State of Colorado in 1895. The Company owns and operates the Overland Reservoir for the 120 shareholders and delivers an average of 17,000 AF of irrigation water annually. The Reservoir is located in Delta County in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



LOCATION MAP



L O A N D E T A I L S	
Project Cost:	\$533,430
CWCB Loan (with Service Fee):	\$181,800
Loan Term and Interest Rate:	10 Years @ 1.95%
Funding Source:	WSRA & Sev. Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Municipal & Industrial
Average Annual Delivery:	1,500 AF



L O C A T I O N	
County:	Lake
Water Source:	Evans Gulch
Drainage Basin:	Arkansas River
Division:	2
District:	11

The Evans Reservoir Bypass Flume, constructed around 1904, is a wooden trough measuring 6' x 5' x 450', including inlet and outlet structures. The flume carries Evans Creek contaminated water around Evans Reservoir and through the dam.

Annual maintenance of the wooden structure has required increasingly heavy efforts and expense. Heavy runoff events in the last several years have caused the condition of the flume to become an extremely urgent situation. 8,000 acres of deep snow must be channeled through the flume during spring runoff each year. In the spring of 2014, sudden runoff combined with spring rains resulting in an unusually high snow melt. The flume was nearly overwhelmed and the portion that passes over the abutment of the dam failed. Fairly serious 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. The State Engineer's Office has strongly recommended that the flume be replaced. This project proposes a buried pipeline to replace the flume. Concrete inlet and outlet structures will be constructed, and a trash rack will be installed at the inlet.

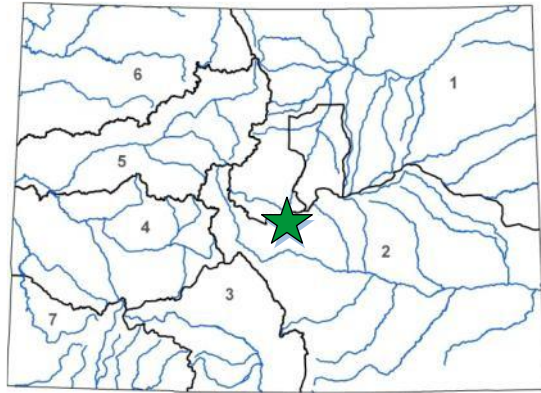
The two primary objectives of the project are to protect water quality for the City of Leadville, and to prevent failure of the Evans Reservoir dam.





(Loan Increase)

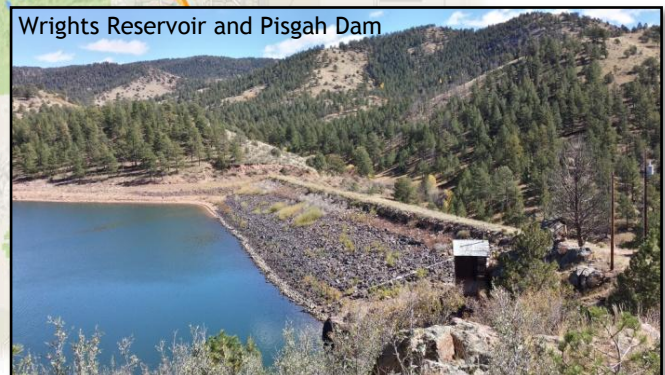
L O A N D E T A I L S	
Project Cost:	\$745,000
CWCB Loan (with Service Fee):	\$549,091
Loan Term and Interest Rate:	30 Years @ 1.75%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
93%	7% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Diversion:	86,000 AF
Water Supply Storage Preserved:	2,192 AF



L O C A T I O N	
County:	Teller
Water Source:	Fourmile Creek
Drainage Basin:	Arkansas
Division: 2	District: 12

The Pisgah Reservoir and Ditch Company provides raw water for the irrigation of approximately 20,000 acres of agricultural land across an 18 mile stretch from Manzanola to La Junta. Primary shareholders include Catlin Canal Company, Canon Heights Irrigation and Reservoir Company, Park Center Water District, City of Rocky Ford, Colorado Parks and Wildlife, and individual agricultural users.

The Company was approved for a \$161,345 loan and a \$161,345 WSRA grant at the September 2012 CWCB Board Meeting to modify the operational inlet and outlet works and replace existing control valves on Pisgah Dam, in compliance with an SEO conditional order. During final engineering, construction costs were found to have increased and additional remedial abandonment work on the outlet originally abandoned in 1929 was added to the Project's Scope of Work. With these changes, the cost estimate has risen from \$362,875 to \$745,000. The Company is seeking to cover this cost increase with an increase to its approved loan. Construction is scheduled for 2015.



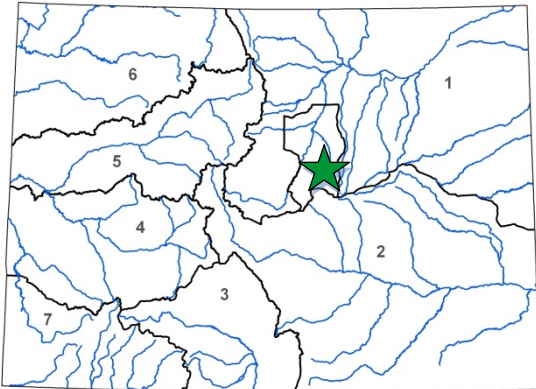


Raw Water Supply Project

Plum Valley Heights Subdistrict of the Roxborough Water and Sanitation District

May 2015 Board Meeting

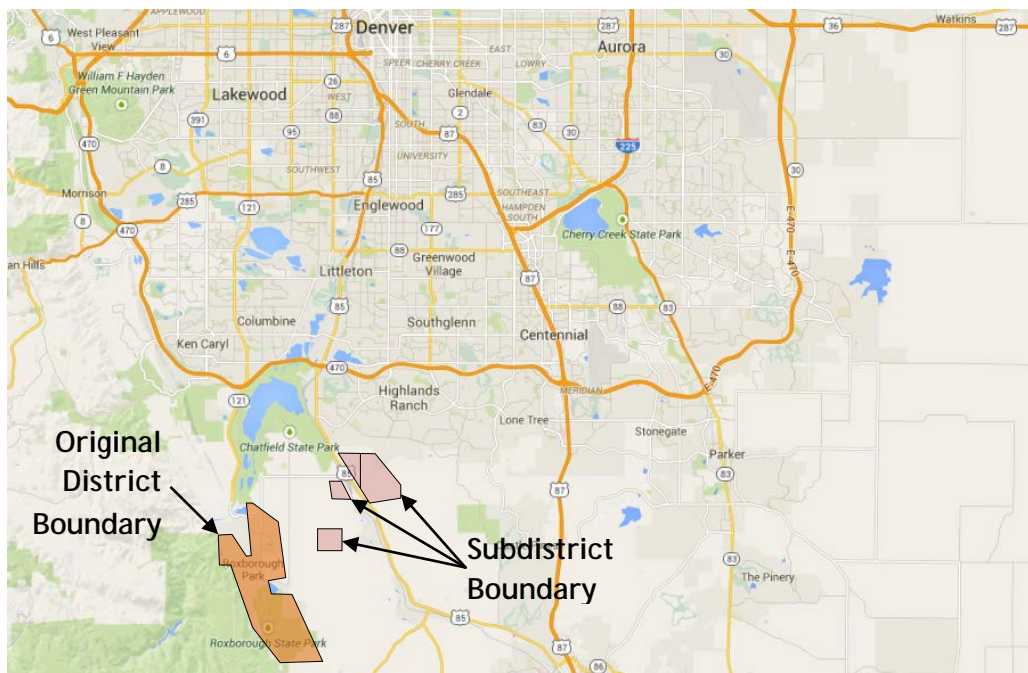
L O A N D E T A I L S	
Project Cost:	\$2,473,605
CWCB Loan (with Service Fee):	\$2,248,260
Loan Term and Interest Rate:	30 Years @ 3.05%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	0% Low - 0% Mid - 100% High
	Commercial
	0%
P R O J E C T D E T A I L S	
Project Type:	Water Rights Purchase
Average Annual Delivery:	150 AF



L O C A T I O N	
County:	Douglas
Water Source:	South Platte River
Drainage Basin:	South Platte
Division:	1
District:	8

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 WSR grant, CWRPDA loan, and Douglas County. The total project cost (including infrastructure) is approximately \$14.9M. The CWCB loan will finance 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 aquifers. Water levels in the Denver Basin aquifers are declining, particularly in the margins of the aquifers 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 has 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.



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

C150400

Borrower: The Prairie Ditch Company

County: Rio Grande

Project Name: Plaza Project Phase 3:
Prairie Ditch Implementation Project

Project Type: Ditch Rehabilitation

Drainage Basin/ District: Rio Grande / 20

Water Source: Rio Grande River

Total Project Cost: \$975,000

Funding Source: Construction Fund,
WSRA Grants

Type of Borrower: Agricultural

Average Annual Diversion: 16,000 AF

CWCB Loan: \$131,300
(with 1% service fee)

Interest Rate: 1.25% **Term:** 10-years

The Prairie Ditch Company is a Mutual Ditch Company formed in 1887. The Prairie Ditch diversion structure and headgate is located seven miles northwest of Monte Vista, Colorado on the Rio Grande River and has a service area of approximately 23,000 acres. The diversion and headgates were constructed in the early 1900s and was most recently reworked in 1962. They are now deteriorating, presenting a growing concern the diversion structure may soon completely wash out. Both the diversion and headgate were highlighted as river rehabilitation priorities in a 2001 study titled "Rio Grande Headwaters Restoration Project." The study analyzed the condition of riparian habitats and structures along a 91-mile reach of the Rio Grande from the town of South Fork to Alamosa and triggered a more localized effort known as the Plaza Project.

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 WSRA grant. Phase 3 is the second implementation project and the subject of this loan request. 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. Construction is expected to occur fall 2014.



Water Project Loan Program - Project Data

Borrower: Riverside Ditch & Allen Extension Co.

County: Chaffee

Project Name: Phased Canal Improvements

Project Type: Ditch Rehabilitation

Drainage Basin: Arkansas

Water Source: Arkansas River

Total Project Cost: \$205,000

Funding Source: Construction Fund

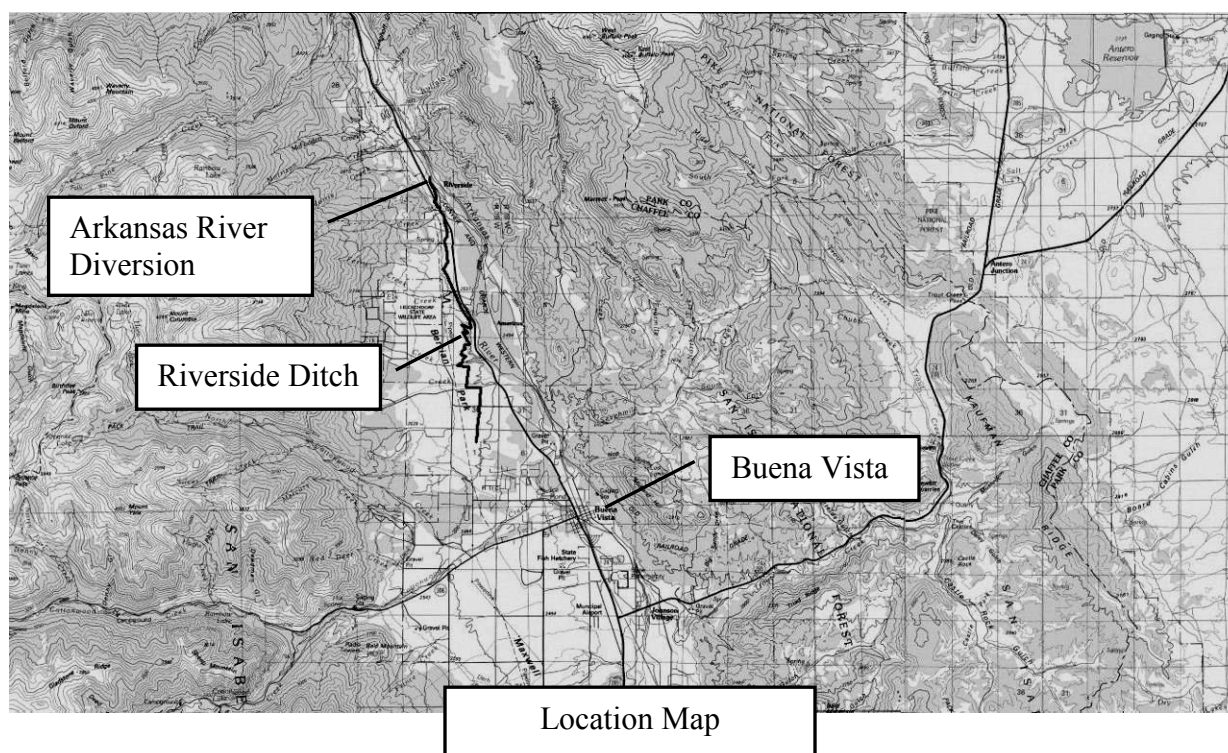
Type of Borrower: Agricultural

Average Diversion: 3,250 acre-feet

CWCB Loan: \$186,345 (Including 1% fee)

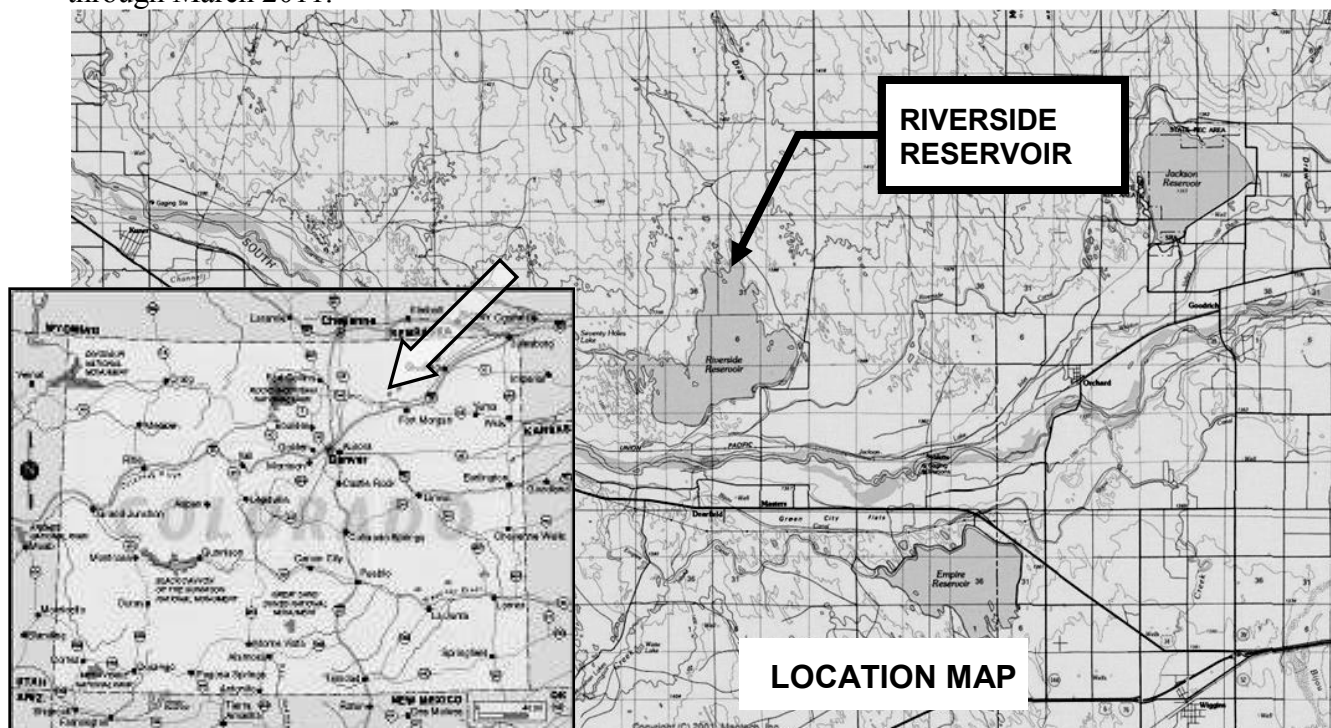
Interest Rate: 2.75% **Term:** 30 years

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.



Water Project Loan Program - Project Data Sheet

Borrower: San Luis Valley Water Conservancy District **County:** Alamosa

Project Name: Anaconda Ditch Water Right Acquisition **Project Type:** Water Rights

Drainage Basin / District: Rio Grande / 20

Water Source: Rio Grande River

Total Project Cost: \$923,000

Funding Sources: Construction Fund

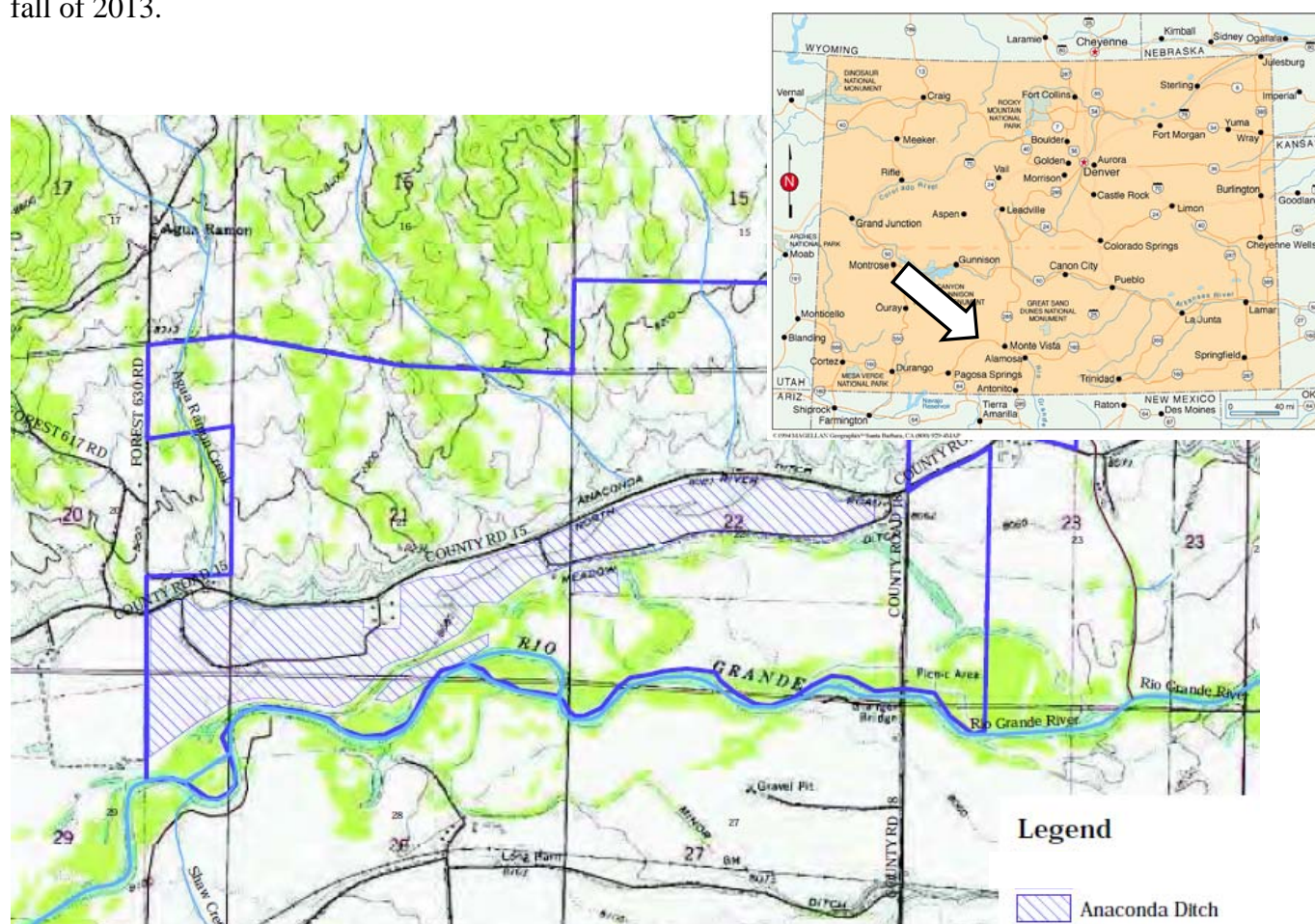
Type of Borrower: Municipal Low Income

Average Delivery: 386 acre-feet

CWCB Loan: \$839,000 (Including 1% fee)

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

The San Luis Valley Water Conservancy District (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. The District intends to acquire additional water rights to add to its existing program, including the subject of this loan request, the Anaconda Ditch water rights. The District is purchasing a 58% interest in the ditch providing an estimated 260 acre-feet. The purchase will be finalized once the water rights have been through water court. The decree is expected in the fall of 2013.



CWCB Construction Loan Program Project Data Sheet

Borrower: Sanchez Ditch and Reservoir Co.

County: Costilla

Project Name: Sanchez Reservoir Outlet
Rehabilitation Project

Project Type: Dam Rehabilitation

Basin / District: Rio Grande / 24

Water Source(s): Ventero Creek

Total Project Cost: \$2,032,000

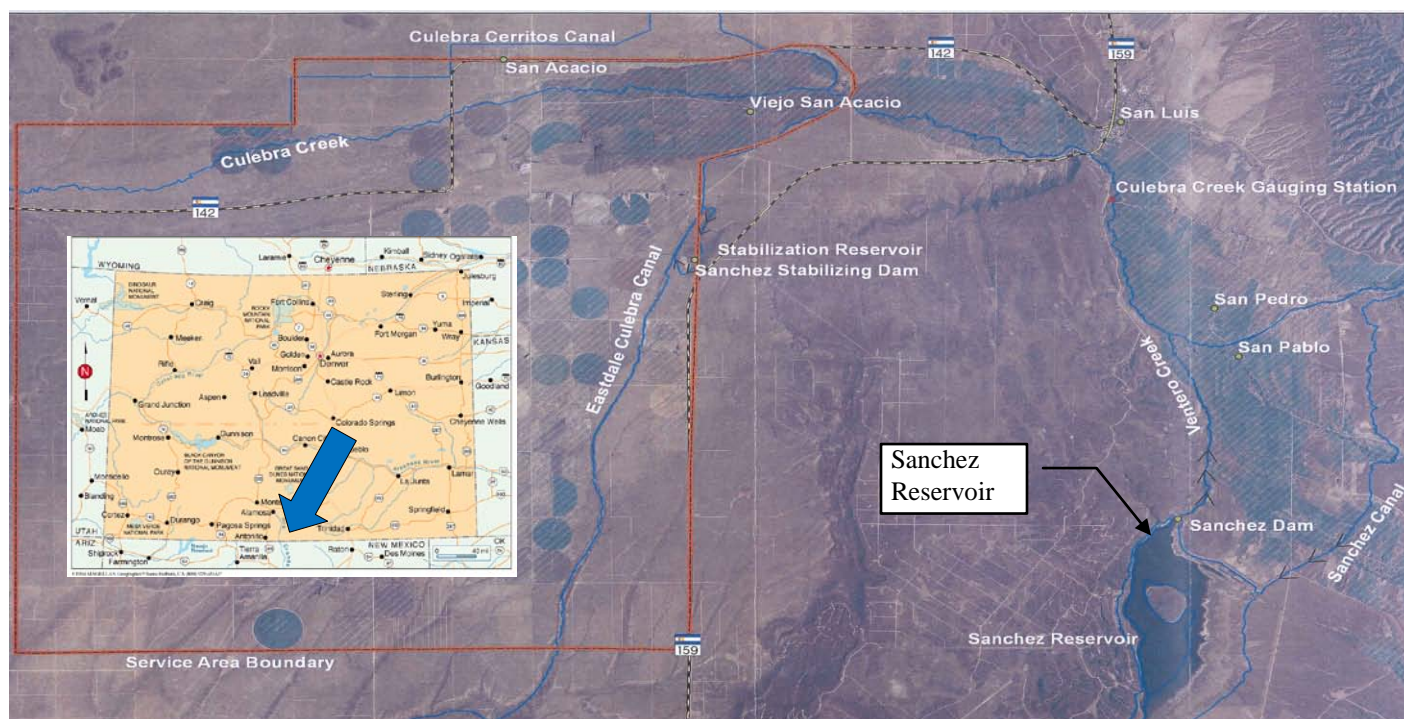
Funding Sources: Construction Fund &
WSRA (Basin & Statewide funds)

Type of Borrower: Agricultural

Average Diversions: 15,000 AF

Loan Amount: \$1,128,776 (Including 1% fee) **Interest Rate:** 1.75% **Term:** 30 years
WSRA Grant Amounts: \$55,000 Rio Grande Basin & \$859,400 Statewide

The Company provides irrigation water for users in Costilla County, southwest of the town of San Luis. The Company's primary storage reservoir is Sanchez Reservoir. The approximately 104,000 acre-foot reservoir was built in 1910. The reservoir's outlet includes a 135 foot tall concrete gate tower. In order to access the gates to operate the dam, a tramway/gondola runs along a cable and is powered by a portable gasoline generator. Because daily access to the tower is required during irrigation season, the reliability and safety of the gondola system has been a concern of the Company. Using loan and grant funds, the Company intends to address the safety and operational management concerns at the reservoir through the demolition of the gate tower; the installation of new control gates and operators; lining the existing outlet conduit with shotcrete; 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 between January 2013 and January 2014; bid the project in May of 2014; award the bid by June of 2014; start construction in September of 2014; complete construction by March of 2015.



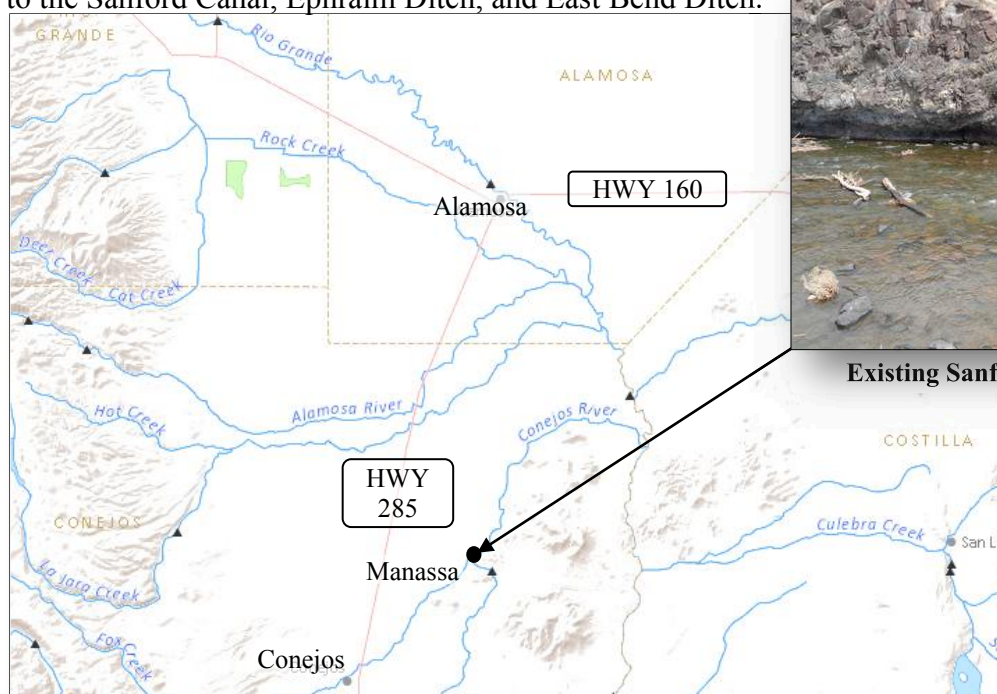
CWCW Water Project Loan Program
Project Data Sheet

C150401

Borrower: The Sanford Canal Company**County:** Rio Grande**Project Name:** Sanford Diversion and
Headgate Rehabilitation**Project Type:** Ditch Rehabilitation**Drainage Basin/ District:** Rio Grande / 22**Water Source:** Conejos River**Total Project Cost:** \$213,000**Funding Source:** Construction Fund,
WSRA Grants**Type of Borrower:** Agricultural**Average Annual Diversion:** 4,000 AF**CWCW Loan:** \$101,000
(with 1% service fee)**Interest Rate:** 1.75% **Term:** 30-years

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 is 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 has been washed away over time, contributing to decades of limited diversion to irrigators and potential over payment to the Compact. Currently irrigators divert their water right by piling debris such as tree trunks or cinderblocks to act as the diversion dam. This Project will remove and replace the diversion and headgate structures and install automated headgates and four gauging stations. Construction is expected to start by September 2014.

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 will extend this whole river strategy to the Confluence, specifically to the Sanford Canal, Ephraim Ditch, and East Bend Ditch.



Existing Sanford Ditch Diversion

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

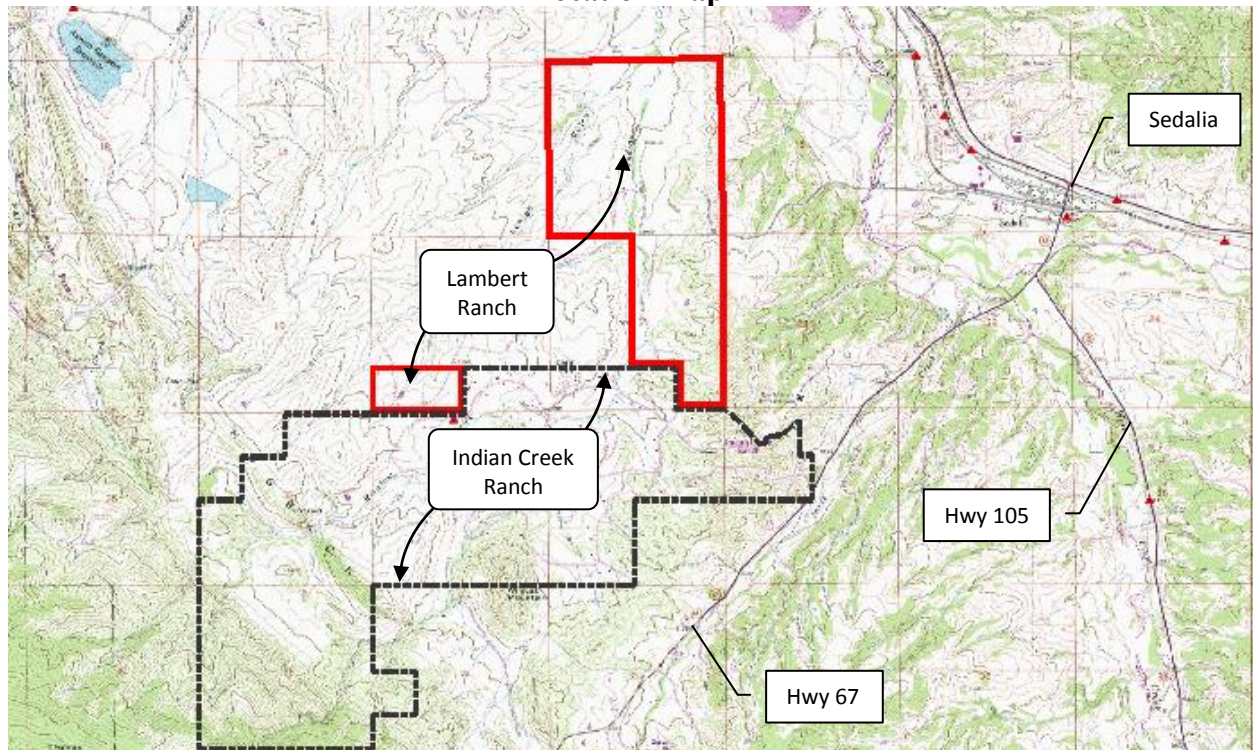
Avg. Annual Delivery: 55 AF

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.

Location Map

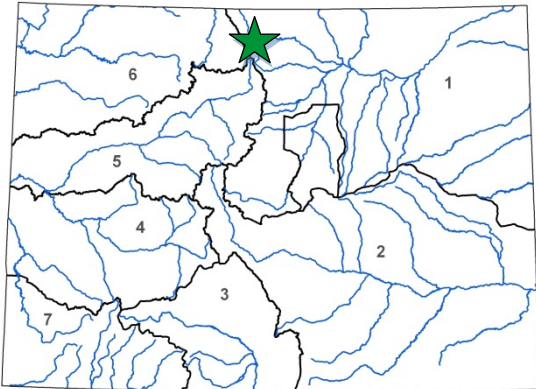




Laramie-Poudre Tunnel Rehabilitation

The Tunnel Water Company
September 2015 Board Meeting

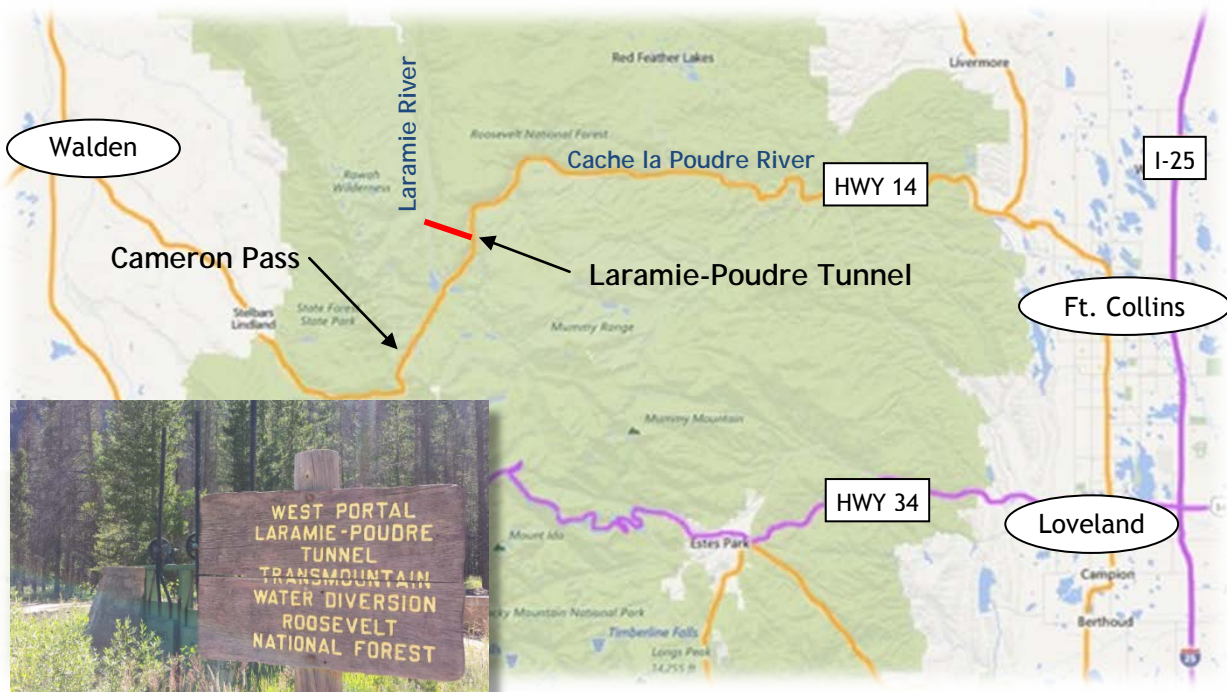
L O A N D E T A I L S	
Project Cost:	\$1,225,000
CWCB Loan (with Service Fee):	\$1,111,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
24%	20% Low - 24% Mid - 32% High 0%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	6,875 AF



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

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

The Company purchased the Laramie Poudre Tunnel and its adjoining Laramie River System in 1938. The west portal (inlet) has deteriorated since it was originally constructed in 1910. The interior timber cribbing and concrete lining are at or near the end of their useful lives and the steepness of the slope of this section makes it very difficult to access the tunnel for maintenance. Additionally the east portal's (outlet) concrete energy attenuation structure, which has been resurfaced many times before, is heavily spalled and near failure. The Company is seeking this CWCB loan to cover 90% of construction cost associated with the west and east portal repairs. West portal repairs will occur after the 2015 irrigation season with the east portal repairs being completed after the 2016 irrigation season.



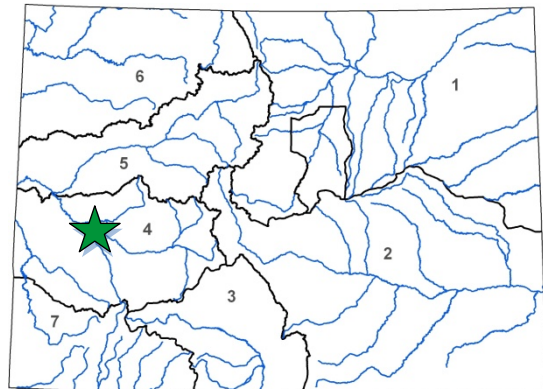


Drop 5 Hydroelectric Project

Uncompahgre Valley Water Users Association

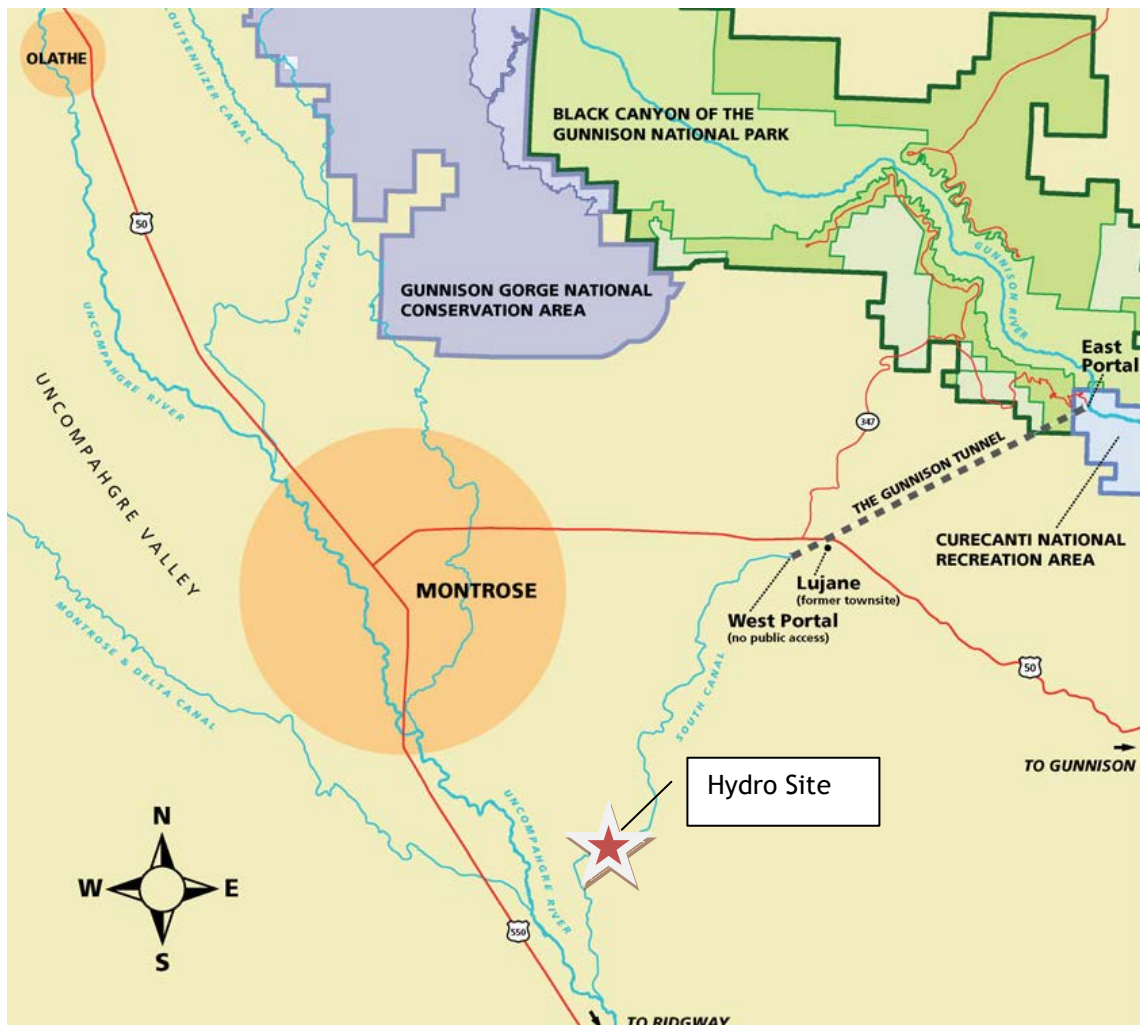
May 2015 Board Meeting

L O A N D E T A I L S	
Project Cost:	\$7,700,000
CWCB Loan (with Service Fee):	\$6,999,300
Loan Term and Interest Rate:	20-years @ 2.0%
Funding Source:	Severence Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agricultural	
P R O J E C T D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production	2.2 MW



L O C A T I O N	
County:	Montrose & Delta
Water Source:	Gunnison River
Drainage Basin:	Gunnison
Division:	4
District:	41

The Uncompahgre Valley Water Users Association provides irrigation water to over 85,000 acres in Montrose and Delta Counties. It intends to develop a 2.2 MW hydroelectric project known at the Drop 5 Hydroelectric Project alongside an existing canal. The existing canal will be used as a by-pass during non-power generation times. The power will be sold to Delta Montrose Electric Association and will be used locally. Power production is anticipated by summer of 2016.

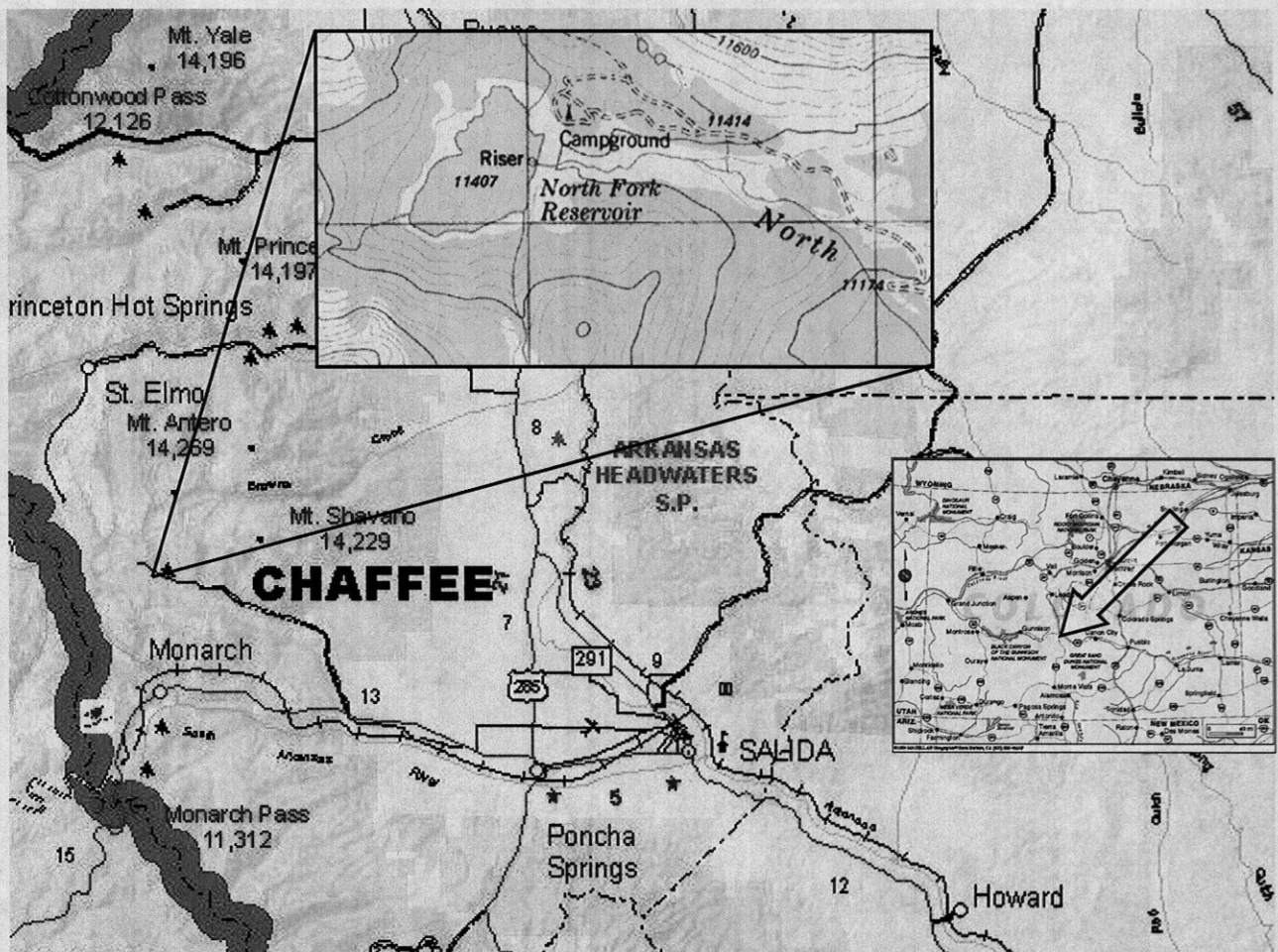


**CWCB Construction Loan Program
PROJECT DATA SHEET**

Loan Program
Attachment 3

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

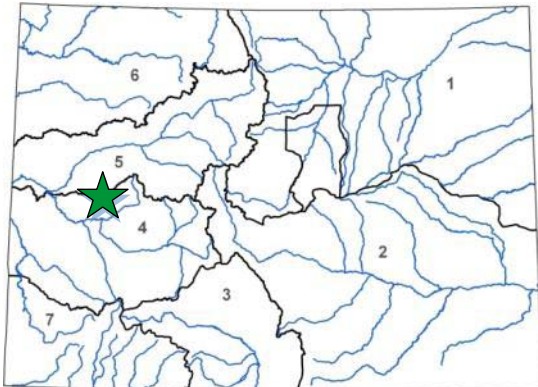
The Upper Arkansas Water Conservancy District is located in Salida, Colorado, and serves to protect and develop water supplies in Chaffee, Western Fremont and Custer Counties. The District has operated the North Fork Reservoir since 1979 for domestic, municipal, industrial, recreational and augmentation 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



L O A N D E T A I L S		
Project Cost:		\$ 471,577
CWCB Loan (with Service Fee):		\$248,378
Loan Term and Interest Rate:		30 Years @ 2%
Funding Source:		
B O R R O W E R T Y P E		
Agriculture	Municipal	Commercial
100%	0%	0%
P R O J E C T D E T A I L S		
Project Type:		Outlet Rehabilitation
Average Annual Diversion:		604 AF



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

The West Reservoir and Ditch Company operates West Reservoir No. 1, providing water seven miles eastward via Wakefield Ditch to Wakefield Mesa. The water is available for livestock as it traverses east Oak Mesa, and irrigates approximately 600 acres of hay and pasture. The current landowners use the Oak Mesa Reservoir and Ditch water for spring irrigation, and, when those flows are exhausted, use the West Reservoir flows for mid-summer to fall irrigation. The West Reservoir was improved in the early 1950s, but is now under a storage restriction order from the Office of the State Engineer due to deterioration of the outlet pipe. This project will include 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 is scheduled for Spring of 2015.



CWCB Water Project Loan Program Project Data Sheet

C150366

Borrower: Town of Windsor Water Enterprise

County: Larimer/Weld

Project Name: Kyger Reservoir Project

Project Type: Reservoir Construction

Drainage Basin/ District: South Platte / 3

Water Source: Cache la Poudre River

Total Project Cost: \$6,300,000

Funding Source: Construction Fund

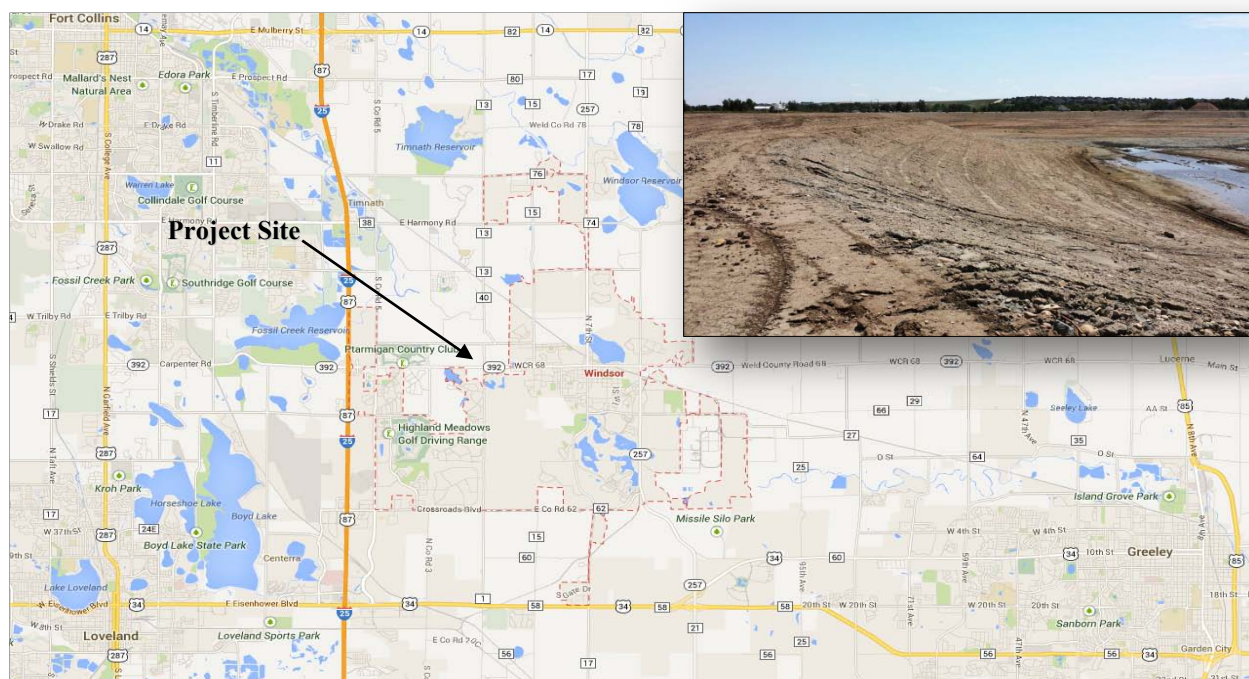
Type of Borrower: Municipal (High)

Average Annual Delivery: 2035 AF

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

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

The Town of Windsor was incorporated in 1890 and adopted its Home Rule Charter in 2003. The Town has seen tremendous growth over the last decade and has a current population of approximately 18,700 people. The Town's Water Activity Enterprise was created by a Town Ordinance in 1994 and serves 5,604 taps. The Enterprise revenues come from water usage fees. The average water bill is \$45 per month. The purpose of this project is to provide the Town new water storage to help meet their current and future non-potable and augmentation water needs. This CWCB loan will go towards the purchase of the Kyger reservoir, the design and construction of the reservoir infrastructure, and the purchase of water rights.



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

C150408

Borrower: Cottonwood Water & Sanitation District

County: Douglas & Arapahoe

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

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: \$4,960,000

Funding Source: Construction Fund

Type of Borrower: High-Income Municipal

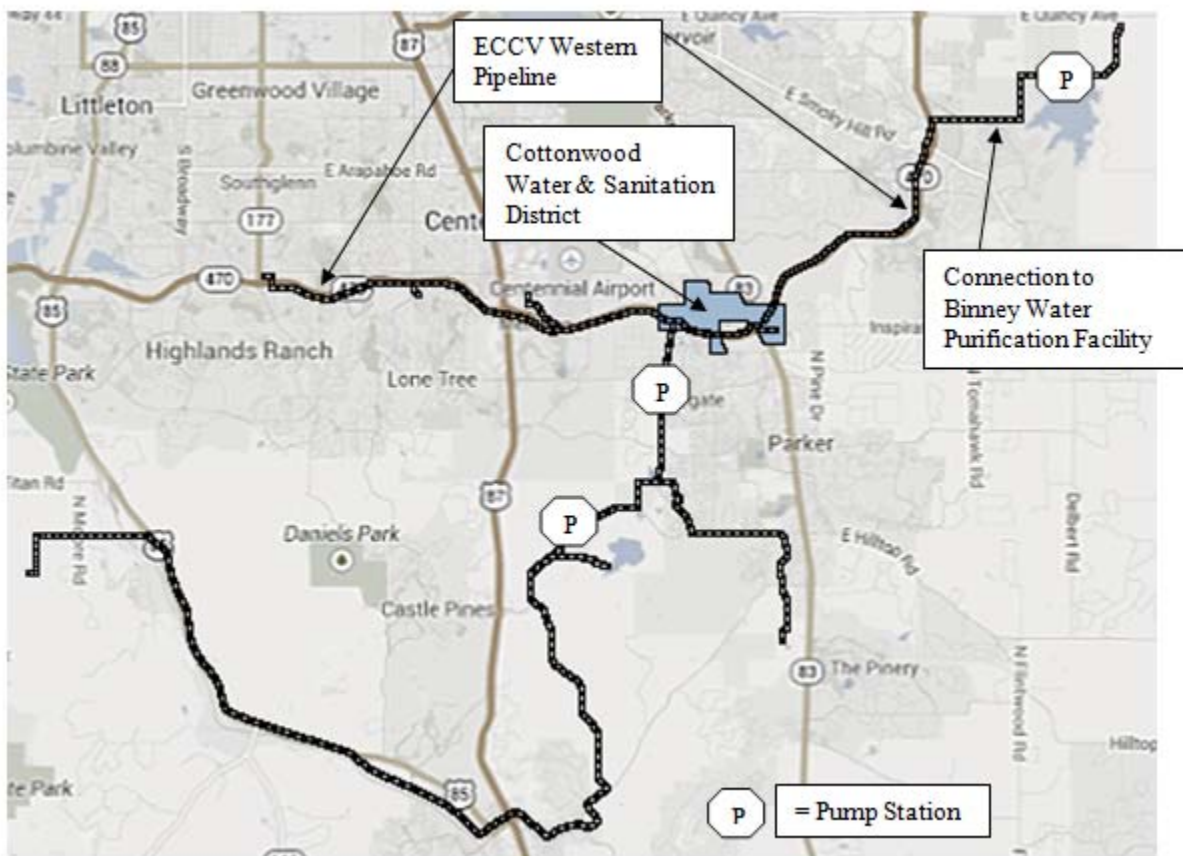
Average Annual Delivery: 789 AF

CWCB Loan: \$4,508,640 (with 1% service fee) **Interest Rate:** 3.00% **Term:** 30 years

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

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

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



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

C150409

Borrower: Inverness Water & Sanitation District

County: Douglas & Arapahoe

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

Project Type: New Water Supply

Drainage Basin/ District: South Platte / 8

Water Source: South Platte

Total Project Cost: \$5,400,000

Funding Source: Construction Fund

Type of Borrower: High-Income Municipal

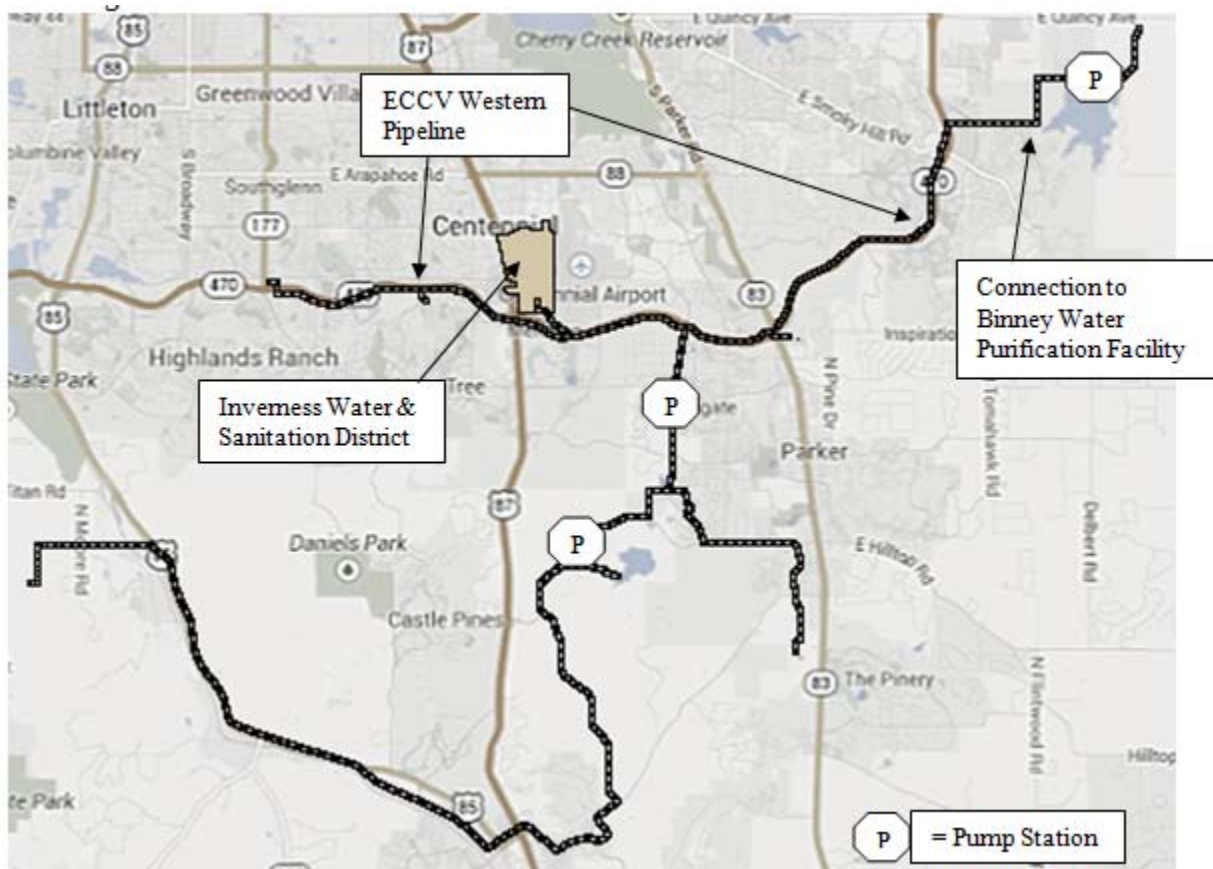
Average Annual Delivery: 1,100 AF

CWCB Loan: \$4,908,600 (with 1% service fee) **Interest Rate:** 2.75% **Term:** 20 years

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

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

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



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

C150410

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

Project Name: Water Infrastructure and Supply (WISE) Efficiency Project **Project Type:** New Water Supply

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

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

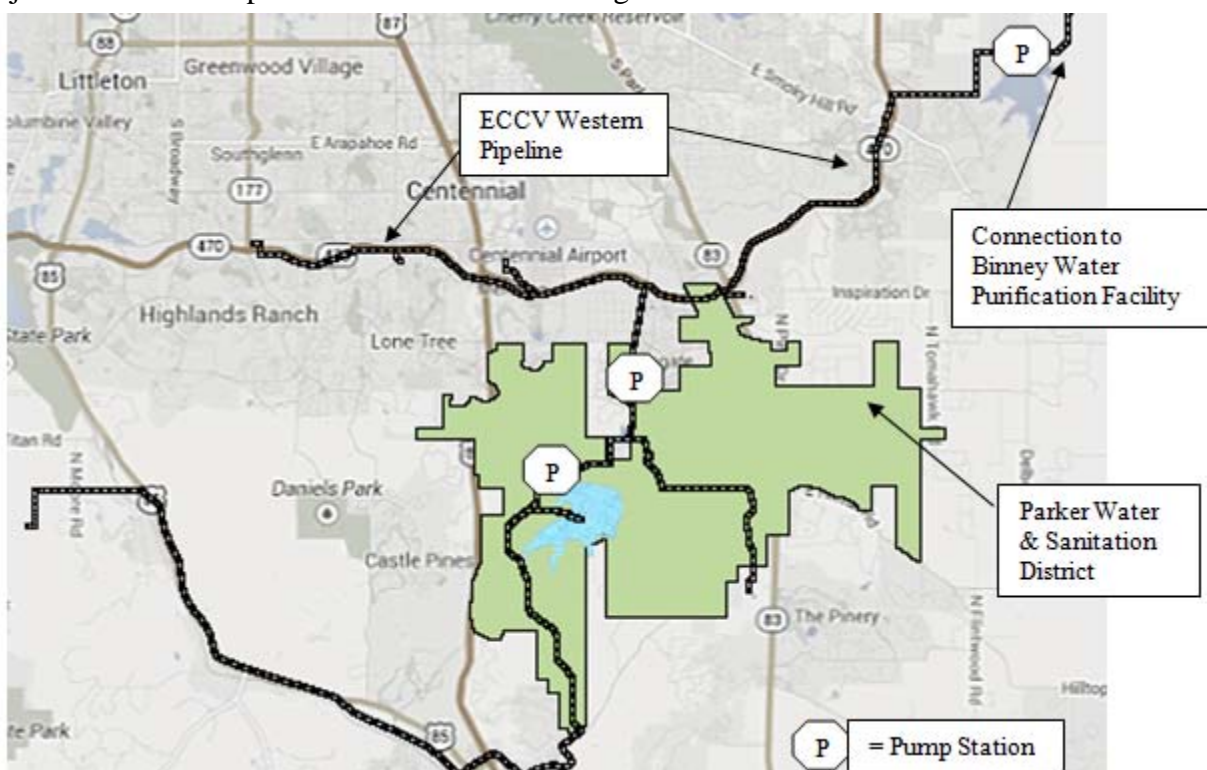
Type of Borrower: High-income Municipal **Average Annual Delivery:** 5,000 AF

CWCB Loan: \$15,734,790 (with 1% service fee) **Interest Rate:** 2.75% **Term:** 20 years

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

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

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



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

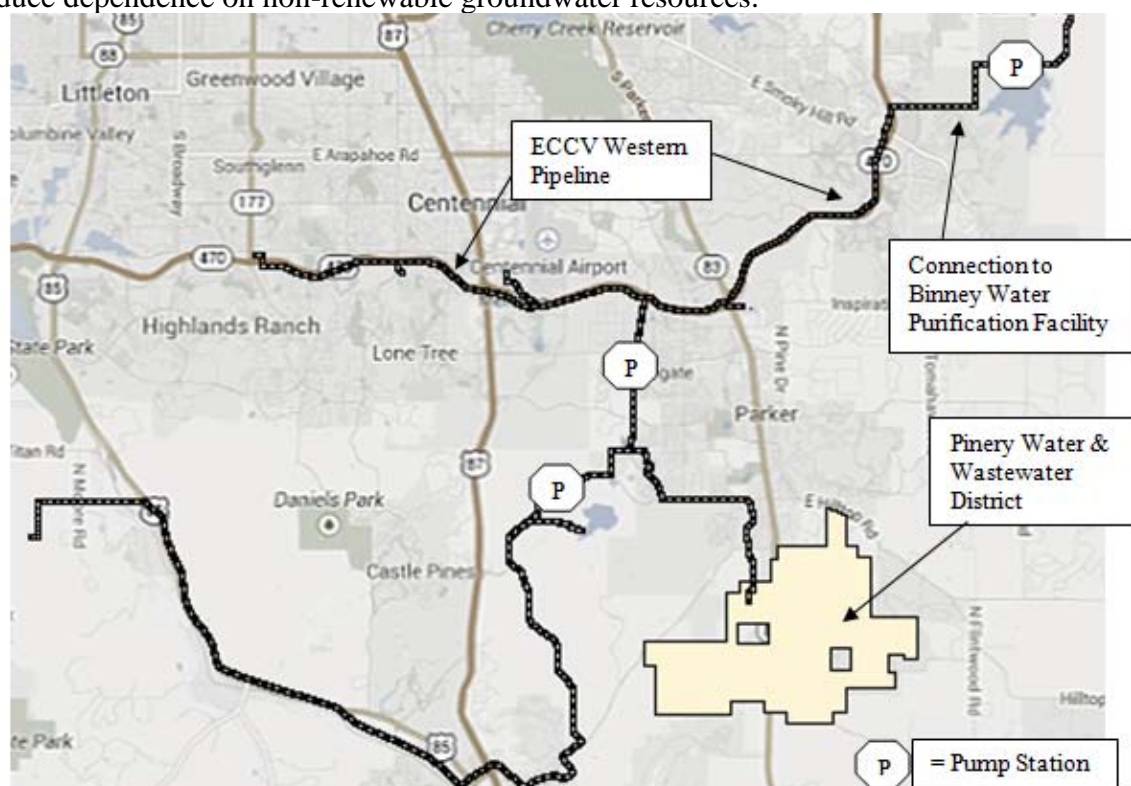
C150411

Borrower: Denver Southeast Suburban Water and Sanitation District (dba Pinery Water and Wastewater District)	County: Douglas
Project Name: Water Infrastructure and Supply (WISE) Efficiency Project	Project Type: New Water Supply
Drainage Basin/ District: South Platte / 8	Water Source: South Platte
Total Project Cost: \$10,920,000	Funding Source: Construction Fund
Type of Borrower: High-income Municipal	Average Annual Delivery: 2,837 AF
CWCB Loan: \$9,926,280 (with 1% service fee)	Interest Rate: 3.00% Term: 30 years

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

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

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



Projects Not Under Contract

Water Project Construction Loan Program - Project Data

Borrower: SECWCD - Enterprise

County: Pueblo, Crowley, Otero, Bent, Prowers

Project Name: Arkansas Valley Conduit

Project Type: Water Supply Pipeline

Drainage Basin: Arkansas

Water Source: Arkansas – Fry-Ark Project

Total Project Cost: \$300,000,000

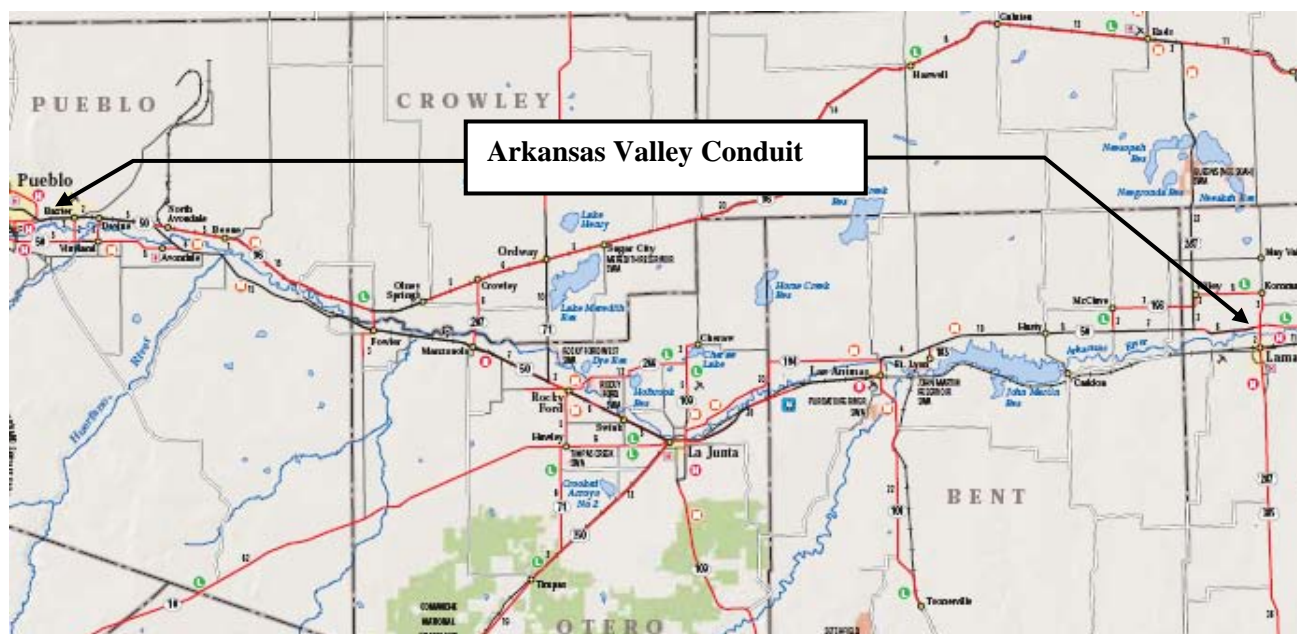
Funding Sources: CWCB, Federal

Type of Borrower: Municipal/Low

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

CWCB Construction Fund Loan: \$60,600,000 **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



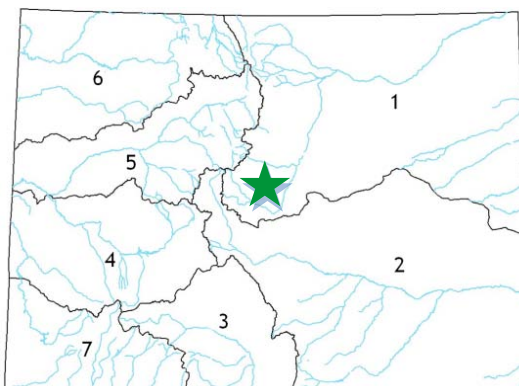
Water Project Loan Program
Project Data Sheet

Rehabilitation and Replacement of Water Meters

Bow Mar Water & Sanitation District

March 2015 Board Meeting

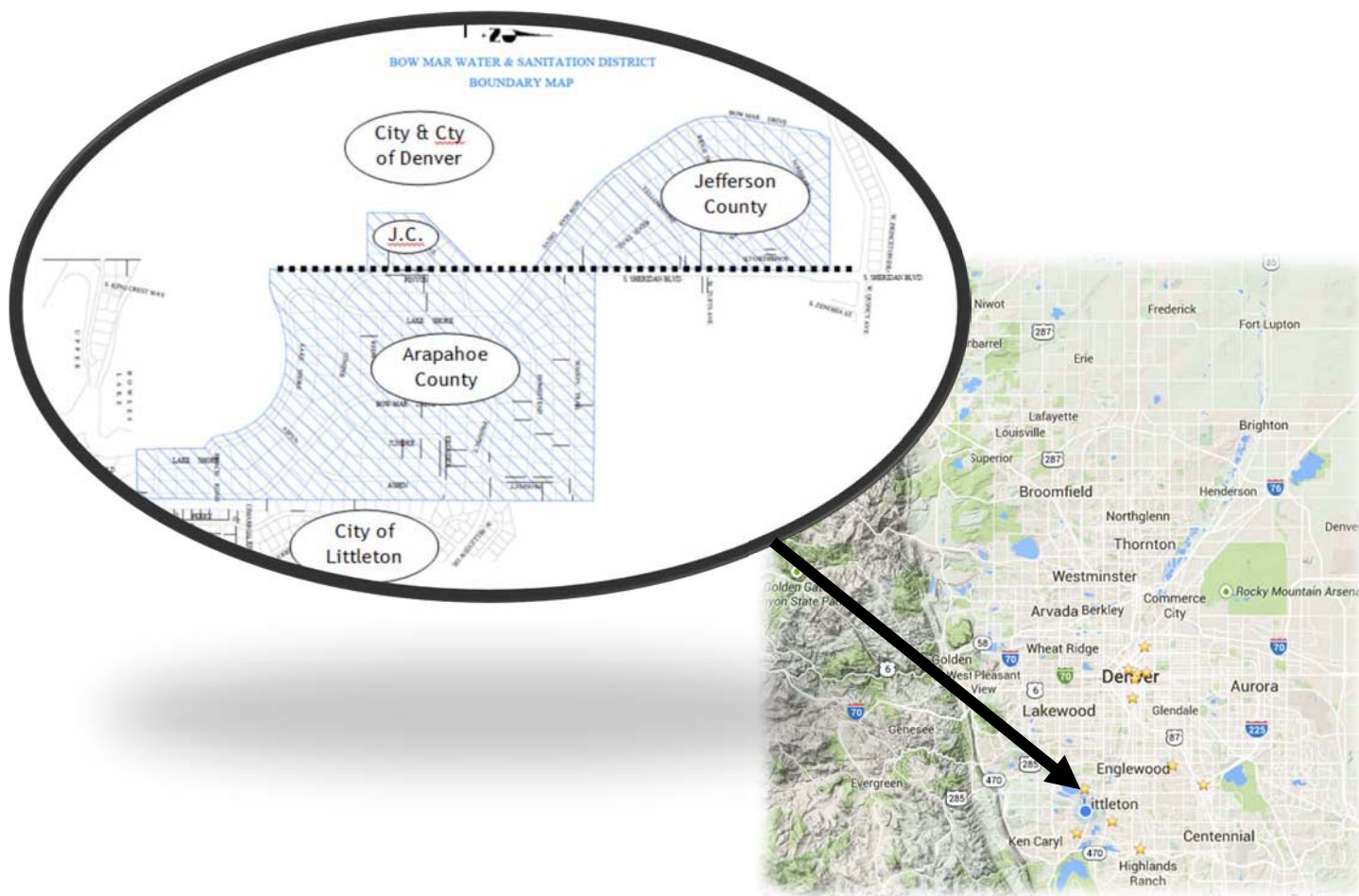
L O A N D E T A I L S	
Project Cost:	\$366,102
CWCB Loan (with Service Fee):	\$332,795
Loan Term and Interest Rate:	10 Years @ 2.65%
Funding Source:	Construction Fund
Agriculture	Municipal
0%	0% Low 0% Mid 100% High 0%
P R O J E C T S U M M A R Y	
Project Type:	Municipal Water
Residential Customers	293
Annual Water Use	338 Acre-Feet



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

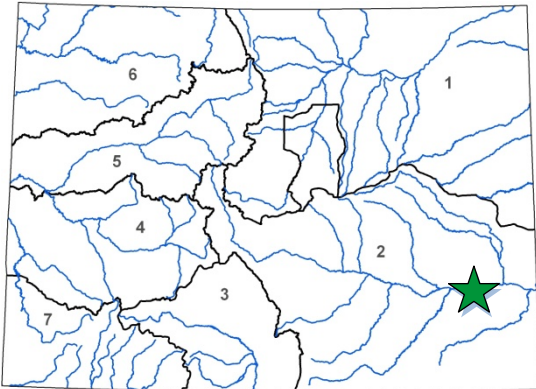
L O C A T I O N	
County:	Arapahoe & Jefferson
Water Source:	Denver Water (Master Meter)
Drainage Basin:	Metro
Division:	1 District: 9

The purpose of the project is to replace or rehabilitate the existing meters, which currently under-report actual usage due to age and wear. The meter replacement/rehabilitation program will replace 233 meters, rehabilitate 60 existing meters by replacing the meter register to accommodate automatic meter reading, and update the District's billing system to accommodate automatic meter reading.



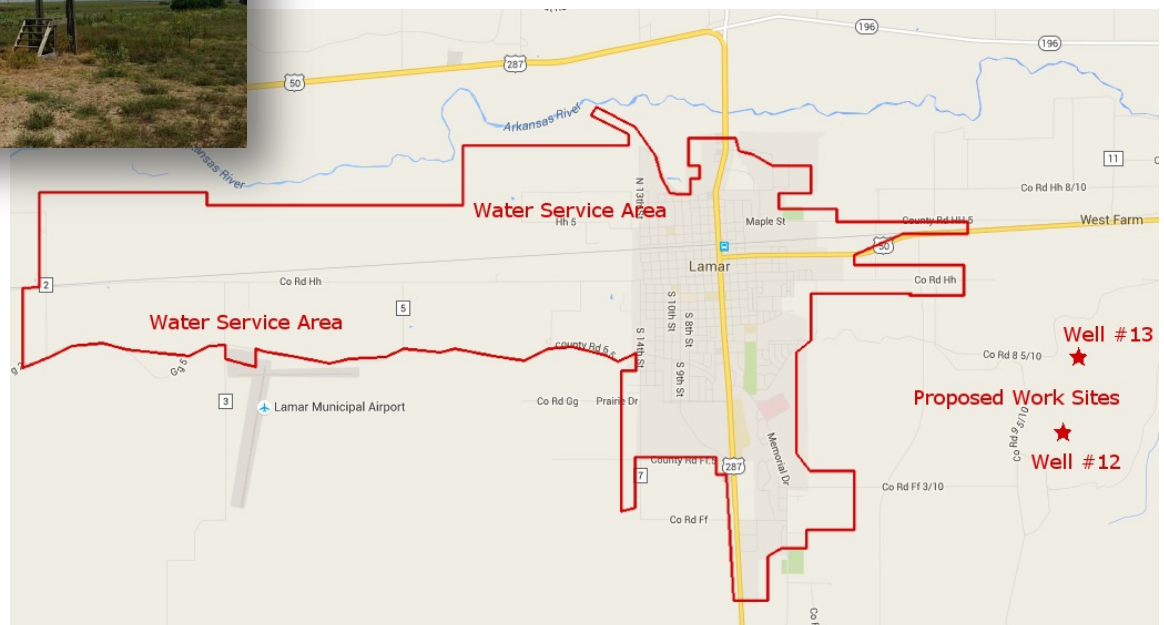


L O A N D E T A I L S	
Project Cost:	\$400,000
CWCB Loan (with Service Fee):	\$101,000
Loan Term and Interest Rate:	10 Years @ 1.95%
Funding Source:	WSRA & Sev. Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
0%	100% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I L S	
Project Type:	Municipal & Industrial
Average Annual Delivery:	2,005 AF



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

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



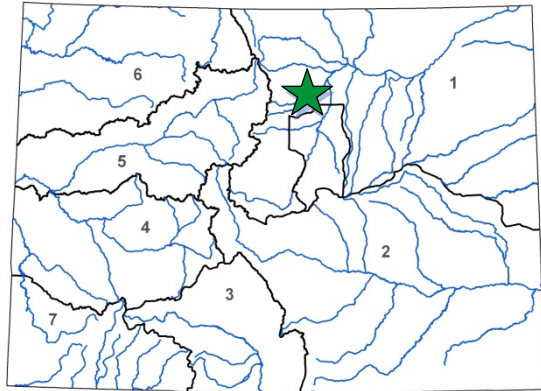


Lake McIntosh Outlet Works Repair

Lake McIntosh Reservoir Company

January 2016 Board Meeting

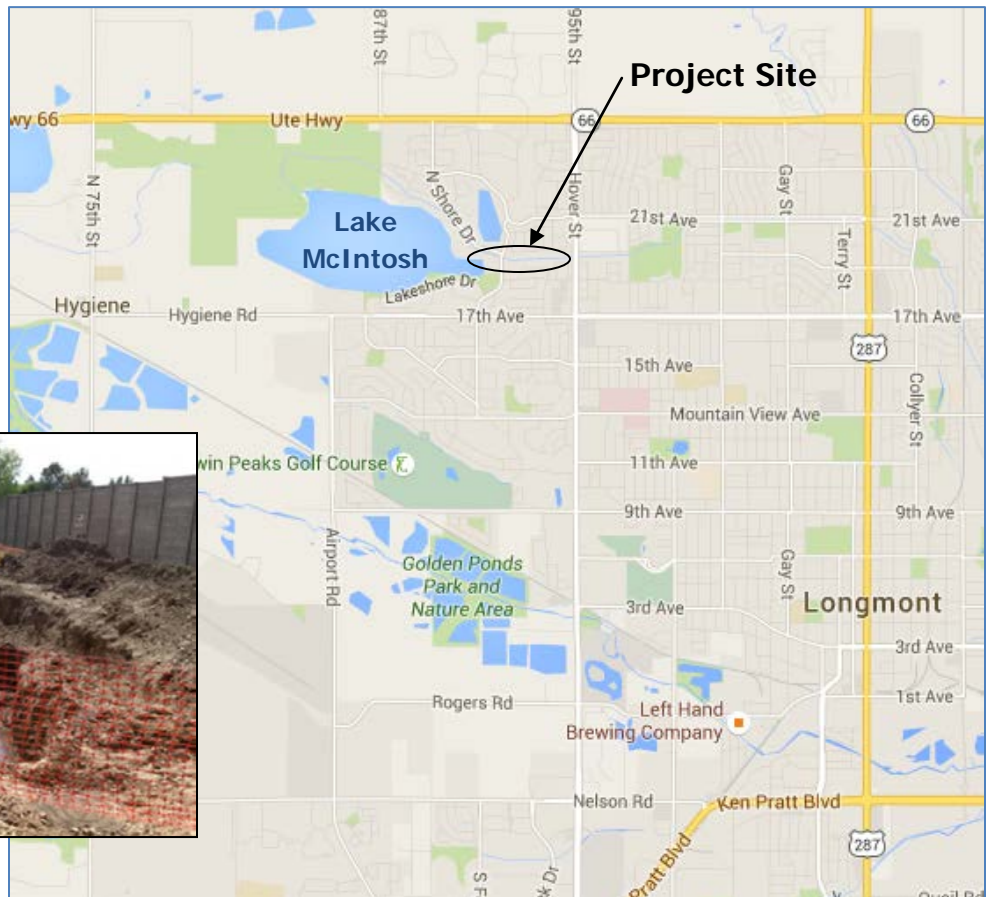
L O A N D E T A I L S	
Project Cost:	\$1,900,000
CWCB Loan (with Service Fee):	\$1,727,100
Loan Term and Interest Rate:	30 Years @ 2.70%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
28%	0 % Low - 61% Mid - 9% High
	Commercial
	2 %
P R O J E C T D E T A I L S	
Project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



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

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

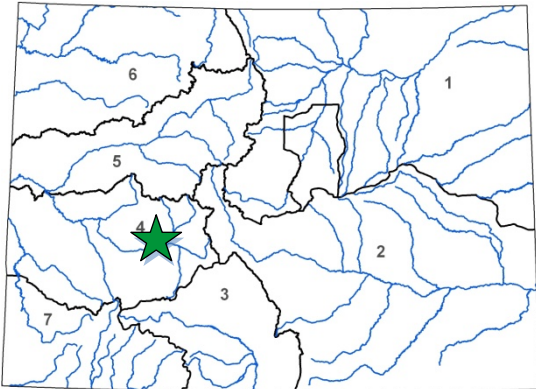
The reservoir was constructed in 1890 and enlarged in 1902. In May 2015, a section of the reservoir's outlet pipe collapsed, creating a sinkhole which deposited soil in the outlet works pipes downstream for approximately 300 feet. This has rendered the reservoir's outlet works unusable and thus water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



May 2015 Sinkhole

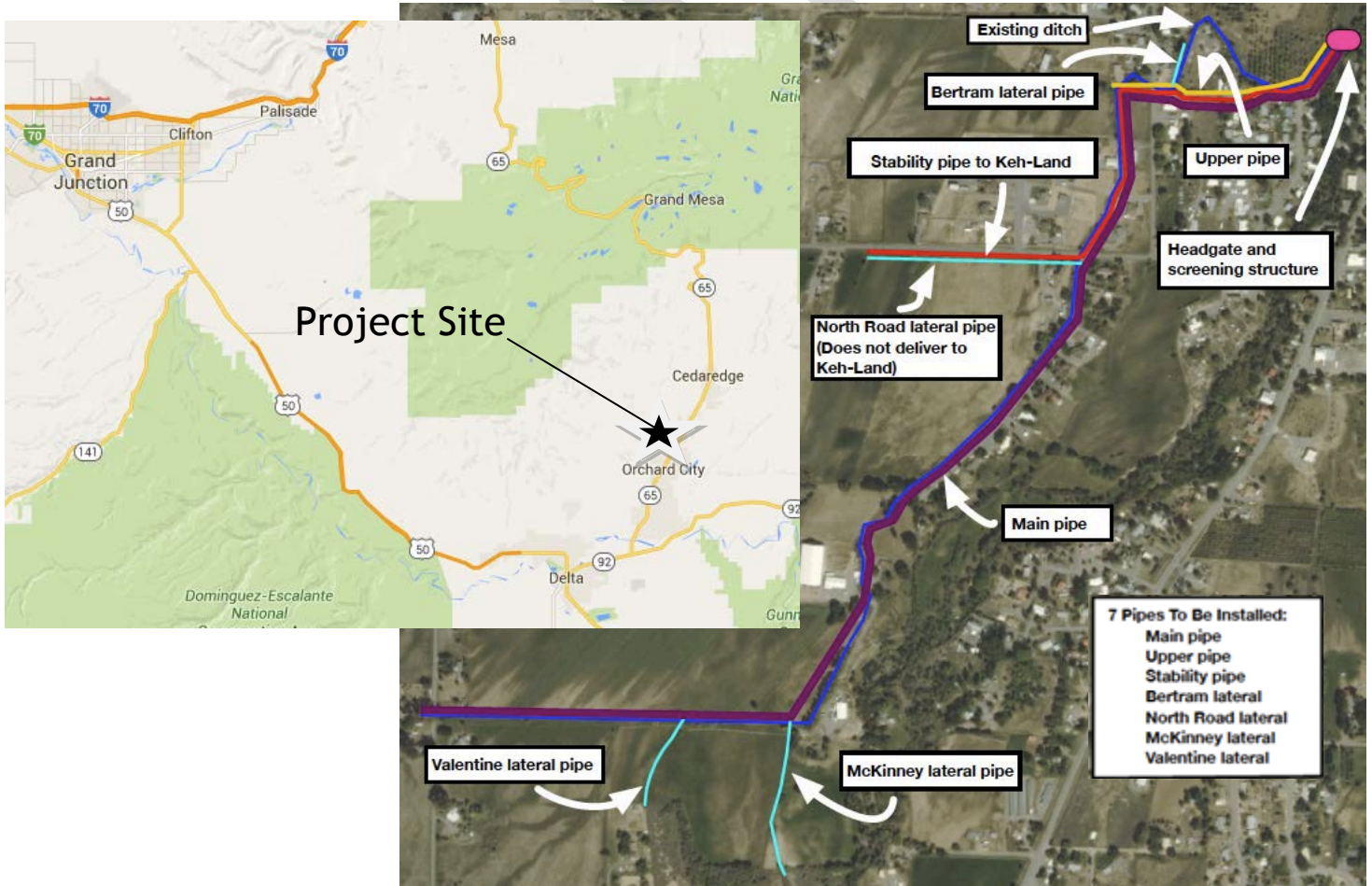


L O A N D E T A I L S	
Project Cost:	\$1,430,720
CWCB Loan (with Service Fee):	\$151,500
Loan Term and Interest Rate:	30-Years @ 1.95%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
86%	14% Low - 0% Mid - 0% High 0%
P R O J E C T D E T A I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



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

The Company serves approximately 350 irrigated acres in Delta County, approximately 10 miles north of the town of Delta, diverting all its supplies via a concrete diversion structure on Surface Creek. The Company's ditch was constructed in the late 1800s by a group of early settlers cooperating to get water to their new farms, and has been in continuous operation since that time. The proposed project will pipe the 1.6 mile long main earthen canal and portions of 4 laterals. The project will be done in conjunction with the U.S. Bureau of Reclamation's Colorado River Basin Salinity Control Program. Approximately 90% of project costs will be provided by a grant from the the U.S. Bureau of Reclamation. Construction is expected to begin in mid-2016 with completion by mid-2017.





COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street
Denver, CO 80203

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

John Hickenlooper, Governor

Robert Randall, Interim DNR
Executive Director

James Eklund, CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: Mat 18-19, 2016

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 twenty (20) projects authorized totaling \$24.5 million. There are currently nineteen (19) projects under contract ready to receive loan funds for eligible project expenses. The CWCB Emergency Loan Program has Completed Construction on four (4) projects as shown in Table 1.

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

TABLE 1

	Borrower	Project	County	Loan	Completed
1	Boulder & Larimer Co Irr.	Diversion Structure Repair	Boulder/Larimer	\$202,000	April '14
2	Culver Ditch Company	Culver Mahoney Ditch Repair	Boulder/Larimer	\$151,500	May '14
3	Ish Reservoir Company	Inlet Ditch & Div. Repair	Boulder	\$207,050	April '14
4	Sylvan Dale Ranch, LLLP	Emergency Pond Excavation	Larimer	\$105,171	May '14
			Total:	\$665,721	



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 Irrigating & Manufacturing
Ditch Co.

County: Boulder & Larimer

Water Source: Little Thompson River

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.

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.

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 &
 Larimer

Water Source: Little Thompson River

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.

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

Water Source: Big Thompson River
Construction Completed: May 2014

Contractor: Custom Design Fabricators - Livermore, Colorado

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

Emergency Loan - Summary

Loan Program
Attachment 4

Current Projects in Design or under Construction

	Borrower/Project	County	Loan	Design	Construction		PM	Status Description/Update
			Amount	Status	Start/End	Status		
1	Beeman Irrigation > Emergency Beeman Diversion Dam Repair C150385	Weld	\$ 2,020,000	100%	1/2014-5/2014	100%	JMH	Construction complete, loan funds remaining. No additional disbursements are anticipated.
2	Big Elk Meadows Association > Emergency Raw Water Storage Repair C150391	Boulder/ Larimer	\$ 1,515,000	75%	7/2014-4/2017	30%	JMH	Project includes the reconstruction of 5 dams in series. Mirror Dam complete as of April 2015. Rainbow Dam's outlet constructed in fall 2015. Site shut down for winter. Rainbow's embankment and last 3 dams still pending construction.
3	Big Thompson and Platte River > Big Thompson & Platte River Div. Structure Repair C150373	Larimer	\$ 808,000	100%	5/2014-6/2014	95%	JMH	Design change complete. Project is now a siphon crossing the Little Thompson River, rather than an elevated pipe. Construction nearly completed.
4	Boulder and Larimer County Irrigation > Boulder & Larimer Diversion Structure Repair C150374	Boulder & Larimer	\$ 202,000	100%	1/2014-4/2014	100% Ltr	JMH	Construction complete, used all loan funds. No grant reimbursements are expected.
5	Butte Irrigation & Milling Company > Emergency Berm Repair C150382	Boulder	\$ 277,750	100%	4/2014-5/2014	100%	JMH	Construction complete, loan funds remaining. No additional disbursements are anticipated.
6	Church Ditch Water Authority > Leyden Creek Crossing Repair C150377	Jefferson	\$ 606,000	100%	1/2014-5/2014	95%	JMH	Repair construction complete, small amount of loan funds remaining. Additional disbursements are anticipated for mitigation portion of project. Company has applied \$360k of FEMA money to loan balance.
7	Consolidated Home Supply Ditch & Reservoir Co > Big Dam Diversion Structure Repair C150375	Larimer	\$ 3,506,720	100%	1/2014-9/2015	100%	JMH	Loan increase approved at Sept 2014 for flood mitigation work. Flood repairs to the dam have been completed. New headgates, sandgates, control gate, and the new spillway gate are all near complete. Company to request FEMA closeout meeting soon.
8	Consolidated Home Supply Ditch & Reservoir Co > George Rist Ditch Repair C150380	Larimer	\$ 519,140	100%	2/2014-5/2014	99%	JMH	Loan Increase request approved during July 2014 Board Meeting. Project is complete but there remains some miscellaneous items to be closed out.
9	Culver Ditch Company > Culver Mahoney Ditch Repair C150390	Boulder & Larimer	\$ 151,500	100%	2/2014-4/2014	100% Ltr	JMH	Construction complete, used all loan funds. FEMA grant reimbursement is still pending.

Emergency Loan - Summary

Loan Program
Attachment 4

10	Green Ditch Company > Emergency Green Ditch Channel Repair C150383	Boulder	\$ 530,250	100%	5/2014-6/2014	100%	JMH	The project schedule and description has been revised to include only the river breach construction, which has been completed. The diversion structure will be completed using other funds. No additional loan disbursements are expected.
11	Highland Ditch Company > Highland Ditch System Repairs C150369	Boulder	\$ 1,999,800	100%	10/2013-4/2014	100%	JMH	Construction complete, loan funds remaining. No additional disbursements are anticipated.
12	Ish Reservoir Company > Inlet Ditch & Diversion Structure Repair C150376	Boulder	\$ 207,050	100%	1/2014-4/2014	100% Ltr	JMH	Construction complete, used all loan funds.
13	Left Hand Ditch Company > Left Hand Ditch System Repairs C150370	Boulder	\$ 3,276,056	100%	10/2013-2/2015	99%	JMH	Several projects are included in this loan. All are complete or very near completion. Significant savings in Project cost because anticipated Left Hand Valley work did not have to be done. Company has applied \$592k of FEMA money to loan balance.
14	North Poudre Irrigation Company > Fossil Creek Res. Diversion Structure Repair C150368	Larimer	\$ 876,680	100%	11/2015 - 3/2016	90%	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. Major work has been completed. Work remaining includes the catwalk and operator for the radial gate.
15	Oligarchy Irrigation Company > Oligarchy Irr. Ditch River Diversion Struct. Repair C150372	Boulder	\$ 1,262,500	100%	1/2014-5/2014	100%	JMH	Construction complete, loan funds remaining. No additional disbursements are anticipated. Company has applied \$584k of FEMA money to loan balance.
16	Rough & Ready Irrigation Ditch Company > Rough & Ready River Diversion Struct.Repair C150371	Boulder	\$ 1,843,250	100%	1/2014-5/2014	100%	JMH	Construction complete, loan funds remaining. No additional disbursements are anticipated. Company has applied \$963k of FEMA money to loan balance.
17	St. Vrain and Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair	Boulder	\$ 4,545,000	50%	Spring 2016 - Fall 2016	0%	JMH	Approved July 2014 Board Meeting. Contract has been signed and final design is underway.
18	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.
19	Sylvan Dale Ranch,LLP > Emergency Irrigation Pond Excavation C150392	Larimer	\$ 105,171	100%	6/2014-4/2014	100% Ltr	JMH	Construction complete, used all loan funds. Company has applied \$84k of grant funds to loan balance.

Projects Under Contract SubTotal = \$ 24,576,077

Emergency Loan - Summary

Loan Program
Attachment 4

Projects Not Under Contract

a	Haldi Ditch Company > Emergency Haldi Ditch Reapir C150389	Boulder	\$ 50,500	100%	1/2014-3/2014	100%	JMH	Construction completed but Ditch Company's contribution was covered with non-CWCB grants. Loan was amended to \$0.
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Not Under Contract SubTotal = \$ 50,500

Grand Total = \$ 24,626,577

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

C150385

Borrower: Beeman Irrigating Ditch and
Milling Company
Project Name: Emergency Beeman
Diversion Dam Repair
Drainage Basin/ District: South Platte / 2

County: Weld

Project Type: Diversion Rehabilitation

Water Source: South Platte River

Total Project Cost: \$2,000,000

Funding Source: Severance Tax PBF

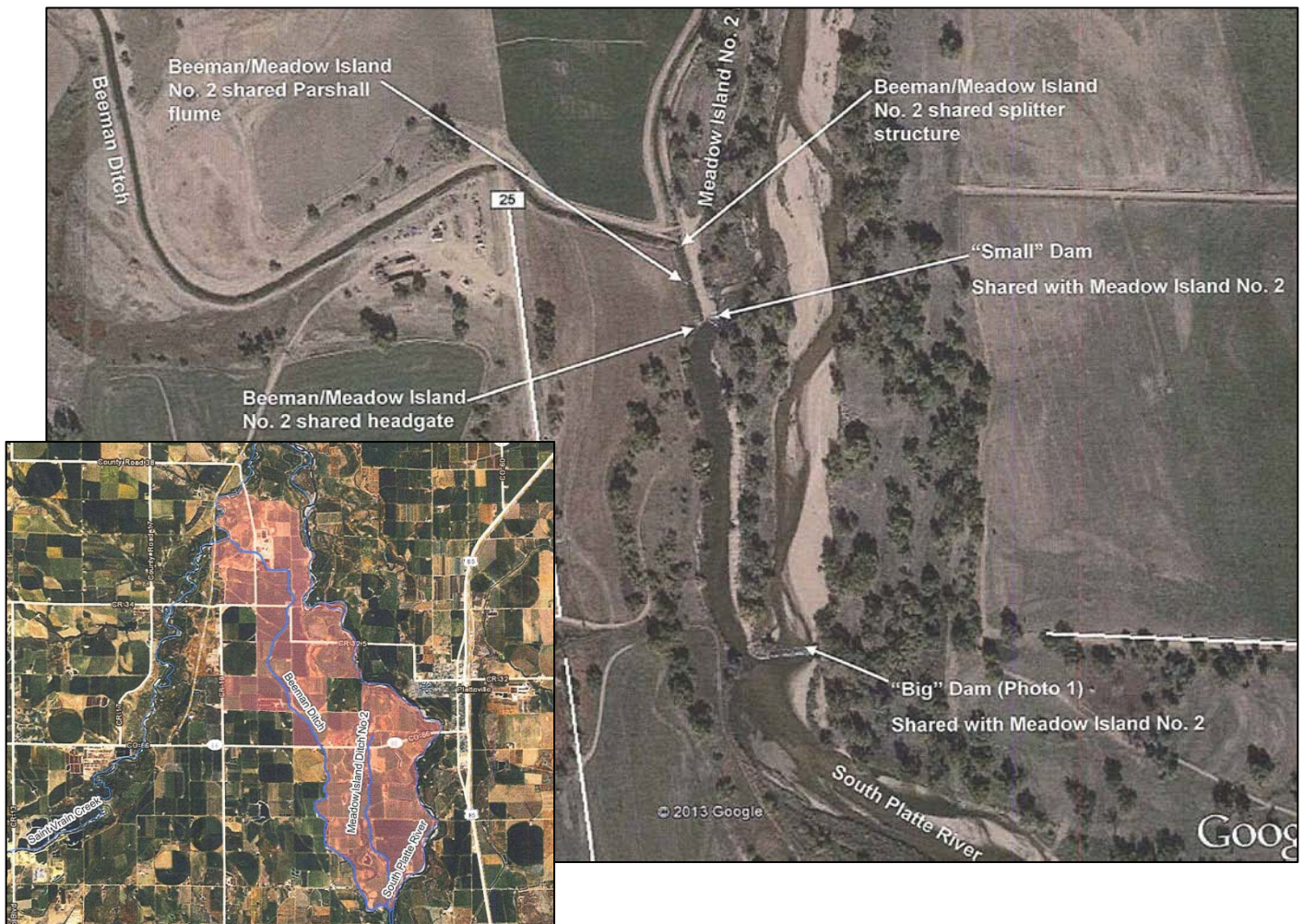
Type of Borrower: Agricultural

Average Annual Diversion: 10,586 AF

CWCB Loan: \$2,020,000
(with 1% service fee)

Interest Rate: 1.75% **Term:** 30-years

The Company and Meadow Island No. 2, jointly operate a diversion dam, measurement flume, and bifurcation structure. (Beeman is allocated 75% of costs, Meadow Island is allocated 25% of costs). The diversion headworks was constructed in the early 1900s to irrigate approximately 5,000 acres under both canal systems. The September 2013 flood deposited silt covered the diversion dam and cut a new channel through the historic island, cutting off flow to the joint headworks area. The project includes four phases: 1) Demolition of existing structures and reconstruction of the headworks (headwall, headgates, flow measurement, and bifurcation structure), 2) Install an adjustable check dam in place of the current stop log dam, 3) Demolition of a portion of the existing “big dam” structure at the river, 4) Channel bank stabilization will be coordinated with adjoining landowners.



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

C150391

Borrower: Big Elk Meadows Association

County: Boulder/Larimer

Project Name: Emergency Raw Water Storage
Repair Project

Project Type: Reservoir Rehabilitation

Drainage Basin/ District: South Platte / 4

Water Source: West Fork of the Little
Thompson River

Total Project Cost: \$1,900,000

Funding Source: Severance Tax PBF

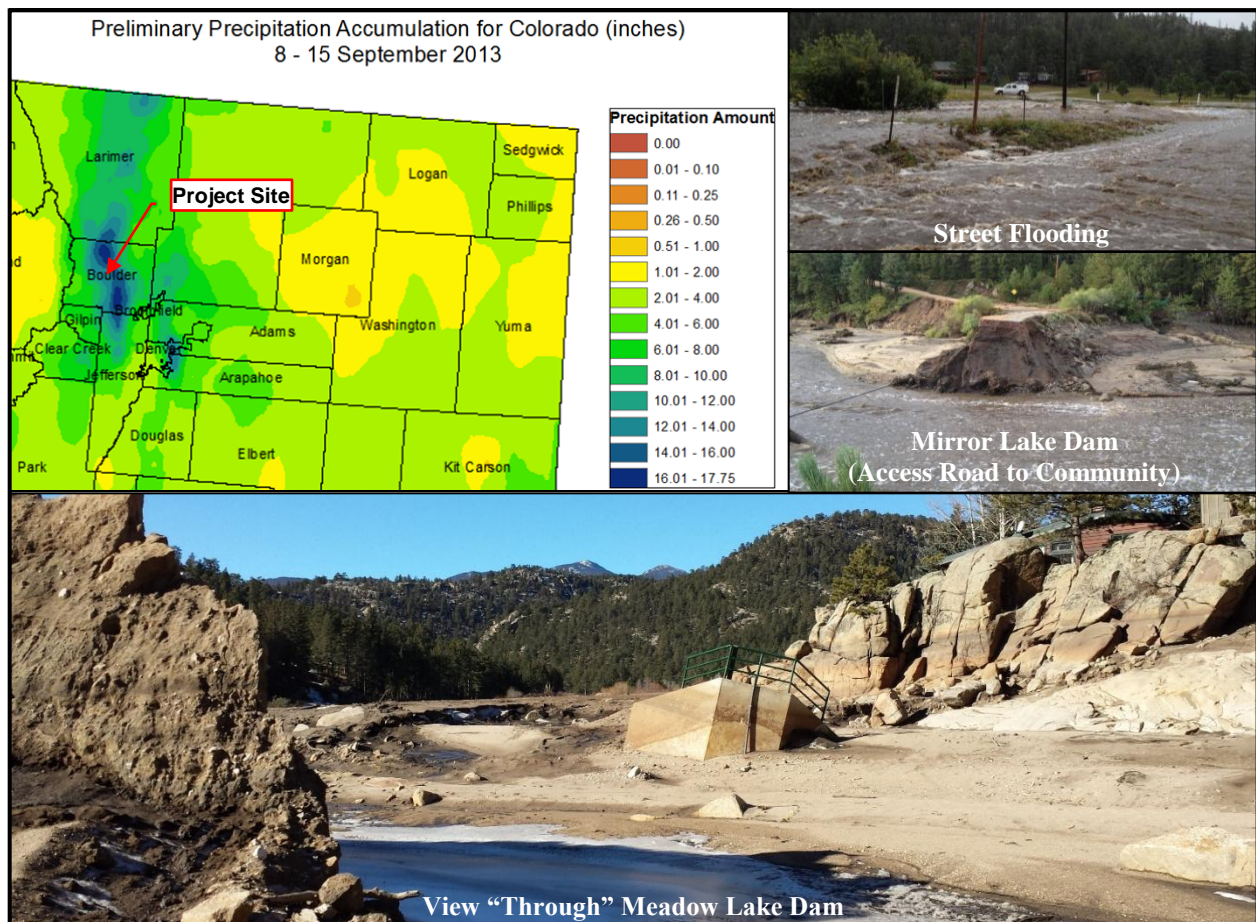
Type of Borrower: Middle-Income Municipal

Water Storage: 108 AF

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

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

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged. Measured rainfall in and around Big Elk Meadows exceeded the 1,000-year Average Recurrence Interval for rainfall. Flow along the West Fork reached historic levels and resulted in the destruction of all five dams; both flow monitoring stations; the community's access road (CR-47); the majority of interior roads; and the water, power, and telephone services. The purpose of this project is to restore the community's water supply by reconstructing the five dams and two monitoring stations.



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

C150373

Borrower: Big Thompson & Platte River
Ditch Company

County: Larimer

Project Name: Big Thompson & Platte
River Diversion Structure Repair

Project Type: Diversion Rehabilitation

Drainage Basin/ District: South Platte / 4

Water Source: Big Thompson River

Total Project Cost: \$800,000

Funding Source: Severance Tax PBF

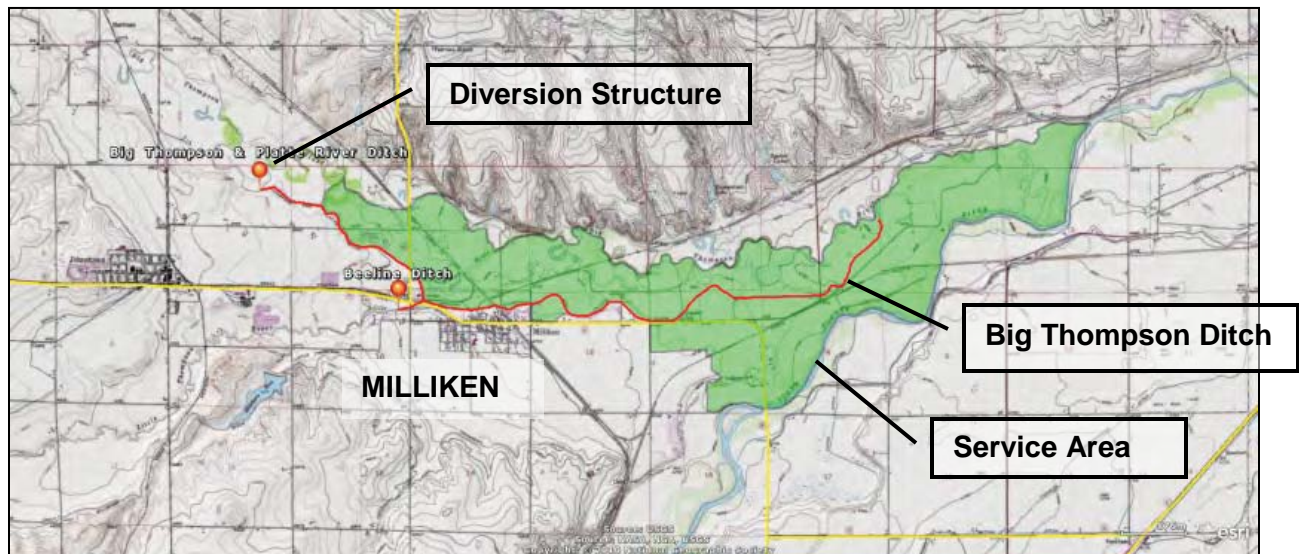
Type of Borrower: Blended

Average Annual Diversion: 9,736 AF

CWCB Loan: \$808,000
(with 1% service fee)

Interest Rate: 1.85% **Term:** 30-years
(97% Ag, 3% Comm)

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 diversion structure and crossing structures to allow the Company to deliver water to shareholders. The Company's diversion structure and by-pass structure will be repaired and its crossing over the Little Thompson River will be replaced. The crossing structure was a bottleneck at times of free river, so the structure will be improved to allow for additional flows.



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

C150382

Borrower: Butte Irrigating & Milling Company **County:** Boulder

Project Name: Emergency Berm Repair

Project Type: Ditch Rehabilitation

Drainage Basin/ District: South Platte / 6

Water Source: Boulder Creek

Total Project Cost: \$275,000

Funding Source: Severance Tax PBF

Type of Borrower: Blended

Average Annual Diversion: 1,177 AF

CWCB Loan: \$277,750
(with 1% service fee)

Interest Rate: 2.30% **Term:** 30-years
(48% Ag, 51% Mid-Muni, 1% 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 Company's Butte Mill Ditch. Portions of the 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 is to repair this berm and clean out the ditch channel to allow the Company to divert its decreed water rights.



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

C150377

Borrower: Church Ditch Water Authority

County: Jefferson

Project Name: Leyden Creek Crossing Repair

Project Type: Ditch Rehabilitation

Drainage Basin/ District: South Platte / 7

Water Source: Clear Creek

Total Project Cost: \$600,000

Funding Source: Severance Tax PBF

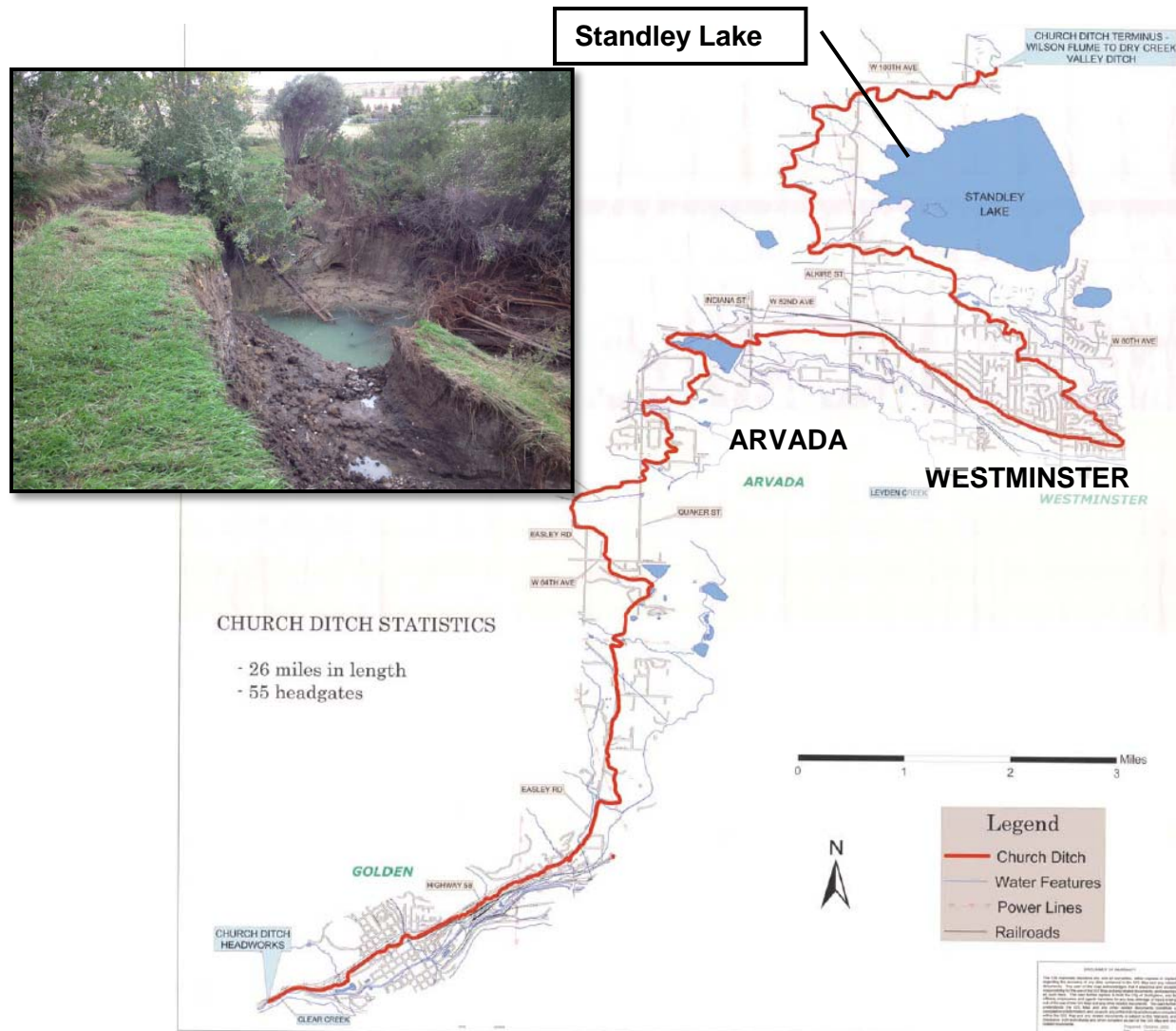
Type of Borrower: Blended

Average Annual Diversion: 8,355 AF

CWCB Loan: \$606,000
(with 1% service fee)

Interest Rate: 2.85% **Term:** 30-years
(6% Ag, 26% Mid, 67% High, <1% Com)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Authority's Church Ditch. Church Ditch flood repairs include restoring the Church Ditch to pre-flood conditions. The Leyden Creek Crossing Structure will be 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 will be removed and the ditch banks will be reshaped where sloughing occurred. Riprap will be added to portions of the reconstructed ditch banks to prevent erosion and increase protection to the ditch.





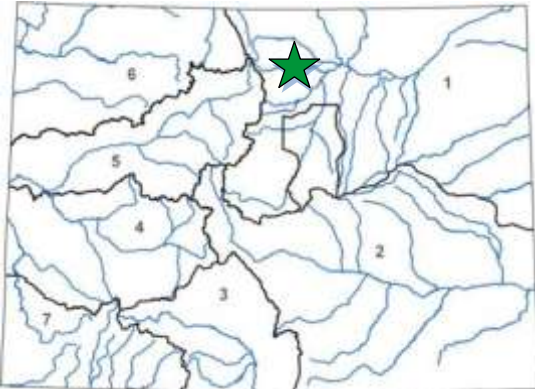
Emergency Big Dam Diversion Structure Repair

Consolidated Home Supply Ditch & Reservoir Company

September 2014 Board Meeting

(Loan Increase)

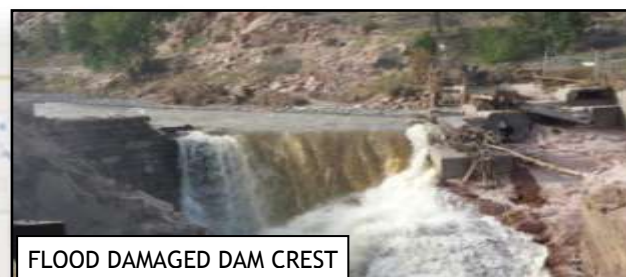
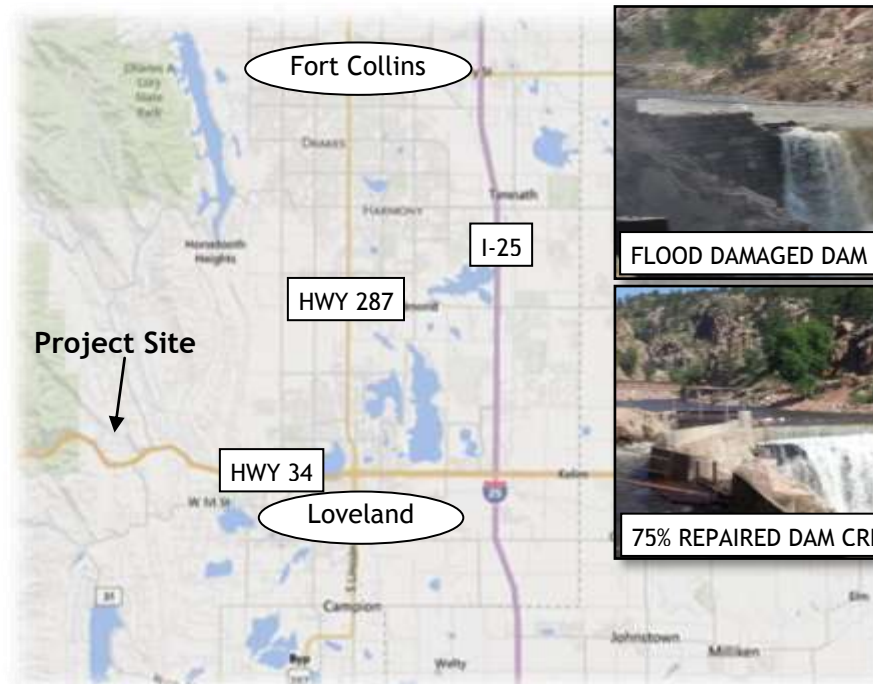
L O A N D E T A I L S	
Project Cost:	\$2,775,000
CWCB Loan (with Service Fee):	\$1,840,000 (15% increase)
Loan Term and Interest Rate:	30 Years @ 1.95%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
76%	0% Low - 23% Mid - <1% High <1%
P R O J E C T D E T A I L S	
Project Type:	Diversion Rehabilitation
Average Annual Diversion:	22,000 AF



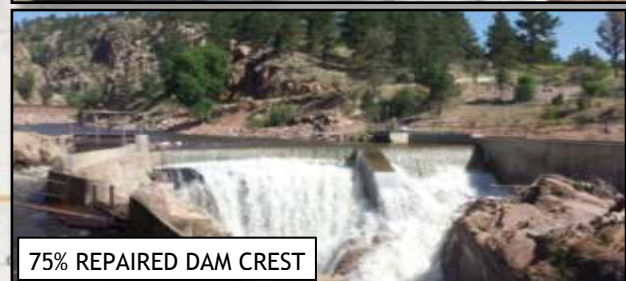
L O C A T I O N	
County:	Larimer
Water Source:	Big Thompson River
Drainage Basin:	South Platte
Division:	1 District: 4

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's "Big Dam" diversion structure. During the flood, the top five feet of the masonry dam structure was washed out and the mortar between masonry blocks on the north abutment was partially lost. Field observations show that the river was overtopping the structure by approximately 10 feet. The purpose of this project is to restore the "Big Dam" diversion structure to its pre-flood crest elevation while improving the structural integrity of the structure.

As part of the design and evaluation process, the Company worked with FEMA, the Engineer, and the Construction Manager to identify any appropriate flood mitigation measures. As a result, improvements will be made to the Big Dam's spillway capacity by reconstructing the abandoned spillway and modifying the Company's headgates. Incorporating these improvements will increase the total Project cost from \$1.6 million to \$2.8 million. The Company has agreements with FEMA and the City of Loveland to provide funding assistance. The cost-share agreement with the City allows this increase request to only be \$240,000. Construction is on-going and is expected to finish in winter of 2014/15.



FLOOD DAMAGED DAM CREST



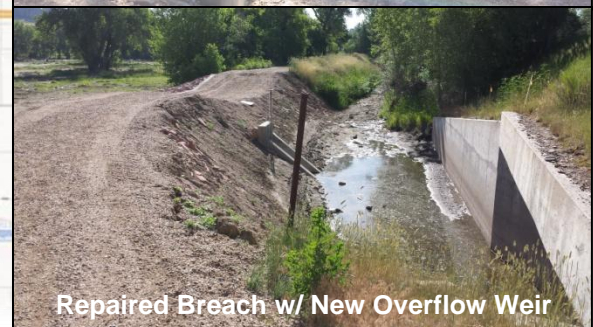
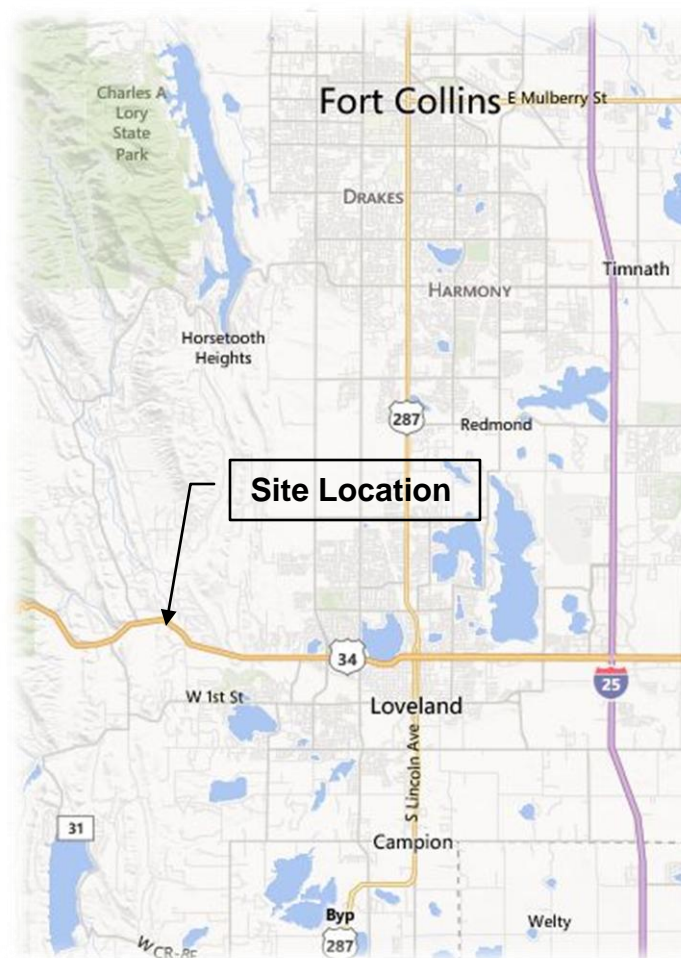
75% REPAIRED DAM CREST

CWCB Water Project Loan Program
Project Data Sheet
(Increase)

C150380

Borrower: Consolidated Home Supply Ditch & Reservoir Company	County: Larimer
Project Name: Emergency George Rist Ditch Repair	Project Type: Ditch Rehabilitation
Drainage Basin/ District: South Platte / 4	Water Source: Big Thompson River
Total Project Cost: \$514,000	Funding Source: Severance Tax PBF
Type of Borrower: Blended	Average Annual Diversion: 22,000 AF
CWCB Loan: \$519,140 (with 1% service fee)	Interest Rate: 1.95% Term: 30-years (76% Ag, 23% Mid, <1% High, <1% Com)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged, including the Company's George Rist ditch and diversion structure. During the flood, the diversion dam, headgate, measuring flume, stilling well and house, and access road were heavily damaged. Additionally, two sections of the ditch's embankment and bottom were completely washed out. The purpose of this Project is to restore the George Rist Ditch to its pre-flood condition. During repairs, approximately \$70,000 worth of additional needs were identified prompting a request for additional funds.



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

C150383

Borrower: Green Ditch Company

County: Boulder

Project Name: Emergency Green
Ditch Channel Repair

Project Type: Ditch Rehabilitation

Drainage Basin/ District: South Platte / 6

Water Source: Boulder Creek

Total Project Cost: \$525,000

Funding Source: Severance Tax PBF

Type of Borrower: Blended

Average Annual Diversion: 1,847 AF

CWCB Loan: \$530,250
(with 1% service fee)

Interest Rate: 2.50% **Term:** 30-years
(21% Ag, 58% Mid, 5% Com)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Green Ditch. Additionally the flood relocated Boulder Creek at this location and water no longer flows to the Green Ditch headgate. Various stakeholders have indicated the creek's new alignment is more environmentally friendly alignment. In an effort of collaboration the Company plans to relocate their point of diversion upstream of the breach and build a fish friendly diversion structure. A new pipeline will connect the new diversion structure with the existing ditch.



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

C150369

Borrower: Highland Ditch Company

County: Boulder

Project Name: Highland Ditch System
Repairs

Project Type: Ditch Rehabilitation

Drainage Basin/ District: South Platte / 5

Water Source: St. Vrain Creek

Total Project Cost: \$1,980,000

Funding Source: Severance Tax PBF

Type of Borrower: Blended

Average Annual Diversion: 38,000 AF

CWCB Loan: \$1,999,800
(with 1% service fee)

Interest Rate: 1.95% **Term:** 30-years
(86% Ag, 6% Mid, 6% High, 2% Com)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged. The purpose of this Project is to repair the Company's system to allow the delivery of water to shareholders. The scope of work includes: repairing of the main diversion structure, headgate, SCADA system, and inlet and outlet of Foothills Reservoir.

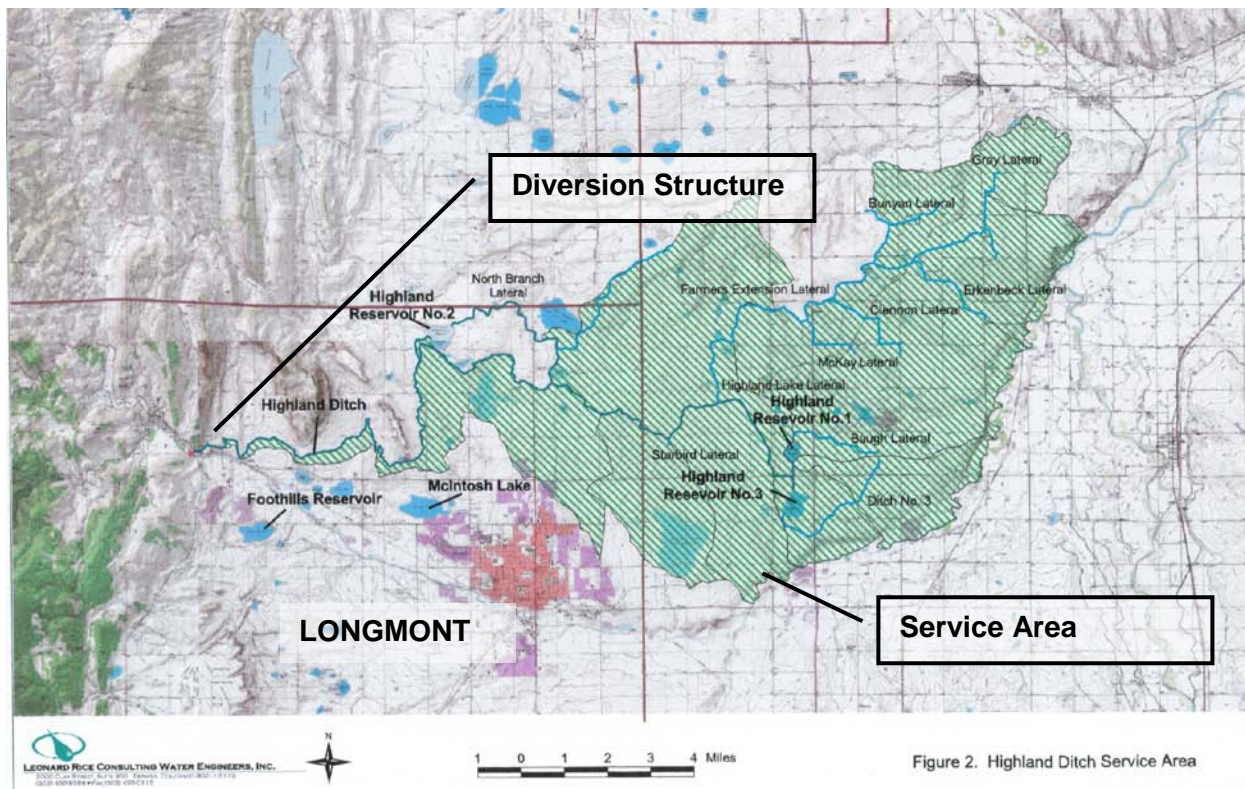


Figure 2. Highland Ditch Service Area

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

C150370

Borrower: Left Hand Ditch Company

County: Boulder

Project Name: Left Hand Ditch System
Repairs

Project Type: Ditch Rehabilitation

Drainage Basin/ District: South Platte / 5

Water Source: Left Hand &
St. Vrain Creeks

Total Project Cost: \$3,243,620

Funding Source: Severance Tax PBF

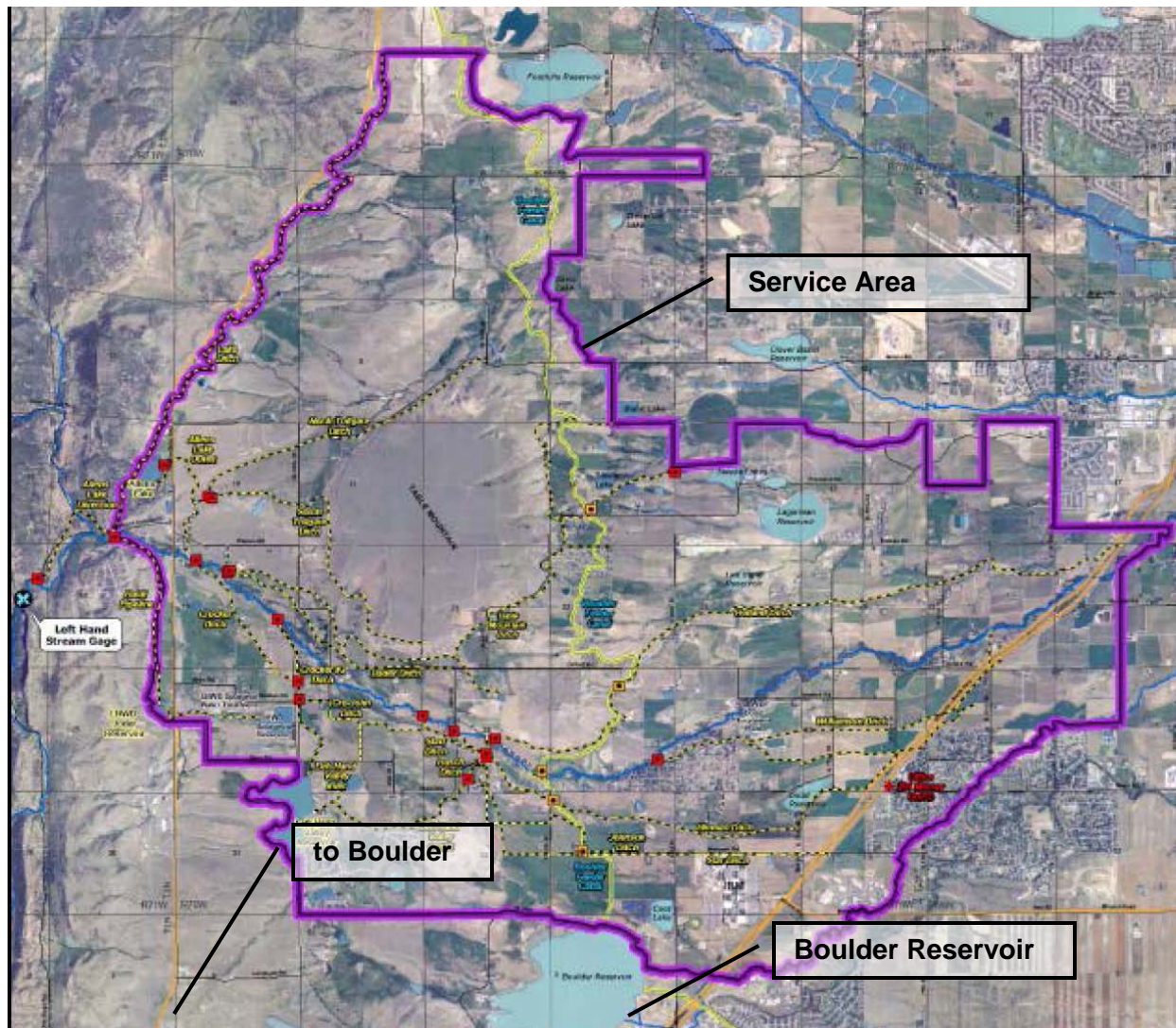
Type of Borrower: Blended

Average Annual Diversion: 22,700 AF

CWCB Loan: \$3,276,056
(with 1% service fee)

Interest Rate: 2.30% **Term:** 30-years
(46% Ag, 38% Mid, 16% High)

The Company plans to restore its system to pre-flood condition which includes: Replacement of Left Hand Creek Parshall Flume and Recorder Station, repair of Left hand Valley Diversion repair of several ditches: Crocker, Table mountain, Bader, Hunman, Star, Holland, Williamson, and Gold Lake Filler Ditch, replace the diversion dam and headgate structure at Allen's Lake Filler Canal Head Gate



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

C150368

Borrower: North Poudre Irrigation Company

County: Larimer

Project Name: Fossil Creek Reservoir Diversion
Structure Repair

Project Type: Diversion Rehabilitation

Drainage Basin/ District: South Platte / 3

Water Source: Cache la Poudre

Total Project Cost: \$477,000

Funding Source: Severance Tax PBF

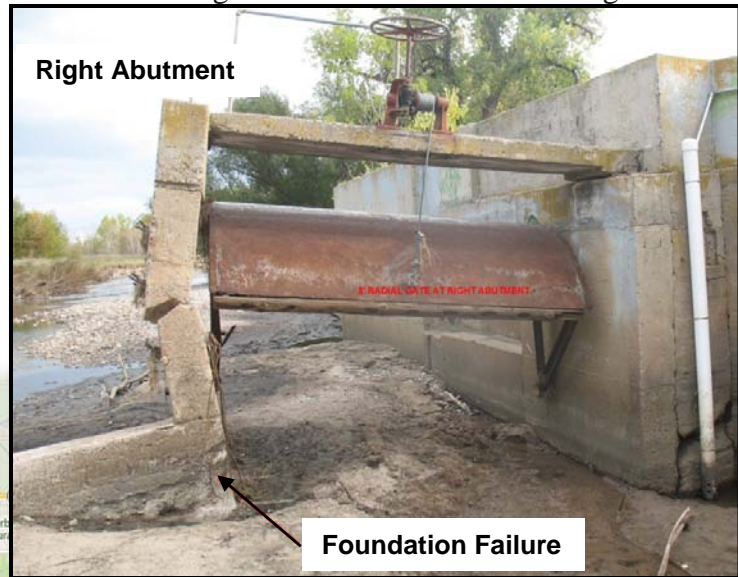
Type of Borrower: Blended

Average Annual Diversion: 31,700 AF

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

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

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's Fossil Creek Reservoir inlet diversion off the Cache la Poudre River. The purpose of the Project is to repair the existing diversion structure by rebuilding the check dam and abutment. The Project will restore the structure to pre-flood elevations while modifying the foundation to improve protection against future scouring.



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

C150372

Borrower: Oligarchy Irrigation Company

County: Boulder

Project Name: Oligarchy Irrigation Ditch
River Diversion Structure Repair

Project Type: Diversion Rehabilitation

Drainage Basin/ District: South Platte / 5

Water Source: St. Vrain Creek

Total Project Cost: \$1,250,000

Funding Source: Severance Tax PBF

Type of Borrower: Blended

Average Annual Diversion: 7,966 AF

CWCB Loan: \$1,262,500
(with 1% service fee)

Interest Rate: 2.50% **Term:** 30-years
(26% Ag, 72% Mid, 2% High)

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 diversion off the St. Vrain Creek. Of the original structure, only a small portion of the diversion dam and right abutment remain. The purpose of this Project is to rebuild the diversion dam, sand gates, Rubicon flumegate, and bypass gate. The structure will be the same size and location as the original but will modify the sand gates and flumegate. The original structure had one sand gate into which the Rubicon flumegate was installed. For better operation and river administration, the rebuilt diversion will separate the sand gate and the flumegate into their own passages through the diversion dam.



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

C150371

Borrower: Rough & Ready Irrigating
Ditch Company
Project Name: Rough & Ready Ditch River
Diversion Structure Repair
Drainage Basin/ District: South Platte / 5

County: Boulder

Project Type: Diversion Rehabilitation

Water Source: St. Vrain Creek

Total Project Cost: \$1,825,000

Funding Source: Severance Tax PBF

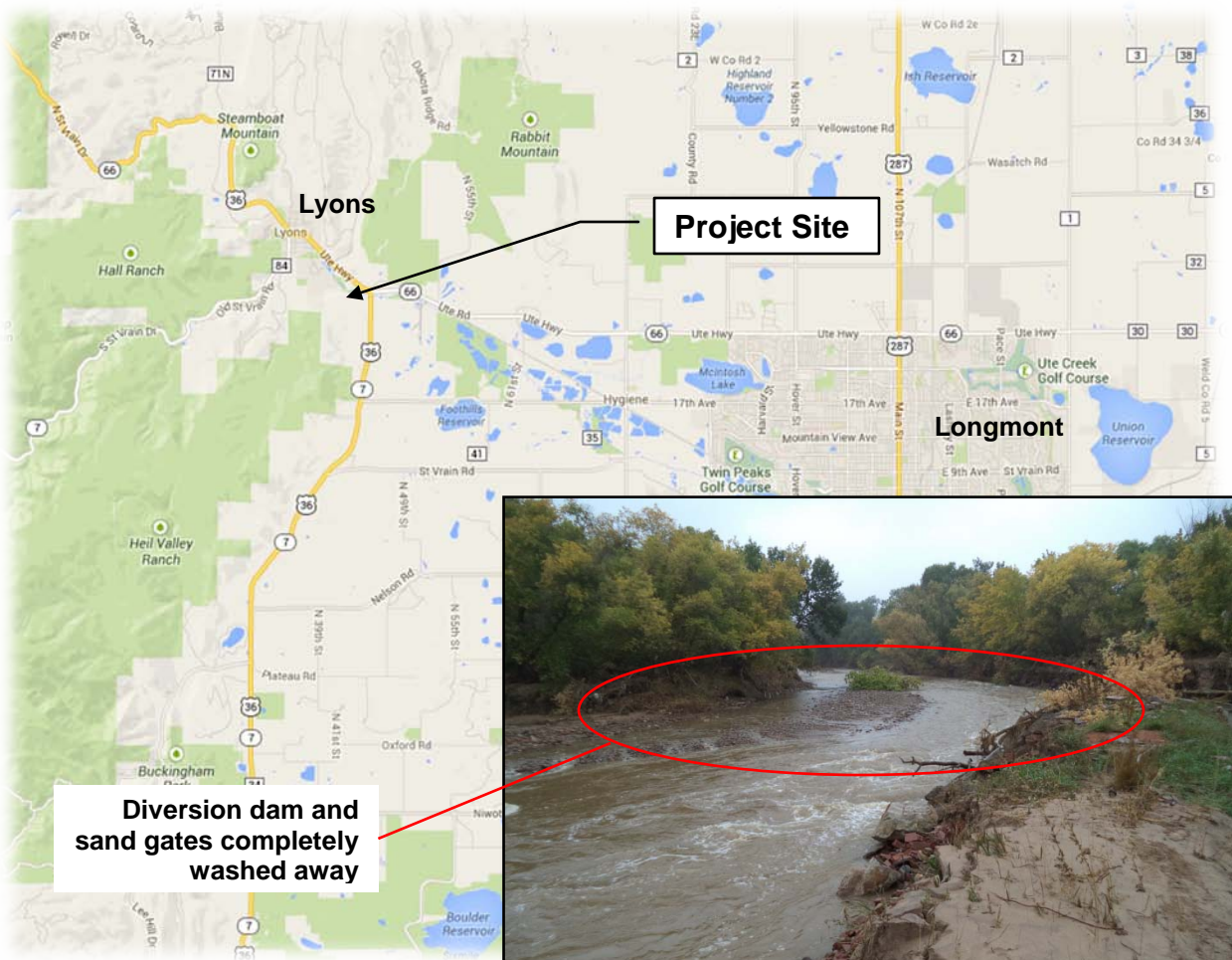
Type of Borrower: Blended

Average Annual Diversion: 7,528 AF

CWCB Loan: \$1,843,250
(with 1% service fee)

Interest Rate: 2.7% **Term:** 30-years
(15% Ag, 69% Mid, 13% High, 3% Com)

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's river diversion off the St. Vrain Creek. This structure also serves as the diversion dam for the Palmerton Ditch. The diversion dam and sand gates no longer exist and the headgates sustained major damage. The purpose of this Project is to rebuild the diversion dam, sand gates, Rubicon flumegate, headgates, ditches, and measuring flumes. The structure will be the same size and location but will include a combined conveyance ditch off the diversion and will include the addition of a bypass to the river to better regulate diversions.



CWCB Water Project Loan Program
Project Data Sheet

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

County: Boulder

Project Type: Reservoir Rehabilitation

Water Source: St. Vrain Creek

Total Project Cost: \$9,000,000

Funding Source: Severance Tax Perpetual
Base Fund

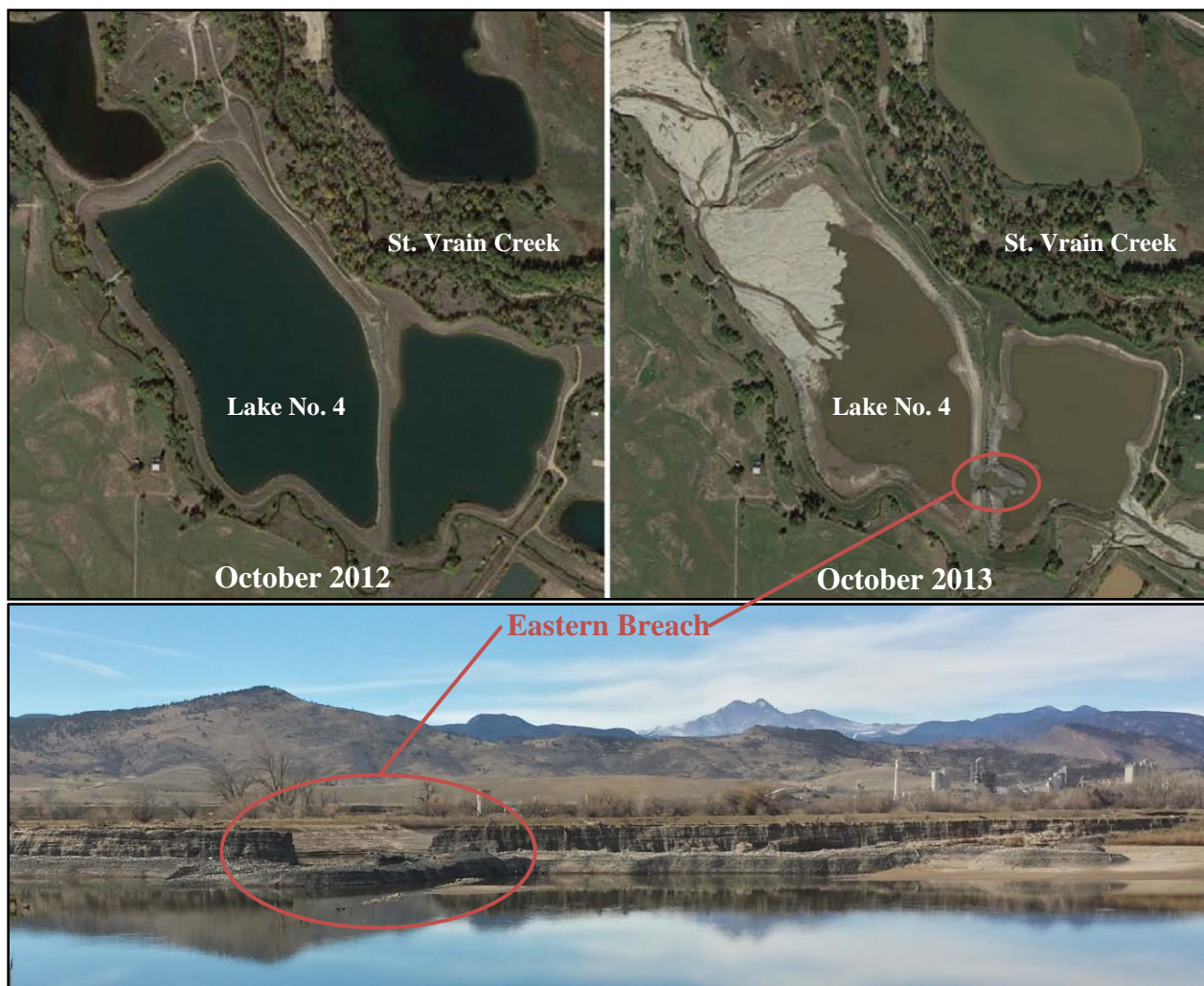
Type of Borrower: Blended

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

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

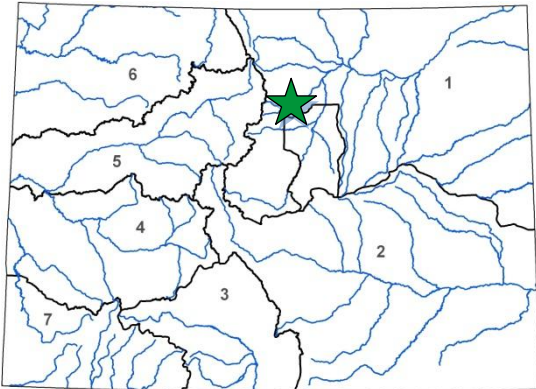
Interest Rate: 3.2% Term: 30-years
(Ownership: 93% High Municipal, 7% Commercial)

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





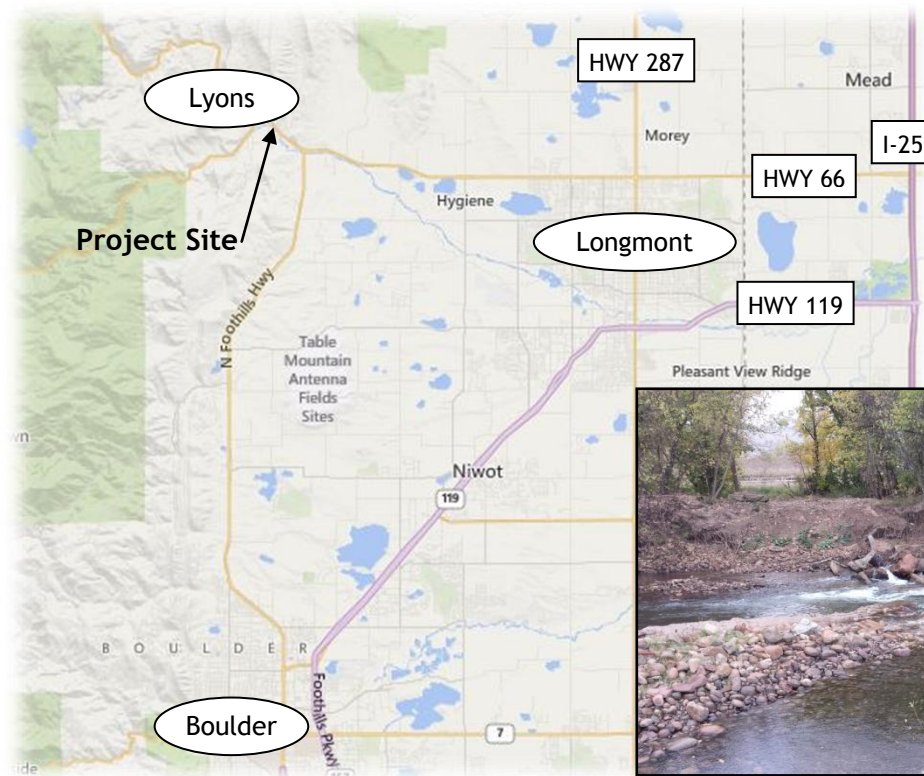
L O A N D E T A I L S	
Project Cost:	\$321,000
CWCB Loan (with Service Fee):	\$324,210
Loan Term and Interest Rate:	27 Years @ 2.25%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R T Y P E	
Agriculture	Municipal Commercial
86%	0% Low - 5% Mid - 7% High 2%
P R O J E C T D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	4,650 AF



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

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.



Projects Not Under Contract

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

C150389

Borrower: Hallditch Company

County: Boulder

Project Name: Emergency Hallditch Repair

Project Type: Ditch Rehabilitation

Drainage Basin/ District: South Platte / 5

Water Source: Left Hand Creek

Total Project Cost: \$343,000

Funding Source: Severance Tax PBF

Type of Borrower: Agricultural/Municipal

Average Annual Diversion: 3,000 AF

CWCB Loan: \$50,500 Amended to \$0
(with 1% service fee)

Interest Rate: 2.35% **Term:** 30-years

The Hallditch is located within the Left Hand Ditch Company's system and within the Left Hand Water District. The Hallditch conveys Left Hand Ditch Company shares via a pipeline for irrigation users and as a raw water source for the Left Hand Water District's Spurgeon Water Treatment Plant and two Left Hand Water District reservoirs. During the 2013 flood event, the Left Hand Creek left its bank immediately upstream of the Hallditch Diversion scouring a new channel and disconnecting the creek from the diversion. The proposed project involves the construction of a grouted boulder drop structure to divert water back into the historic channel leading to the intake structure. The historic channel and structures will be cleared of debris and repaired. The pipeline that was scoured and damaged will be removed and replaced with new ductile iron pipe. The access road will be restored to existing conditions and the diversion and stream bank will be armored. **Construction completed but Ditch Company's contribution was covered with non-CWCB grants. Loan was amended to \$0.**



**WATER PROJECT CONSTRUCTION LOAN PROGRAM
LOAN REPAYMENT DELINQUENCY REPORT
LOAN FINANCIAL ACTIVITY REPORT
MAY 2016**

LOAN REPAYMENT DELINQUENCY

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2015 through April 2016. 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 eight months of Fiscal Year 2016 totaled 213. There were four loan payments not received on time during this period. The loan payments from the Grandview Irrigation Ditch Company and the Two Rivers Water Company were less than 30 days late. The loan payment from Fuchs Ranches, Inc. was less than 60 days late. The loan payment from the Spring Dale Ditch Company was over 60 days late. Thus, the on-time 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 2016 is summarized as follows: Funds received relative to loans in repayment totaled \$27.4 M for this year. Funds disbursed relative to new project loans totaled \$29.5 M for this year. Net activity resulted in \$2.1 M disbursed by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total received.

Further breakdown is summarized as follows: The Construction Fund portion consists of \$12.4 M in receivables and \$16.3 M in disbursements for a total net activity of \$3.9 M disbursed over received. The STPBF consists of \$15.0 M in receivables and \$13.2 M in disbursements for a total net activity of \$1.8 M received over disbursed.

COLORADO WATER CONSERVATION BOARD

FINANCIAL ACTIVITY REPORT FOR FISCAL YEAR 2016

CONSTRUCTION FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2015	\$ 807,994	\$ 179,878	\$ 987,872	\$ -	\$ 987,872
August 2015	\$ 167,620	\$ 159,096	\$ 326,716	\$ 851,416	\$ (524,699)
September 2015	\$ 773,951	\$ 1,466,465	\$ 2,240,416	\$ 2,029,527	\$ 210,889
October 2015	\$ 89,456	\$ 55,105	\$ 144,561	\$ 2,258,359	\$ (2,113,798)
November 2015	\$ 656,695	\$ 926,743	\$ 1,583,439	\$ 3,620,018	\$ (2,036,579)
December 2015	\$ 755,208	\$ 452,434	\$ 1,207,642	\$ 1,103,224	\$ 104,418
January 2016	\$ 357,543	\$ 368,205	\$ 725,748	\$ 1,179,318	\$ (453,571)
February 2016	\$ 837,852	\$ 135,981	\$ 973,833	\$ 2,274,653	\$ (1,300,820)
March 2016	\$ 1,938,352	\$ 451,089	\$ 2,389,441	\$ 1,060,095	\$ 1,329,346
April 2016	\$ 1,139,958	\$ 666,068	\$ 1,806,026	\$ 1,922,545	\$ (116,520)
May 2016	\$ -	\$ -	\$ -	\$ -	\$ -
June 2016	\$ -	\$ -	\$ -	\$ -	\$ -
FY 2016 Totals	\$ 7,524,629	\$ 4,861,065	\$ 12,385,694	\$ 16,299,155	\$ (3,913,462)

SEVERANCE TAX PERPETUAL BASE FUND

Period	Principal	Interest	Total Received	Disbursements	Net Activity
July 2015	\$ 54,661	\$ 106,155	\$ 160,816	\$ -	\$ 160,816
August 2015	\$ 4,567,874	\$ 1,116,206	\$ 5,684,080	\$ 2,870,469	\$ 2,813,611
September 2015	\$ 554,447	\$ 415,873	\$ 970,320	\$ 764,226	\$ 206,094
October 2015	\$ 293,827	\$ 739,299	\$ 1,033,126	\$ 695,755	\$ 337,371
November 2015	\$ 245,008	\$ 78,674	\$ 323,682	\$ 729,016	\$ (405,335)
December 2015	\$ 3,579,920	\$ 310,698	\$ 3,890,618	\$ 771,083	\$ 3,119,535
January 2016	\$ 167,195	\$ 80,064	\$ 247,258	\$ 908,417	\$ (661,159)
February 2016	\$ 1,129,326	\$ 136,198	\$ 1,265,524	\$ 872,171	\$ 393,354
March 2016	\$ 922,407	\$ 289,691	\$ 1,212,098	\$ 2,779,817	\$ (1,567,719)
April 2016	\$ 86,713	\$ 74,898	\$ 161,611	\$ 2,793,168	\$ (2,631,558)
May 2016	\$ -	\$ -	\$ -	\$ -	\$ -
June 2016	\$ -	\$ -	\$ -	\$ -	\$ -
FY 2016 Totals	\$ 11,601,378	\$ 3,347,756	\$ 14,949,133	\$ 13,184,123	\$ 1,765,010

GRAND TOTALS	\$ 19,126,007	\$ 8,208,820	\$ 27,334,827	\$ 29,483,278	\$ (2,148,451)
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