



# **COLORADO WATER CONSERVATION BOARD**

## **DIRECTOR'S REPORT**

**November 2015**

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



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

TO: Colorado Water Conservation Board Members

FROM: James Eklund  
Erik Skeie

DATE: November 18-19, 2015

SUBJECT: Agenda Item 5d, November 2015 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 continue to meet often to further the implementation of Minute 319 activities, and to explore the possibility of agreeing to another Minute in the future. On November 5, the Environmental Workgroup will tour the Colorado River basin in Mexico to better understand the restoration efforts. The Staff will update the Board at the November Board meeting, and as these conversations develop. (*Ted Kowalski*)

**GLEN CANYON DAM ADAPTIVE MANAGEMENT WORK GROUP (AMWG) AND TECHNICAL WORK GROUP (TWG) MEETINGS—** The Glen Canyon Dam TWG held its annual fall meeting on October 20-21, 2015 in Phoenix, Arizona. At that meeting, the TWG received briefings on the budget and the decision not to conduct a High Flow Experiment (HFE) based on the possible effect that an HFE could have on other key resources. In addition, the Bureau of Reclamation (BOR) and the National Park Service (NPS) provided updates about the Draft EIS (DEIS) for the Long Term Experimental and Management Plan (LTEMP). They indicated that they are hopeful to release a public DEIS for the LTEMP by the end of this calendar year. The next TWG meeting, in conjunction with the annual reporting meeting, is currently scheduled for January 26-28. (*Ted Kowalski*)

**UPPER COLORADO RIVER COMMISSION (UCRC) ANNUAL WINTER MEETING—** The UCRC will meet on December 16, 2015, in Las Vegas, Nevada, in conjunction with the Annual Meeting of the Colorado River Water Users Association (CRWUA). The UCRC agenda is not yet available, but the CRWUA agenda can be found at the following link: <http://www.cvent.com/events/2015-crwua-annual-conference/agenda-5e62ec46e5a84c6b8c6ec977d62ae068.aspx>  
(*Ted Kowalski*)

**COLORADO MESA UNIVERSITY UPPER COLORADO RIVER BASIN WATER FORUM—** On October 28-29, 2015, Mesa University held its annual fall water forum on the Upper Colorado River Basin. The Program included important topics related to climate change, water management, agricultural adaption strategies, and interstate issues. Staff attended the event and presented on different topics. The conference was informative and well attended. (*Ted Kowalski*)

**U.S. FISH AND WILDLIFE SERVICE PROPOSES TO LIST LOWER COLORADO RIVER BASIN POPULATION OF ROUNDTAIL CHUB AS THREATENED UNDER ESA -** On October 7, 2015, the U.S. Fish and Wildlife Service (USFWS) published its proposal to list two minnows, the headwater chub and a distinct population segment (DPS) of the roundtail chub in the Lower Colorado River Basin (Arizona and New Mexico), as threatened species under the Endangered Species Act (ESA). According to the USFWS, threats to these species primarily consist of predation by non-native fishes, and habitat destruction due to dewatering, impoundment construction and channelization, as well as the effects of mining, livestock overgrazing, roads, water pollution, urban and suburban development, groundwater pumping and climate change. The roundtail chub was historically considered common in deep pools and eddies of large streams throughout its range in the Upper and Lower Colorado River basins in Wyoming, Utah, Colorado, New Mexico and Arizona. Today, the roundtail chub occupies about 52 percent of its historical range in the Lower Colorado River Basin and is limited to Arizona's Little Colorado, Bill Williams, Salt, San Carlos and Verde River drainages, Eagle and Aravaipa creeks, and New Mexico's upper Gila River. The Lower Colorado River Basin roundtail chub DPS has been a candidate for listing under the ESA since 1985. In 2009, the USFWS published a finding on a petition to list a DPS of roundtail chub and found that the population segment qualifies as a DPS, and concluded that listing of the Lower



Colorado River Basin DPS of the roundtail chub was warranted but precluded due to higher priority listing actions at the time. In 2010, the U.S. District Court for the District of Columbia approved as settlement of multiple legal challenges a work plan under which the USFWS will systematically, over a period of six years, review and address the needs of more than 250 candidate species to determine whether they should be added to the federal list of endangered and threatened species. Under that work plan, the USFWS was required to make listing decisions for the two chubs by September 30, 2015. The listing proposal does not include roundtail chub populations in the Upper Colorado River Basin, such as those that occur in the San Miguel and Dolores Rivers. More information on the USFWS proposal is located at: <http://www.fws.gov/southwest/es/arizona/Roundtail.htm> (*Linda Bassi*)

~STATEWIDE~

**DNR, CWCB AND USFS FINALIZE MEMORANDUM OF UNDERSTANDING—** On October 8, 2015, the U.S. Forest Service (USFS), Colorado Department of Natural Resources (DNR), and the CWCB finalized their renewed Memorandum of Understanding (MOU) that addresses cooperation on issues involving water management and water uses on National Forest System (NFS) lands in Colorado. The parties entered into their first MOU in 2004, renewed and updated the MOU in 2009, and extended the MOU for one year in 2014. Updates to the MOU include commitments to meet at least annually to share information and data to further the understanding of water needs on NFS lands, and to continue to work together during Forest Plan revision and implementation to identify and address in advance issues that could be significant factors in the authorization and management of water supply facilities on NFS lands. A copy of the MOU can be found as General Attachment 03. (*Linda Bassi*)

**GROUND WATER COMMISSION MEETING—** The Ground Water Commission (GWC) did not hold a meeting since the last CWCB meeting. For more information visit: <http://water.state.co.us/groundwater/CGWC/Pages/default.aspx>. (*Suzanne Sellers*)

**HB 13-1248 UPDATE—** During the September 2015 CWCB meeting, staff provided an informational presentation regarding criteria and guidelines for Colorado's fallowing-leasing pilot program (Program). The original authorizing language for the Program was contained in HB 13-1248, with more recent legislative changes contained in SB 15-198. Proposed revisions to the previously adopted criteria and guidelines (approved by the Board in November 2013) are needed, and will be based on legislative requirements as well as specific changes suggested by the criteria and guidelines technical committee. The committee's focus was largely on adjustments needed as a result of real-world application of the technical criteria and the Lease-Fallowing Water Accounting Tool (LFT) to the Catlin Canal Pilot Project. As a reminder, the first-ever pilot project of this nature was sponsored by the Lower Arkansas Valley Water Conservancy District and Super Ditch, which has been operating successfully during the 2015 irrigation season. The on-going work by Kevin Rein (DWR) and the technical committee, related to this subject, is greatly appreciated. While all of the suggested changes are not necessarily based on full consensus of the Technical Committee, staff will post its recommended version of the revised criteria and guidelines on the CWCB website for a 60-day public comment period. Staff plans to include an agenda item during the January 2016 CWCB meeting for discussion, public input, and Board action. (*Tom Browning*)

## ~ARKANSAS RIVER BASIN~

**ARKANSAS RIVER COMPACT ADMINISTRATION—** The 2015 Annual Meeting of ARCA will be held in Garden City, Kansas on Dec. 9-10. Director Eklund and two appointed members, Lane Malone and Scott Brazil will represent Colorado. A principle focus of the meeting will be joint efforts with CPW to secure approval of additional water supplies for the John Martin Reservoir permanent fish pool. We will also be introducing a proposed Colorado engineering study to support the creation of a new storage account at John Martin for the benefit of well augmentation groups and compliance with the Division 2 irrigation improvement rules. (*Steve Miller*)

## ~COLORADO RIVER BASIN~

**COLORADO RIVER WATER USE—** As of October 19, 2015, the Lake Mead water level was at 1078.67 feet with 9.901 million acre-feet (MAF) of storage, or 38% of capacity, while the Lake Powell water level was at 3605.87 feet with 12.319 MAF of storage, or 51% of capacity. Total system active storage as of October 19 was 30.177 MAF, or 51% of capacity, which is 121,000 AF more than one year ago. As of October 15, 2015, the unregulated inflow into Lake Powell for Water Year 2015 has been 10.174 MAF, which is 94% of average.

**2015 Water Use Forecast:** As of October 19, the 2015 Reclamation forecast for the Lower Basin states' consumptive use of Colorado River water is 7.197 MAF, which includes Arizona at 2.608 MAF, California at 4.351 MAF, and Nevada at 0.238 MAF. The forecast for 2015 for California's agricultural consumptive use of Colorado River water is 3.242 MAF. The Metropolitan Water District of Southern California's forecast for 2015 use is 0.970 MAF. (*Andy Moore*)

**UPPER COLORADO RIVER WILD AND SCENIC STAKEHOLDER GROUP—** The provisional period of the Stakeholder Group Plan will begin on December 19, 2015. The Stakeholder Group held its regular meeting on October 30, 2015 in Glenwood, CO. The Stakeholder Group meeting included discussions on planning the first Governance Committee meeting to be held on January 12, 2016 in Summit County. The first provisional period annual meeting for all stakeholders will be held in March 2016. The recent meeting included discussions on the provisional period task list, provisional period work group roles and organization, operation of the governance committee, governance committee leadership roles, finances, and updates by the various workgroups and interest groups as well as from the BLM and Forest Service. Additional information on the UCRW&S Group can be found at <http://www.upcowildandscenic.com>. (*Suzanne Sellers*)

**COLORADO RIVER BASIN SALINITY CONTROL PROGRAM—**The CRBSCP Forum and Advisory Council Fall 2105 meetings were held in Tucson, AZ on October 28-29. Pat Pfaltzgraff, Director of the Water Quality Control Division [WQCD- CDPHE], and David Robbins represented Colorado. Steve Miller and Dave Kanzer [CRWCD] participated as a member of the Forum's Work Group. Discussions included the following items:

- The pending award of 8-9 new USBR irrigation improvement projects to Colorado water users as a result of the 2015 Funding Opportunity Announcement [FOA] with a potential value of approximately \$20 million. The CWCB's construction fund program provided small [\$2500 - \$10,000] technical assistance grants to approximately 20 applicants, greatly improving their chances of successfully competing in the FOA. Several of the awarded projects will also be utilizing partial funding available through the CRWCD's RCPP grant which made them more competitive under USBR's evaluation factors.

- The Forum instructed the Work Group to begin the process of conducting the 2017 review of the water quality standards for salinity in the Colorado River Basin.
- The Colorado Dept. of Agriculture and CWCB will take the lead in working with Utah officials on updating program delivery options and funding through the Basin States Program.
- There continues to be an issue with insufficient funds in the salinity control account of the Lower Basin Development Fund, which provides 85% of the mandatory cost-share to the program. This in turns limits the amount of federal funds that can be requested and the overall size of the program. The seven Basin States are working together to find means of augmenting the fund and revising the cost-share allocation between the Upper and Lower Basin funds.
- The 2016 Spring Forum and Advisory Council meetings will be hosted by the CWCB in Keystone, Colorado on June 8 - 9. In addition the Work Group will meet in February and April of 2016. *(Steve Miller)*

#### ~PLATTE RIVER BASIN~

**PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM—** The Platte River Recovery Implementation Program (PRRIP) Governance Committee (GC) held its regular meeting on September 8-9, 2015 in Kearney, NE. Agenda items included regular committee meeting and budget updates and an update of the J2 Reservoir Project. The GC received a presentation on the Platte Basin Timelapse (PBT) Project and discussed the 2014 State of the Platte Report. The GC supported moving ahead with Structured Decision Making (SDM) as a tool to facilitate the “adjust” phase of adaptive management related to the conclusion that Short Duration High Flows (SDHFs) will not produce suitable nesting sandbars. During Executive Session, the GC was briefed on the revised cost of the J-2 Reregulating Reservoir project. The original cost estimate was \$63M and the revised estimate is now \$170M, not including of land acquisition. The GC authorized the Executive Director’s Office to work with project partners on pursuing the J-2 project within original budget. In parallel, the Program is evaluating and implementing several other Water Action Plan projects to ensure the Program meets its First Increment water management objective. The GC approved the following items during the meeting: the scope of work and recommended peer review panel members for the Forage Fish Synthesis Document peer review, CNPPID Irrigator Water Leasing Agreement, and the 2015-2019 Whooping Crane Monitoring Contract. CWCB staff also participated in Technical Advisory Committee (TAC), Water Advisory Committee (WAC), Independent Science Advisory Committee (ISAC), and Finance Committee (FC) meetings. The next regular GC meeting will be held on December 1, 2015 in Denver, CO. For more information, please visit: <http://www.platteriverprogram.org/Pages/default.aspx>. *(Suzanne Sellers)*

#### ~SAN JUAN/SAN MIGUEL-DOLORES RIVER BASIN~

**LOWER DOLORES PLAN WORKING GROUP UPDATE—** In March 2015, the Legislative Subcommittee of the Lower Dolores Plan Working Group released a discussion draft of proposed federal legislation that would establish a National Conservation Area (“NCA”) (from below McPhee Dam to Bedrock) and remove the finding of Wild and Scenic suitability from the Dolores River, among other things. In response to some stakeholders’ concerns about certain legal aspects and potential consequences of establishing a NCA, the Southwestern Water Conservation District, Dolores Water Conservancy District, Montezuma Valley Irrigation Company, Dolores County, San Miguel County, and Montrose County retained attorney David Robbins to conduct a legal review of the draft legislation. Questions raised include if and how the proposed NCA could impact water supplies and water rights; and the difference between a National Monument and NCA in the context of water issues. Mr. Robbins provided his legal

review to the above-referenced water boards and counties via a letter dated August 8, 2015. After providing extensive background on how federal land management decisions can affect state water uses and users, Mr. Robbins recommended that local stakeholders work with Congress to craft legislation establishing a statutory mechanism that permits special management of the federal lands and adjacent waters in and along the Dolores River and its tributaries, similar to the current proposed approach. Mr. Robbins also provided specific comments on the draft legislative language. On September 30, 2015, Mr. Robbins met with board members and commissioners of the sponsoring entities and also presented his findings at a well-attended public meeting in Cortez, CO. Stakeholders are continuing discussions of the NCA proposal in light of Mr. Robbins's legal analysis. Darlene Marcus of Congressman Scott Tipton's Durango staff has joined the Legislative Subcommittee, which intends to continue negotiating and refining the proposed legislative language.

Additional information on the Lower Dolores Plan Working Group can be found at:  
<http://ocs.fortlewis.edu/drd/meetings.asp>. (*Linda Bassi*)

**RIVER PROTECTION WORKGROUP**— The River Protection Workgroup (RPW) Drafting Committee held a regular meeting on October 27, 2015 in Durango, Colorado with its next meeting scheduled for November 20, 2015 in the same location. The Drafting Committee is currently engaged in negotiations and development of consensus approaches for the protection of the five rivers, and specifically related outstanding remarkable values (ORVs) in the San Juan River basin, while protecting the ability of water users within Colorado to fully use its compact entitlements. The group has been working on resolving differences between a proposal by Trout Unlimited and an alternate proposal by the Wilderness Society and the San Juan Citizen's Alliance. The RPW Steering Committee has come to a tentative agreement-in-principle that incorporates features from both of the proposals. The Steering Committee has now shifted to the "drafting phase" of a regional legislative package with the understanding that there are still some details to be worked through. The agreement-in-principal includes pursuing instream flow (ISF) rights, the removal of suitability, Wild and Scenic designation, and the maintenance of suitability within the five watersheds of the San Juan Basin. Additional information on the RPW can be found at:  
<http://ocs.fortlewis.edu/riverprotection>. (*Suzanne Sellers*)

#### ~ WATER CONSERVATION AND DROUGHT PLANNING UPDATES ~

##### CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE—

One grant application has been received since the September 2015 Director's Report

- East Larimer County Water District - Water Efficiency Plan Update

Two grants have been approved since the September 2015 Board meeting

- Town of Telluride - Toilet Replacement Program (\$37,083)
- Southeastern Colorado Water Conservancy District - Water Efficiency Plans & System-wide Water Audits (\$49,889)

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

- Colorado WaterWise - AWWA M36 Water Audit Training Pilot Project - 75% Progress Report & Final Report
- Town of Windsor -Water Efficiency Plan Update -50% Progress Report
- City of Ouray - Water Measurement Plan - 50% Progress Report

- Arapahoe County Water & Wastewater Authority - Water Efficiency Plan Update - 75% Progress Report
- Center for Resource Conservation - School District Water Efficiency Project - 50% Progress Report
- City of Cortez - Water Meter Replacement Program - 50% & 75% Progress Reports
- City of Brighton - WaterSmart Software Pilot Program - Final Report  
(Ben Wade)

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

#### **DROUGHT MANAGEMENT PLANS—**

##### Approved Plans

- Town of Erie

#### **WATER EFFICIENCY PLANS—**

##### Approved Plans

- Town of Firestone
- City of Greeley
- Town of Aspen

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
- Aurora Water
- Mount Crested Butte
- Southeastern Colorado Water Conservancy District Supplemental Regional Plan

##### Water Efficiency Plans in review

- Town of Castle Rock
- Cherokee Metropolitan District
- La Junta

(Kevin Reidy & Ben Wade)

**GOVERNOR’S WATER AVAILABILITY TASK FORCE—** The next Water Availability Task Force meeting will be held on November 17, 2015 from 1:00-3:00pm at the Colorado Parks & Wildlife Headquarters, 6060 Broadway, Denver, CO in the Bighorn 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—** Thirty two percent of the state is currently classified as abnormally dry, but none of the state is in an active drought classification. Recent precipitation has helped to replenish soil moisture following a relatively dry start to October. Overall evapotranspiration rates are below average

for the season and the growing season is coming to a close. Water supplies continue to increase and statewide storage remains high. Water providers are reporting strong system-wide storage levels and demand is also low. El Niño has gained strength over the last few months and continues to be forecasted as a strong event; typically El Niño results in average to above average precipitation across the state. (*Taryn Finnessey*)

**WATER AND GROWTH DIALOGUE—** Through a Water Efficiency Grant, the Keystone Center is facilitating a dialogue to quantify water use through different land use patterns as well as bringing together land use and water managers to discuss where integration can occur. Staff is on the technical advisory group as well as the steering committee. The group is modeling runs using Denver Water's water use data and running that through different land use pattern scenarios. At present time, Denver Water is still running numbers through their model. (*Kevin Reidy*)

**CFWE CITIZEN'S GUIDE TO CONSERVATION WORKGROUP—** Staff has been asked to participate 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. Staff attended the first brainstorming session in early August and CFWE staff is creating the outline for the next edition from the feedback from that meeting. The workgroup will review a couple of drafts over the coming months and the guide should be published at the end of March 2016. (*Kevin Reidy*)

#### **-WATERSHED AND FLOOD UPDATES-**

**COLORADO HEALTHY RIVERS FUND UPDATE—** The Colorado Healthy Rivers Fund (CHRF) Designees have approved the funding recommendations jointly made by staff at the CWCB, Water Quality Control Division (WQCD), and the Colorado Watershed Assembly (CWA). The Designees include two members of the CWCB and two members of the Water Quality Control Commission (WQCC).

The CWCB received a total of 18 applications by the April 30, 2015 deadline. Copies of these applications were sent to the WQCD and CWA. Staff at the CWCB, WQCD, and CWA reviewed and scored these applications according to the program guidance approved by the Designees. CWCB, WQCD, and CWA staff met and jointly ranked the applications.

The CHRF revenue balance and the respective needs of the top ranked projects were also reviewed. Funding requests exceeded the amount available for grant awards. The total funding request was \$536,525. The total 2015 CHRF funding award is \$90,500. Two applications are recommended for full funding, and four applications are recommended for partial funding. The funded projects include channel and riparian restoration on James Creek in Boulder County, Tomichi Creek near Gunnison, and the Slate River in Crested Butte. Outreach, education, and stakeholder engagement are funded for the Colorado Data Sharing Network and the Pugatoire Watershed Partnership in the Arkansas Basin, Wetland restoration planning is approved in the Animas Watershed near Silverton. (*Chris Sturm*)

**POLLINATOR PLANTING PROJECT ON THE SOUTH PLATTE—** The Presidential Memorandum: Creating a Federal Strategy to Promote the Health of Honey Bees and Other Pollinators was created by the Obama Administration in 2014 as a result of rampant pollinator species decline in the U.S. One of the leading causes of pollinator decline is a lack of continuous forage and habitat. Pollinators significantly contribute to the wellbeing of our plant communities and food economy. The White House has estimated that honey bees alone bring in \$15 billion to the U.S. economy each year.

To promote the health of pollinator communities, the CWCB is working with stakeholders represented in the South Platte Working Group, the National Resources Conservation Service, and the U.S. Fish and Wildlife Service to create a pollinator planting project along the South Platte River through the Denver Metro area. The project design promotes pollinator communities along the South Platte by working through public private partnerships, and tapping into local, state, and federal funding sources. Planting locations include a reach of river owned by the CWCB, along private properties, and in public park areas. The project seeks to plant species with varied bloom times to increase year-long habitat that spans 15-20 acres throughout the river corridor.

This concept was presented by staff at the September 2015 South Platte Working Group meeting and received positive feedback. The group has expressed that they would like to include students from communities along the river to be involved in the planting projects. This effort will work to engage river communities, protect pollinator species, and allow plant communities to thrive, all while promoting healthy river systems. (*Stephanie DiBettito*)

#### MAPPING UPDATE—

**FY15 Activities:** Activities for the State Hazard Mapping Program are underway and survey work is nearly complete. The first quarterly meeting with communities will take place on November 6, 2015. A new mapping specialist has been hired to manage the State Hazard Mapping Program and assist with other related duties. This is a three year term limited position.

**FY14 Activities:** The draft erosion zone study for the Salt Creek Wash near the Town of Collbran in Mesa County has been completed and submitted to FEMA. 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 next few months. 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 submitted to FEMA.

**FY13 Activities:** The El Paso County as a partial Countywide DFIRM is now in the post-preliminary phase. A final meeting with the community officials and the public meeting took place on October 6, 2015. 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 by the end of 2015. 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. A final meeting took place in June with communities in Chaffee County and in August with for Pitkin County. The public meeting for Pitkin County took place on September 29, 2015. Logan County DFIRM appeal period has ended and the Letter of Final Determination (LFD) is scheduled to be 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 is scheduled to be 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.

**FY 06 Activities:** Weld County completed the Appeal period in early December 2014. Weld County final DFIRMs will become effective in January 2016. Fremont County DFIRMs became effective on January 6, 2012. Clear Creek County has gone effective July 17, 2012.

**FY 05 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.

**FY 04/03 Activities:** Boulder County maps became effective on December 18, 2012.  
(Thuy Patton)



**PAGOSA SPRINGS MIDDLE SCHOOL SCIENCE DAY—** On October 1st the CWCB staff and Oklahoma University - Advanced Radar Research Corporation presented to the 8th grade science classes at Pagosa Springs Middle School. In exchange for free roof space at the middle school and free internet use for the equipment, Pierre Kirstetter of O.U. and CWCB staff agreed to teach the science classes for one day. The radiometer was brought into class, and the mobile radar that was used as part of the RWEACT project was put in the school yard. One of the students said it was her best day of school and she was going to pursue a career in the sciences. Students were taught about radar and radiometer science, remote sensing with satellites, and cloud and precipitation types. Pictured is the radar in the school yard and Dr. Pierre Kirkstetter explaining the computers inside of the radar.  
(Joe Busto)



**NEW REMOTE ICE NUCLEUS GENERATORS ON GRAND MESA—** The Water Enhancement Authority applied for Gunnison Basin and Colorado River Basin Roundtable funding to match with the CWCB Weather modification permitting program. The funding put two new cloud seeding machines for the north and south side of the Grand Mesa September 15 and 16. The BRT funding and local initiative helped the CWCB meet the deliverables to the Lower Colorado River Basin states for WY 2015. The Lower Basin is also interested in industry standard equipment in operation in the west. New seeders are part of the technology transfer and modernization work of the CWCB.



High elevation sites get silver in clouds, remote operated seeders put control to start and stop in the operator's hand, and data loggers and flow meters keep track of silver/hour totals for greater accountability and scientific analysis. Pictured is an Idaho Power technician installing a seeder above Collbran at 9300 feet MSL elevation. (Joe Busto)

**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 19 out of 251 total National Flood Insurance Program participating communities that have not yet provided documentation of adopting the Rules. In accordance with the procedure outlined in Rule 16, staff will begin sending notices of non-compliance at the beginning to 2016 to those communities. Staff will continue to provide outreach and technical assistance to communities. (*Jamie Prochno*)

#### ~AGENCY UPDATES~

**RECENTLY DECREED ISF WATER RIGHTS—** On September 1, 2015, the Division 2 Water Court decreed an instream flow water right to the CWCB on the Purgatoire River in Case No. 09CW090 for 21.0 cfs (5/15-8/15), 15.0 cfs (8/16-9/15), 8.4 cfs (9/16-11/30), 7.0 cfs (12/1-4/14), and 8.4 cfs (4/15-5/14), with an appropriation date of January 27, 2009. The upstream terminus is confluence of the Middle and North Forks of the Purgatoire River and the lower terminus is the confluence with Lopez Canyon. This ISF reach is approximately 4.67 miles long and flows in an easterly direction through parts of Las Animas County. The CWCB entered into stipulations with the following parties in this case: the City of Trinidad; Sheep Camp Holdings, LLC; Hill Ranch LTD; Pioneer Natural Resources USA, Inc.; and XTO Energy Inc.

On September 1, 2015, the Division 2 Water Court decreed an instream flow water right to the CWCB on the South Fork Purgatoire River in Case No. 09CW088 for 18.0 cfs (6/1-6/30), 13.0 cfs (7/1-8/15), 5.0 cfs (8/16-10/15), 3.0 cfs (10/16-4/30), and 9.6 cfs (5/1-5/31), with an appropriation date of January 27, 2009. The upstream terminus is confluence with an unnamed tributary and the lower terminus is the confluence with Torres Canyon. This ISF reach is approximately 7.7 miles long and flows in a northeasterly direction through parts of Las Animas County. The CWCB entered into stipulations with the following parties in this case: Tercio Ranch Holdings, LLC; Sheep Camp Holdings, LLC; Hill Ranch LTD; Pioneer Natural Resources USA, Inc.; and XTO Energy Inc.

On October 1, 2015, the Division 1 Water Court decreed an instream flow water right to the CWCB on Shell Creek in Case No. 14CW3149 for 1.1 cfs (4/1-10/31), and 1.0 cfs (11/1-3/31), with an appropriation date of January 28, 2014. The upstream terminus is its headwaters and the lower terminus is the Bureau of Land Management property boundary. This ISF reach is approximately 6.25 miles long and flows in a northerly direction through parts of Larimer County. The CWCB entered into a stipulation with the Cache La Poudre Water Users Association. (*Rob Viehl*)

**NEW STAFF UPDATE—** The Watershed and Flood Protection Section has taken on new staff and consultants to help manage many of the new efforts undertaken by the section in the wake of the 2013 flood. Stephanie DiBetitto has been hired in a three-year term-limited position to manage the Hazard Mapping Program created by SB 15-245, which remaps floodplains in the areas affected by the 2013 floods as well as establishes pilot programs to analyze debris flows and erosion zones. Stephanie previously worked as a temporary employee for the agency, where she worked on numerous programs in various sections, including Colorado's Water Plan and the Colorado Watershed Restoration Program.

The Section has procured the services of Resilient Watershed Partners (RWP), a consultant team that will be used to assist with management of the \$60+ million Emergency Watershed Protection (EWP) Program, a partnership with the NRCS. In addition to program management, RWP will also be available to provide design services for individual projects within the program, if desired by the local sponsors.

Finally, the Section is conducting interviews to hire a second three-year term-limited position, which will be in charge of contracting and accounting services associated with the EWP program. The Section anticipates having the new hire on board sometime in December. (*Kevin Houck*)

~GENERAL ATTACHMENTS~

- 01 Steam and Lake Protection De Minimis Cases
- 02 Instream Flow and Natural Lake Level Program - Summary of Resolved Opposition Cases
- 03 Signed DNR, CWCB, and USFS MOU
- 04 Signed DNR, CWCB Regional Conservation Partnership Program Support Letter

~LOAN PROGRAM ATTACHMENTS~

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

**Director's Report Attachment – November 18-19, 2015 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.

<b>Case No.</b>	<b>Applicant</b>	<b>Stream/ Case Number</b>	<b>ISF Amount</b>	<b>Percent Injury</b>	<b>Cumulative % Injury</b>	<b>Previous Cases</b>
2-96CW017	Crissey B. Smith & Susan Shampine	Cottonwood Creek/ 2-79CW115	20 cfs (summer) 20 cfs (winter)	0.00335 % 0.00221 %	0.67604% 0.32452%	205
5-15CW3066	Javier Gonzalez- Bringas & Laura Maine	Roaring Fork River/ 5-85CW639	145 cfs (summer) 75 cfs (winter)	0.00227 % 0.00163 %	0.62471% 0.91102%	18
6-15CW3032	Richard Counts	Hunt Creek/ 6-79CW221	5 cfs (summer) 5 cfs (winter)	0.22483 % 0.10427 %	0.22483 % 0.10427 %	0

November 18-19, 2015 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. 1-13CW3185 - Application of the City of Fort Collins**

The Board ratified this statement of opposition at its March 2014 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed storage water rights do not injure the Board's instream flow water rights on the North Fork of the Cache la Poudre River by inundation. 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 rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
1-85CW428	North Fork Cache la Poudre River	14	11/8/1985	Cache la Poudre	Larimer
1-85CW430	North Fork Cache la Poudre River	20	11/8/1985	Cache la Poudre	Larimer

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

- The requested enlargement of Halligan Reservoir in this case will inundate two instream flow water rights. At the May 2015 Board meeting, the Board ratified the Director's decision to defer the inundation request. In the decree and stipulation, the City agreed to request and obtain board approval of the inundation request before any water is diverted under the Halligan Enlargement water right.
- The City requested to reuse, successively use, fully consume, and dispose of to extinction the water available to the Halligan Reservoir Enlargement Water Right. In order to use the water in this way, Fort Collins must maintain dominion and control over both the sewered and the non-sewered return flows resulting from its use of the right. Details regarding dominion and control are included in the decree, including some uses for irrigation that requires a separate decree. A continuing retained jurisdiction decree provision allows the court to reconsider the reuse quantification methodology at a later date.

- Use outside of the Ft. Collins service area pursuant to contract exchanges or water trades made by mutual agreement with other water users is allowed “provided these uses are in accordance with a decree that authorizes the use, or pursuant to a substitute water supply plan approved under C.R.S. § 37-92-308 or interruptible water supply agreement approved under C.R.S. § 37-92-309, or successor statutes.”

**(2) Case No. 2-12CW124 - Application of Climax Molybdenum Company**

The Board ratified this statement of opposition at its March 2013 meeting. The Board’s main objective in filing the statement of opposition in this case was to ensure that the Applicant’s proposed plan for augmentation and exchange do not injure the Board’s instream flow water rights on the East Fork Arkansas River and the Tennessee Creek by not replacing out-of-priority depletions in amount, timing or location. Staff, in cooperation with the Attorney General’s Office, has negotiated a settlement to ensure that the CWCB’s instream flow water rights will not be injured. A Decree was entered by the Court on October 21, 2015.

The CWCB holds the following ISF water rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
2-77W4646	East Fork Arkansas River	15	1/19/1977	Arkansas	Lake
2-98CW146	Tennessee Creek	6/19/9	12/9/1998	Arkansas	Lake

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 CRS 37-93-102(3)(b), CWCB agreed to limited depletions consistent with historical practices occurring at the time of the instream flow appropriation on East Fork Arkansas, as follows:

Climax may divert from the Storke Water Pump Station (“SWPS”) the amount of water captured from 93.3 acres of land, described in paragraph 7.A.I. of the Proposed Decree regardless of the amount of flow present in the East Fork of the Arkansas River instream flow right. Over any one year, Climax may divert from the SWPS in-priority and out-of-priority for a total combined amount of water captured from the 93.3 acres of land for mine-related uses, which represents the historical drainage intercepted and pumped by the SWPS that pre-dated the CWCB East Fork Arkansas ISF Right appropriation. Any diversions of the SWPS of water from lands greater than 93.3 acres, or uses of the SWPS water right that are different than those uses that existed at the appropriation date of the CWCB East Fork Arkansas ISF Right are subject to administration during an instream flow call.

**(3) Case No. 5-14CW3043 - Application of Constance Harvey Revocable Trust, et al.**

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 change of water rights does not injure the Board’s instream flow water

rights on Snowmass Creek. Some of the water rights are claimed with senior appropriation dates. The instream flow water rights may be subject to these water rights under C.R.S. 37-92-102(3)(b) if the new water rights are sufficiently documented and verified. 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 rights that could have been injured by this application:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-76W2943A	Snowmass Creek	7.0-12.0	1/14/1976	Roaring Fork	Pitkin
5-76W2943B	Snowmass Creek	11.0-12.0	1/14/1976	Roaring Fork	Pitkin
5-92CW280	Snowmass Creek	3.0	9/15/1992	Roaring Fork	Pitkin
5-92CW281	Snowmass Creek	10.5	9/15/1992	Roaring Fork	Pitkin

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 CRS 37-93-102(3)(b), CWCB agreed to limited depletions consistent with historical practices occurring at the time of the instream flow appropriations on Snowmass Creek and the Roaring Fork River, as follows:

Applicants may divert their Hunter Ditch Extension water rights to irrigate up to 80 acres on Applicants' property, regardless of the amount of flow present in the Snowmass Creek and Roaring Fork River instream flow rights. However, diversions under the Hunter Ditch Extension water right and the senior Hunter Ditch right will be subject to administration and will be limited to irrigation of 80 acres during an instream flow call.

The following cases were resolved by Letters-in-Lieu in 2015:

(1) Case No. 1-14CW3135 - Application of Republican River Water Conservancy District and Yuma County Water Authority Public Improvement District (Settled January 2015) During the January 2015 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right decreed in Case No. W-8061 (1975) on the North Fork Republican River. This case was resolved by a letter agreement, dated January 30, 2015, by which CWCB agreed not to file a statement of opposition provided Applicant incorporates the following terms and conditions into the decree:

- Applicants recognize that the CWCB's existing instream flow water right decreed in Case No. W-8061 (1975) on the North Fork Republican River was decreed prior to the filing of case 1-2014CW3135.
- Future diversions and credits for the F. D. Johnson Ditch and the O'Donnell Ditch and O'Donnell Ditch Enlargement shall be limited to the historical diversion amounts for these water rights.

(2) Case No. 5-15CW3014 - Application of Westbank Development, LLC (Settled April 2015)

During the April 2015 Water Court Resume Review, CWCBC staff identified concerns regarding potential injury to CWCBC's instream flow water right on Castle Creek and the Roaring Fork River. This case was resolved by a letter agreement, dated April 20, 2015, by which CWCBC agreed not to file a statement of opposition provided Applicant incorporates the following terms and conditions into the decree:

- Westbank recognizes that the CWCBC's existing instream flow water rights decreed in Case Nos. 76W2947, 76W2948, and 85CW646, District Court, Water Division No.5 on Castle Creek and the Roaring Fork River were decreed prior to the filing of this case.
- The Exchange decreed herein and described in paragraph 7(c) is junior to the CWCBC's previously decreed instream flow water rights listed in paragraph 8(b) and will not be operated when such decreed instream flows are not met and the river is being administered.
- When the CWCBC's decreed instream flow water rights listed in paragraph 8(b) are not met and the river is being administered, Westbank shall cease diversions at the Westbank Ditch, cease storage in Westbank Pond, and will allow Westbank Pond to decrease in volume commensurate with evaporation.
- Westbank Pond shall not intercept groundwater.

(3) Case No. 5-15CW3009 Application of John and Juliet Wilcox (Settled April 2015)

During the April 2015 Water Court Resume Review, CWCBC staff identified concerns regarding potential injury to CWCBC's instream flow water right on Castle Creek and the Roaring Fork River. This case was resolved by a letter agreement, dated April 24, 2015, by which CWCBC agreed not to file a statement of opposition provided Applicant incorporates the following terms and conditions into the decree:

- Applicant recognizes that the CWCBC's existing instream flow water rights decreed in Case Nos. 76W2947, 76W2948, and 85CW646, District Court, Water Division No. 5 on Castle Creek and the Roaring Fork River were decreed prior to the filing of this case.
- The Montezuma Exchange decreed herein is junior to CWCBC's previously decreed instream flow water rights listed above and will not be operated when such decreed instream flows are not met and the CWCBC has placed a call that is recognized and administered by the Division Engineer.
- When CWCBC's previously decreed instream flow water rights listed above are not met and the CWCBC has placed a call for such rights that is recognized and administered by the Division Engineer, Applicant shall (a) not operate the Montezuma Exchange decreed herein; (b) not augment irrigation use from the Montezuma Ditch Pipeline without first obtaining a separate plan for augmentation; (c) curtail all out-of-priority irrigation from this structure; and (d) replace all out-of-priority indoor use by release from the Montezuma Storage Tanks either to the stream or directly to indoor use.
- No out-of-priority indoor uses will be allowed until the Montezuma Storage Tanks are in place, operable, and contain sufficient supply to replace any out-of-priority indoor uses.



**(4) Case No. 3-15CW3022 - Application of Blanca Ranch (Settled Sept 2015)**

During the September 2015 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right on Sangre de Cristo Creek. This case was resolved by a letter agreement, dated September 21, 2015, by which CWCB agreed not to file a statement of opposition if Applicant provides an engineer's confirmation to the effect of the following:

- If future pumping impacts Sangre de Cristo Creek at all, that impact will occur downstream of the existing instream flow reach.
- Historical irrigation return flows did not return to the surface stream within the instream flow reach of Sangre de Cristo Creek.
- Future pumping will not impact the existing instream flow reach, a change in timing of groundwater withdrawal from seasonal irrigation use upstream to year-round domestic use downstream will likewise not impact the existing instream flow reach.

**(5) Case No. 5-15CW3064 - Application of 9025 Brush Creek Road, LLC (Settled Sept 2015)**

During the September 2015 Water Court Resume Review, CWCB staff identified concerns regarding potential injury to CWCB's instream flow water right on Brush Creek. This case was resolved by a letter agreement, dated September 15, 2015, by which CWCB agreed not to file a statement of opposition provided Applicant incorporates the following terms and conditions into the decree:

- Applicant will not pursue its claims for direct flow diversions for recreational, piscatorial and aesthetic purposes in this case. Any decree entered in this case awarding a water right for Chinery Spring No. 1 will not include those three uses among the purposes for which the water right is decreed.



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FS Agreement No. 15-MU-11020000-072

Cooperator Agreement No. \_\_\_\_\_

**MEMORANDUM OF UNDERSTANDING**  
**Between The**  
**STATE OF COLORADO**  
**DEPARTMENT OF NATURAL RESOURCES**  
**And The**  
**COLORADO WATER CONSERVATION BOARD**  
**And The**  
**USDA, FOREST SERVICE**  
**ROCKY MOUNTAIN REGION**

This MEMORANDUM OF UNDERSTANDING (MOU) is hereby made and entered into by and between the State of Colorado Department of Natural Resources and its agencies, hereinafter referred to as "the DNR," the Colorado Water Conservation Board, hereinafter referred to as the CWCB, and the USDA, Forest Service, Rocky Mountain Region, hereinafter referred to as the "U.S. Forest Service."

Background: This MOU replaces MOU number 09-MU-11020000-058 which expired July 10, 2015.

Title: Colorado Department of Natural Resources

**I. PURPOSE:**

The purpose of this MOU is to document the cooperation between the parties to establish a framework for the U.S. Forest Service, the DNR, and the CWCB to work together in a cooperative manner on issues regarding the management of water and water uses on National Forest System (NFS) lands in Colorado, in accordance with the following provisions.

**II. STATEMENT OF MUTUAL BENEFIT AND INTERESTS:**

Water is the lifeblood of Colorado, the allocation and management of which plays a crucial role in the vitality of Colorado's economy and way of life. Water dependent wildlife, fish, scenic, aesthetic, ecological and recreational values of NFS lands in Colorado contribute substantially to the economy of the state, and the enjoyment of the public.

The prior appropriation system was developed in Colorado to govern the appropriation, use and distribution of water tailored to Colorado's unique physiologic, hydrologic and climatic conditions. The Forest Service authorizes the use and occupancy of NFS lands for numerous water supply and transport facilities in Colorado that allow for the exercise of water rights under the prior appropriation system and federal law.



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Federal and State interests in the management of water resources on NFS lands require coordination and cooperation between the DNR and the Forest Service. There are numerous federal and state laws pertaining to the management of land and water resources, and collaborative efforts consistent with state and federal law will lead to most effective management of water resources for all uses.

It is in the public interest to find collaborative solutions to challenging natural resource issues under cooperative agreements. Cooperation will result in more benefits to the public and the water resource than other means.

The Forest Service recognizes and respects the authority of the State to allocate water available for appropriation, respects valid water rights that are granted, exercised, and managed in accordance with state law, and will manage water resources on NFS lands to minimize impacts adversely affecting the exercise of such rights while meeting federal responsibilities.

In consideration of the above premises, the parties agree as follows:

### **III. THE FOREST SERVICE, THE DNR, AND THE CWCB DO HEREBY AGREE :**

- A. To respect both federal and state laws and regulations. The DNR's responsibilities include developing and implementing state water policy and administering all state water rights. The CWCB's responsibilities include water policy and planning, and the administration of the State's Instream Flow and Natural Lake Level Program. The Forest Service's responsibilities include stewardship of water resources and permitting third party uses of water facilities on NFS lands. The Forest Service and the DNR will seek to integrate federal and state responsibilities into our respective and mutual decision making processes under this MOU.
- B. To pursue collaborative ways to assure continued operation of water use facilities on NFS lands while protecting aquatic resources in a manner that facilitates and supports a constructive, trusting relationship between all parties. In this spirit, our respective staffs will focus on flexibility and opportunity.
- C. That conflicts are best avoided by careful advance planning and a spirit of cooperation. The parties agree that when conflicts arise, they should be resolved by federal and state authorities working together in cooperation with water right holders and where appropriate, tribal and local governments and other interested parties.
- D. That Forest Land and Resource Management Plans (Forest Plans) are the appropriate management tools for long term planning and decision making to assure continued operation of permitted water facilities on NFS lands. The parties



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agree to continue to work together during Forest Plan revision and implementation to identify and address in advance issues that could be significant factors in the authorization and management of water supply facilities on NFS lands, and to recognize and plan for the continued exercise of these non-federal water rights as a valuable resource benefit of NFS lands.

- E. That the reauthorization of existing water facilities on NFS lands will be done in cooperation and collaboration with the holders of the permits and with other parties such as local governments, tribes, and state and federal agencies to the extent consistent with federal law.
- F. To work together to identify steps that can be taken to better integrate federal and state laws and activities concerning protection and management of riparian resources, aquatic habitat, and instream flows on NFS lands.
  - 1. The CWCB and the Forest Service will seek ways to achieve instream flow protection in high priority stream reaches through innovative measures consistent with state and federal law.
  - 2. Where the Forest Service has secured appropriated water rights appurtenant to land acquisitions, it may enter into agreements with the CWCB in regards to changing the use of such water rights to instream flows and protecting and enforcing those rights consistent with federal and state laws.
  - 3. The CWCB will work with the Forest Service to identify monitoring and stream gauging needs on stream reaches deemed of special importance to the Forest Service, and the Forest Service and the CWCB will jointly identify funding sources for additional stream monitoring and stream gauges on such stream reaches as necessary or appropriate.
  - 4. The CWCB and the Forest Service will work together concerning the operation and maintenance of stream gauges on stream reaches deemed of special importance to the Forest Service by providing funding or in-kind services where possible.
  - 5. Where appropriate, the CWCB and the Forest Service will work together when water users on NFS lands wish to donate, sell or lease water to the CWCB as a means of providing for instream flow protection purposes.
  - 6. The CWCB will aggressively monitor and enforce instream flow water rights and file Statements of Opposition in water court if a water right application is determined to injure the CWCB's instream flow water rights within the boundaries of National Forest and Grasslands.



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- G. To meet at least annually to share information and data to further the understanding of water needs on national forest system lands, and to protect these resources consistent with state and federal law.
- H. To maintain, protect, and restore watersheds as appropriate through cooperative adaptive management, including analysis and planning to maintain aquatic habitat or improve degraded aquatic habitat conditions where they exist.

#### IV. IT IS MUTUALLY UNDERSTOOD AND AGREED BY AND BETWEEN THE PARTIES THAT:

- A. **PRINCIPAL CONTACTS.** Individuals listed below are authorized to act in their respective areas for matters related to this agreement.

##### Principal Cooperator Contacts:

<b>Cooperator Program Contact</b>	<b>Cooperator Administrative Contact</b>
Name: Linda Bassi, Chief Stream and Lake Protection Section, Colorado Water Conservation Board Address: 1313 Sherman Street Room 721 City, State, Zip: Denver, CO 80203 Telephone: 303-866-3441 x3204 FAX: 303-866-4474 Email: <a href="mailto:linda.bassi@state.co.us">linda.bassi@state.co.us</a>	Name: Doug Mahan, Office Coordinator Colorado Water Conservation Board Address: 1313 Sherman Street Room 721 City, State, Zip: Denver, CO 80203 Telephone: 303-866-3441 x 3244 FAX: 303-866-4474 Email: <a href="mailto:doug.mahan@state.co.us">doug.mahan@state.co.us</a>

##### Principal U.S. Forest Service Contacts:

<b>U.S. Forest Service Program Manager Contact</b>	<b>U.S. Forest Service Administrative Contact</b>
Name: Cherie Hamilton, Acting Director Renewable Resources Address: 740 Simms Street City, State, Zip: Golden, CO 80401 Telephone: 303-275-5002 FAX: 303-275-5075 Email: <a href="mailto:cehamilton@fs.fed.us">cehamilton@fs.fed.us</a>	Name: Rebecca Cuthbertson Address: 740 Simms Street City, State, Zip: Golden, CO 80401 Telephone: 303-275-5068 FAX: 303-275-5453 Email: <a href="mailto:rcuthbertson@fs.fed.us">rcuthbertson@fs.fed.us</a>

- B. **NOTICES.** Any communications affecting the operations covered by this agreement given by the U.S. Forest Service or the DNR and the CWCB is sufficient only if in writing and delivered in person, mailed, or transmitted electronically by e-mail or fax, as follows:



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To the U.S. Forest Service Program Manager, at the address specified in the MOU.

To the DNR and the CWCB, at the DNR's address shown in the MOU or such other address designated within the MOU.

Notices are effective when delivered in accordance with this provision, or on the effective date of the notice, whichever is later.

- C. PARTICIPATION IN SIMILAR ACTIVITIES. This MOU in no way restricts the U.S. Forest Service or the DNR and the CWCB from participating in similar activities with other public or private agencies, organizations, and individuals.
- D. ENDORSEMENT. Any of the DNR and the CWCB's contributions made under this MOU do not by direct reference or implication convey U.S. Forest Service endorsement of the DNR and the CWCB's products or activities.
- E. NONBINDING AGREEMENT. This MOU creates no right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity. The parties shall manage their respective resources and activities in a separate, coordinated and mutually beneficial manner to meet the purpose(s) of this MOU. Nothing in this MOU authorizes any of the parties to obligate or transfer anything of value.

Specific, prospective projects or activities that involve the transfer of funds, services, property, and/or anything of value to a party requires the execution of separate agreements and are contingent upon numerous factors, including, as applicable, but not limited to: agency availability of appropriated funds and other resources; cooperator availability of funds and other resources; agency and cooperator administrative and legal requirements (including agency authorization by statute); etc. This MOU neither provides, nor meets these criteria. If the parties elect to enter into an obligation agreement that involves the transfer of funds, services, property, and/or anything of value to a party, then the applicable criteria must be met. Additionally, under a prospective agreement, each party operates under its own laws, regulations, and/or policies, and any Forest Service obligation is subject to the availability of appropriated funds and other resources. The negotiation, execution, and administration of these prospective agreements must comply with all applicable law

Nothing in this MOU is intended to alter, limit, or expand the agencies' statutory and regulatory authority.

- F. MEMBERS OF U.S. CONGRESS. Pursuant to 41 U.S.C. 22, no U.S. member of, or U.S. delegate to, Congress shall be admitted to any share or part of this agreement, or benefits that may arise therefrom, either directly or indirectly.



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- G. **FREEDOM OF INFORMATION ACT (FOIA)**. Public access to MOU or agreement records must not be limited, except when such records must be kept confidential and would have been exempted from disclosure pursuant to Freedom of Information regulations (5 U.S.C. 552).
- H. **TEXT MESSAGING WHILE DRIVING**. In accordance with Executive Order (EO) 13513, "Federal Leadership on Reducing Text Messaging While Driving," any and all text messaging by Federal employees is banned: a) while driving a Government owned vehicle (GOV) or driving a privately owned vehicle (POV) while on official Government business; or b) using any electronic equipment supplied by the Government when driving any vehicle at any time. All cooperators, their employees, volunteers, and contractors are encouraged to adopt and enforce policies that ban text messaging when driving company owned, leased or rented vehicles, POVs or GOVs when driving while on official Government business or when performing any work for or on behalf of the Government.
- I. **TERMINATION**. Any of the parties, in writing, may terminate this MOU in whole, or in part, at any time before the date of expiration.
- J. **DEBARMENT AND SUSPENSION**. The DNR and the CWCB shall immediately inform the U.S. Forest Service if they or any of their principals are presently excluded, debarred, or suspended from entering into covered transactions with the federal government according to the terms of 2 CFR Part 180. Additionally, should the DNR and the CWCB or any of their principals receive a transmittal letter or other official Federal notice of debarment or suspension, then they shall notify the U.S. Forest Service without undue delay. This applies whether the exclusion, debarment, or suspension is voluntary or involuntary.
- K. **MODIFICATIONS**. Modifications within the scope of this MOU must be made by mutual consent of the parties, by the issuance of a written modification signed and dated by all properly authorized, signatory officials, prior to any changes being performed. Requests for modification should be made, in writing, at least 30 days prior to implementation of the requested change.
- L. **COMMENCEMENT/EXPIRATION DATE**. This MOU is executed as of the date of the last signature and is effective for five years from that date, at which time it will expire, unless extended by an executed modification, signed and dated by all properly authorized, signatory officials.
- M. **AUTHORIZED REPRESENTATIVES**. By signature below, each party certifies that the individuals listed in this document as representatives of the individual parties are authorized to act in their respective areas for matters related to this MOU. In witness whereof, the parties hereto have executed this MOU as of the last date written below.



USDA, Forest Service

OMB 0596-0217  
FS-1500-15

MIKE KING, Executive Director  
State of Colorado, Department of Natural Resource

10/7/15  
Date

JAMES EKLUND, Director  
Colorado Water Conservation Board

10/8/2015  
Date

DANIEL J. JIRON, Regional Forester  
U.S. Forest Service, Rocky Mountain Region

9/30/15  
Date

The authority and format of this agreement have been reviewed and approved for signature.

REBECCA CUTHBERTSON  
U.S. Forest Service Grants Management Specialist

9/22/15  
Date

## Burden Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0217. The time required to complete this information collection is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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**COLORADO**  
Department of Natural Resources

November 6, 2015

Mr. Mark A. Rose, Director  
Financial Assistance Programs Division  
Department of Agriculture - Natural Resources Conservation Service  
RCPP Application  
P.O. Box 2890  
Washington, DC 20013-2890

Dear Mr. Rose and application reviewers,

On behalf of the Department of Natural Resources (DNR) and the Colorado Water Conservation Board (CWCB), please accept this unequivocal letter of support for the Regional Conservation Partnership Program (RCPP) funding proposal entitled, *Expanding the Modernization of Agricultural Water Management in the Lower Gunnison River Basin: A Producer-led Effort to Increase Water Use Efficiency While Boosting Productivity and Improving Water-Quality* (hereinafter referred to as the "Lower Gunnison Project Expansion" or LGPE).

The Colorado River Basin faces many challenges and we are working on a coordinated approach to address them. These challenges include sufficiency of water quantity and impairment of water quality. In addition, areas of the basin are affected by degraded soil conditions and habitats. Specifically, antiquated and inefficient irrigation delivery systems and irrigation practices have resulted in salt and selenium loading to local waterways and have contributed to poor soil health and habitat degradation for threatened and endangered species, thereby complicating regulatory and environmental compliance. The LGPE tackles these difficult issues by building strategic relationships between water providers, agricultural producers, and local, state, and federal agencies, and by providing funding to implement critical coordination and modernization activities. These actions help achieve the goals of the RCPP within the Colorado River Basin that USDA designated as a Critical Conservation Area.

The Lower Gunnison Project was developed with significant input and engagement from agricultural producers, water providers, and environmental organizations. The LGPE supports the State's dual goals of protecting our agricultural heritage and its sustainability while addressing important local natural resource concerns. In fact, the CWCB not only provided input to the initial Lower Gunnison Project, with \$173,000 of matching funds, but is committed to providing up to an additional \$500,000, subject to appropriations from the General Assembly, (approximately \$100,000 per year) of matching funds. These funds are directly related to three important State initiatives: 1.) the legislatively-approved Species Conservation Trust Funds monies being expended on Selenium Management Program; 2.) the State Water Planning efforts related to the Basin Implementation Plans; and 3.) the state-appropriated monies related to the RCPP, made available to the CWCB Director and Board for successful RCPP projects.

In closing, we urge you to give your continued and full support to the innovative and unique LGPE. We are confident that you support leveraging significant funding sources and help motivated partners engage in this type of locally coordinated, comprehensive strategy that not only maximizes agricultural water use efficiency and promotes natural resource sustainability. For us in Colorado, this is a much better and viable approach than the harmful "buy and dry" practices that have occurred in other parts of the western United States

Sincerely,

Mike King, DNR Executive Director

James Eklund, CWCB Director





**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

Mike King, DNR Executive Director

James Eklund, CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: November 18-19, 2015 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:

- 1.80% - Agricultural
- 2.50% - Low-income Municipal
- 2.90% - Middle-income Municipal
- 3.25% - 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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John Hickenlooper, Governor

Mike King, DNR Executive Director

James Eklund, CWCB Director

**TO:** Colorado Water Conservation Board Members

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

**DATE:** November 18-19, 2015 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 two 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
<b>Previously Approved Applications</b>						
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
Lookout Mountain Water District	Upper Beaver Brook Dam Spillway Improvement	July 1, 2015	South Platte	The purpose of this project is to increase the storage capacity of the reservoir by constructing a new, larger spillway in order to raise the normal pool elevation.	\$3,400,000	\$3,060,000
To be presented at November 2015 meeting						
Orchard Ranch Ditch Company	Ditch Piping Project	May 1, 2015	Gunnison	The project is a salinity control project that includes piping 1.6 miles of canal. The company hopes to fund \$1M of the project through Bureau of Reclamation Salinity Control Program funds.	\$1,100,000	\$250,000
<b>Totals</b>					<b>\$7,000,000</b>	<b>\$4,072,500</b>

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/or a loan feasibility study.

## LOAN PROSPECTS

Basin	Last Contact	BORROWER	PROJECT NAME	PROJECT COST	LOAN AMOUNT
South Platte					
	15-Aug	NISP Participants	NISP	\$600,000,000	\$100,000,000
	14-Dec	Harry Lateral Ditch Company	Ditch Lining Project		\$70,000
	14-May	Colorado Trout Group	Reservoir Rehabilitation		\$300,000
	14-Jun	Dixon Reservoir Water Company	Reservoir Rehabilitation		\$300,000
	15-Aug	Kembel Reservoir	Reservoir Rehabilitation		\$200,000
	14-Dec	Upper Platte & Beaver Ditch Company / Duel & Snyder Ditch Company	Diversion Structure		\$1,000,000
	15-July	Bijou Irrigation District	Reservoir Rehabilitation		\$500,000
	14-Dec	Bijou Irrigation Company	Pipeline Project		\$200,000
				<b>TOTAL</b>	<b>\$102,270,000</b>
Arkansas					
	12-Feb	Colorado City Metro District	Beckwith Dam Repair		\$500,000
	13-Apr	City of Walsenburg	Reservoir(s) Rehabilitation		\$6,000,000
	13-Dec	Stonewall Springs, LLC	Reservoir Construction	\$6,000,000	\$5,500,000
	14-Feb	Colorado Springs Flycasting Club	Reservoir Rehabilitation		\$450,000
	14-Oct	Oxford Ditch	Siphon Repair	\$2,000,000	\$1,800,000
	14-Dec	Holita Ditch and Reservoir Company	Reservoir Rehabilitation		\$500,000
	14-Nov	Town of Manitou Springs	Raw Water Pipeline	\$3,500,000	\$3,000,000
	15-Aug	Southeastern Colorado Water Conservancy District	Hydro Project		\$15,000,000
	15-Apr	Fountain Creek Watershed District	Water Rights Purchase	\$3,000,000	\$1,000,000
	15-July	City of Woodland Park	Storage Project	\$9,000,000	\$1,000,000
				<b>TOTAL</b>	<b>\$34,750,000</b>
San Miguel/Juan					
	14-July	Moonlight Ditch	Ditch Lining (NRCS)		\$200,000
				<b>TOTAL</b>	<b>\$200,000</b>
Colorado					
	15-June	Kendall Reservoir	Reservoir Rehabilitation		\$400,000
				<b>TOTAL</b>	<b>\$400,000</b>

Gunnison					
				<b>TOTAL</b>	<b>\$0</b>
North Platte					
				<b>TOTAL</b>	<b>\$0</b>
Rio Grande					
	15-Jun	Manasa Land & Irrigation Co.	Ditch Rehabilitation		\$6,000,000
	14-May	Baca Grande Water and Sanitation District	Water Rights Purchase		\$1,000,000
				<b>TOTAL</b>	<b>\$7,000,000</b>
Yampa					
	15-Apr	Town of Oak Creek	Reservoir Rehabilitation		\$500,000
				<b>TOTAL</b>	<b>\$500,000</b>
				<b>TOTAL</b>	<b>\$145,120,000</b>

Information shown is based on current staff knowledge and will likely change as Loan Prospects develop.

## Recent inquiries:

- St Vrain and Left Hand Water Conservancy District - Reservoir Rehabilitation
- Rock Creek Mesa Water District - Pipeline Project
- Orchard Mesa Irrigation District - Hydroelectric Project
- Private owners - EM Curry Reservoir
- City of Ft. Collins - Ditch Repair
- Town of Firestone - Water Rights and Storage Project



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James Eklund, CWCB Director

**TO:** Colorado Water Conservation Board Members

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

**BOARD MEETING:** November 18-19, 2015

**DIRECTORS REPORT:** Water Project Loan Program  
Design & Construction Status Report

The CWCB Loan Program has Substantially Completed seventeen (17) projects in Calender Year 2015 as shown in Table 1. There are currently sixty-two (62) projects authorized to receive loan funding totaling \$254.4 million. There are fifty-three (53) projects currently under contract and in the Design and Construction phase totaling \$182.5 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	Mancos WCD	Inlet & Outlet Canal Rehab.	Montezuma	\$1,451,556	1/1/15
2	Lone Cabin Ditch & Res. Co.	Lone Cabin Dam Rehab. Proj.	Delta	\$123,448	2/1/15 (a)
3	Parker Water & San. District	WISE - ECCV Pipeline Purchase	Douglas	\$4,426,830	2/1/15
4	Denver SE Sub. W&S District	WISE - ECCV Pipeline Purchase	Douglas	\$1,845,270	2/1/15
5	Joseph W. Bowles Res. Co.	Bowles No. 1 Dam Rehab.	Jefferson	\$1,668,391	3/1/15 (b)
6	Town of Dillon	Old Dillon Res. Enlargement	Summit	\$1,515,000	4/1/15 (c)
7	Farmers' High Line Canal & Reservoir Company	System Rehabilitation Project	Adams/ Jefferson	\$2,129,918	5/1/15
8	Platte Valley Irrigation Co.	Lake Outlet Works Rehab.	Weld	\$738,466	5/1/15
9	Sterling Irrigation Company	Emergency Ditch Rehabilitation	Logan	\$101,000	5/1/15
10	Terrace Irrigation Company	Spillway Replacement Project	Conejos	\$2,712,602	6/6/15 (d)
11	East Mesa Water Company	Ditch Piping Project	Pitkin/Weld	\$732,927	7/1/15
12	Greeley Irrigation Company	Greeley Canal No. 3 Rehab.	Weld	\$1,134,839	7/1/15
13	Eckhardt Farms Inc.	Water Rights Purchase	Weld	\$1,336,230	9/1/15
14	Penrose Water District	Water Rights & Pipeline Install	Fremont	\$9,763,370	10/1/15
15	Santa Maria Reservoir Co.	Siphon and Canal System Rehab.	Hinsdale/ Mineral	\$1,405,163	11/1/15
16	Santa Maria Reservoir Co.	Dam Spillway Restoration	Hinsdale/ Mineral	\$3,677,663	11/1/15(e)
17	Lower Poudre Augment. CO.	Cornish Water Rights Purchase	Larimer/Weld	\$1,163,015	11/1/15
			Total:	\$35,320,443	

Calender Year 2015 has added or preserved 16,765AF of reservoir storage [(a) 163, (b) 2,062, (c) 140, (d) 2,000, (e) 12,000]







## Jackson Gulch Inlet Canal Rehabilitation

Mancos Water Conservancy District  
Substantially Complete January 1, 2015



AFTER



BEFORE

### Project Description

The Project included the rehabilitation of the District's Jackson Reservoir Inlet Canal. Improvements included access road rehabilitation along with seepage repairs of the half mile long existing concrete box culvert. In addition, the canal required approximately a half mile of concrete lining and the installation of approximately 1600 feet of twin eight foot diameter concrete pipes. The trapezoidal concrete canal is approximately 30 feet wide at the top, 12 feet wide at the bottom and 6 feet deep. The canal was reshaped and covered with a PVC geomembrane liner sandwiched between two layers of geotextile fabric and covered with a protective concrete filled Geoweb surface on the side slopes with a rock-filled canal bottom.

P R O J E C T   D A T A		
<i>Sponsor:</i> Mancos Water Conservancy District	<i>County:</i> Montezuma	<i>Water Source:</i> Mancos River
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> November 2002
<i>Amended Term of Loan:</i> \$1,451,556.12 at 2.80% Interest for 20 years		
<i>Design Engineer:</i> Buckhorn Geotech, Montrose CO		
<i>Contractor:</i> Mays Construction Specialists - Grand Junction CO; C&J Gravel, Durango CO		
<i>Project Elements:</i> 1600LF twin 8ft diameter RCP, 1000LF access road improvements, 2000LF trapezoidal contract lining, 2000LF of box culvert seepage repair.		





## Lone Cabin Reservoir Rehabilitation Project

Lone Cabin Ditch and Reservoir Company  
Substantially Complete February 1, 2015



The Lone Cabin Ditch and Reservoir Company provides irrigation water storage for 18 farms located on Lamborn Mesa approximately 5 miles southeast of Paonia, CO. The reservoir has a storage capacity of 163 acre-feet. This project became necessary due to a slump on the downstream face of the dam that resulted in a State Engineer's Office storage restriction to 20 feet below the dam crest. The construction project included excavation and reconstruction of the slumped area, installation of 200 LF of 6-inch toe drain collector pipe, a precast outlet pipe structure for the toe drain system, and final grading and re-seeding.

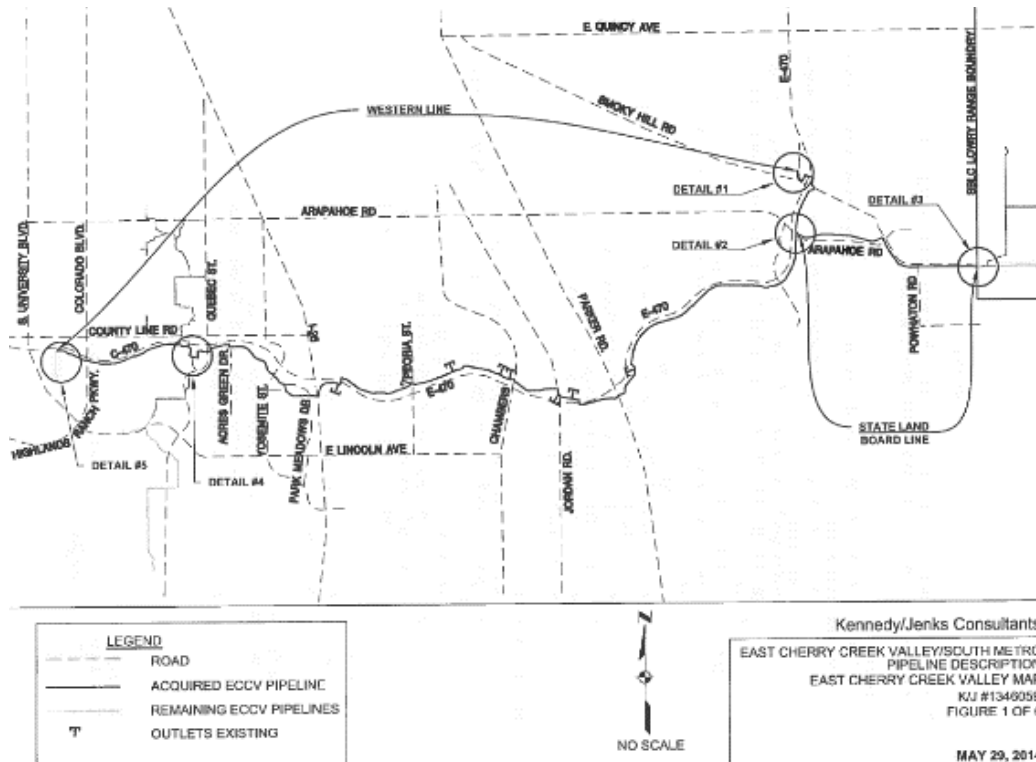


P R O J E C T   D A T A		
<i>Sponsor:</i> Lone Cabin Ditch and Reservoir Company	<i>County:</i> Delta	<i>Water Source:</i> Minnesota Crk.
<i>Type of Loan:</i> Dam Rehabilitation	<i>Board Approval Date:</i> September 2013	
<i>Amended Terms of Loan:</i> \$252,803 at 1.75% for 30 years		
<i>Design Engineer:</i> Buckhorn Geotech, Montrose, CO - Norman Aufderheide, P.E.		
<i>Contractor:</i> Lacy Construction, Crested Butte, CO		
<i>Project Elements:</i> Reconstruct slumped area in dam embankment, install new toe drain collector pipe, install piezometers. install new drain outlet structure		



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

Parker Water & Sanitation District  
Contract No. CT2015-107  
Substantially Complete February 1, 2015



## Project Description

The WISE Project is a collaborative effort by multiple south metropolitan water entities (the WISE Authority), Denver Water, and Aurora water to supplement existing water supplies by bringing reusable water supplies southward through Aurora's Prairie Waters pipeline to the East Cherry Creek Valley (ECCV) Pipeline. The WISE Authority purchased an 85% ownership share in the existing ECCV Pipeline, while the remaining 15% was purchased by Denver Water. The WISE Authority will operate and maintain the ECCV pipeline.

Each WISE Authority member's cost obligations for the project are dictated by an Organizational Agreement between the WISE Authority and WISE Authority member entities, and are dependent upon each member's subscription share for water deliveries.

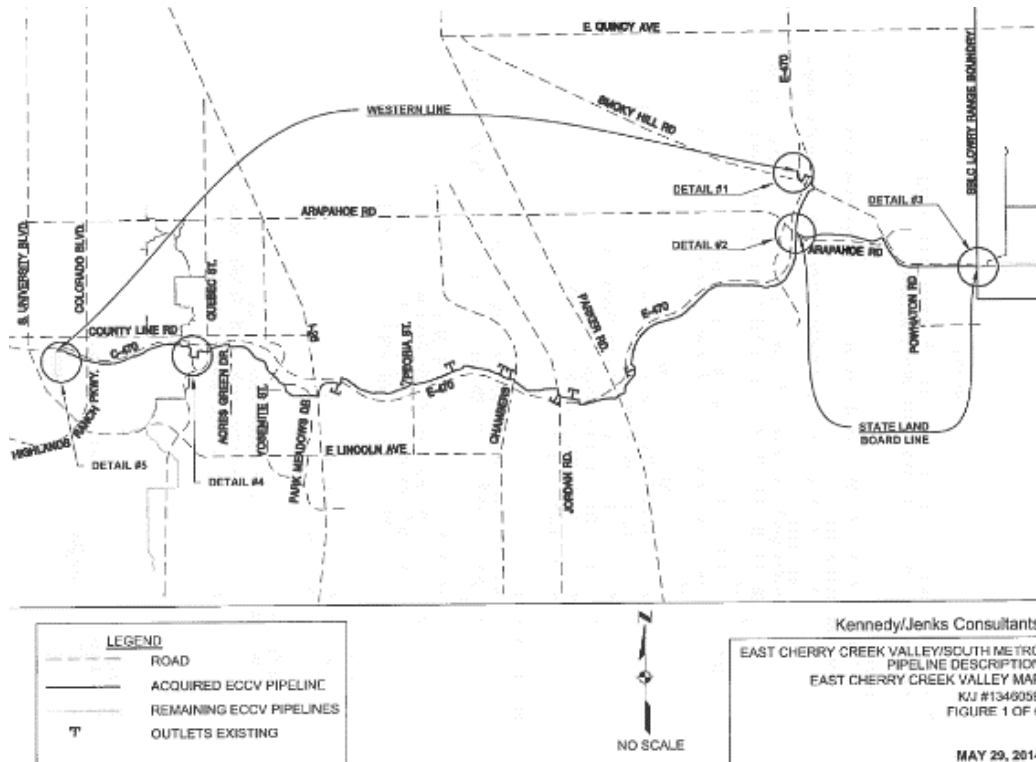
This Water Project Loan financed Parker's cost share obligations for the purchase of the ECCV Pipeline by the WISE Authority, resulting in a license agreement for approximately 17% capacity of pipeline deliveries.

P r o j e c t   d a t a		
<i>Sponsor:</i> Parker Water & Sanitation District	<i>County:</i> Douglas & Arapahoe	<i>Water source:</i> South Platte
<i>Type of loan:</i> Water Delivery System		<i>Board approval date:</i> May 22, 2014
<i>Terms of loan:</i> 20 years @ 2.75%		
<i>Design engineer:</i> No design was financed for this WISE Project element.		
<i>Contractor:</i> No construction was financed for this WISE Project element.		
<i>Project elements:</i> License Agreement for approximately 17% capacity in the ECCV pipeline.		



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

Denver Southeast Suburban Water Sanitation District (Pinery)  
Contract No. CT2015-083  
Substantially Complete February 1, 2015



## Project Description

The WISE Project is a collaborative effort by multiple south metropolitan water entities (the WISE Authority), Denver Water, and Aurora water to supplement existing water supplies by bringing reusable water supplies southward through Aurora's Prairie Waters pipeline to the East Cherry Creek Valley (ECCV) Pipeline. The WISE Authority purchased an 85% ownership share in the existing ECCV Pipeline, while the remaining 15% was purchased by Denver Water. The WISE Authority will operate and maintain the ECCV pipeline.

Each WISE Authority member's cost obligations for the project are dictated by an Organizational Agreement between the WISE Authority and WISE Authority member entities, and are dependent upon each member's subscription share for water deliveries.

This Water Project Loan financed the Denver Southeast Suburban Water Sanitation District's (Pinery's) cost share obligations for the purchase of the ECCV Pipeline by the WISE Authority, resulting in a license agreement for approximately 6% capacity of pipeline deliveries.

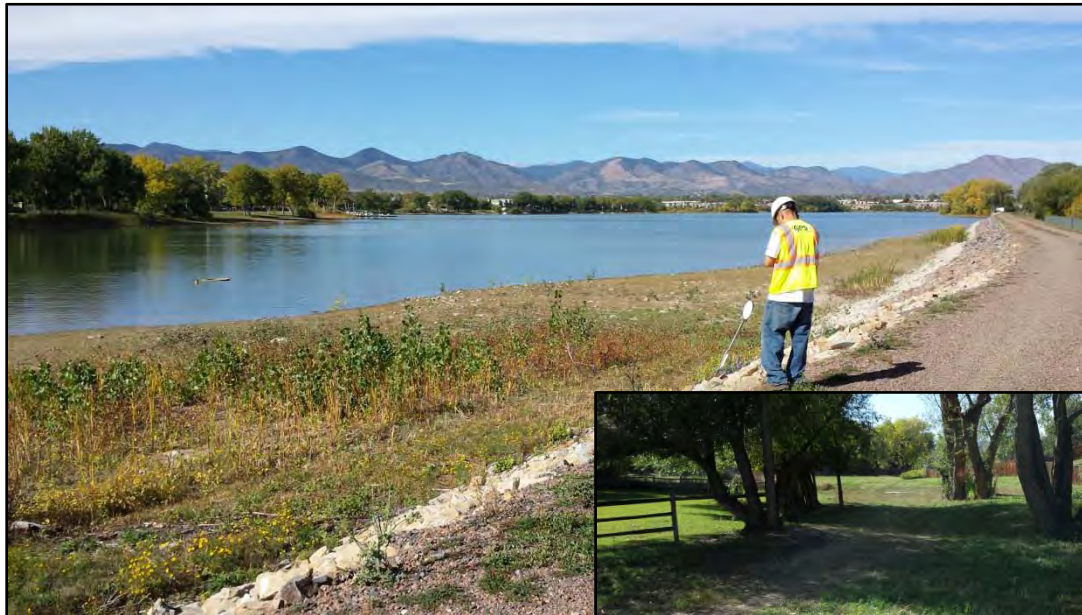
P r o j e c t   d a t a		
<i>Sponsor:</i> Denver Southeast Suburban Water & Sanitation District (Pinery)	<i>County:</i> Douglas & Arapahoe	<i>Water source:</i> South Platte
<i>Type of loan:</i> Water Delivery System		<i>Board approval date:</i> May 22, 2014
<i>Terms of loan:</i> 30 years @ 3.00%		
<i>Design engineer:</i> No design was financed for this WISE Project element.		
<i>Contractor:</i> No construction was financed for this WISE Project element.		
<i>Project elements:</i> License Agreement for approximately 6% capacity in the ECCV pipeline.		





## Bowles No. 1 Dam Rehabilitation Project

Joseph Bowles Reservoir Company  
Substantially Complete March 2015



### Project Description

The Joseph W. Bowles Reservoir Company owns and operates Bowles No. 1 Reservoir, located in the southwest metropolitan area of Denver. The Company was formed in 1906 and has 50 shareholders who use the water for municipal uses including parks, open space, and golf courses, as well as some individual ranches for irrigation water. The Project consisted of several repairs to correct dam safety deficiencies and improve the long-term performance of Bowles No. 1 Dam. Dam repairs included the widening the dam crest, reconstructing the upstream slope, installing a seepage collection and toe drain system on the downstream slope, and lining the existing dam outlet pipe. Additionally, the Project rehabilitated a section of the reservoir's inlet ditch. This work included piping a section of the open ditch, reconstructing the ditch alignment, placing slope protection in high erosion areas, and installing a flow control pipe that will provide for the safe discharge of excessive ditch flows into an existing spillway and drainage structure. This was a long term Project with many phases which saw some level of construction occurring from fall of 2010 to fall of 2014.

P R O J E C T D A T A		
<i>Sponsor:</i> Joseph W. Bowles Reservoir Company	<i>County:</i> Jefferson	<i>Water Source:</i> Bear Creek
<i>Type of Loan:</i> Dam Rehabilitation		<i>Board Approval Date:</i> May 19, 2009
<i>Terms of Loan:</i> \$1,703,870 for 30 years @ 4.65%		
<i>Design Engineer:</i> W.W. Wheeler and Associates		
<i>Contractor:</i> Winslow Construction Company, Tezak Heavy Equipment		
<i>Project Elements:</i> Widen dam crest, reconstruct upstream slope, install toe drains, line outlet pipe, ditch erosion control, pipe open ditch.		



## PROJECT DESCRIPTION

The Town of Dillon participated in the enlargement of the Old Dillon Reservoir. In 2004, the Town, Summit County and Town of Silverthorne signed an agreement to enlarge the Reservoir to 286 AF. The Town's participation cost was approximately 27% of the construction costs and 20% of the engineering costs. The Reservoir was originally a 46 AF raw water storage reservoir filled via the Dillon Ditch, which diverts water from Salt Lick Gulch to the site. The reservoir was drained in 2008 due to dam safety concerns. This project included two new dams and a pipeline system from the new Salt Lick Gulch diversion structure. The Reservoir is located southwest of the Dillon Reservoir Dam.

P R O J E C T   D A T A		
<i>Sponsor:</i> Town of Dillon	<i>County:</i> Summit	<i>Water Source:</i> Salt Lick Gulch
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> May 19, 2009
<i>Terms of Loan:</i> \$1,515,000 at 4.0% for 30 years		
<i>Project Manager:</i> Colorado River WCD, Glenwood Springs, CO		
<i>Design Engineer:</i> Tetra Tech Inc, Longmont, CO		
<i>Contractor:</i> Fiore & Sons Inc, Denver, CO		
<i>Project Elements:</i> 120,000CY excavation, 80,000CY of fill, 10,000CY riprap, and 7,000 feet of 24" HDPE pipe, an inverted siphon under I-70 and a new headgate		





# System Rehabilitation Project

Farmers Highline Canal and Reservoir Company  
Substantially Complete May 2015



New Ralston Creek Siphon



New Van Bibber Creek Siphon



Farmer's Highline Diversion - Before



Farmer's Highline Diversion - After

## Project Description

The Project included the rehabilitation of the Company's 130-year old canal system including its diversion and headgate structure, as well as the Van Bibber Creek and Ralston Creek siphons and the Club Crest storm drain crossing.

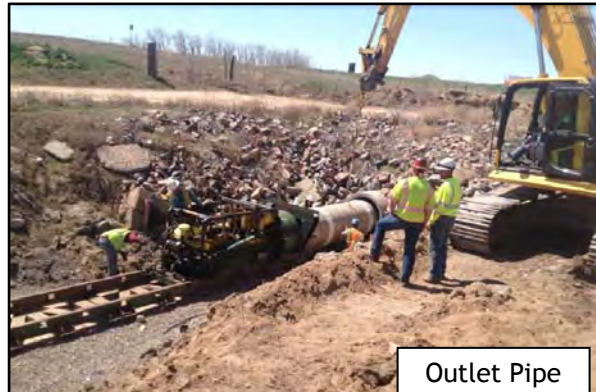
The diversion dam is a 93' concrete dam located in Golden. The existing dam was deteriorating and causing a large void to develop at the downstream toe of the dam. The dam was resurfaced with a toe wall and riprap apron added. The headgate structure consist of resurfacing the concrete structure and installing new (2) 10'-6" slide gates to the ditch, (1) 9' sandout slide gate, and (2) 6'-6" river bypass slide gates. Incorporated in the headgate rehabilitation was the installation of a SCADA system to add automation to the Company's headgates.

The Van Bibber Creek and Ralston Creek siphons were aging concrete structures with surface erosion and concrete wear exposing the aggregate and rebar. Work done included the patching and resurfacing of the concrete structure, and stabilizing the ditch embankments. The existing culvert at the Club Crest storm drain crossing was exposed and deteriorating. This corroded drain pipe was replaced.

P R O J E C T D A T A		
<i>Sponsor:</i> Farmer's High Line Canal and Reservoir Company	<i>County:</i> Adams/Jefferson	<i>Water Source:</i> Clear Creek
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> November 2010
<i>Terms of Loan:</i> \$2,209,597.00 @ 4.65% for 30-years (actual amount drawn: \$2,129,918.30)		
<i>Design Engineer:</i> Deere & Ault Consultants, Inc., Longmont, CO		
<i>Contractor:</i> Lillard & Clark Construction Company		
<i>Project Elements:</i> Diversion dam and headgate rehabilitation including SCADA installation, rehabilitation of two siphon structures, and replacement of a storm drain pipe.		



Developing  
Sinkhole



Outlet Pipe  
Slip-Lining



New Outlet Works

### Project Description

In January 2014, the Company was in the process of replacing Sand Hill Reservoir's 48" outlet gate. During construction a sink hole developed in the dam around the outlet structure, prompting an emergency response from the Company and the SEO's Dam Safety Branch. The Project team, in close coordination with the SEO, developed a project approach for the completion of the rehabilitation of the outlet structure. The repair efforts included cutting out the effected sink hole location in the dam, demolishing the existing outlet structure and rebuilding the dam and new outlet structure back up to SEO specifications. The slide gate was relocated from the interior of the dam to the front of the outlet intake in the reservoir. Additionally, the Company slip-lined the existing RCP outlet pipe.

P R O J E C T D A T A		
<i>Sponsor:</i> Platte Valley Irrigation Company	<i>County:</i> Weld	<i>Water Source:</i> South Platte River, C-BT
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> November 2014
<i>Terms of Loan:</i> \$745,380.00 @ 2.00% for 30-years (actual amount drawn: \$738,466.25)		
<i>Design Engineer:</i> Franchetti Engineering		
<i>Contractor:</i> Aslan Construction, Inc		
<i>Project Elements:</i> Emergency repair of dam outlet works. Included outlet redesign of placing slide gate into reservoir, and slip lining of RCP pipe.		





## Emergency Sterling Ditch Rehabilitation Project

Sterling Irrigation Company  
Substantially Complete May 2015



### Project Description

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged, including the Company's ditch. Floodwaters overtopped the headgate structure and entered the ditch resulting in significant sedimentation and the weakening of ditch banks. During the 2014 snowmelt high-water runoff, uncontrolled waters again entered the ditch causing additional sedimentation and ditch bank breaches. Construction crews repaired the breaches and removed sand from the ditch channel and upstream river channel. The first phase was the immediate clean out following the September 2013 flood event and the second phase was the clean out and breach repair following the spring 2014 snowmelt runoff.

P R O J E C T D A T A		
<i>Sponsor:</i> Sterling Irrigation Company	<i>County:</i> Logan	<i>Water Source:</i> South Platte River
<i>Type of Loan:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> September 2014
<i>Terms of Loan:</i> \$101,000 @ 1.50% for 10 years		
<i>Design Engineer:</i> NA		
<i>Contractor:</i> Ransom Boone Excavating		
<i>Project Elements:</i> Remove sedimentation and repair ditch breaches caused by flooding.		





**Spillway Replacement Project**  
Terrace Irrigation Company  
Substantially Complete June 1, 2015



**Project Description**

The Terrace Irrigation Company supplies irrigation water to its shareholders for irrigation of 9,300 acres of agricultural lands. The Company's Terrace Reservoir was under a restriction order from the SEO, reducing its available capacity by 2,000 AF. The Project involved the demolition of the existing spillway, raising the existing saddle dike where the spillway is located, construction of a new spillway which included a new spillway chute and stilling basin. The Company is an active participant in the Alamosa River Instream Flow Project. The ISF Project is intended to restore flows and replace natural resources damaged by mining operations in the upper reaches of the Alamosa River. Funding for this project included grant money from the CWCB's WSRA (\$1.5M) and the Summitville Natural Resource Damage account (\$2.0M). In return for NRD funding, the Company has agreed to donate 2,000 AF of storage in Terrace Reservoir towards instream flow storage to further the efforts of the ISF Project.

P R O J E C T D A T A		
<i>Sponsor:</i> The Terrace Irrigation Company	<i>County:</i> Conejos	<i>Water Source:</i> Alamosa River
<i>Type of Loan:</i> Dam Rehabilitation		<i>Board Approval Date:</i> March 20, 2012
<i>Terms of Loan:</i> \$2,751,968 @ 1.75% for 30 years		
<i>Design Engineer:</i> URS Corporation		
<i>Contractor:</i> ASI Constructors, Inc.		
<i>Project Elements:</i> 200,000 CY of Rock Excavation, 225 CY Rip Rap, 2.2M CY of Structural Concrete		



### 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		



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

## 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

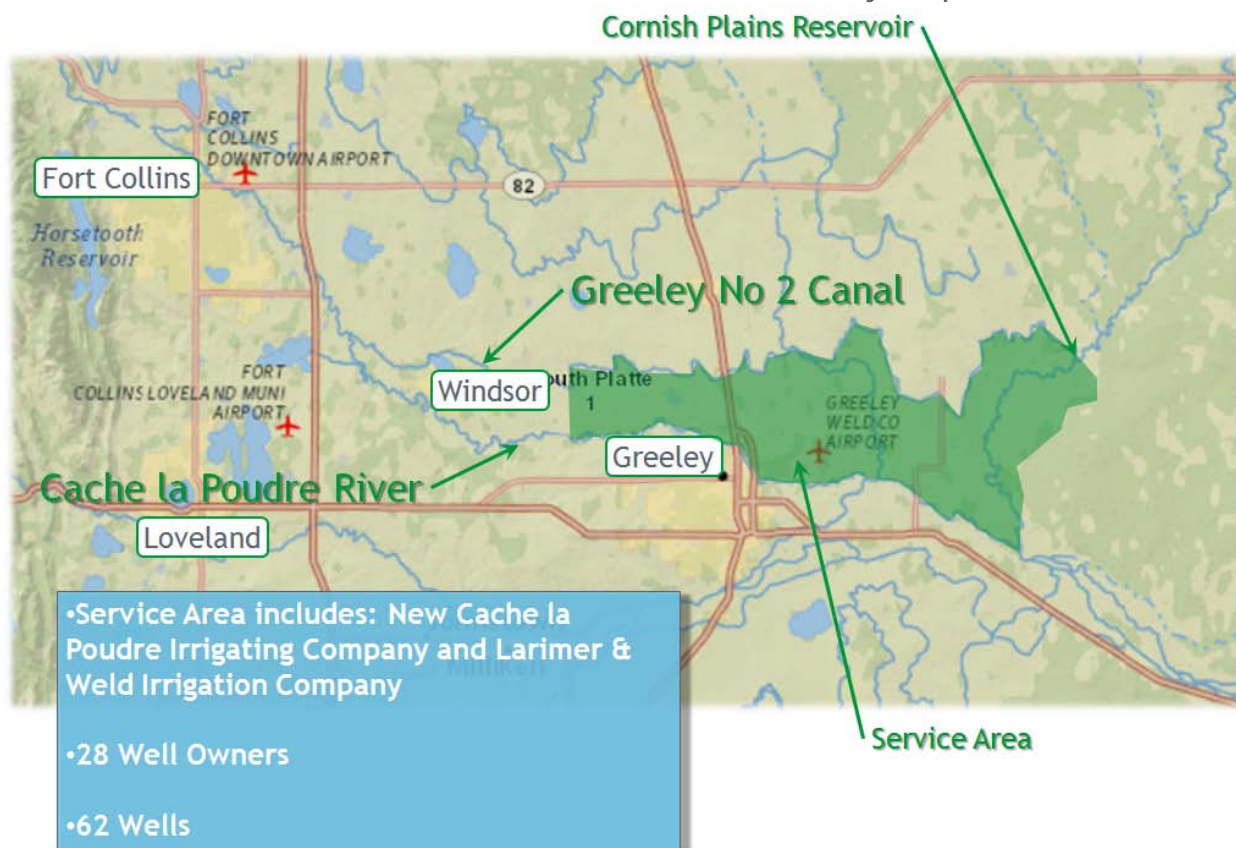
The Santa Maria Reservoir Company owns and operates Continental Reservoir (27,000 AF) and Santa Maria Reservoir (43,500 AF), located in the Rio Grande River Basin near Creede, Colorado. Santa Maria and Continental operate in conjunction with each other via a century old conveyance system made up of a 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.		



Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
<b>Projects in Design or Construction</b>								
1 Bellyache Ridge Metro District > Well Replacement Project C150356 (CT2015-015)	Eagle	\$169,175	1,900	100%	Feb 2015 - May 2016	80%	ACM	Project was bid in June 2014. The District received no bids. The engineer and District reevaluated the project and opted to drill a smaller test well. Drilling began on February 17, 2015. The test well did not produce the amount of water required by the District to meet its needs. The District's engineer recommended a new site and capping well IR. IR was capped in Oct 2015 and appears to have had a positive impact on the water availability of wells 2 and 3.
2 Bennett, Town of > Wells #3 and #6 Replacement Project CT2015-161	Adams Arapahoe	\$145,400	Well Drill	100%	May 2015 - Nov 2015	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 the end of 2015.
3 Bergen Ditch & Reservoir Company > Bergen Reservoir No. 2 Rehabilitation C150344 (CT2015-017)	Jefferson	\$2,020,000	726AF	100%	June 2015 - Dec 2015	80%	JMH	Project has been bid and Bergen worked with Low-bidder and SEO to identify cost savings in order to bring construction cost in line with the available budget. Construction started June 2015
4 Boxelder Basin Regional Stormwater Authority > Larimer & Weld Canal Crossing Structure Project C150352 (CT2015-071)	Larimer/ Weld	\$1,010,000	Structure	100%	Fall 2015 - Spring 2016	0%	JMH	Land aquisition of all required parcels has been completed and loan funds were advanced to cover land purchase costs. Final design is complete. Bids were received and contract execution is underway.
5 Boxelder Basin Regional Stormwater Authority > East Side Detention Facility Project C150353 (CT2015-070)	Larimer/ Weld	\$7,171,000	1,800AF	100%	Aug 2015 - Jan 2016	40%	JMH	Land aquisition of all required parcels has been completed and loan funds were advanced to cover land purchase costs. Construction began August 2015.
6 Boxelder Basin Regional Stormwater Authority > County Rd 52 Culvert Project C150393 (CT2015-069)	Larimer/ Weld	\$818,100	200LF	100%	Aug 2015 - Jan 2016	40%	JMH	Land aquisition of all required parcels has been completed and loan funds were advanced to cover land purchase costs. Construction began August 2015.
7 Central CO WCD - WAS > Augmentation Water Supply Project C150337 (CT2015-060)	Weld/ Adams/ Morgan	\$3,030,000	20,400AF	50%	Apr 13 - Mar 17	30%	JMH	Purchased a portion of the water rights on 4/25/13. Additional water rights/projects being identified.
8 - 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 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	
Central Colorado Water Conservancy District >(C150407A) CT2016- 2057	Arapahoe Douglas Park Weld	\$3,187,560		N/A	2019	N/A	JMH	
9 - CHATFIELD Reallocation Project - Phase 1 Mitigation								\$41,486,120

	Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
	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	
10 - CHATFIELD Reallocation Project - Phase 2 Mitigation									\$13,922,210
	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	
11	Colorado Parks & Wildlife > Beaver Park Reservoir Rehabilitation C150343	Rio Grande	\$10,000,000	4,434AF	Ph1 100% P2 100%	July '13 & Nov '15	100% 99%	KGR	Phase 1 Alsand Construction \$2M. Spillway & Grout work is complete. Phase 2 Construction by ASI Contractors was complete in Sept '15. Minor closeout work will continue through the late fall 2015. Water is currently being stored in the reservoir under SEO observation.
12	City of Cortez > Water Meter Replacement Project > CT2015-152	Montezuma	\$858,500	Meters	100%	June 2015 - Jan 2016	75%	ACM	Notice to proceed was issued in June 2015. Approximately 75% of the meters have been replaced.
13	Crystal Lakes Water and Sewer Association > Lower Lone Pine Lake Enlargement Project C150325 (CT2015-045)	Larimer	\$2,363,400	271 AF	100%	Apr 12 - Nov 14	99%	ACM	Construction was completed in November 2014. The SEO accepted the as-built drawings in June 2015. Loan will be substantially completed in late 2015.
14	Ephraim Ditch Company > Ephraim Diversion and Headgate Rehabilitation C150402 (CT2015-090)	Rio Grande	\$101,000	Structure	100%	Aug 15 - Dec 15	50%	JMH	NRCS has finalized design. Construction began August 2015.
15	Farmers Pawnee Canal Company > Diversion Structure Replacement Project C150394 (CT2015-132)	Logan	\$2,067,470	Structure	100%	Fall 14 - Fall 15	99%	DRJ	Substantial completion imminent. Project complete aside from minor electrical punch list items.

	Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
16	Fowler, Town of > Augmentation Pipeline Project C150359 (CT2015-054)	Otero	\$277,245	2,400LF	100%%	Fall 2015		DRJ	Design modifications required for alignment change. Bid process imminent.
17	Fulton Irrigating Ditch Company > Diversion Structure Rehabilitation Project C150399 (CT2015-092)	Adams	\$2,027,070	Structure	100%	Fall 14 - Summer 15	99%	DRJ	Substantial completion imminent. Gantry rake and gate operational. Minor punchlist items nearly completed.
18	Georgetown, Town of > Outlet Works Modification Project C150321 (CT2015-055)	Clear Creek	\$2,976,975	208 AF	100%	Aug 14 - Nov 15	95%	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 fall of 2015.
19	Grand Mesa Water Conservancy District > Peak Res. & Blanche Park Res. Rehabilitation C150354 (CT2015-061)	Delta	\$227,250	155AF	100%	Mar 13 - Nov 16	85%	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.
20	Greeley and Loveland Irrigation Company > Irrigation System Improvements C150362 (CT2015-022)	Larimer	\$3,154,230	1,100CFS	100%	Summer 14 - Nov 15	80%	JMH	Boyd Lake Project: Construction started January 2015, completed May 2015. Horseshoe Project: Phase 1 and 2A of Horseshoe complete, Phase 2B began October 2015. Requesting additional loan funds at November 2015 board meeting.
21	Gypsum, Town of > LEDE Ditch and Reservoir Rehabilitation C150296 (CT2015-058)	Eagle	\$2,690,000	685 AF	100%	Jul 13 - Sep 16	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.
22	Huerfano County Water Conservancy District > Regional Augmentation Project C150364 (CT2015-047)	Huerfano	\$2,222,000	19.5AF	100%	Mar 14 - Oct 16	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 reservoir.
23	Lake Canal Reservoir Company > North Gray Reservoir Rehab Project C150322 (CT2015-042)	Larimer/ Weld	\$116,625	75 AF	95%	Fall 2015 - Spring 2016	0%	JMH	Project was delayed until neighboring Boxelder East Side Detention Facility design was finalized. Project was bid but still waiting for SEO final approval (anticipated Nov 2015). Requesting additional loan funds at November 2015 board meeting.
24	Lake Durango Water Authority > Source Water Supply Project C150317 (CT2015-013)	LaPlatta	\$2,525,000	309 AF	99%	Fall 15 - Spring 17	0%	KGR	Final design near complete. ROW and easements are being negotiated. Work to be bid in the Nov. 2015.
25	Las Animas Consolidated Canal Company >Repair and Replacement of the Las Animas Consolidated Canal Spillway Structure CT2016-1007	Bent	\$363,782	26,000	100%	Fall 15 - Spring 16	0%	DRJ	Nov 15 prebid meeting, plan is to finish construction by Mar 1, 2015
26	Left Hand Ditch Company > Allen Lake and Lake Isabelle Repair Project C150336 (CT2015-088)	Boulder	\$1,475,307		100%	Nov 12 - Oct 15	99%	ACM	Allen Lake construction was completed in August 2013. Lake Isabelle outletworks construction began in 2013. No construction occurred in 2014 due to high water levels and the elevation of the project. Construction resumed in August 2015 was completed in October 2015.
27	Louden Irrigating Canal & Reservoir Company > Emergency Diversion Structure and Ditch Repair C150398 (CT2015-151)	Larimer	\$ 161,600		100%	Summer 14 - Dec 15	90%	JMH	Initial repair phase of project is complete. Improvements to the diversion and heatgate system is scheduled for Fall of 2015

	Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
28	Lower Arkansas Valley WCD >Water Rights Purchase CT2015-175	Bent, Crowley, Otero, Prowers, Pueblo	\$2,560,350		NA	Summer 2015	100%	DRJ	Substantial completion imminent.
29	McDonald Ditch Company > Ditch Diversion and Headgate Replacement C150334 (CT2015-044)	Rio Grande	\$101,000	5,018AF	100%	Dec 14 - Dec 15	50%	JMH	Phase 1 Construction (diversion dam) started December 2014, completed in March 2015. Phase 2 (pipeline) to be completed after 2015 irrigation season.
30	Monte Vista, City of > Augmentation Water Rights Acquisition C150309 (CT2015-011)	Rio Grande	\$1,693,770	321 AF	N/A	Oct 10 - Jul 17	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.
31	North Poudre Irrigation Co > Reservoir No. 4 Rehabilitation C150378 (CT2015-003)	Larimer	\$1,636,200	Structure	100%	Nov 15 - Apr 16	10%	JMH	Design was updated per SEO suggestion to upsize spillway to meet higher classification. Wildlife Mitigation completed in January 2015. Reservoir construction has been bid and will begin November 2015.
32	Northern Colorado WCD- Hydropower Enterprise > Granby Hydropower Project C150396 (CT2015-140)	Grand	\$5,135,183	Hydro	100%	May 15 - May 16	60%	JMH	Power Purchase and Lease of Power Privledge agreements signed March 2015. Construction started in May 2015
33	Oligarchy Irrigation Company > Dam Outlet Works Rehabilitation CT2016-1597	Boulder	\$860,000	1,737	90%	Winter 16 - Spring 16	0%	JMH	Company is finalizing design with SEO and has contracted with Longmont to assist in procuring construction bids
34	Overland Ditch and Reservoir Company > Overland Reservoir Rehabilitation C150206 (CT2015-034)	Delta	\$1,141,300	6,200 AF	50%	Permitting	0%	KGR	Permitting issues are being addressed to enlarge reservoir. Company is concerned about the impact of increased costs to the project
35	Owl Creek Reservoir Company > Owl Creek Reservoir Rehabilitation C150089 (CT2015-048)	Weld	\$1,125,000	1200 AF	99%	On Hold	0%	TF	The Company received bids and does not have enough funds to complete the project. The Company has expended approximately \$450,000 to-date for permitting, soils, and design and will need an additional \$600,000 to complete the project. A project partner is being sought.
36	Pisgah Reservoir and Ditch Company > Mount Pisgah Dam/Wrights Res Rehabilitation C150341 (CT2015-027)	Teller	\$1,160,655		100%	Spring 15 - Dec 16	30%	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 October 2015.
37	Plum Valley Heights Subdistrict >Raw Water Supply Project CT2015-176	Douglas	\$2,248,260		75%	Spring 15 - Dec 16	0%	JMH	Project is in final design.
38	Prairie Ditch Company > Plaza Phase 3: Prairie Ditch Imp. Project C150400 (CT2015-134)	Rio Grande	\$131,300		100%	Oct 15 - Spring 16	0%	JMH	Bids for the diversion dam were received August 27, 2015 and construction began October 2015. Headgate phase to be bid in November 2015.
39	Ridgway, Town of > Lake Otonowanda Rehabilitation Project C150340 (CT2015-056)	Ouray	\$606,000	363AF	100%	June 14 - July 15	99%	KGR	Work complete reservoir filling. Celebration was held August 31, 2015.

	Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
40	Riverside Ditch and Allen Extension Company > Ditch System Rehabilitation C150301 (CT2015-050)	Chaffee	\$186,345	3,250 LF	85%	Jul 10 - June 16	80%	KGR	Ditch lining phase of the project was completed in December 2010. Additional phases will be constructed in 2015. Utilizing NRCS La Junta Fld office for design of replacment of diversion structure. Work is expected in the Winter of 2015/16.
41	Riverside Reservoir and Land Company > Riverside Reservoir Spillway Enlargement C150291 (CT2015-026)	Weld	\$2,838,100	64,000 AF	80%	Summer 2016	0%	DRJ	Engineer expects submittal to SEO by late fall/winter of 2015. Construction anticipated summer 2016.
42	San Luis Valley Water Conservancy District > Anaconda Ditch Water Right Acquisition C150348 (CT2015-166)	Alamosa	\$839,000	260AF	N/A	2016	N/A	ACM	Water rights purchase is pending water court change case completion. There is currently one opposer in the case and trial is schedule for December 2015. This District is hopeful the purchase will occur in early 2016.
43	Sanchez Ditch and Reservoir Company > Sanchez Reservoir Outlet Rehabilitation Project C150342 (CT2015-012)	Costilla	\$1,381,276	104,000AF	100%	Oct 14 - Nov 15	90%	ACM	Construction began in Oct 2014. Outlet works work was completed in Jan 2015. Seepage and monitoring work is scheduled for winter/spring of 2015/16.
44	Sanford Canal Company > Sanford Diversion and Headgate Rehabilitation C150401(CT2015-091)	Rio Grande	\$101,000	Structure	100%	Aug 15 - Dec 15	75%	JMH	NRCS has finalized design. Construction began August 2015.
45	Thunderbird W&S Dist > Lambert Ranch Water Rights Purchase C150320 (CT2015-049)	Douglas	\$318,150	896 AF	100%	N/A	N/A	JMH	Closing has been delayed until 2015 due to easement access to purchased wells. Closing on water rights occurred September 2015. Easement aquisition process is still underway.
46	Upper Arkansas Water Conservancy District > Reservoir Rehabilitation C150192 (CT2015-052)	Chaffe/ Custer	\$3,009,800	500 AF	100%	Permitting	90%	KGR	The first phase of construction was awarded to ASI, Buena Vista, CO, and completed in May 2007. The NEPA permitting effort for the enlargmt is underway and expected to be complete by Dec 2017.
47	Upper Platte & Beaver Canal Company > Hospital Rd Recharge Facility & Bridge Project CT2015-101	Morgan	\$190,890	138 Miles	30%	Fall 14 - Spring 15	30%	DRJ	Augmentation land purchase complete. Connection to ditch supply ongoing. Draw made on loan to replace broken headgate at river diversion structure. Bridge component on hold pending possible larger diversion dam rehab project with Deuel & Snyder Ditch Co.
48	West Reservoir and Ditch Company >Repair of West Reservoir No. 1 Outlet Works Loan CT201-196 (Grant CT2015-3228)	Delta	\$248,378	454.5 AF	100%	Summer 15 - Fall16	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.
49	Windsor, Town of > Kyger Reservoir Project C150366 (CT2015-057)	Larimer/ Weld	\$4,545,000	1,100AF	20%	Summer 16 - Fall 16	0%	JMH	Town to purchase reservoir and water rights in summer 2014. Town is expected to complete design and permitting in February 2016 with constrution to occur that summer.
<b>50 - WISE Project - ECCV Pipeline Purchase</b>									\$2,227,050
	Cottonwood W&S Dist - C150408A (CT2015-102)	Douglas/ Arapahoe	\$381,780		N/A	Fall 14 - Spring 15	N/A	DRJ	80% funds disbursed.
	Inverness W&S Dist - C150409A (CT2015-117)	Douglas/ Arapahoe	\$1,845,270		N/A	Fall 14 - Spring 15	N/A	DRJ	
<b>51 - WISE Project - Phase 1 Infructure</b>									\$16,802,501

Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
Cottonwood W&S Dist - C150408B (CT2015-106)	Douglas/ Arapahoe	\$2,636,100		1%	Spring 15 - Jan 17	0%	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.
Inverness W&S Dist - C150409B (CT2015-118)	Douglas/ Arapahoe	\$1,181,700		1%	Spring 15 - Jan 17	0%	DRJ	
Parker W&S Dist - C150410B (CT2015-108)	Douglas/ Arapahoe	\$6,785,321		1%	Spring 15 - Jan 17	0%	DRJ	
Denver SE Sub W&S Dist - C150411B (CT2015-085)	Douglas/ Arapahoe	\$6,199,380		1%	Spring 15 - Jan 17	0%	DRJ	
52 - WISE Project - Phase 2 Infructure								\$7,400,078
Cottonwood W&S Dist - C150408C (CT2015-105)	Douglas/ Arapahoe	\$1,127,160		0%	Spring 15 - Fall 21	0%	DRJ	
Inverness W&S Dist - C150409C (CT2015-119)	Douglas/ Arapahoe	\$1,427,130		0%	Spring 15 - Fall 21	0%	DRJ	
Parker W&S Dist - C150410C (CT2015-109)	Douglas/ Arapahoe	\$3,418,658		0%	Spring 15 - Fall 21	0%	DRJ	
Denver SE Sub W&S Dist - C150411C (CT2015-086)	Douglas/ Arapahoe	\$1,427,130		0%	Spring 15 - Fall 21	0%	DRJ	
53 - WISE Project - DIA Connection								
Cottonwood W&S Dist - C150408D (CT2015-104)	Douglas/ Arapahoe	\$363,600		N/A	Spring 15 - Spring 21	NA	DRJ	11% funds disbursed.
Inverness W&S Dist - C150409D (CT2015-120)	Douglas/ Arapahoe	\$454,500		N/A	Spring 15 - Spring 21	NA	DRJ	No Inverness Request for Reimb received.
Parker W&S Dist - C150410D (CT2015-110)	Douglas/ Arapahoe	\$1,099,890		N/A	Spring 15 - Spring 21	NA	DRJ	11% funds disbursed.
Denver SE Sub. W&S Dist - C150411D (CT2015-087)	Douglas/ Arapahoe	\$454,500		N/A	Spring 15 - Spring 21	NA	DRJ	11% funds disbursed.

Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
Projects Under Contract SubTotal =		\$182,481,805						

**Approved Projects - Not Under Contract**

a	Southeastern CO Water Conserv. District > Arkansas Valley Conduit CT150238	Crowley	\$60,600,000	138 Miles	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	Meters	In Contracting	DRJ	Construction anticipated after 2015 November election, likely 2016 January
c	Uncompahgre Valley Water Users Association >Drop 5 Hydroelectric Project CT2015-174	Montrose & Delta	\$6,999,300	Hydro	In Contracting	KGR	
d	Brighton Dith Company >River Breach Repair Project CT2016-	Adams	\$481,770	Structure	In Contracting	JMH	
e	Fort Lyon Canal Company >Replacement of Horse Creek Flume CT2016-	Otero, Bent, Prowers	\$1,629,130	Structure	In Contracting	DRJ	
f	Lamar, City of >Repurposing of Wells 12 and 13 CT2016-	Prowers	\$101,000	Wells	In Contracting	DRJ	
g	Lower Poudre Augmentation Company >Box Elder Ditch Water Rights Purchase CT2016-	Larimer, Weld	\$454,500		In Contracting	JMH	
h	Parkville Water District >Evans Reservoir Bypass Flume Project CT2016-	Lake	\$181,800	Structure	In Contracting	DRJ	
i	Tunnel Water Company >Larimer-Poudre Tunnel Rehabilitation CT2016-	Larimer	\$1,111,000	Structure	In Contracting	JMH	

Not Under Contract SubTotal = \$71,891,295

Grand Total = \$254,373,100

**Projects Substantially Completed in Calendar Year 2015**

	Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
1	Mancos Water Conservancy District > Inlet and Outlet Canal Rehabilitation C150120 (CT2015-036)	Montezuma	\$1,451,556	15,840 LF	100%	Jan 04 - Oct 13	100%	KGR	1/1/2015
2	Lone Cabin Ditch & Reservoir Company > Lone Cabin Dam Rehab. Project C150361 (CT2015-059)	Delta	\$123,448	163AF	100%	Summer 14 - Fall 14	100%	DRJ	2/1/2015
3	Parker Water and Sanitation District > ECCV Pipeline Purchase C150410A (CT2015-107)	Douglas/ Arapahoe	\$4,426,830		NA	Fall 14 - Spring 15	100%	DRJ	2/1/2015
4	Denver Southeast Suburban Water and San. District > ECCV Pipeline Purchase C150411A (CT2015-083)	Douglas/ Arapahoe	\$1,845,270		NA	Fall 14 - Spring 15	100%	DRJ	2/1/2015
5	Joseph W. Bowles Reservoir Company > Bowles No. 1 Dam Rehabilitation C150290 (CT2015-030)	Jefferson	\$1,668,391	2,062 AF	100%	Aug 10 - Dec 14	100%	JMH	3/1/2015
6	Dillon, Town of > Old Dillon Reservoir Enlargement C150295 (CT2015-038)	Summit	\$1,515,000	286 AF	100%	Sep 10 - Oct 14	100%	KGR	4/1/2015
7	Farmers' High Line Canal and Reservoir Company > System Rehabilitation Project C150314 (CT2015-019)	Adams/ Jefferson	\$2,129,918	31 Miles	100%	Feb 11 - May 15	100%	JMH	5/1/2015
8	Platte Valley Irrigation Company > Sand Hill Lake Outlet Works Rehabilitation CT2015-139	Weld	\$738,466		100%	Summer 14 - Summer 15	100%	JMH	5/1/2015
9	Sterling Irrigation Company > Emergency Sterling Ditch Rehabilitation Project CT2015-097	Logan	\$101,000	21,364AF	100%	May-14	100%	JMH	5/1/2015
10	Terrace Irrigation Co > Spillway Replacment Project C150332 (CT15-033)	Conejos	\$2,712,602	2,000AF	100%	Jul 12 - Jul 13	100%	KGR	6/1/2015
11	East Mesa Water Company > Ditch Piping Project C150360 (CT2015-141)	Pitkin/ Garfield	\$732,927	1,450LF	100%	Feb 15 - May 15	100%%	KGR	7/1/2015
12	Greeley Irrigation Company > Greeley Canal No. 3 Rehabilitation C150239 (CT2015-021)	Weld	\$1,134,839	18,000 AF	100%%	Feb 08 - Dec 15	100%%	KGR	7/1/2015



	Contract Borrower	County	Loan Amount	Size	Design Status	Const. Start/End	Const. Status	PM	Status Description/Update
13	Eckhardt Farms Inc > Water Rights Purchase C150338 (CT2015-051)	Weld	\$1,336,230	694AF	N/A	N/A	N/A	JMH	9/1/2015
14	Penrose Water District > Water Rights Purchase and Pipeline Installation C150237 (CT2015-040)	Fremont	\$9,763,670	30,624 LF	100%	Summer 14 - Spring 16	100%%	DRJ	10/1/2015
15	Santa Maria Reservoir Company > Siphon and Canal System Rehabilitation Project C150350 (CT2015-005)	Hinsdale/ Mineral	\$1,405,163	6,300AF	100%	May 14 - Oct 15	100%%	ACM	11/1/2015
16	Santa Maria Reservoir Company > Continental Dam Spillway Rehabilitation Project C150365 (CT2015-006)	Hinsdale/ Mineral	\$3,071,633	12000AF	100%	May 14 - Nov 15	99%	ACM	11/1/2015
17	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

SubTotal = \$35,320,443

**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

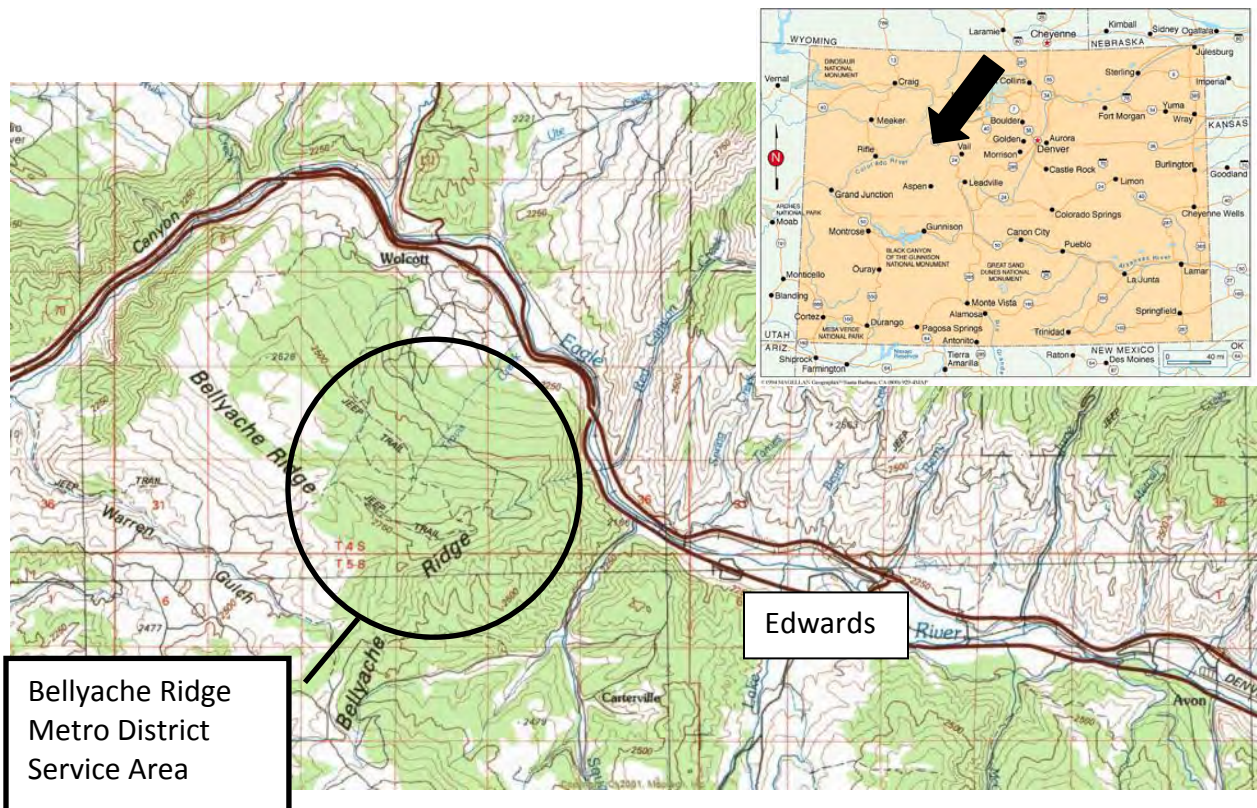
**Type of Borrower:** Municipal (High)

**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.



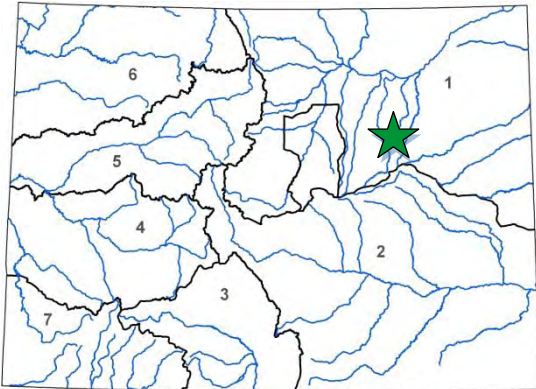


## Wells #3 and #6 Replacement Project

Town of Bennett

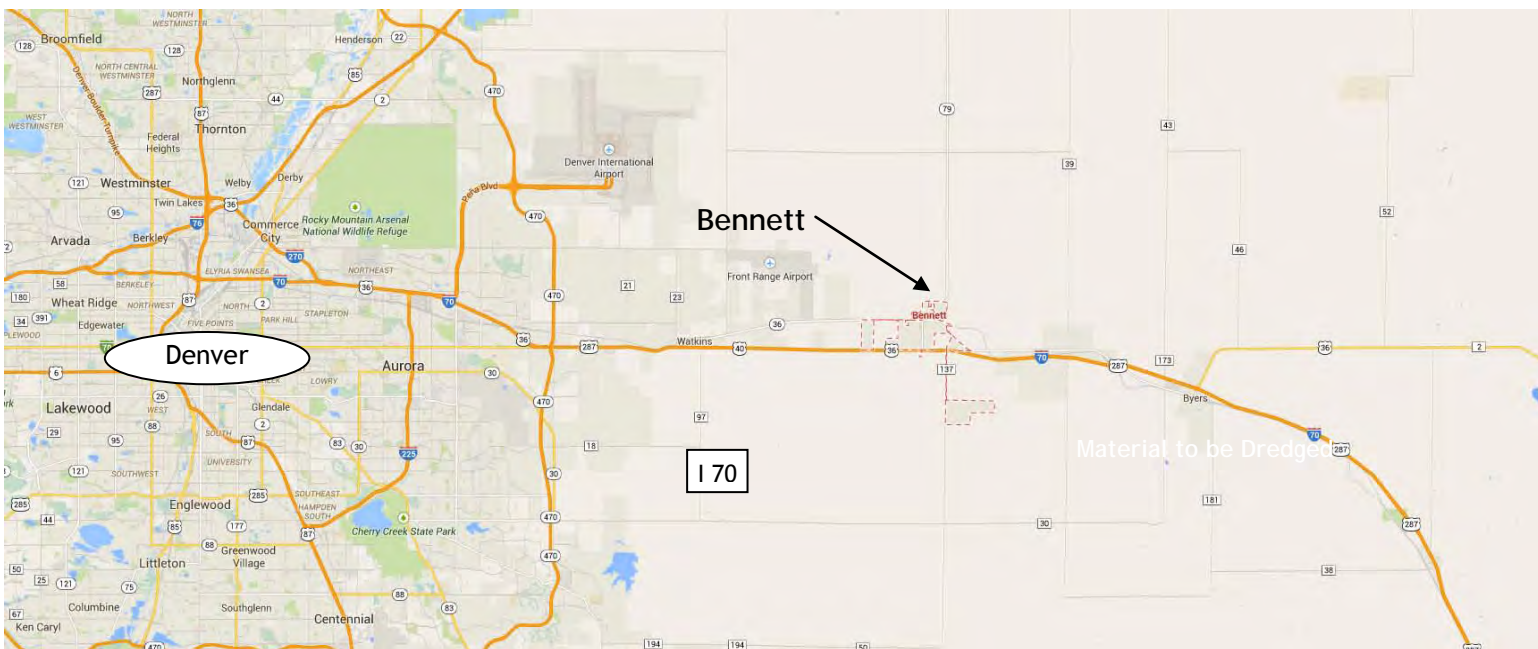
November 2014 Board Meeting

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



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

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.



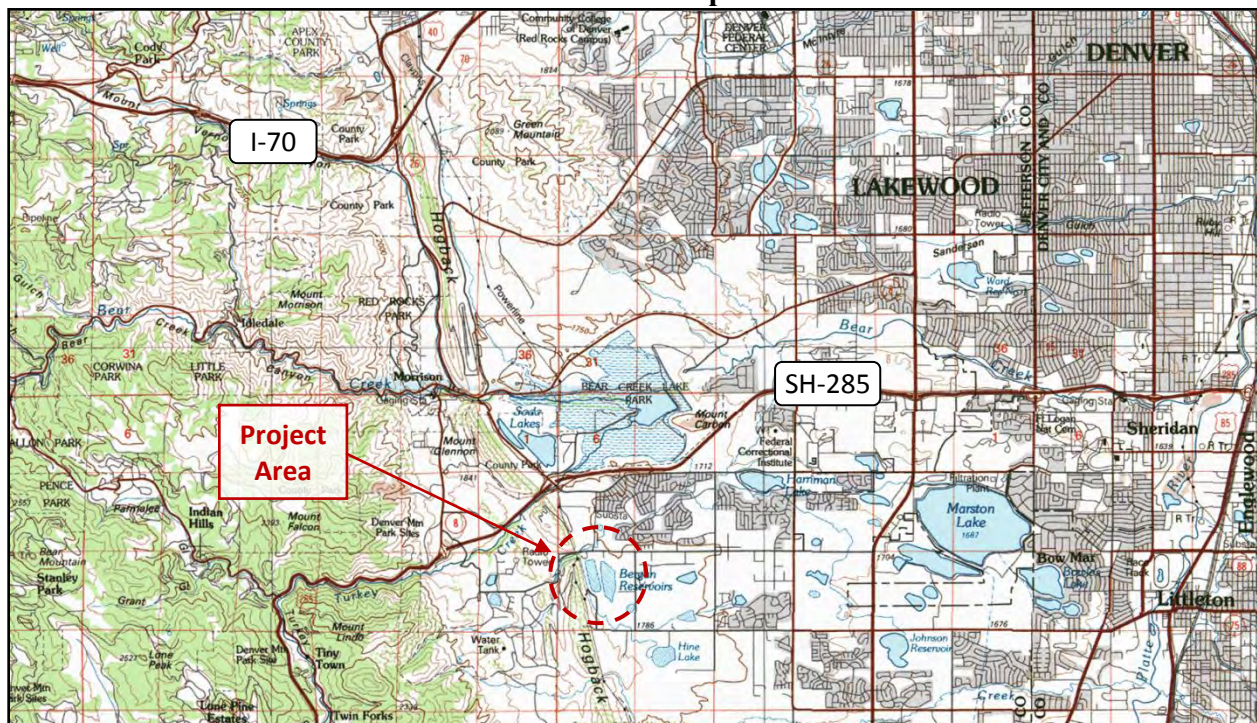


## Water Project Loan Program – Project Data Sheet

<b>Borrower:</b>	Bergen Ditch & Reservoir Company	<b>County:</b>	Jefferson
<b>Project Name:</b>	Bergen Reservoir No. 2 Rehabilitation	<b>Project Type:</b>	Dam Rehabilitation
<b>Drainage Basin:</b>	South Platte, District 9	<b>Water Source:</b>	Turkey Creek
<b>Total Project Cost:</b>	\$2,225,000	<b>Funding Source:</b>	Construction Fund
<b>Type of Borrower:</b>	Blended - (64% high-income muni, 36% middle-income muni)	<b>Avg. Annual Diversion:</b>	800 AF
<b>CWCB Loan:</b>	\$2,020,000 (w/ 1% service fee)	<b>Interest Rate:</b>	3.15%
		<b>Term:</b>	30 years

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 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 consists of full replacement of the outlet works and rehabilitation of the dam.

### Location Map

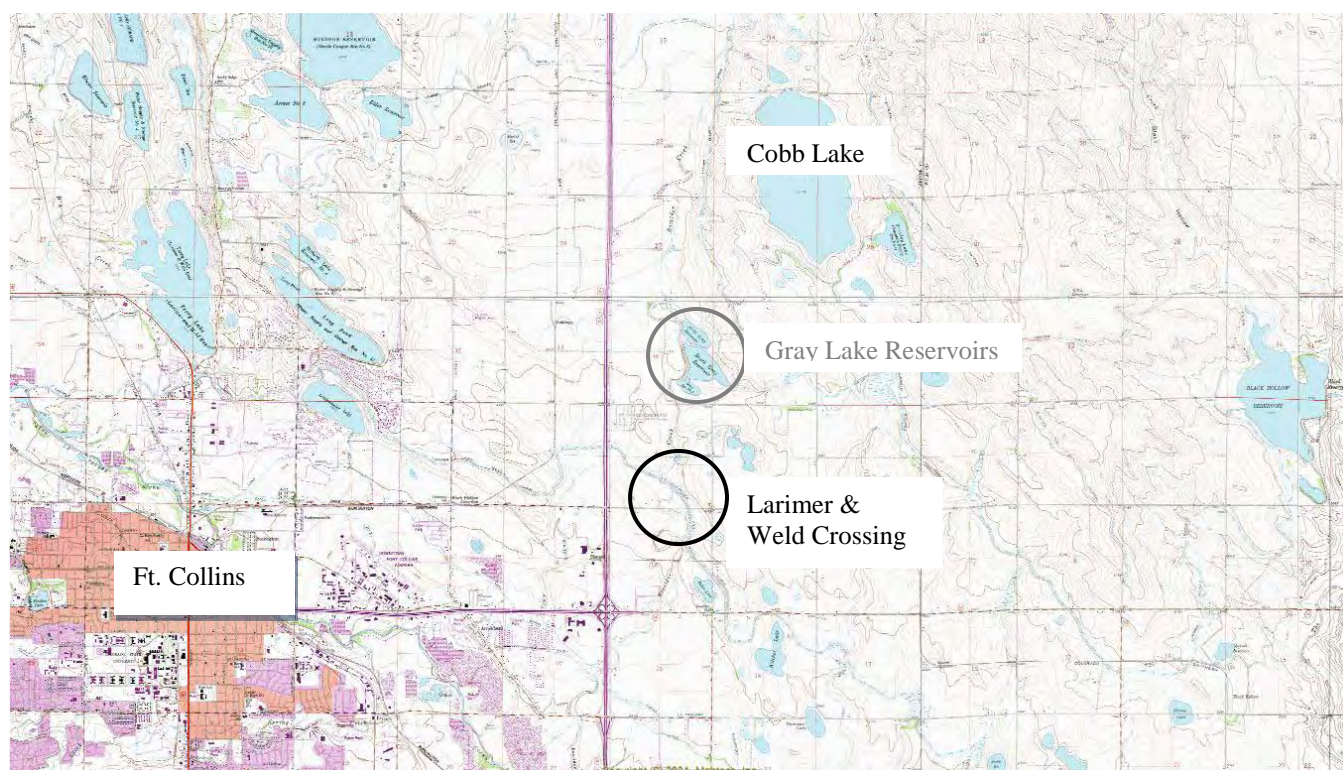




# **CWCB Water Project Loan Program Project Data Sheet**

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

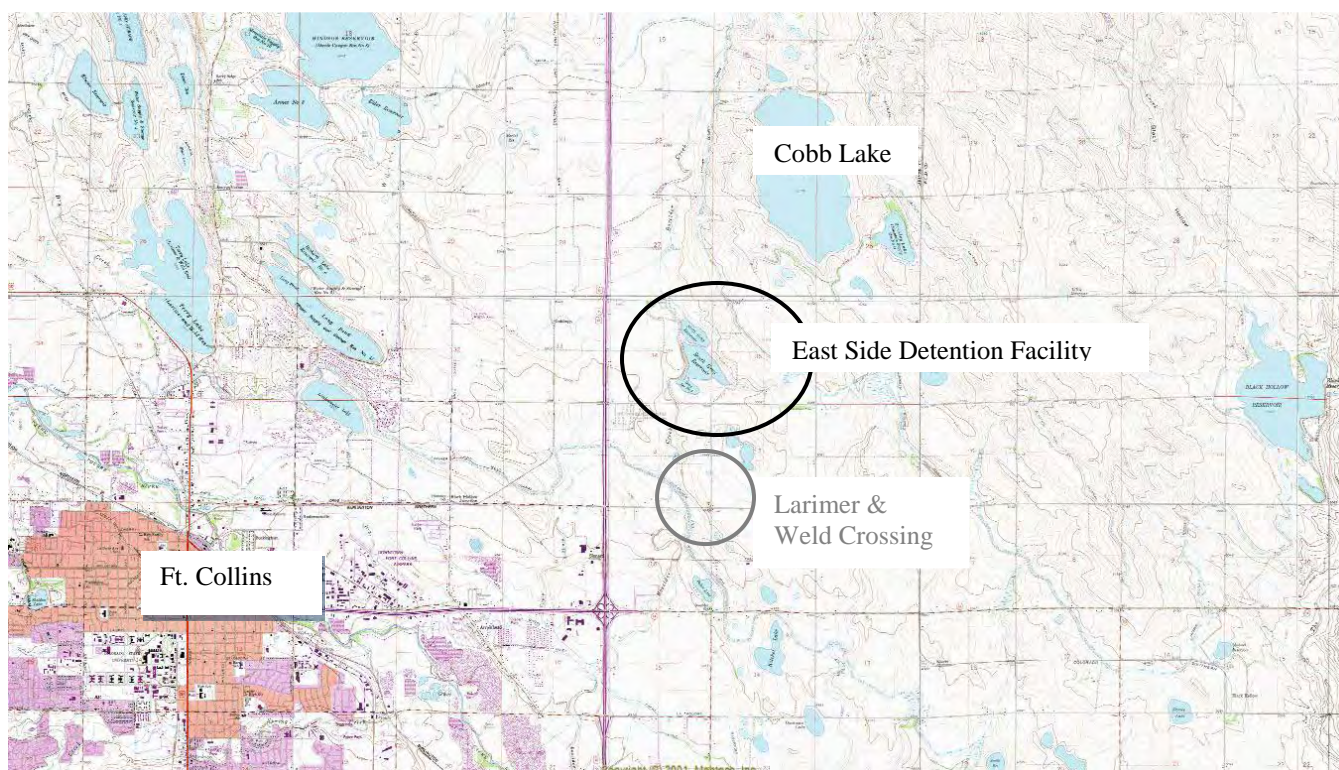




# **CWCB Water Project Loan Program Project Data Sheet**

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

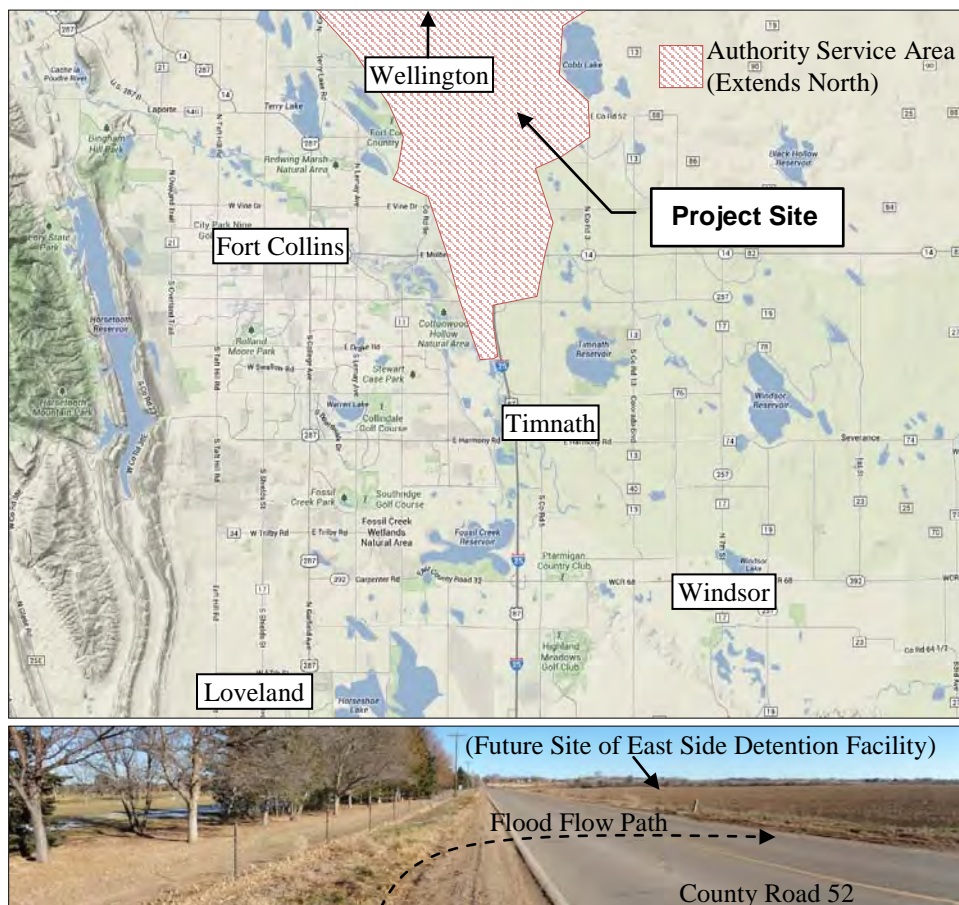
**Type of Borrower:** Middle Income Municipal

**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.



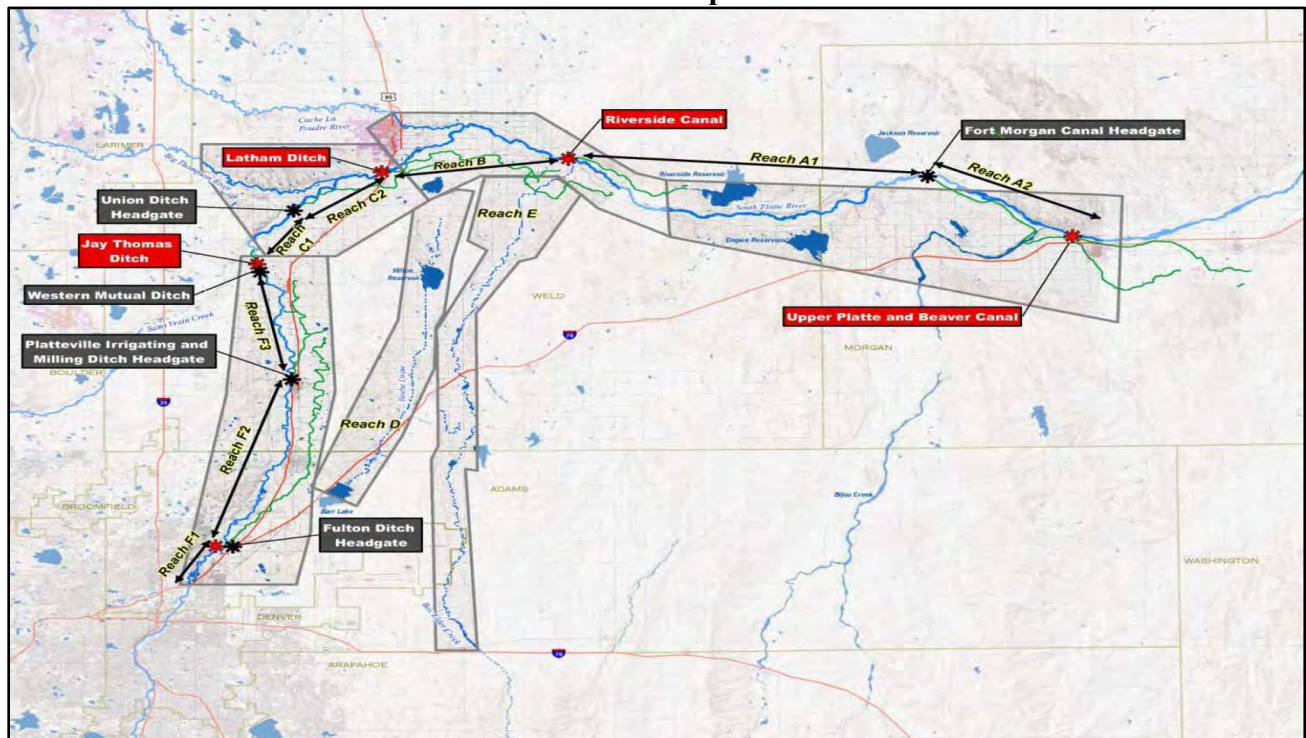


## Water Project Loan Program – Project Data Sheet

<b>Borrower:</b>	Well Augmentation System of the Central Colorado Water Conservancy District	<b>County:</b>	Weld, Adams, Morgan		
<b>Project Name:</b>	Water Rights Purchase & Gravel Pit Storage Project	<b>Project Type:</b>	Water Rights Purchase & Augmentation Facility		
<b>Drainage Basin:</b>	South Platte	<b>Water Source:</b>	South Platte Basin		
<b>Total Project Cost:</b>	\$3,333,400	<b>Funding Source:</b>	Construction Fund		
<b>Type of Borrower:</b>	Agricultural	<b>Annual Depletions Covered:</b>	20,400 AF		
<b>CWCB Loan:</b>	\$3,030,000 (w/ 1% service fee)	<b>Interest Rate:</b>	1.75%	<b>Term:</b>	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**

**C150403**

**Borrower:** Castle Pines 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:** \$5,550,000

**Funding Source:** Severance Tax Perpetual  
Base Fund

**Type of Borrower:** High-income Municipal

**Average Annual Delivery:** 1,056 AF

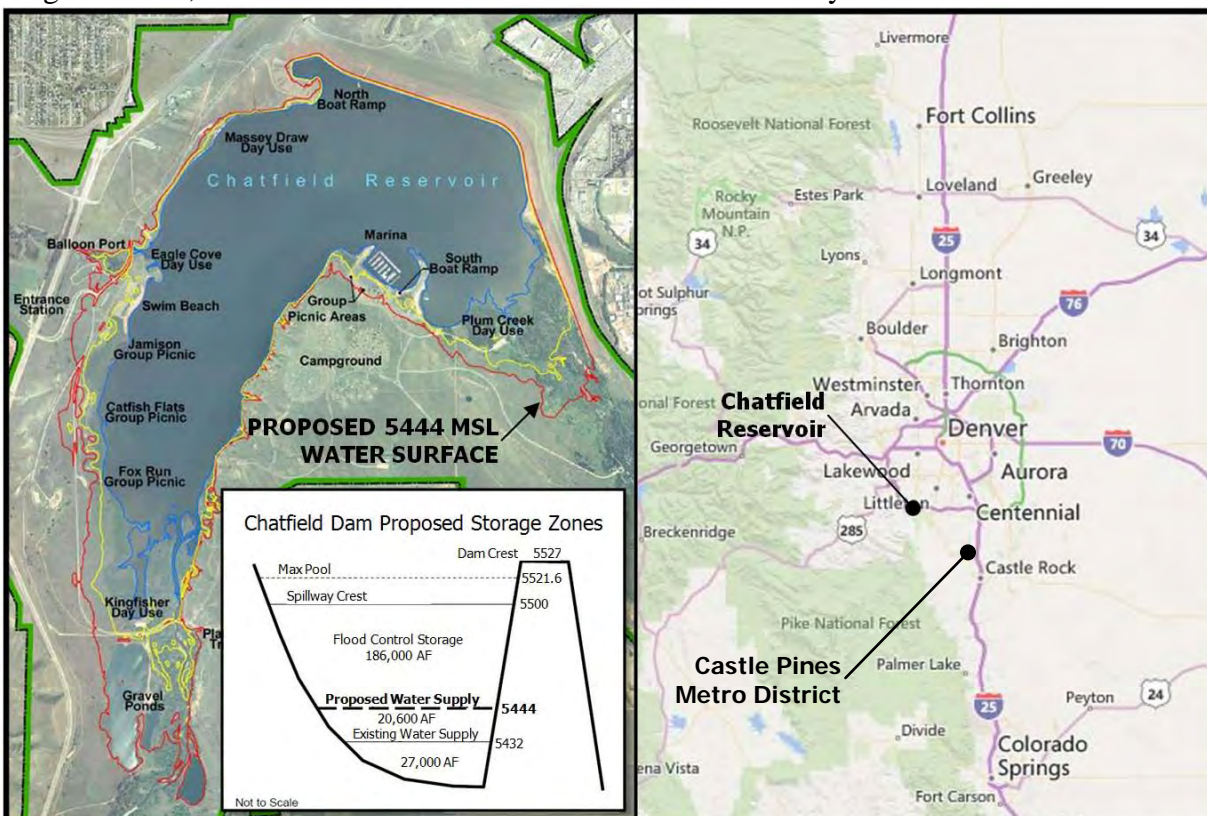
**Added Water Supply Storage:** 786.7 AF

**CWCB Loan:** \$5,050,000 (with 1% service fee)

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

The Castle Pines Metropolitan District provides water and wastewater services to the residents and businesses of Castle Pines Village 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 32% of its average annual water demand. Of the 20,600 acre-feet proposed to be reallocated, the District would receive 786.7 acre-feet of storage, or 3.82% of the total reallocation. The District will use Chatfield storage through an exchange on east Plum Creek as authorized in water court Case No 04CW308.

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

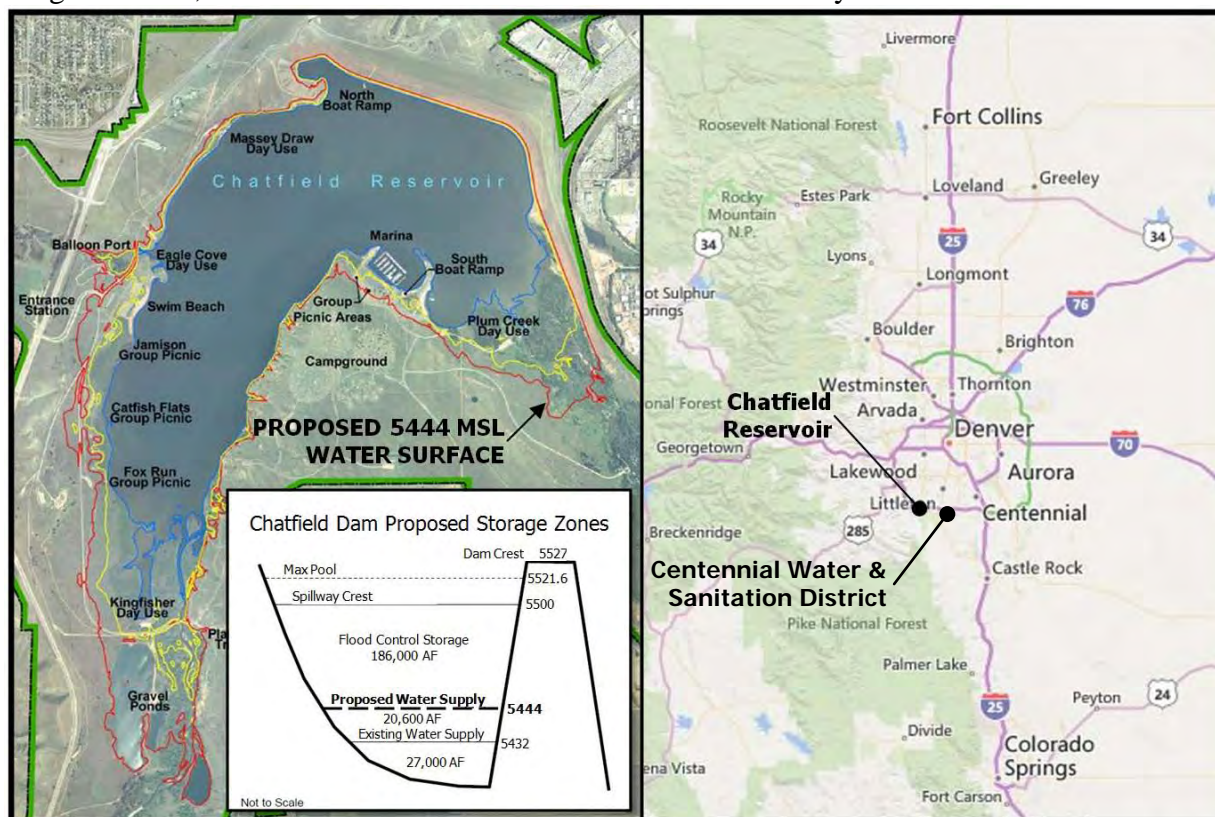
**Average Annual Delivery:** 17,500 AF

**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  
**Project Name:** Chatfield Reallocation Project

**County:** Park  
**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

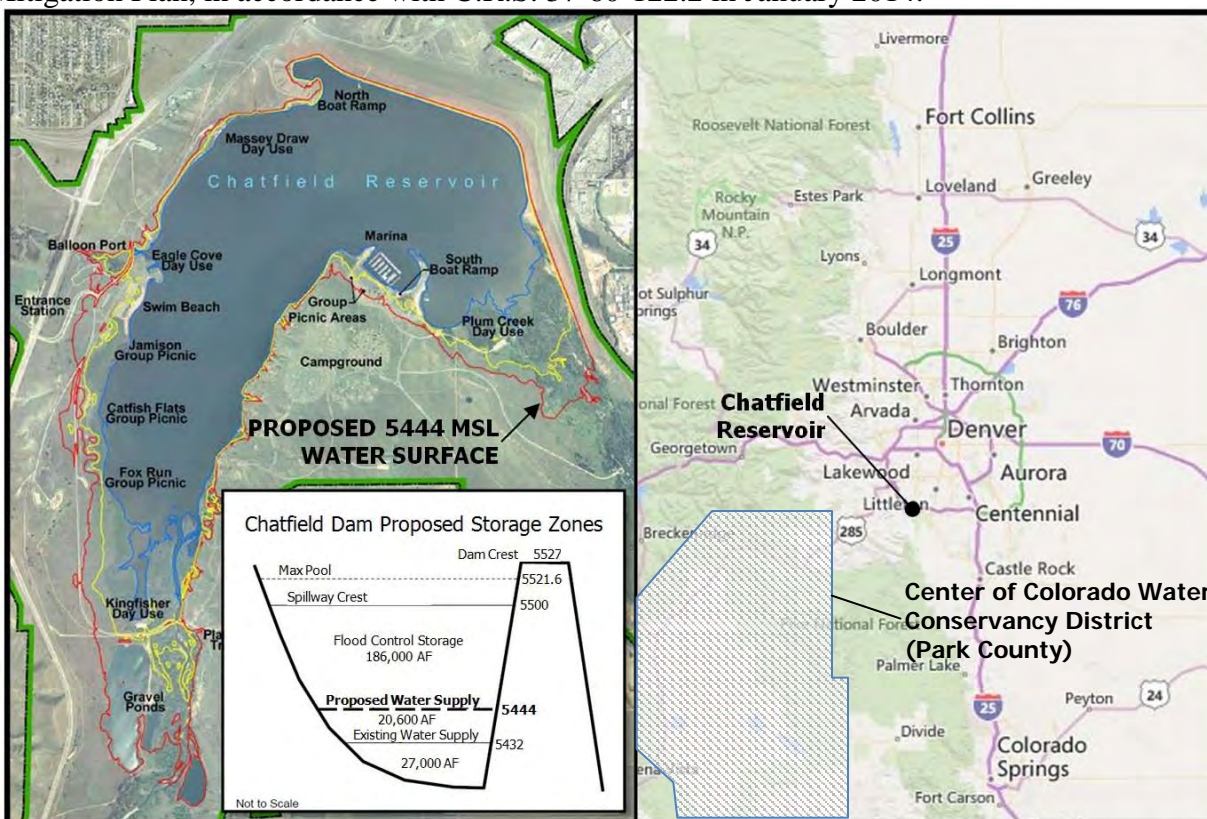
**Type of Borrower:** Middle-income Municipal

**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

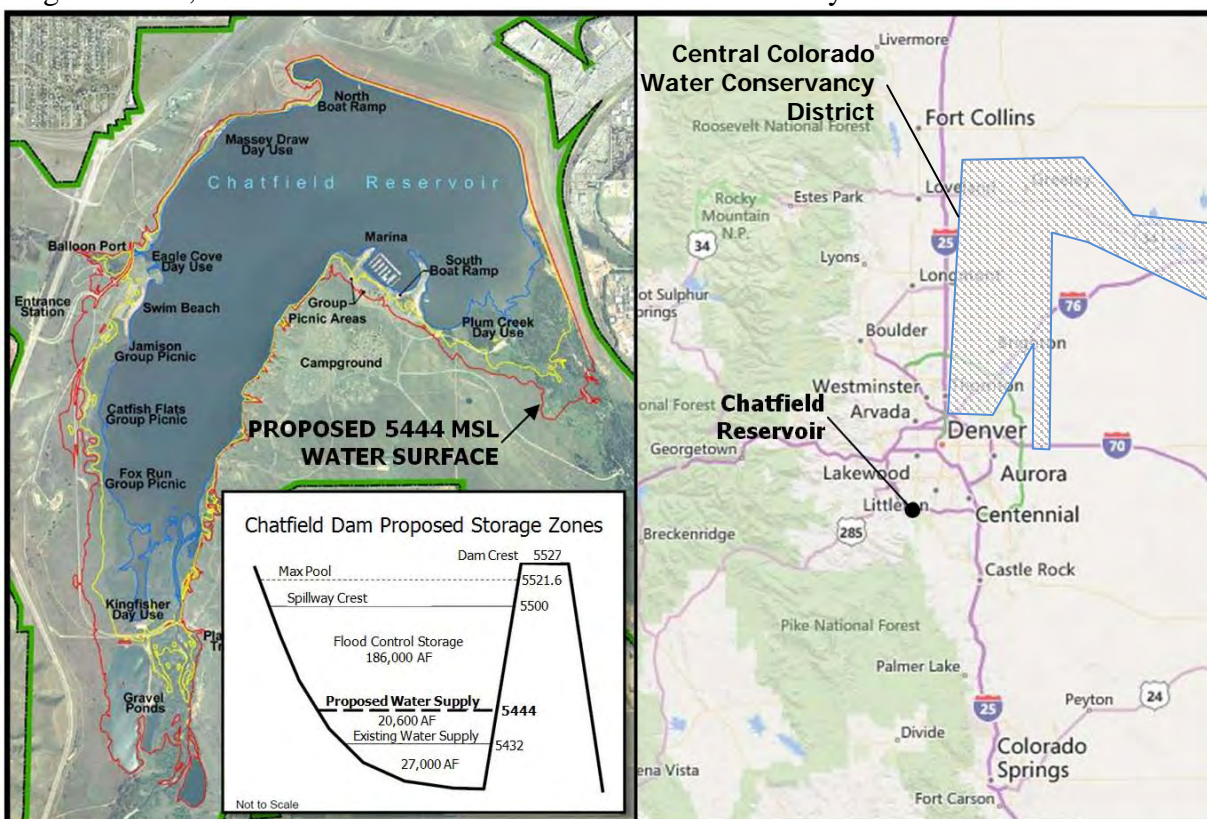
**Type of Borrower:** Agricultural

**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

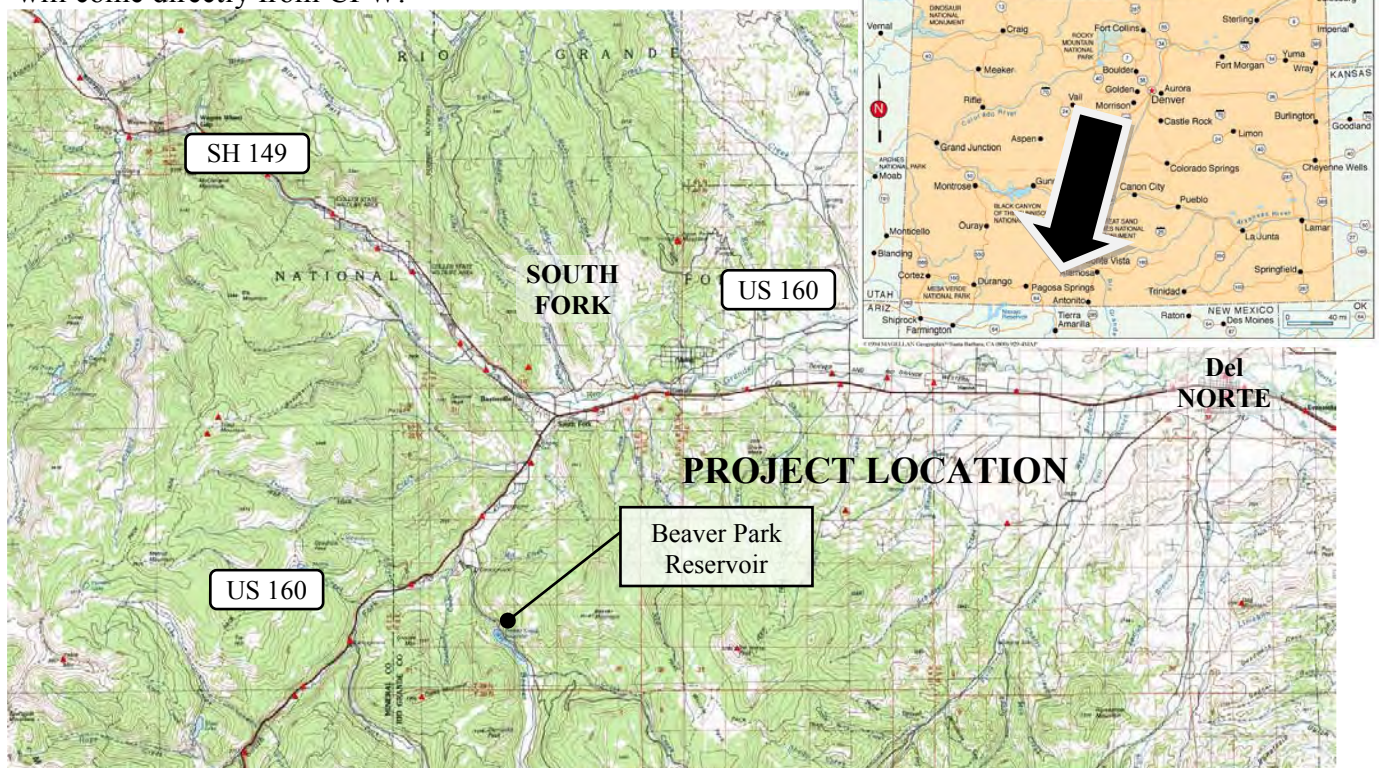
**Average Annual Diversion:** 4,434 AF

**Restricted Capacity Reclaimed:** 2,201 AF

**CWCB Loan:** \$10,000,000

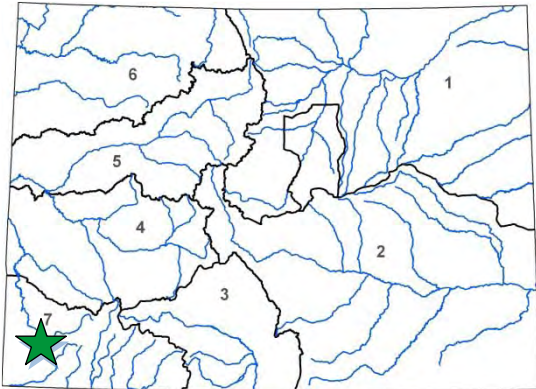
**Interest Rate:** 0%    **Term:** 30-year

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.





## Water Project Loan Program – Project Data Sheet

**Borrower:** Crystal Lakes Water and Sewer Association

**County:** Larimer

**Project Name:** Lower Lone Pine Reservoir Enlargement

**Project Type:** Reservoir Enlargement

**Drainage Basin:** South Platte, District 1

**Water Source:** North Lone Pine Creek  
(tributary to Cache la Poudre River)

**Total Project Cost:** \$2,600,000

**Funding Source:** Construction Fund

**Type of Borrower:** Lower-Income Municipal

**Avg. Annual Diversion:** 271 AF

**CWCB Loan:** \$2,363,400 (w/ 1% service fee)

**Interest Rate:** 4.00% **Term:** 30 years

The Crystal Lakes Water and Sewer Association (Association) is requesting a loan to enlarge Lower Lone Pine Lake Reservoir from 10.5 AF to 100.5 AF. The enlargement will be used to store Upper Lone Pine Reservoir (no yet constructed) water rights in Lower Lone Pine Reservoir for the purpose of augmentation of well water consumption for residences of Crystal Lakes. The Crystal Lakes subdivision, a private community located in Larimer County, was established in 1969 and includes 1,656 lots distributed over 4,800 acres. More than 800 residences are currently served by the Association. The decreed augmentation plan specifically links the allowable use of water to the amount of augmentation water held in storage. Without increased storage capacity the community is likely to face routine water restriction. No change in use of the Upper Lone Pine Reservoir rights has been requested, only an alternate place of storage.

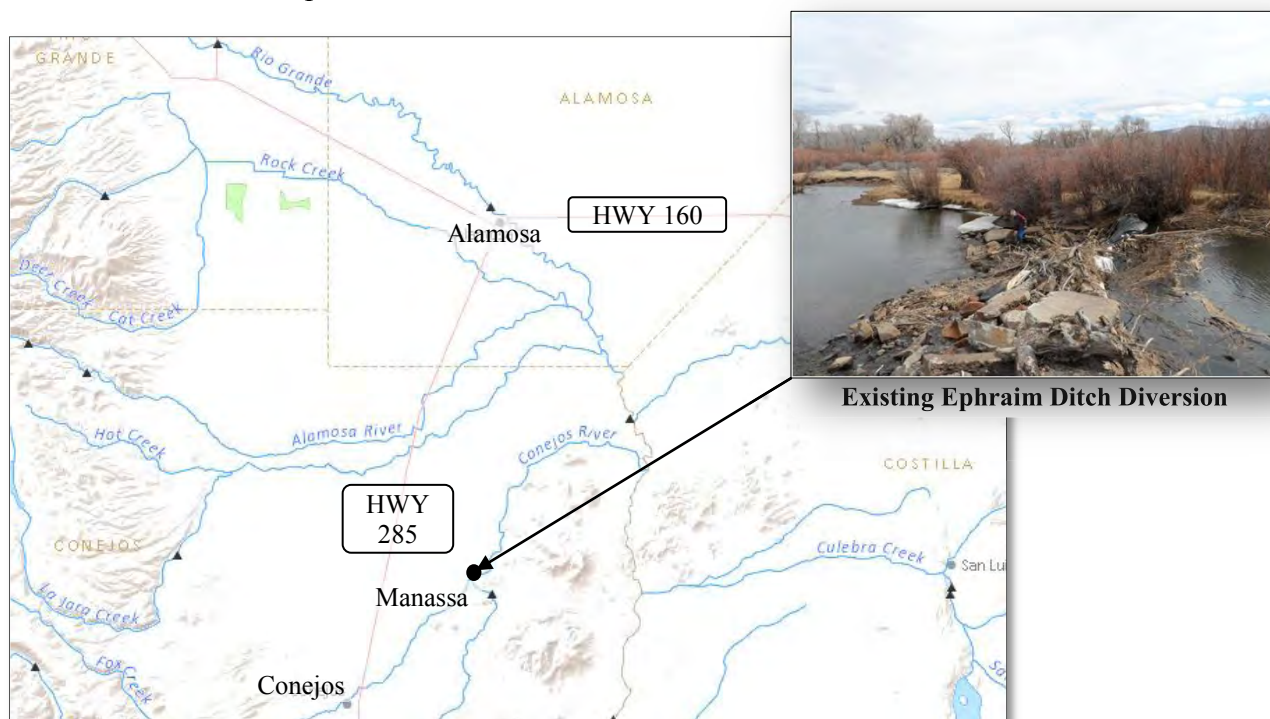
### Location Map



**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

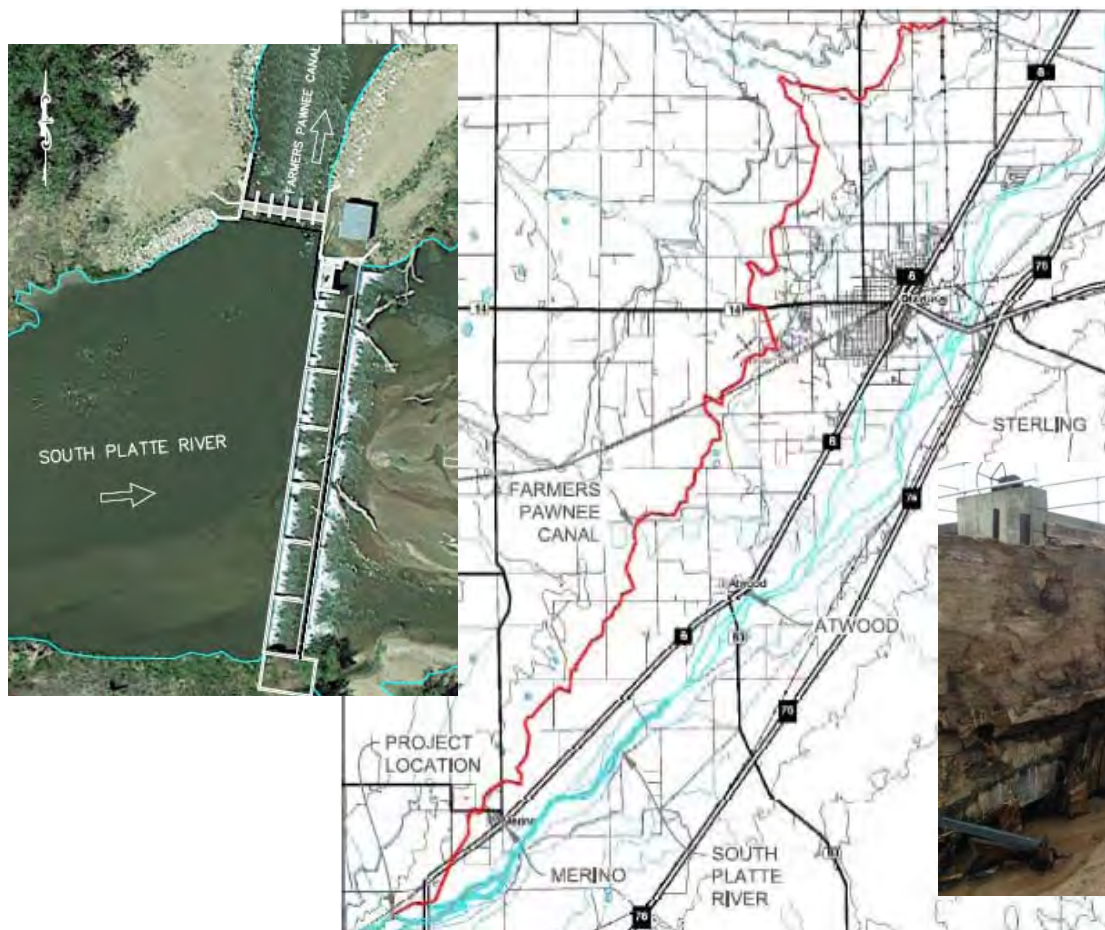
**Type of Borrower:** Agricultural

**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

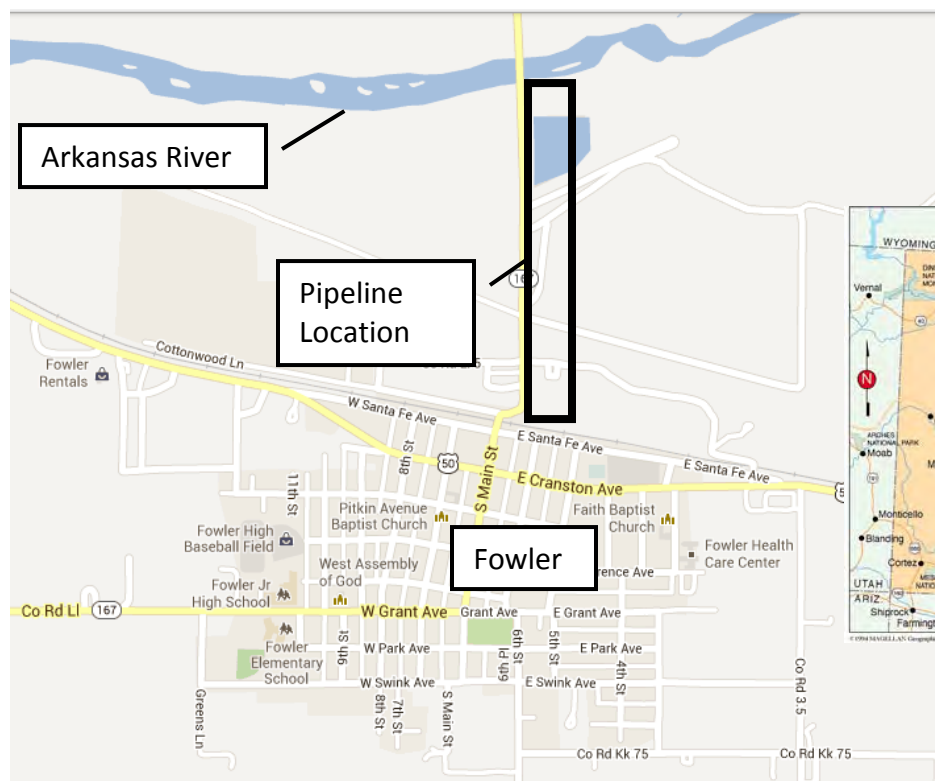
**Type of Borrower:** Municipal (Low)

**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**

**C150399**

**Borrower:** Fulton Irrigation Ditch Company

**County:** Adams

**Project Name:** Diversion Structure Rehabilitation Project

**Project Type:** Diversion Rehabilitation

**Drainage Basin/ District:** South Platte / 2

**Water Source:** South Platte River

**Total Project Cost:** \$2,230,000

**Funding Source:** Construction Fund

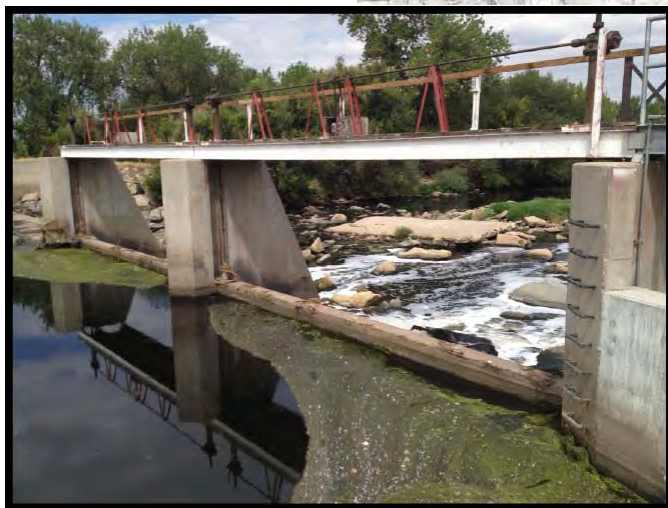
**Type of Borrower:** Blended

**Average Annual Diversion:** 29,684 AF

**CWCB Loan:** \$2,027,070  
(with 1% service fee)

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

The purpose of the Project is to replace the Company's South Platte River diversion gates and rehabilitate the existing trash rack. The Project will also include the reconstruction of the Branch Ditch Diversion Structure on the Fulton Ditch. The Company diverts South Platte River water near 100th Ave. in Commerce City to a 38,000 acre service area. Sago pond weed in the South Platte River has escalated and is beginning to obstruct the flow of water through the existing trash rack. Construction is expected to occur in the fall/winter of 2014/2015.





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

**Borrower:** Town of Georgetown  
(Water and Sewer Enterprise)

**County:** Clear Creek County

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

**Drainage Basin/District:** South Platte / 7

**Water Source:** Clear Creek

**Total Project Cost:** \$3,275,000

**Funding Source:** Construction Fund

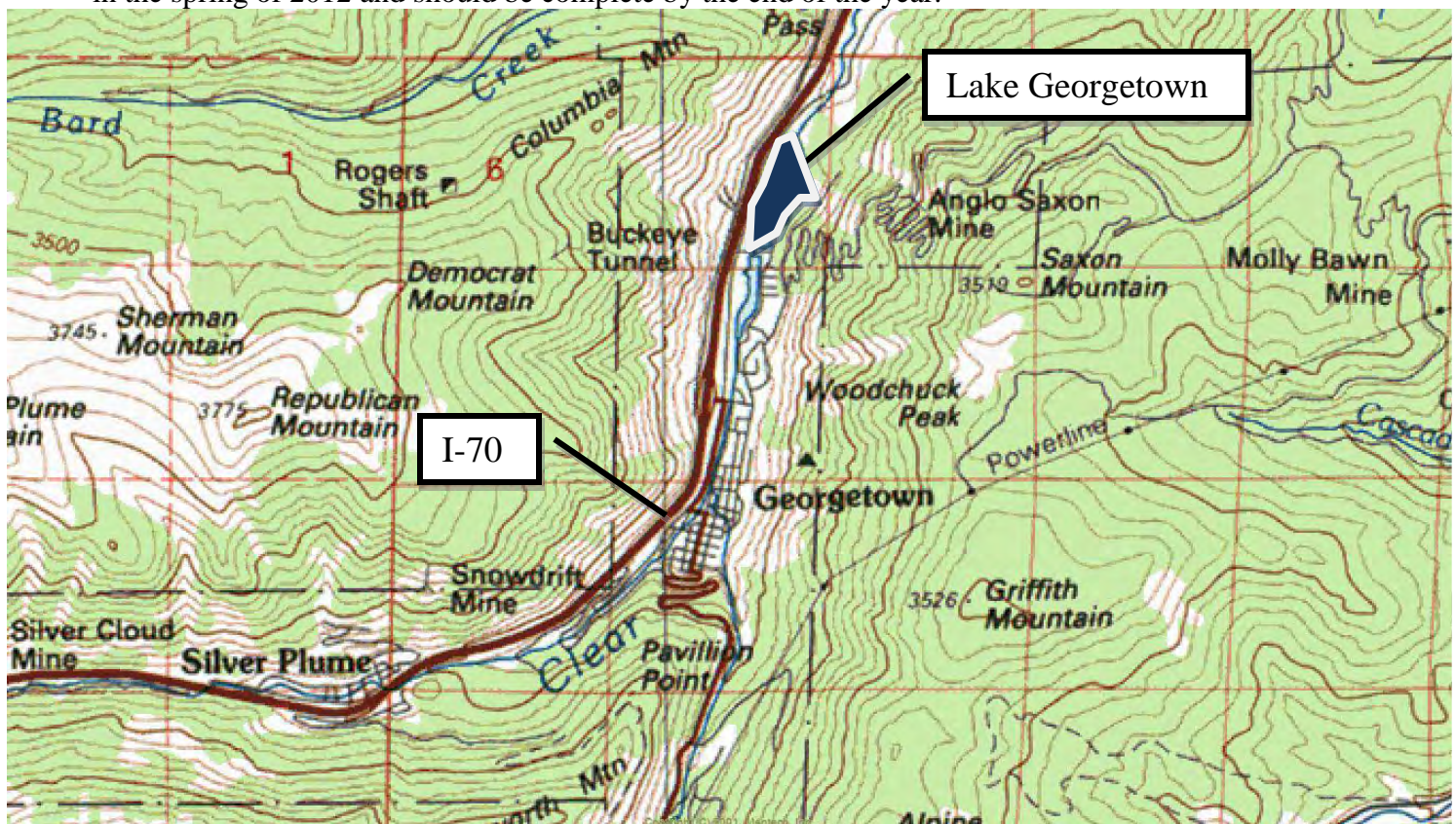
**Type of Borrower:** Middle-Income Municipal

**Average Diversion:** 208 AF

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

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

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





## CWCW Water Project Loan Program Project Data Sheet

**Borrower:** Grand Mesa Water Conservancy District

**County:** Delta

**Project Name:** Peak Reservoir and Blanche Park Reservoir Rehabilitation

**Project Type:** Reservoir Rehabilitation

**Drainage Basin/ District:** Gunnison / 40

**Water Source:** Surface Creek

**Total Project Cost:** \$640,000

**Funding Source:** Construction Fund/  
WSRA Gunnison Basin Funds

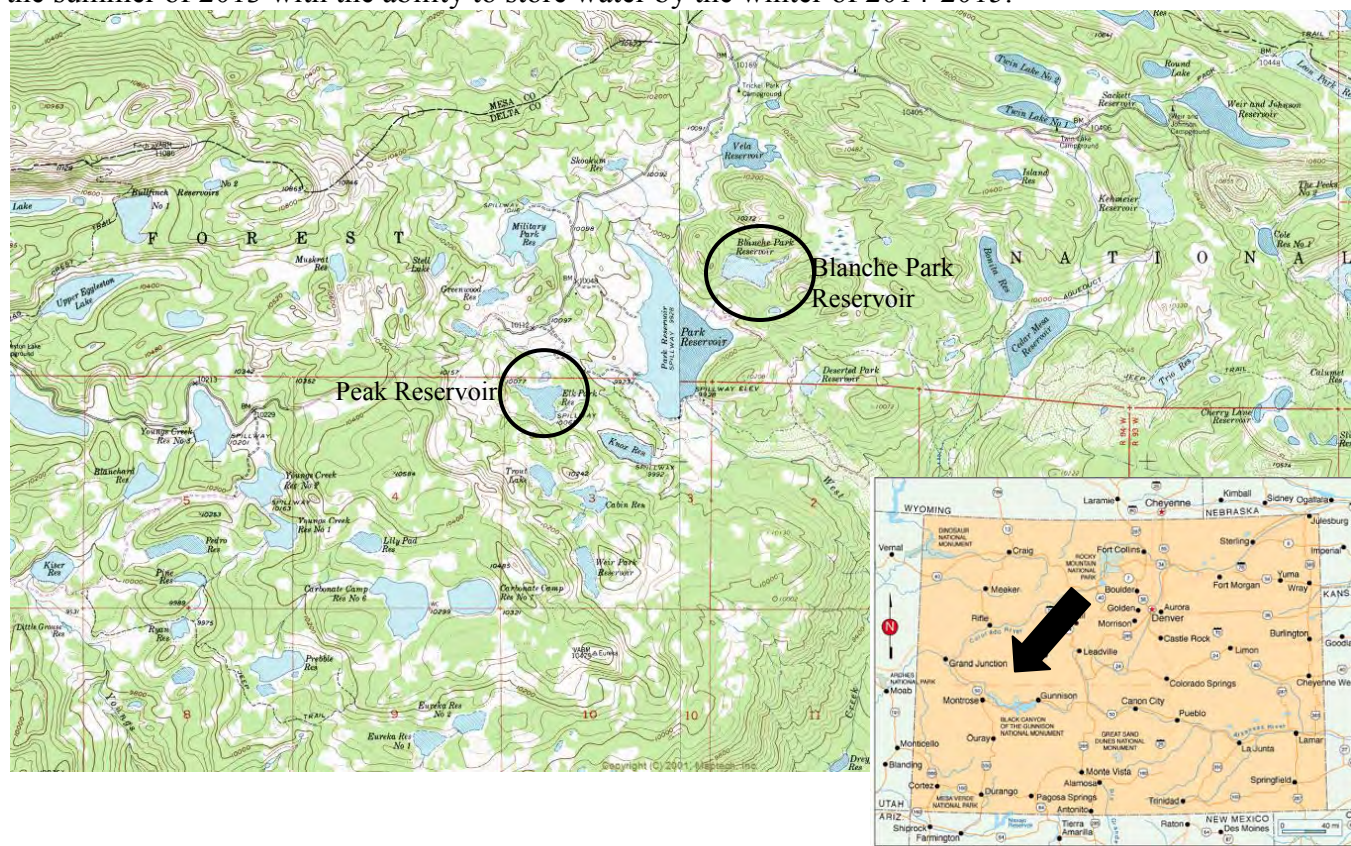
**Type of Borrower:** Municipal/Agricultural

**Average Annual Diversion:** 400 AF  
**Storage Added:** 155 AF

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

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

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





**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

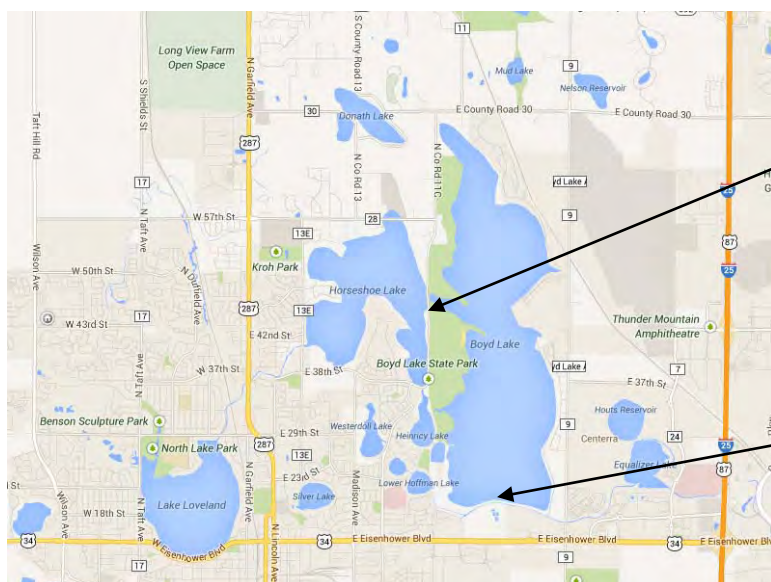
**CWCB Loan:** \$3,154,230  
(with 1% service fee)

**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

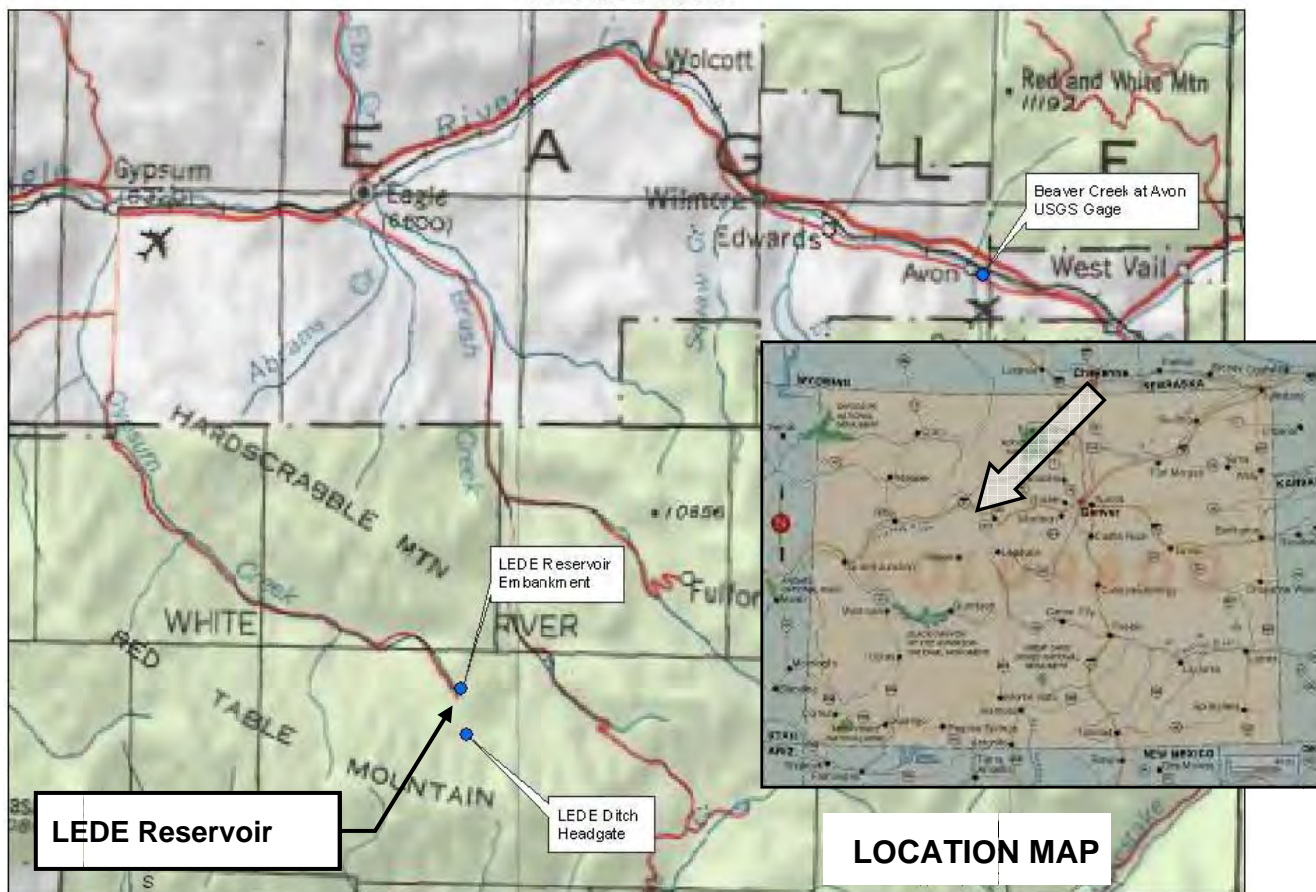
**New Storage:** 254 AF

**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.

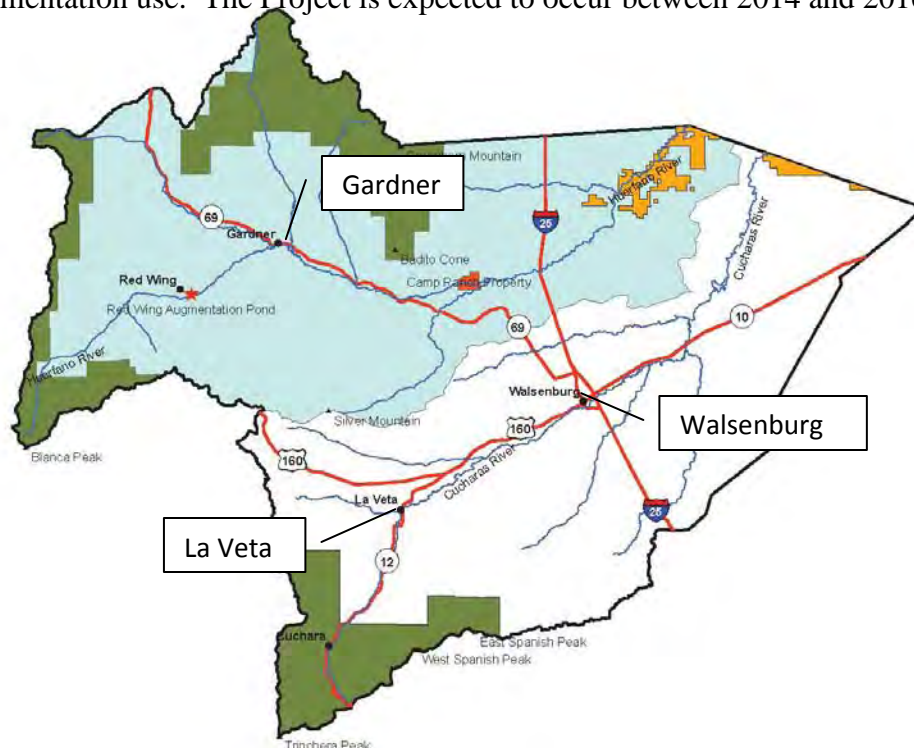
**General Locations**



# **Water Project Loan Program Project Data Sheet**

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

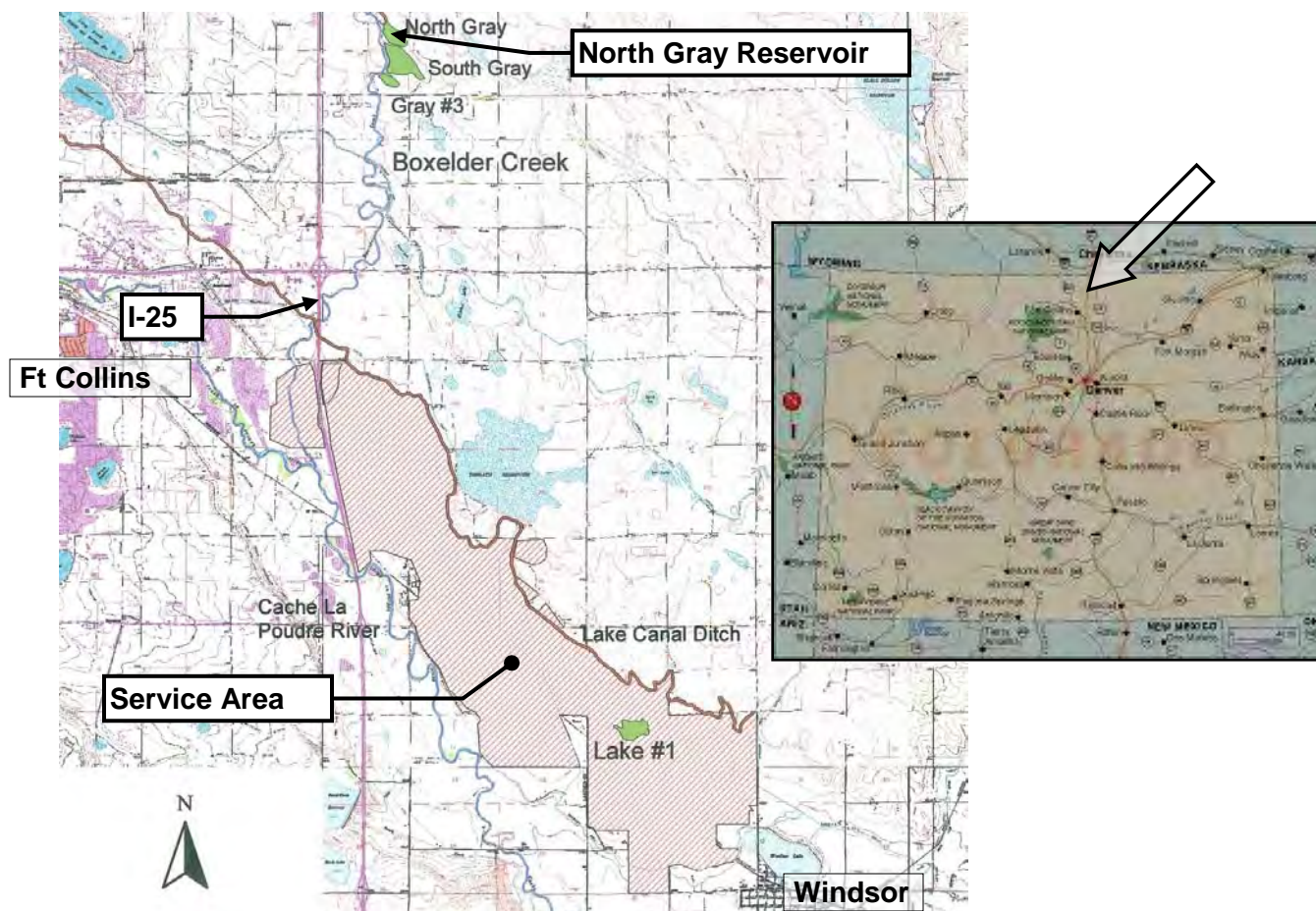
**Details:** 333 AF Stored  
75 AF Recovered

**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

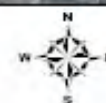
**WSRA Statewide Grant:** ~~\$500,000~~ **\$450,000**

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





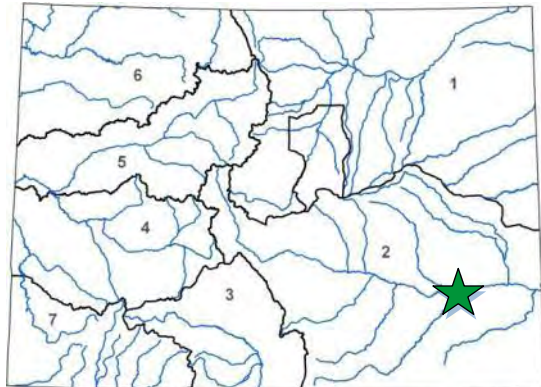


# Repair & Replacement of the Las Animas Consolidated Canal Spillway Structure

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





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

**C150398**

**Borrower:** Louden Irrigating Canal  
and Reservoir Company

**County:** Larimer

**Project Name:** Emergency Diversion Structure  
and Ditch Repair

**Project Type:** Ditch Rehabilitation

**Drainage Basin/ District:** South Platte / 4

**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.

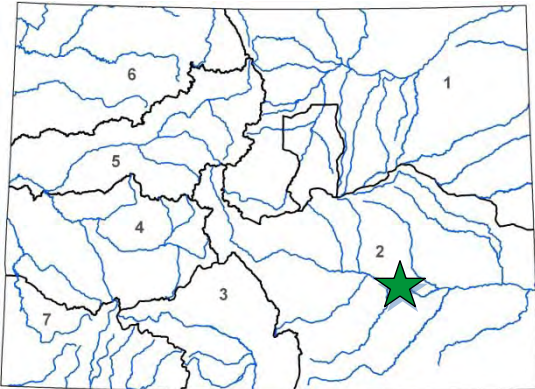


## Water Rights Purchase Project

## Lower Arkansas Valley Water Conservancy District

May 2015 Board Meeting

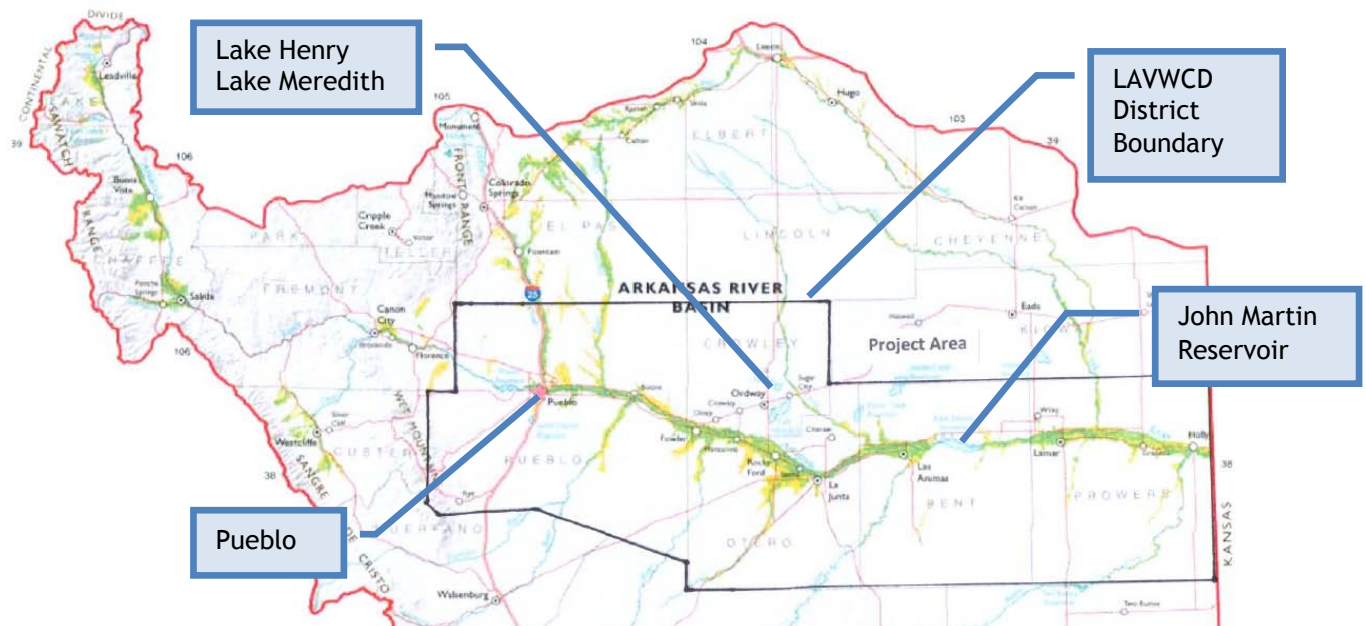
L O A N   D E T A I L S				
Project Cost:		\$4,077,000		
CWCB Loan (with Service Fee):		\$2,560,350		
Loan Term and Interest Rate:		20 years @ 1.45%		
Funding Source:		Severance Tax Perpetual Base Fund		
B O R R O W E R   T Y P E				
Agriculture		Municipal		Commercial
100%	0% Low	0% Mid	0% High	0%
P R O J E C T   D E T A I L S				
Project Type:		Water Rights Purchase		
Average Annual Delivery:		442 AF		



L O C A T I O N	
<i>County:</i>	Bent, Crowley, Otero, Prowers, Pueblo
<i>Water Source:</i>	Arkansas River
<i>Drainage Basin:</i>	Arkansas
<i>Division:</i>	2 <i>Districts:</i> 14,17, & 67

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 plans to purchase 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.

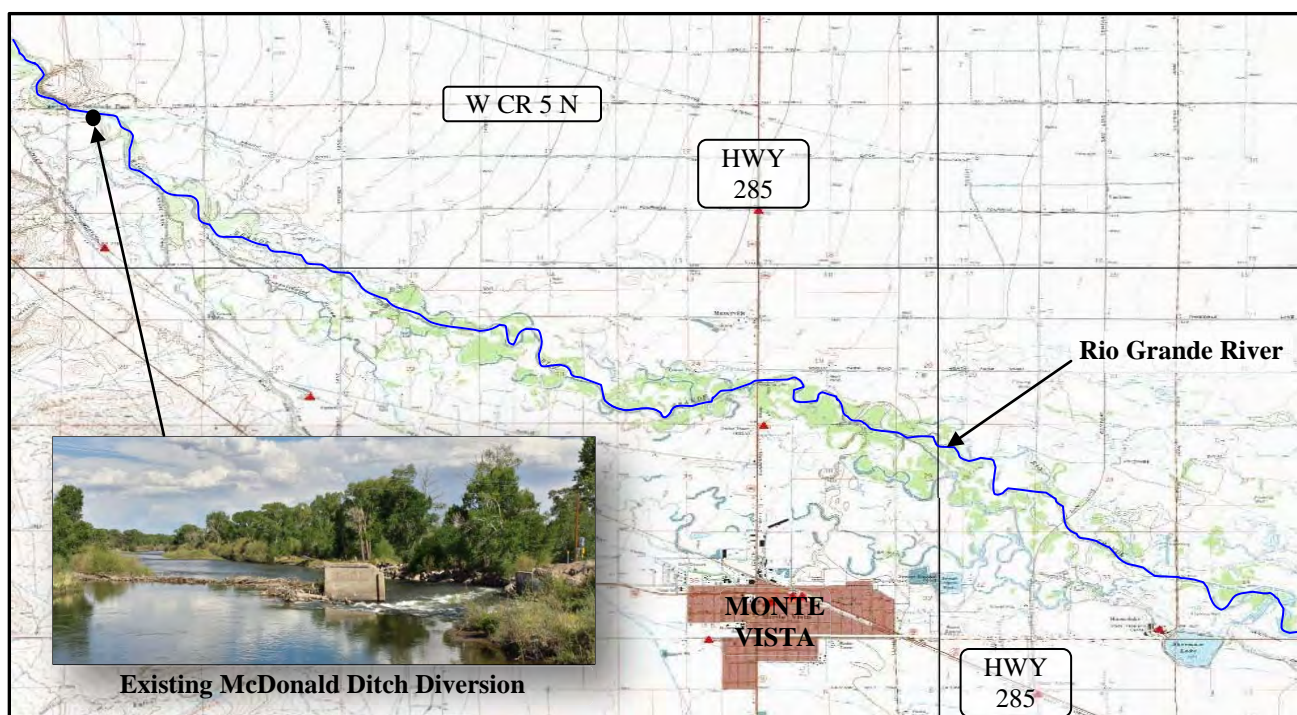




**CWCB Water Project Loan Program  
Project Data Sheet****C150334****Borrower:** The McDonald Ditch Company**County:** Rio Grande**Project Name:** McDonald Ditch Diversion  
and Headgate Replacement Project**Project Type:** Ditch Rehabilitation**Drainage Basin/ District:** Rio Grande / 20**Water Source:** 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

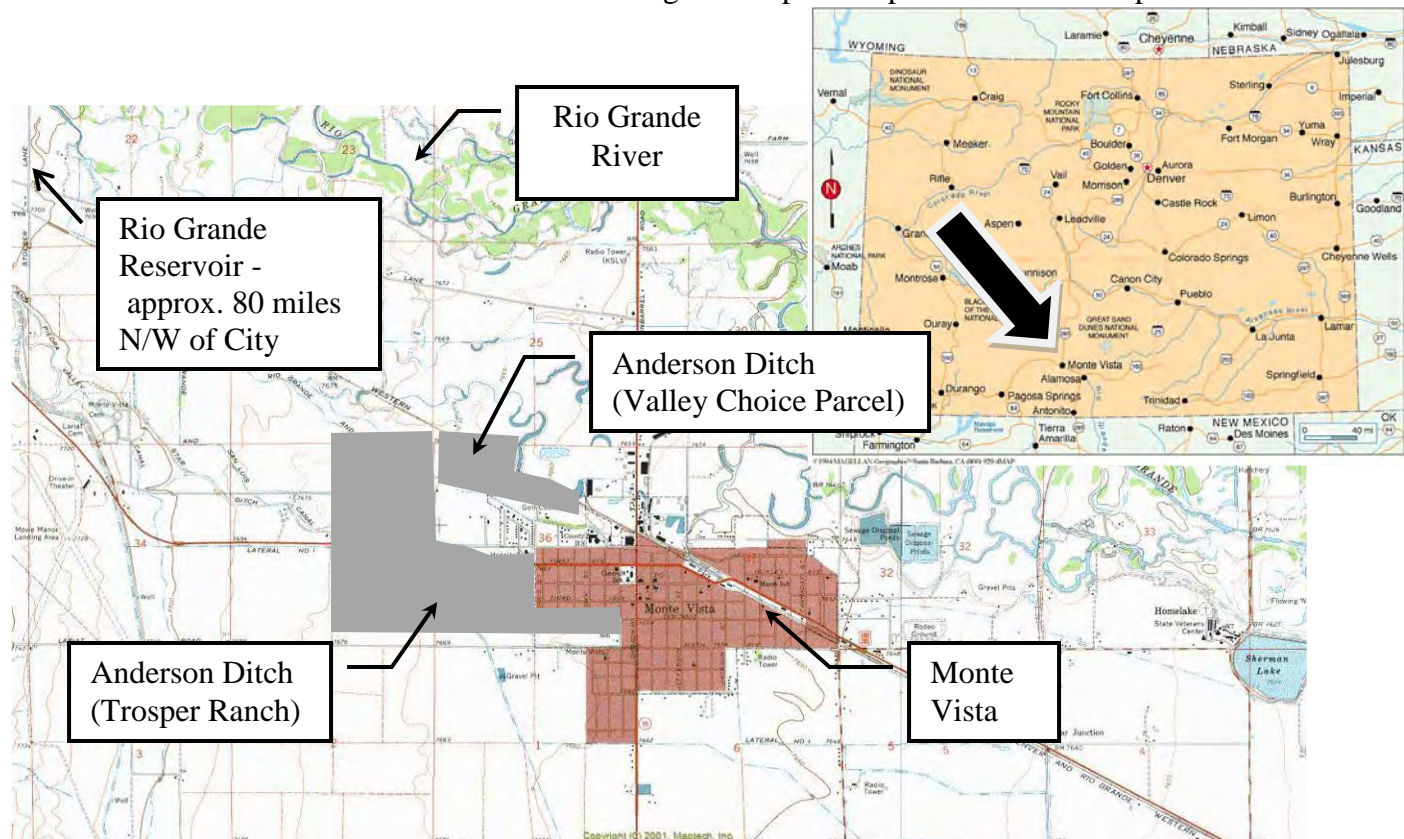
**Water Source:** Rio Grande River

**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

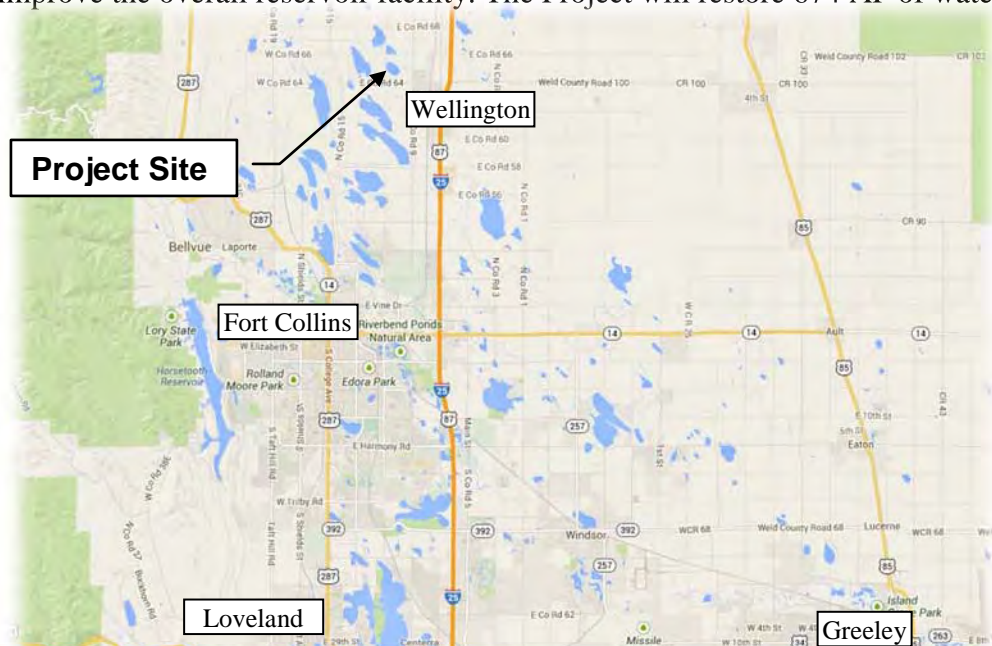
**Type of Borrower:** Blended

**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.



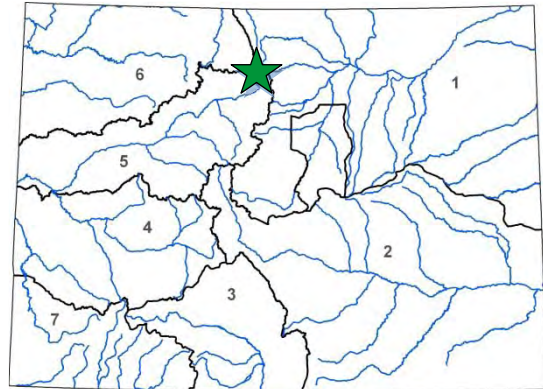




# Granby Hydropower Project

Northern Colorado Water Conservancy District  
November 2014 Board Meeting

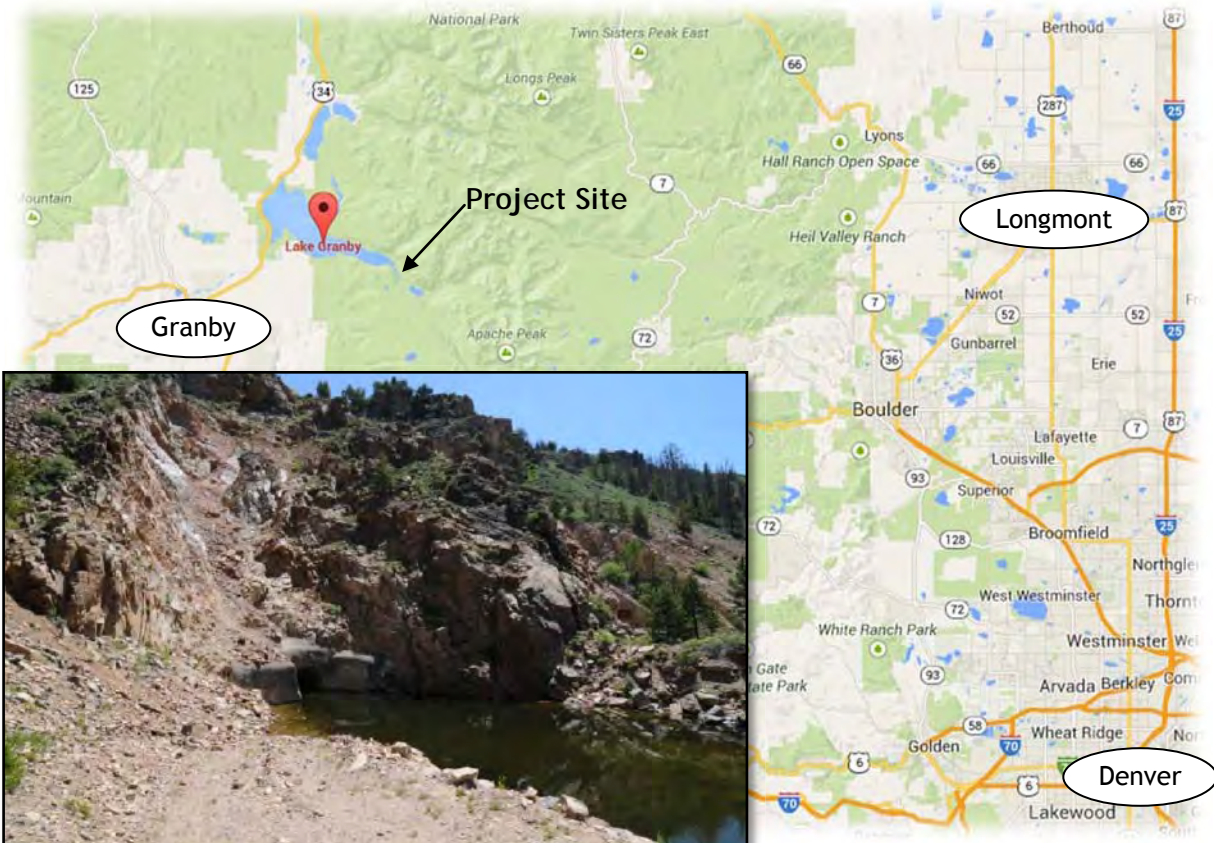
L O A N   D E T A I L S	
Project Cost:	\$5,669,340
CWCB Loan (with Service Fee):	\$5,135,183
Loan Term and Interest Rate:	30 Years @ 2.0 %
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Hydropower	
P R O J E C T   D E T A I L S	
Project Type:	Hydroelectric
Average Annual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

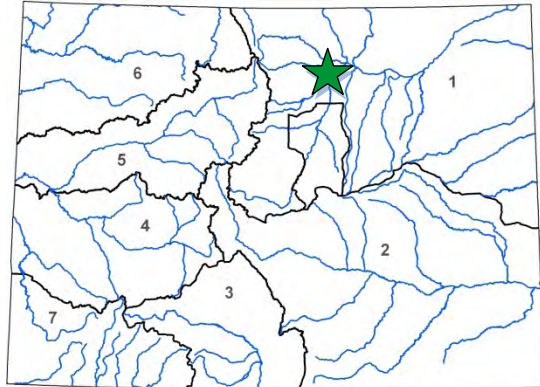


Lake Granby Tunnel Outlet



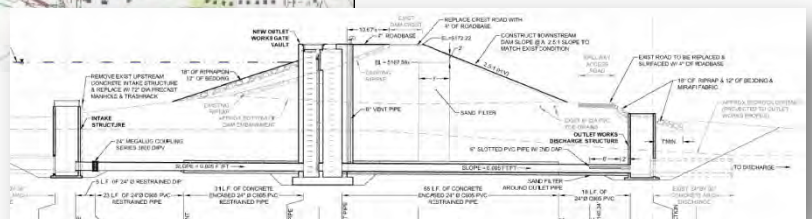
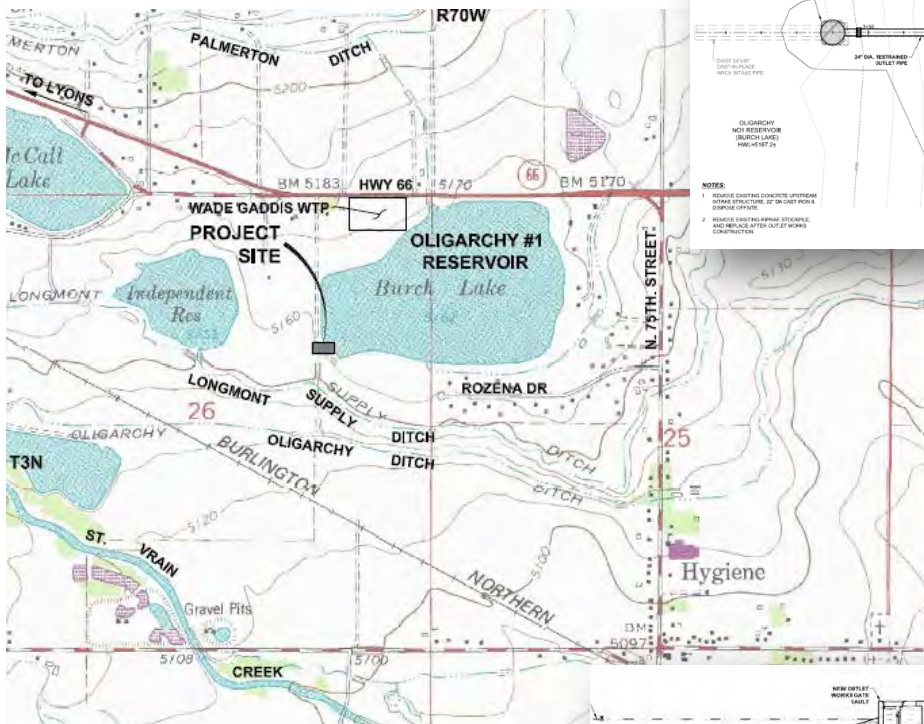
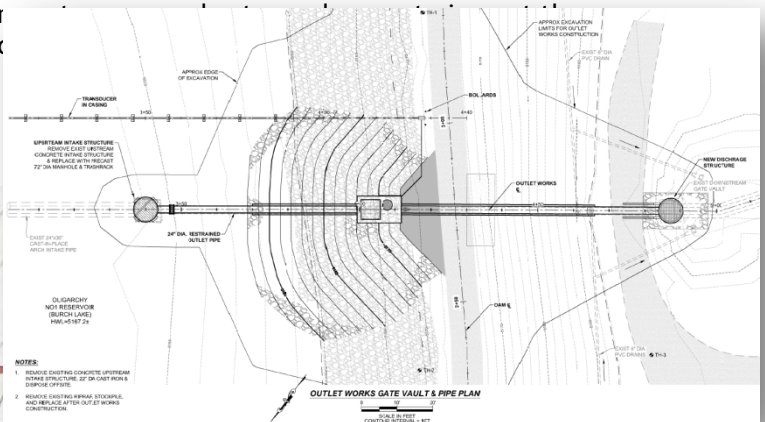


LOAN DETAILS	
Project Cost:	\$860,000
CWCB Loan (with Service Fee):	\$781,740
Loan Term and Interest Rate:	30 Years @ 2.40%
Funding Source:	Construction Fund
BORROWER TYPE	
Agriculture	Municipal (TBD)
25.4%	0% Low - 74.6% Mid - 0% High
Commercial	0%
PROJECT DETAILS	
Project Type:	Dam Rehabilitation
Average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

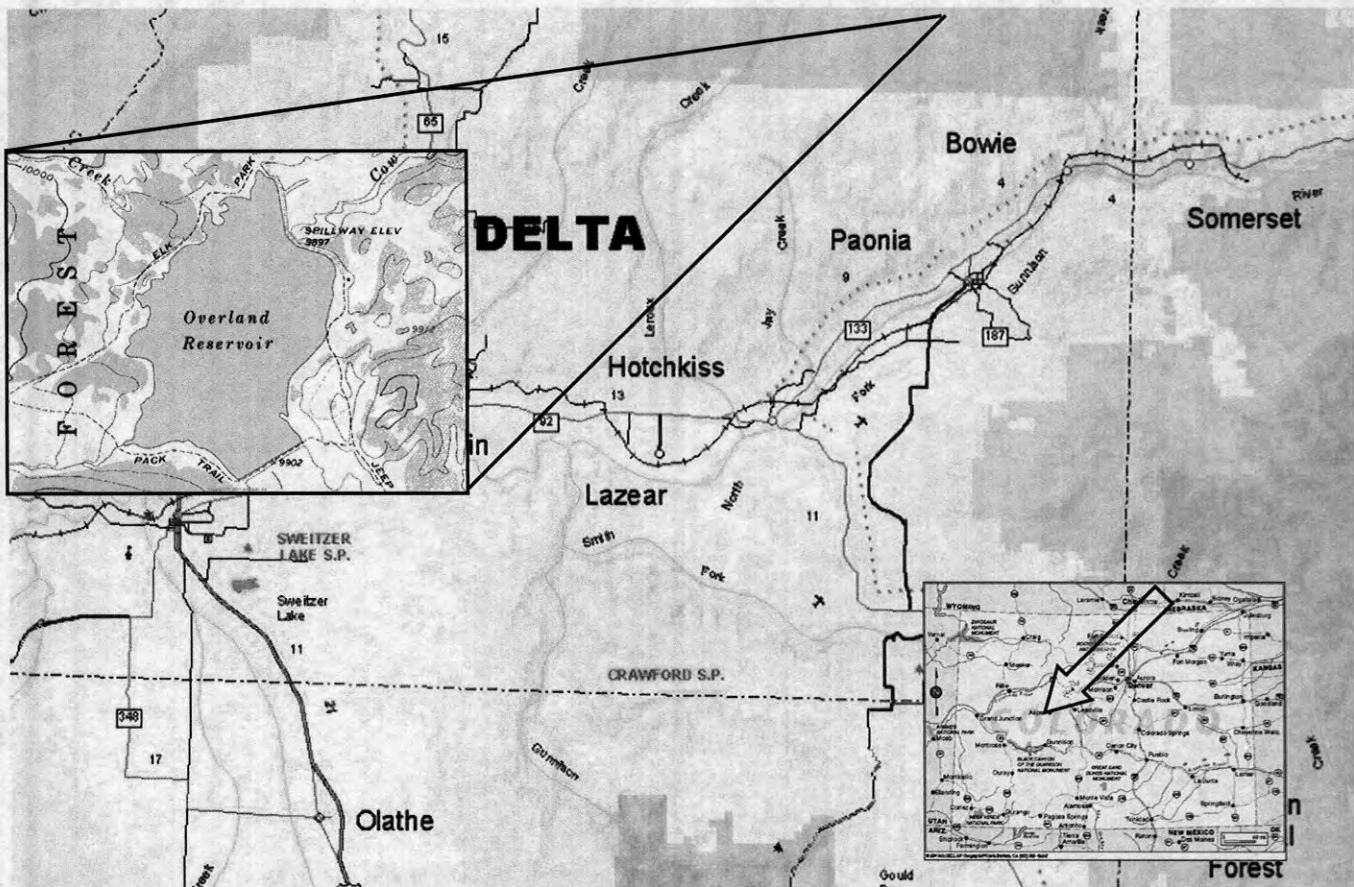
The Oligarchy Irrigation Company owns and operates the Oligarchy #1 Dam and Reservoir, also known as Burch Lake. The reservoir stores 1,737 acre-feet of water and is classified as a significant hazard dam by the Office of the State Engineer (SEO). The purpose of the project is to rehabilitate the Oligarchy 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

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

Owl Creek Reservoir Company  
November 20, 2001

Agenda Item 22E

## WATER PROJECT CONSTRUCTION LOAN PROGRAM-PROJECT DATA

**Borrower:** Owl Creek Reservoir Company/J. Gale and Valerie A. Moody

**Project Name:** Owl Creek Reservoir Project      **Project Type:** Rehabilitation

**Drainage Basin:** Owl Creek Tributary      **County:** Larimer      **Water Source:** Owl Creek

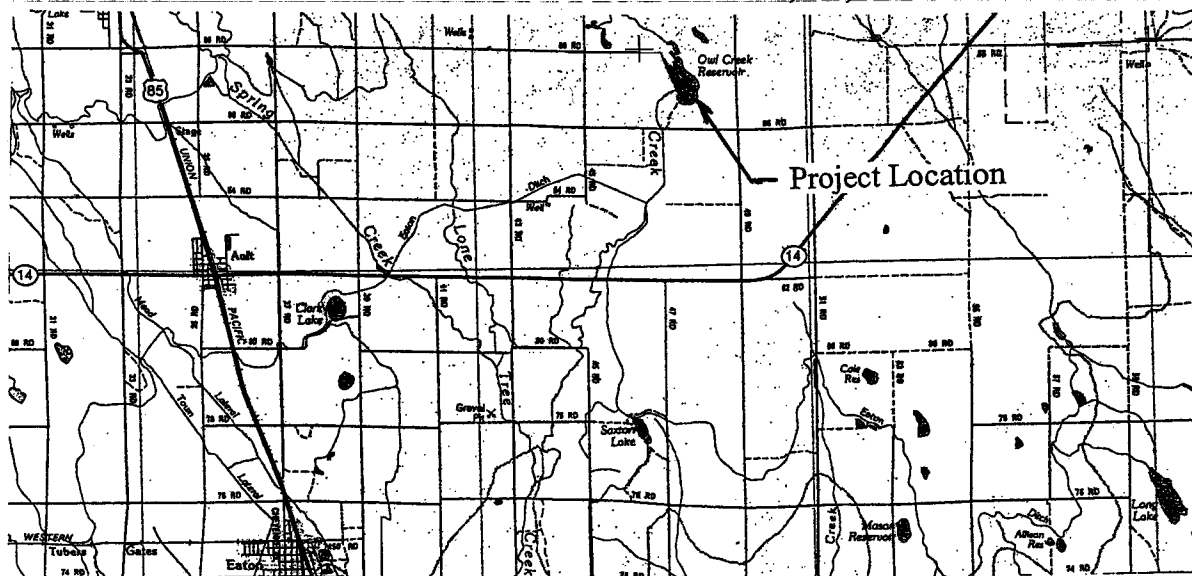
**Total Project Cost:** \$1,250,000      **Funding Source:** CWCB

**Type of Borrower:** Agricultural      **Median Household Income:** N/A

**CWCB Construction Fund Loan:** \$1,125,000      **Interest Rate:** 3.25%

**Term:** 30-years      **CWCB Grant:** \$0      **Reservoir Volume:** 1,200 acre-feet

Owl Creek Reservoir is land located in Weld County, Colorado, approximately 6 miles east and 3 miles north of the Town of Ault. The reservoir was originally constructed in 1896 to store water for irrigation. The dam 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 proposed project involves rehabilitating the existing facility to meet the State of Colorado's "Rules and Regulations for Dam Safety and Dam Construction", therefore permitting the storage of approximately 1,200 acre-feet of water. The Applegate Group, Inc., has completed preliminary design plans and specifications for the project. Proposed funding for the project consists of a CWCB Construction Fund Loan for \$1,125,000.



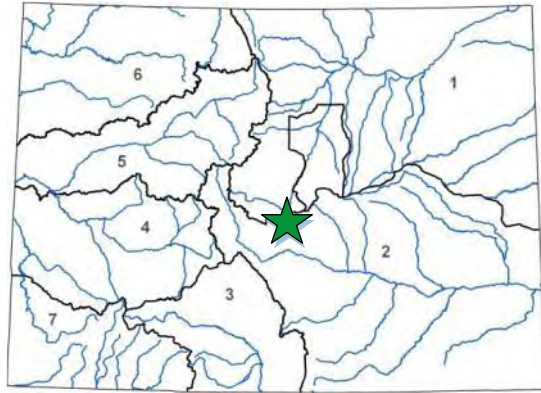
Location Map





(Loan Increase)

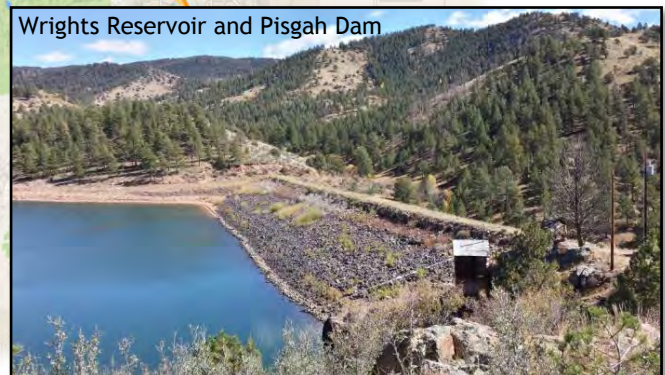
L O A N   D E T A I L S	
Project Cost:	\$745,000
CWCB Loan (with Service Fee):	\$549,091
Loan Term and Interest Rate:	30 Years @ 1.75%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
93%	7% Low - 0% Mid - 0% High      0%
P R O J E C T   D E T A I L S	
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.



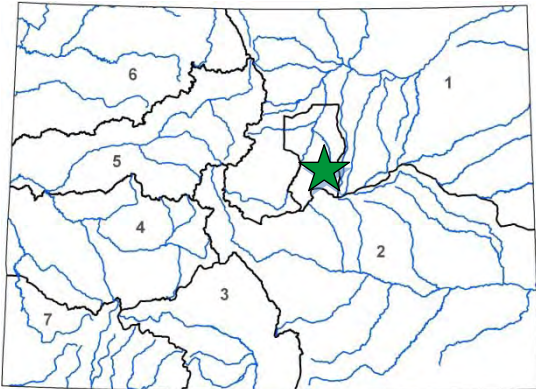


# Raw Water Supply Project

## Plum Valley Heights Subdistrict of the Roxborough Water and Sanitation District

May 2015 Board Meeting

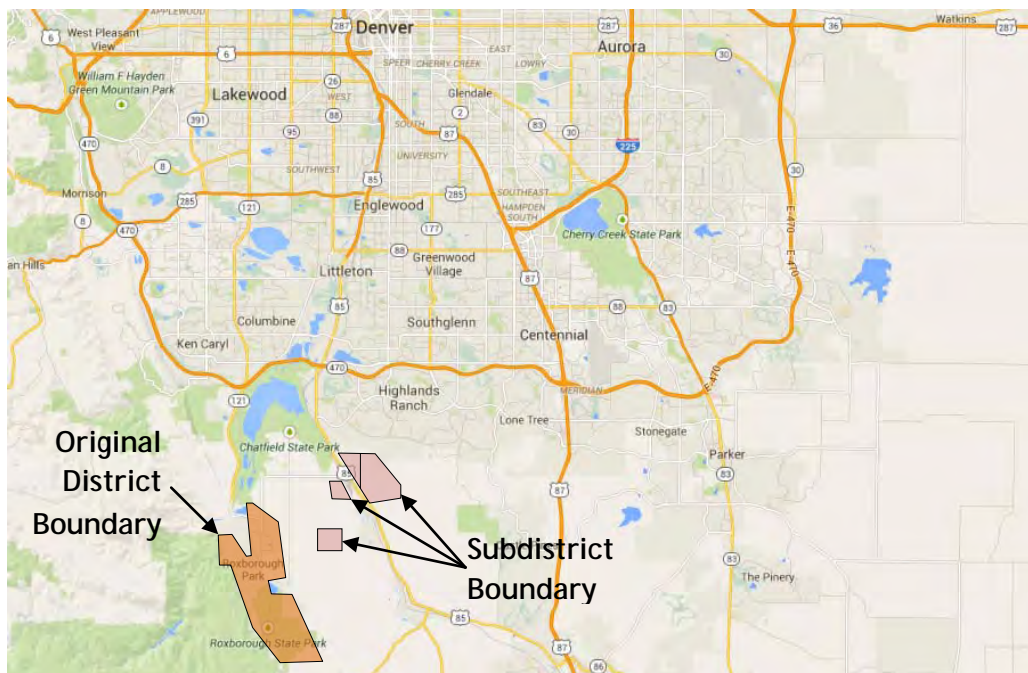
L O A N   D E T A I L S	
Project Cost:	\$2,473,605
CWCB Loan (with Service Fee):	\$2,248,260
Loan Term and Interest Rate:	30 Years @ 3.05%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal
0%	0% Low - 0% Mid - 100% High
Commercial	0%
P R O J E C T   D E T A I L S	
Project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





CWCW 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**CWCW 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.

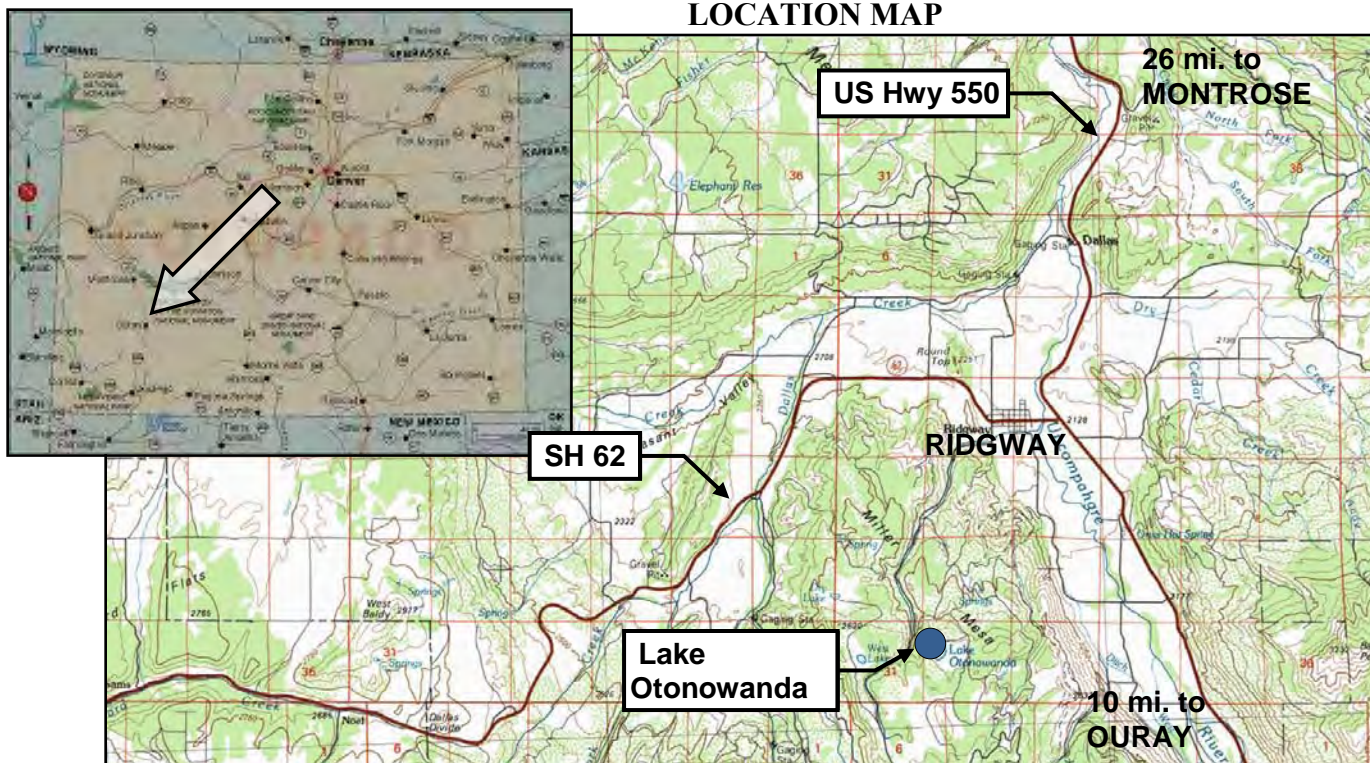
The Plaza Project is a multi-phased project intended to improve the health and function of the Rio Grande River in the Sevenmile Plaza area through stream bank restoration, wetland restoration, and the replacement of aging and inefficient diversion and headgate structures. Phase 1 was a planning phase 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 CWCW 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.





**CWCB Construction Loan Program  
Project Data Sheet****Borrower:** Town of Ridgway**County:** Ouray**Project Name:** Lake Otonowanda Rehabilitation Project**Project Type:** Reservoir Enlargement**Drainage Basin:** Gunnison, District 68**Water Source:** Ridgway Ditch**Total Project Cost:** \$2,080,843**Funding Sources:** Construction Fund, WSRA, DOLA, CO River District**Type of Borrower:** middle-income municipal**Avg. Diversion:** 280 AF (363 AF of reservoir storage)**Loan Amount:** \$606,000 (Including 1% fee)**Interest Rate:** 3.0%**Term:** 30 years**WSRA Grant Amounts:** \$60,000 Gunnison Basin & \$540,000 Statewide

The Town of Ridgway is requesting a CWCB loan for rehabilitation improvements and enlargement of Lake Otonowanda to ensure a reliable water supply of raw water is 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, with a current capacity of 109 AF, does not have a functional outlet works; therefore, no way to control reservoir discharge. 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, will provide 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.

**LOCATION MAP**

## 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

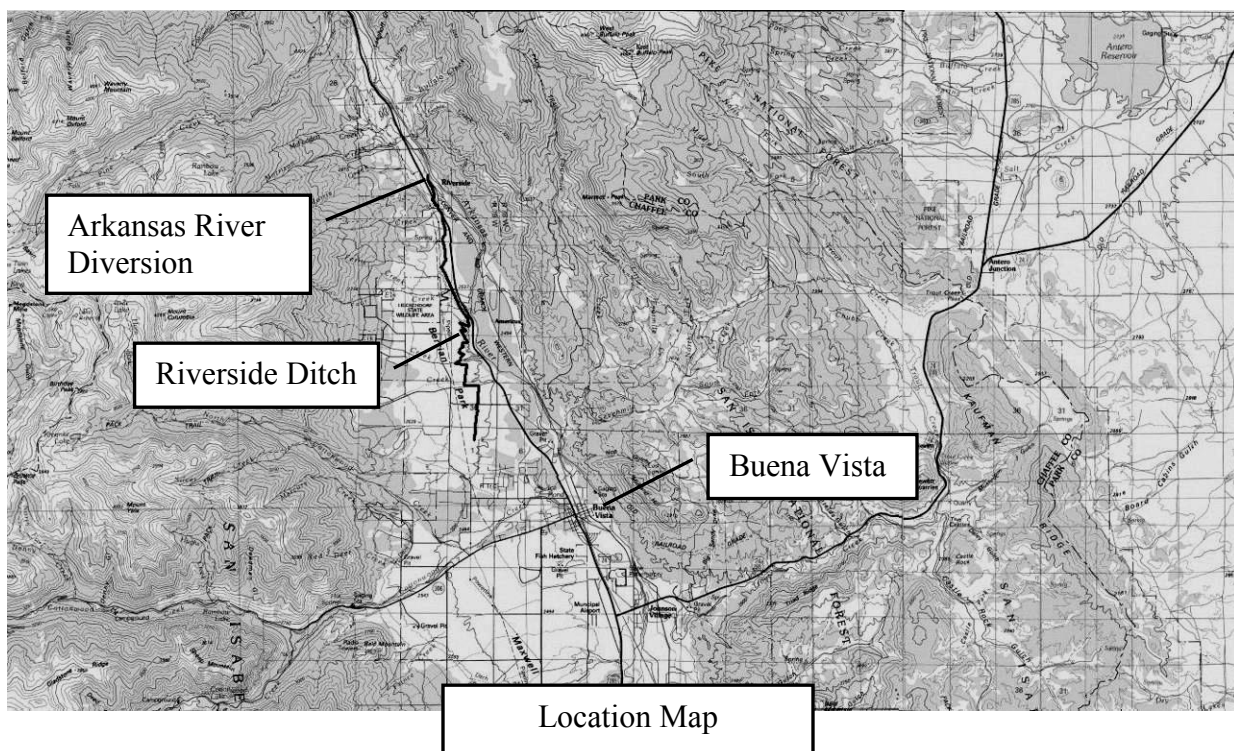
**Type of Borrower:** Agricultural

**Average Diversion:** 3,250 acre-feet

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

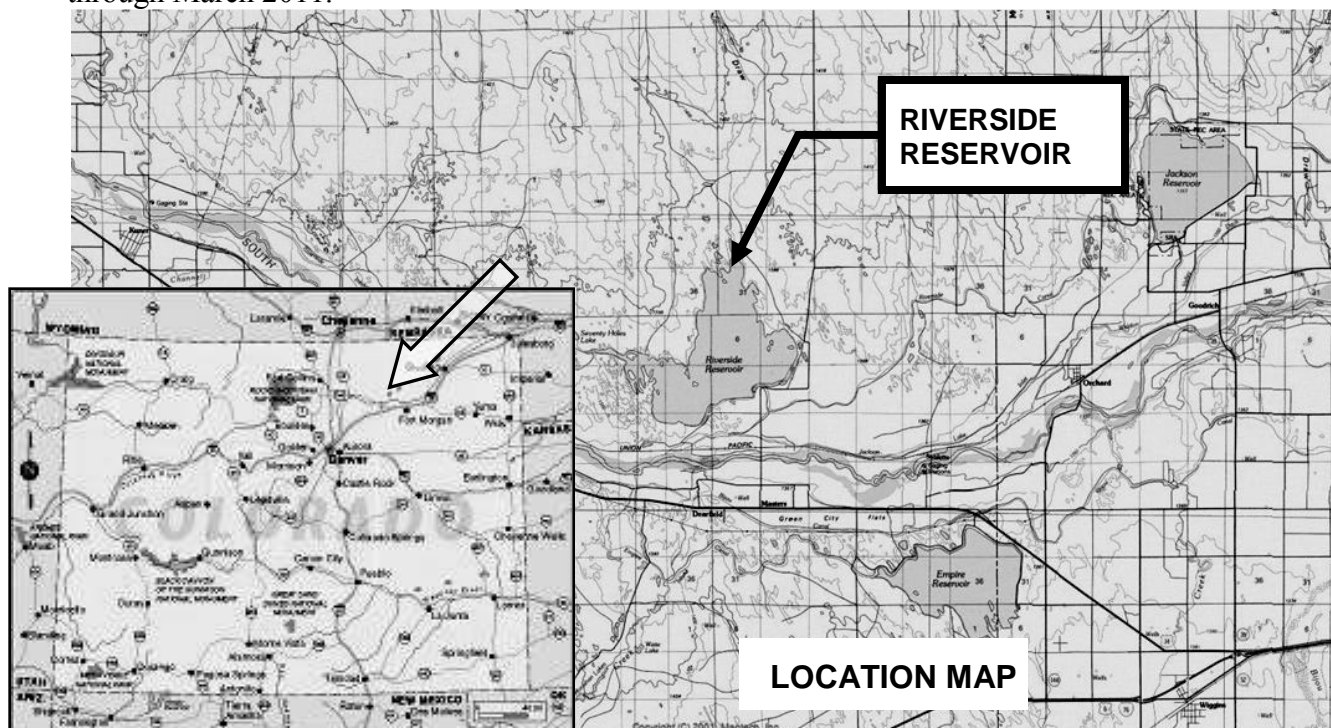
**Interest Rate:** 2.75%    **Term:** 30 years

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.

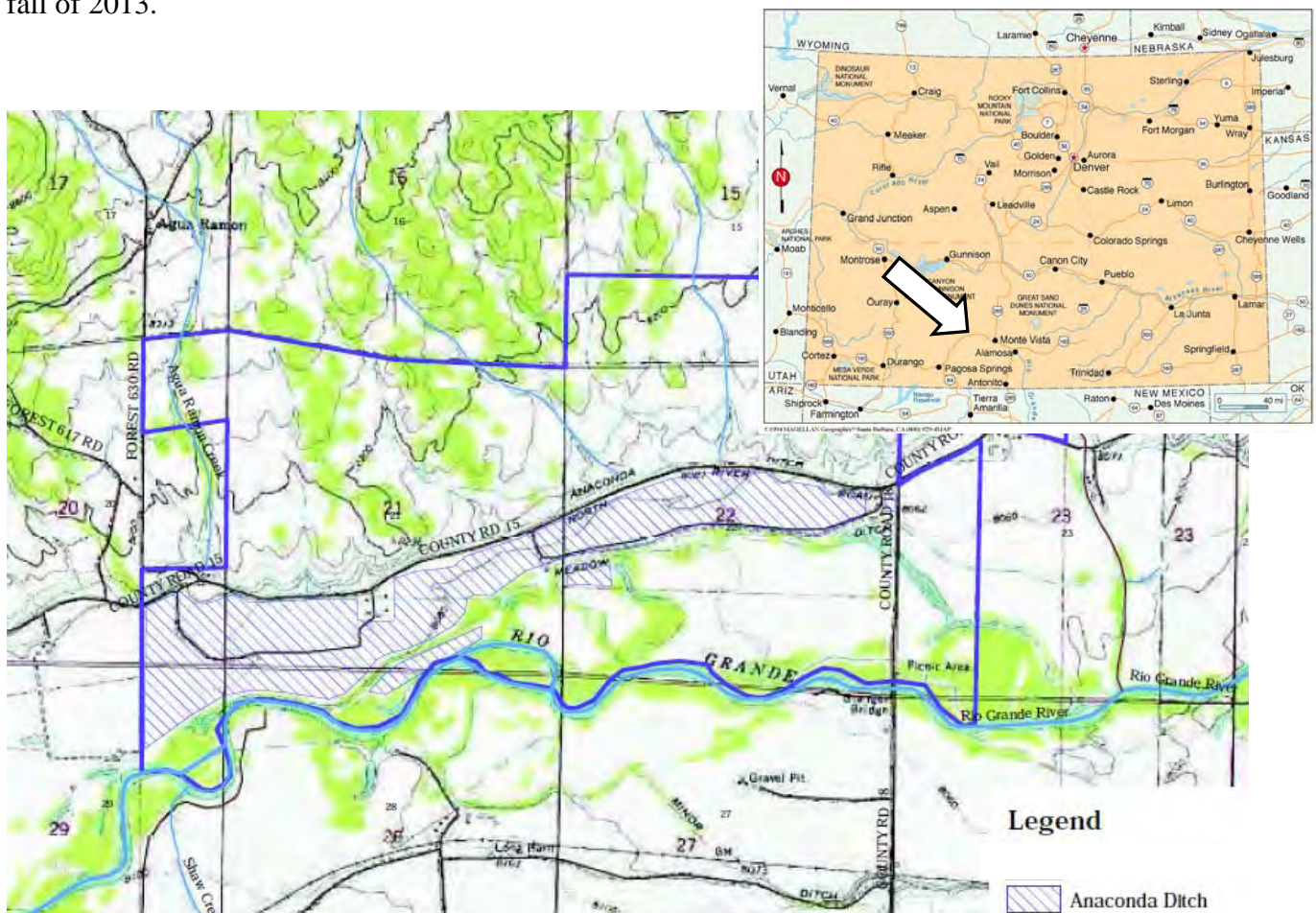




## Water Project Loan Program - Project Data Sheet

<b>Borrower:</b> San Luis Valley Water Conservancy District	<b>County:</b> Alamosa
<b>Project Name:</b> Anaconda Ditch Water Right Acquisition	<b>Project Type:</b> Water Rights
<b>Drainage Basin / District:</b> Rio Grande / 20	<b>Water Source:</b> Rio Grande River
<b>Total Project Cost:</b> \$923,000	<b>Funding Sources:</b> Construction Fund
<b>Type of Borrower:</b> Municipal Low Income	<b>Average Delivery:</b> 386 acre-feet
<b>CWCB Loan:</b> \$839,000 (Including 1% fee)	<b>Interest Rate:</b> 2.5% <b>Term:</b> 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

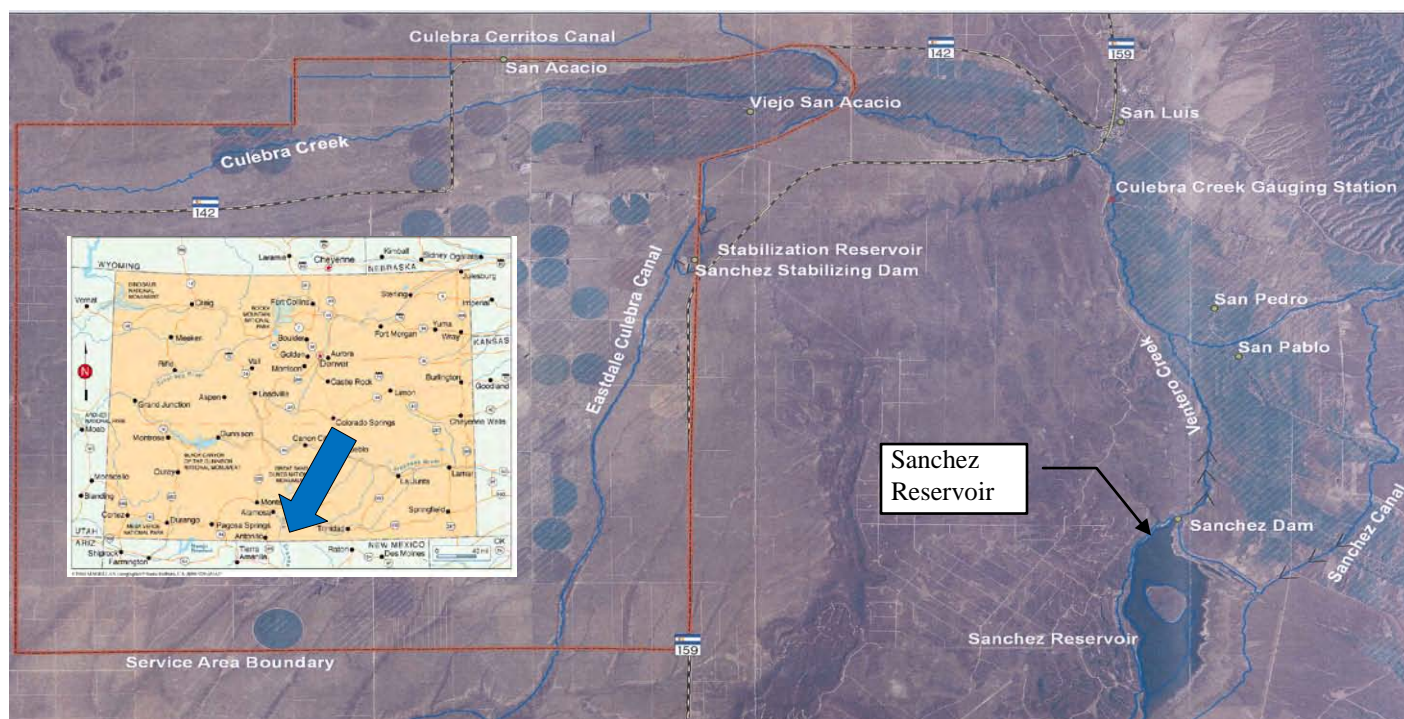
**Funding Sources:** Construction Fund &  
WSRA (Basin & Statewide funds)

**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.

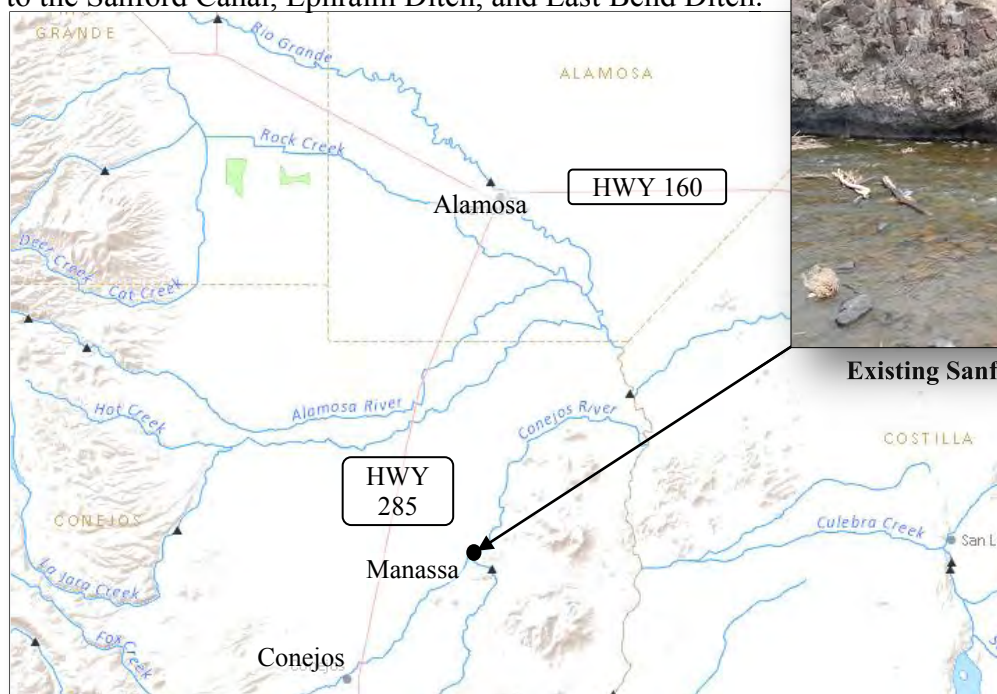




**CWCB Water Project Loan Program  
Project Data Sheet****C150401****Borrower:** The Sanford Canal Company**County:** Rio Grande**Project Name:** Sanford Diversion and  
Headgate Rehabilitation**Project Type:** Ditch Rehabilitation**Drainage Basin/ District:** Rio Grande / 22**Water Source:** Conejos River**Total Project Cost:** \$213,000**Funding Source:** Construction Fund,  
WSRA Grants**Type of Borrower:** Agricultural**Average Annual Diversion:** 4,000 AF**CWCB 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

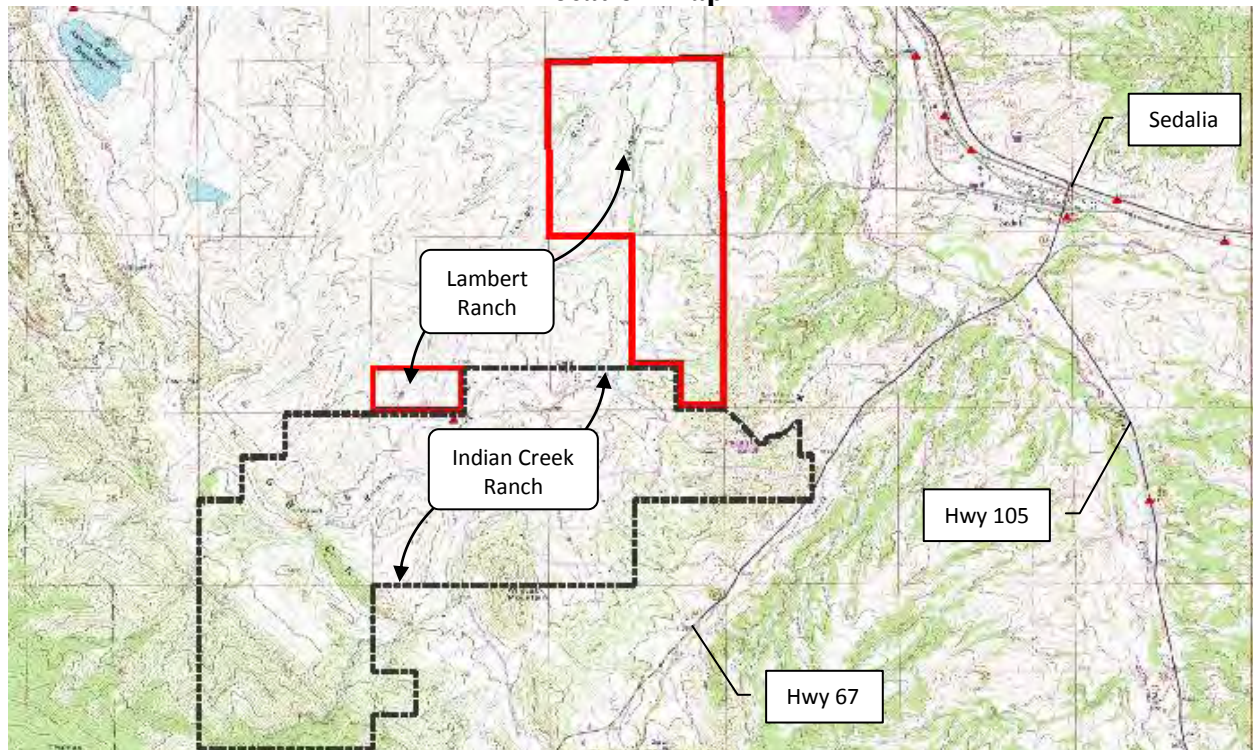
**Avg. Annual Delivery:** 55 AF

**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**

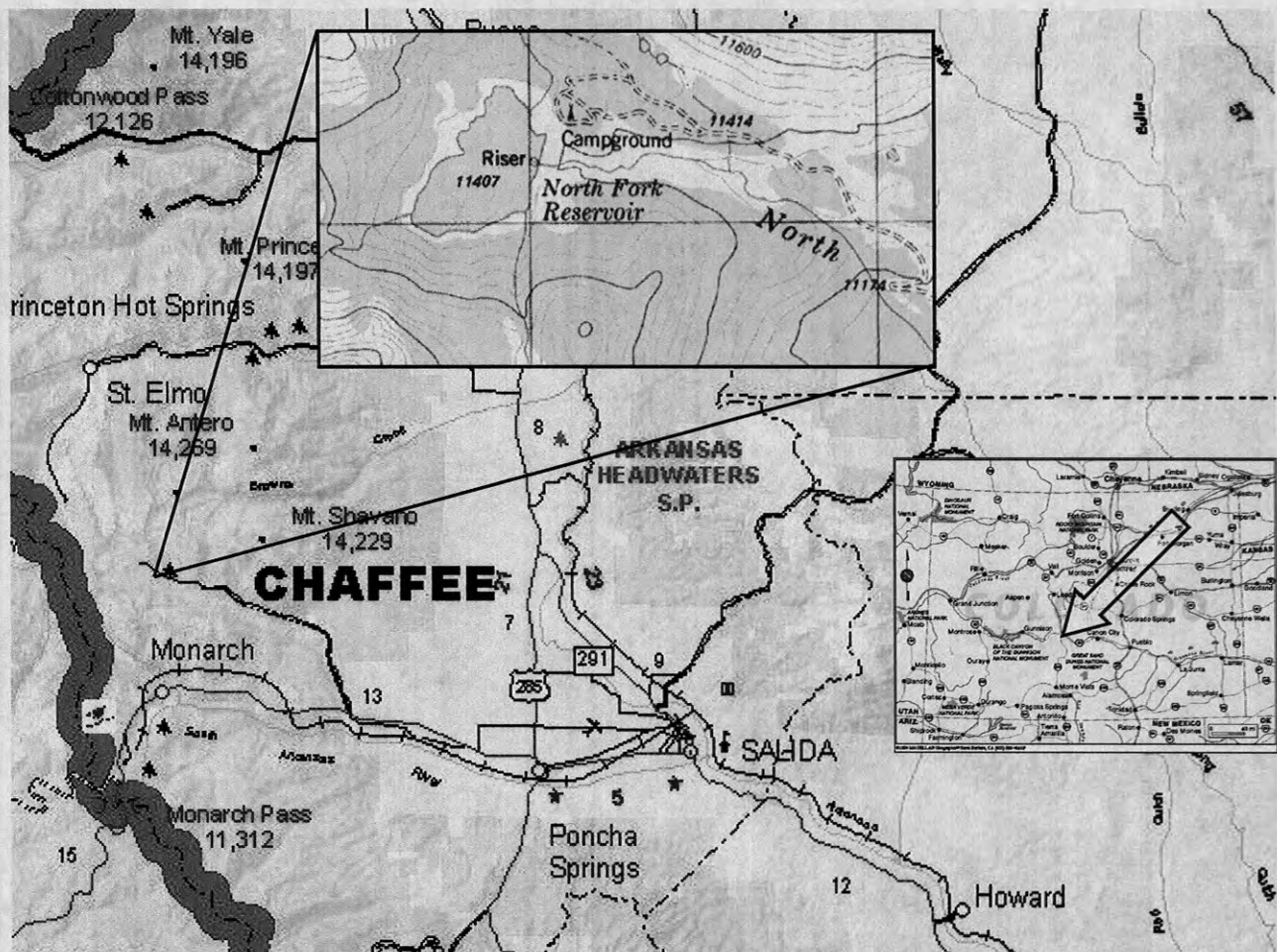


**CWCB Construction Loan Program  
PROJECT DATA SHEET**

LOAN PROGRAM  
ATTACHMENT #3

<b>Borrower:</b> Upper Arkansas Water Conservancy District	<b>County:</b> Chaffee/Fremont/Custer
<b>Project Name:</b> North Fork Reservoir Rehab/Expansion	<b>Drainage Basin:</b> Arkansas River
<b>Project Type:</b> Dam and Spillway Modifications	<b>Water Source:</b> N. Fork of S. Arkansas
<b>Total Project Cost:</b> \$3,309,850	<b>Funding Sources:</b> CWCB & Company
<b>Loan Amount:</b> \$2,980,000	<b>Current Reservoir Storage:</b> 500 acre-feet
<b>Type of Borrower:</b> Low Municipal/Agricultural	<b>Interest Rate:</b> 3.0% <b>Term:</b> 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



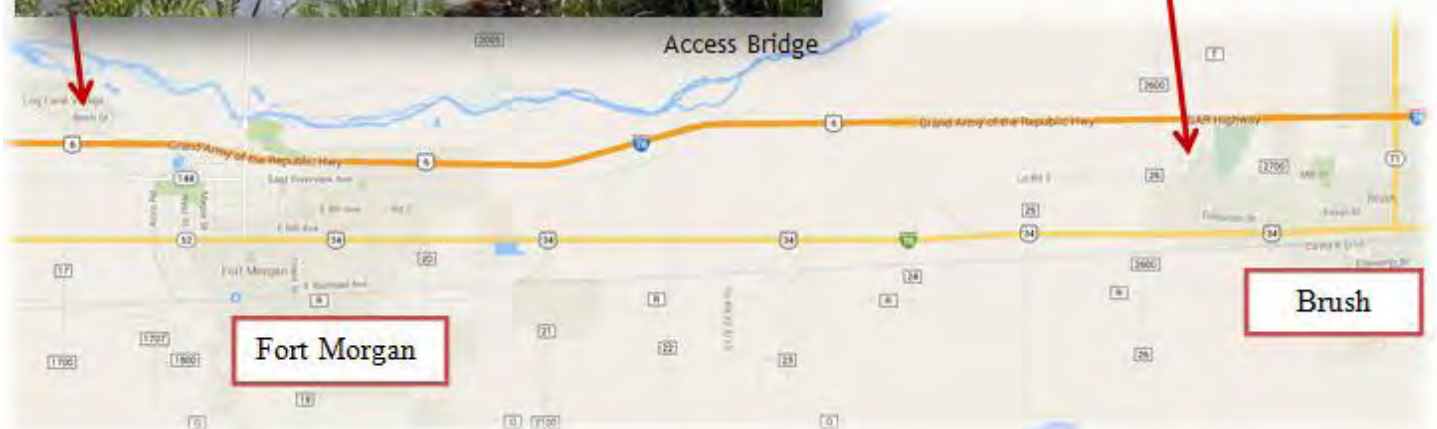
## CWCB Water Project Loan Program Project Data Sheet

<b>Borrower:</b>	Upper Platte & Beaver Canal Company	<b>County:</b>	Morgan
<b>Project Name:</b>	Hospital Road Recharge Facility and Bridge Widening Project	<b>Project Type:</b>	Augmentation
<b>Drainage Basin/ District:</b>	South Platte Basin Division 1, District 1	<b>Water Source:</b>	South Platte River
<b>Total Project Cost:</b>	\$210,000	<b>Funding Source:</b>	Construction Fund
<b>Type of Borrower:</b>	Blended	<b>Average Annual Diversion:</b>	35,000 Acre-feet
<b>CWCB Loan:</b>	\$190,890 (with 1% service fee)	<b>Interest Rate:</b>	1.75%
		<b>Term:</b>	10 years

The Upper Platte & Beaver Canal Company desires funding to construct an augmentation pond, and, at a separate location, to widen an existing access bridge at their primary diversion along the South Platte River. The augmentation pond will enable better retiming of return flows to the river by virtue of its further location from the river than existing augmentation ponds operated by the Company. The widening of the access bridge will allow improved function and safety crossing the canal for ongoing maintenance needs.



Augmentation Pond





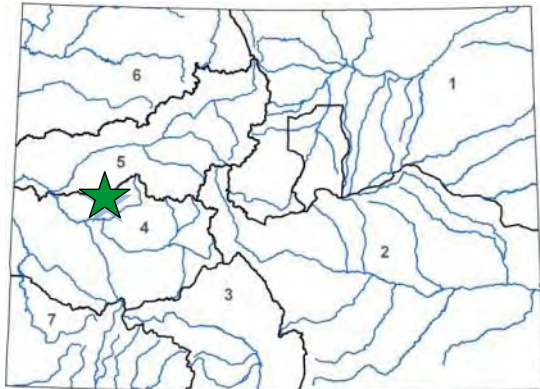


## West Reservoir And Ditch Outlet Repair Project

West Reservoir and Ditch Company

November 2014 Board Meeting

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.

West Reservoir  
No. 1

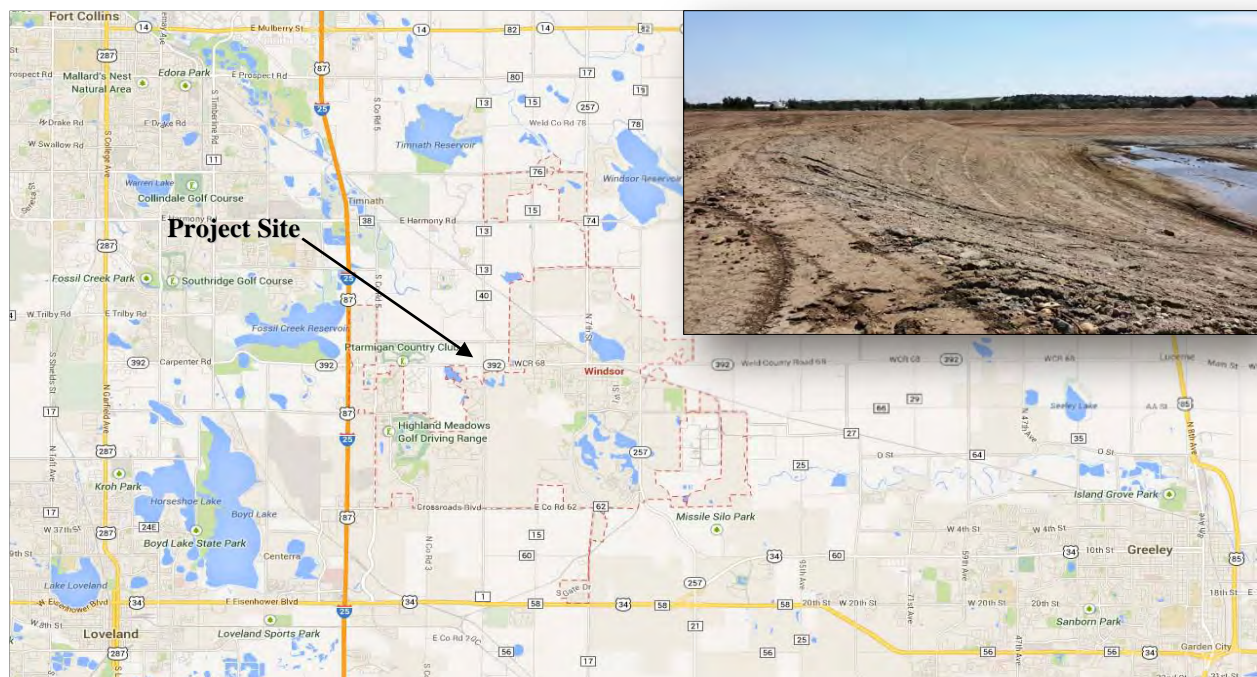


# CWCB Water Project Loan Program Project Data Sheet

**C150366**

<b>Borrower:</b> Town of Windsor Water Enterprise	<b>County:</b> Larimer/Weld
<b>Project Name:</b> Kyger Reservoir Project	<b>Project Type:</b> Reservoir Construction
<b>Drainage Basin/ District:</b> South Platte / 3	<b>Water Source:</b> Cache la Poudre River
<b>Total Project Cost:</b> \$6,300,000	<b>Funding Source:</b> Construction Fund
<b>Type of Borrower:</b> Municipal (High)	<b>Average Annual Delivery:</b> 2035 AF
<b>CWCB Loan:</b> \$4,545,000 (with 1% service fee)	<b>Interest Rate:</b> 2.75% <b>Term:</b> 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

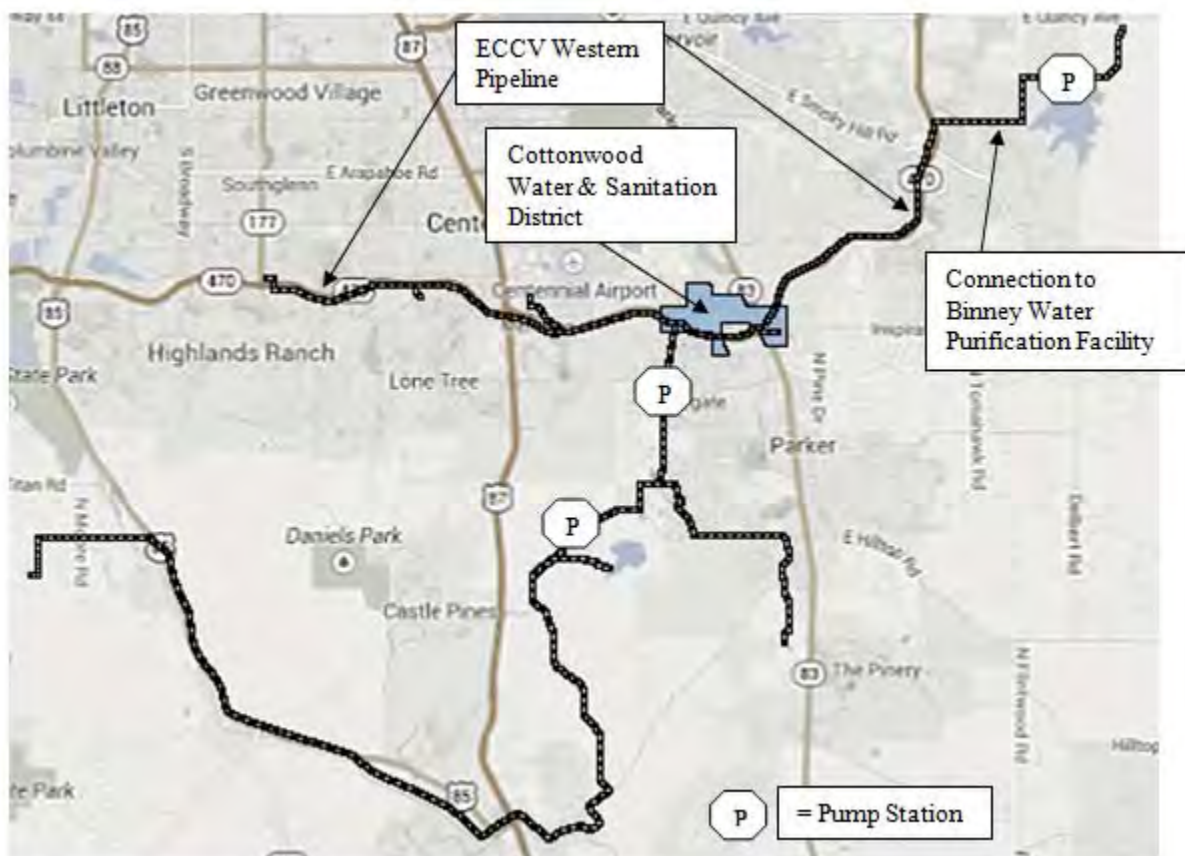
**Average Annual Delivery:** 789 AF

**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

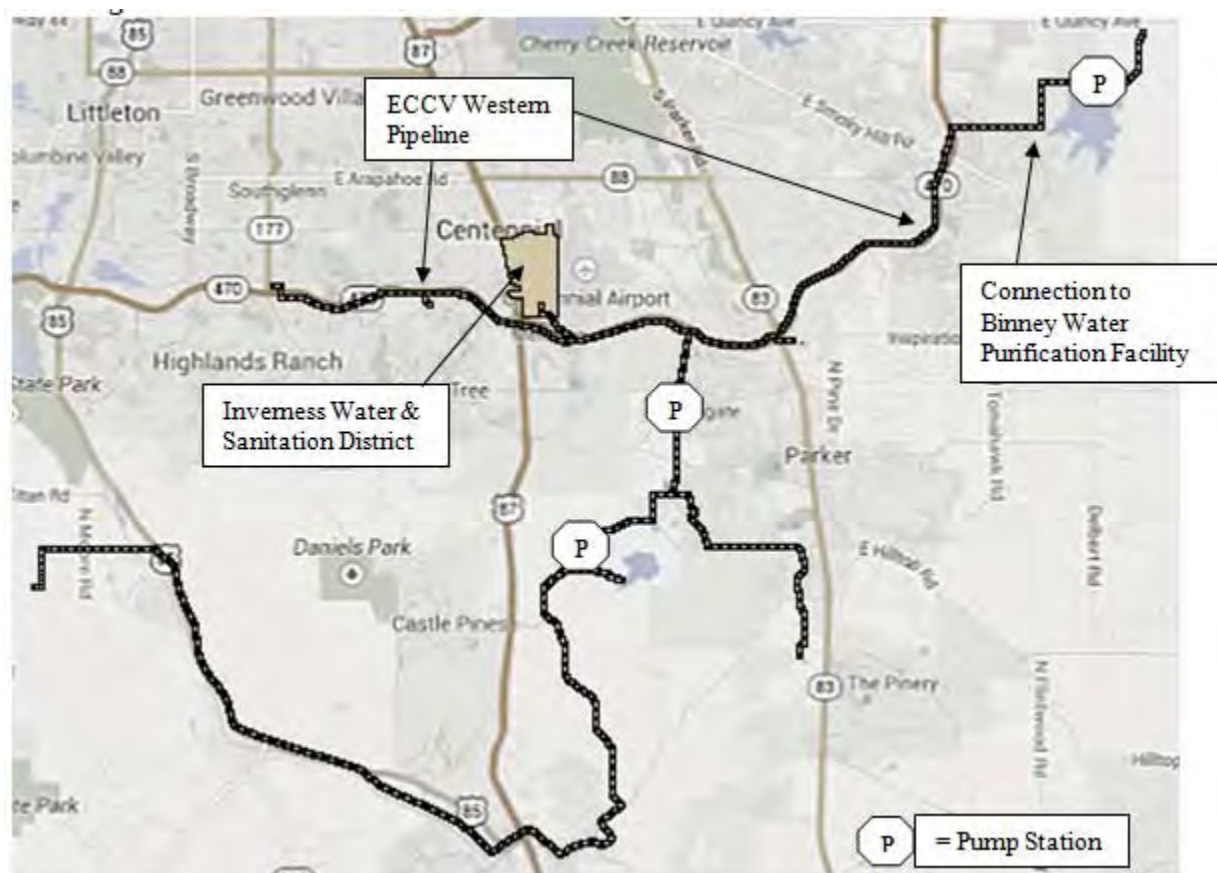
**Average Annual Delivery:** 1,100 AF

**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

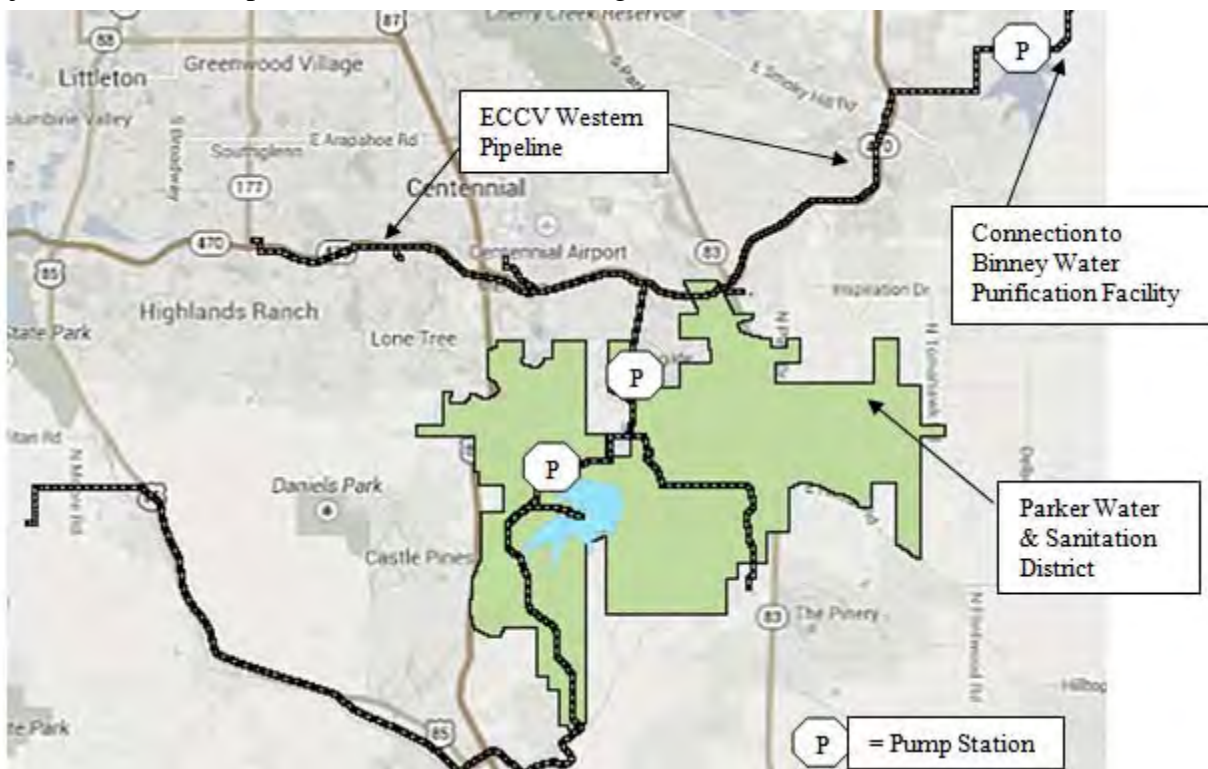
**Type of Borrower:** High-income Municipal      **Average Annual Delivery:** 5,000 AF

**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**

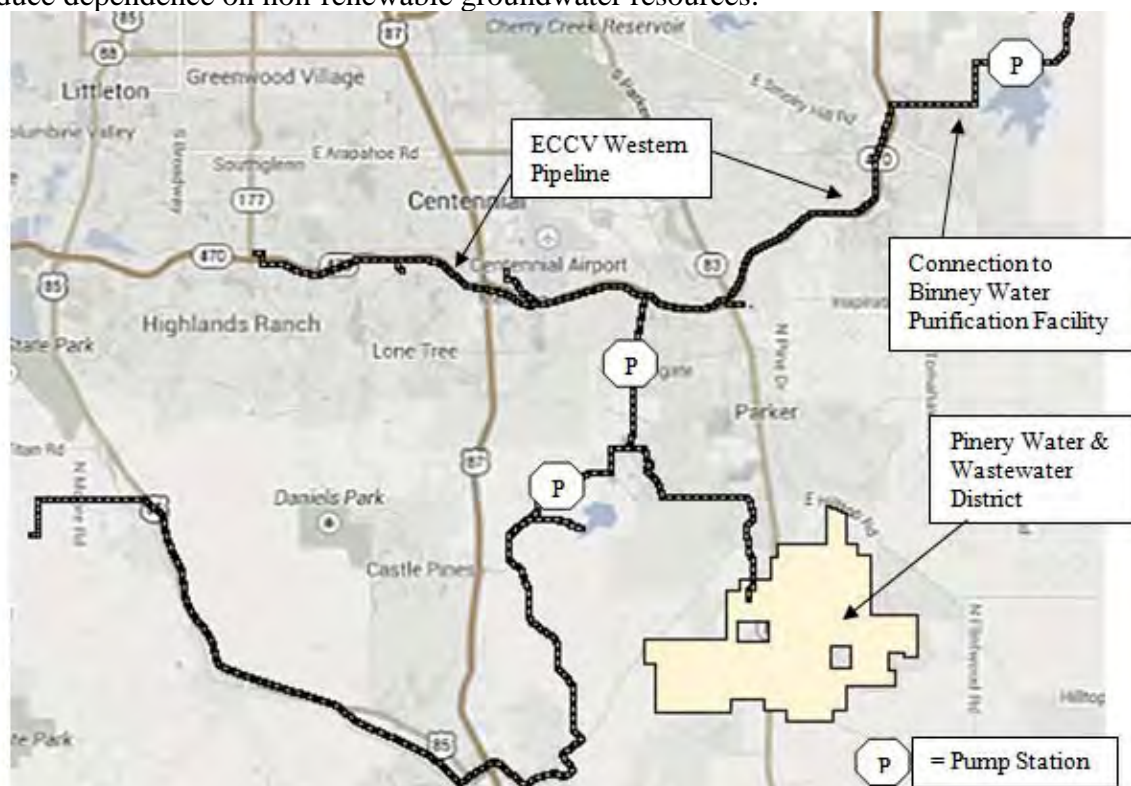
**C150411**

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

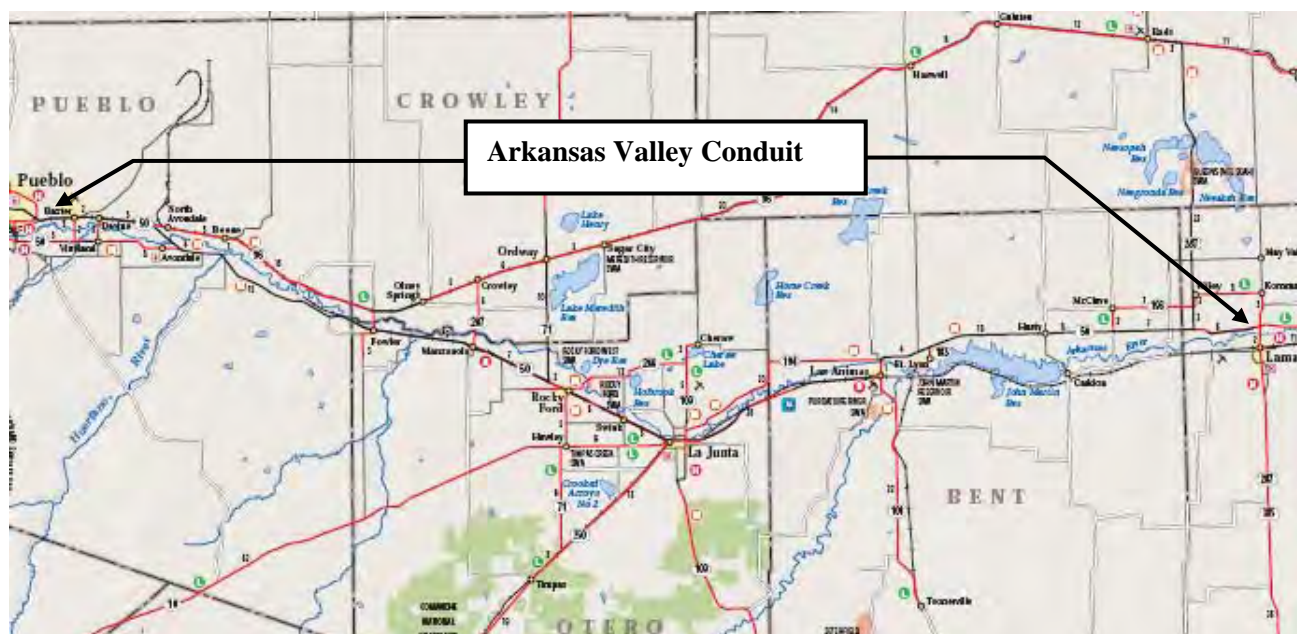
**Aver. Delivery:** 6,555 AF (2005 demand)

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

**Interest Rate:** 3.25%

**Term:** 30 years

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



Location Map



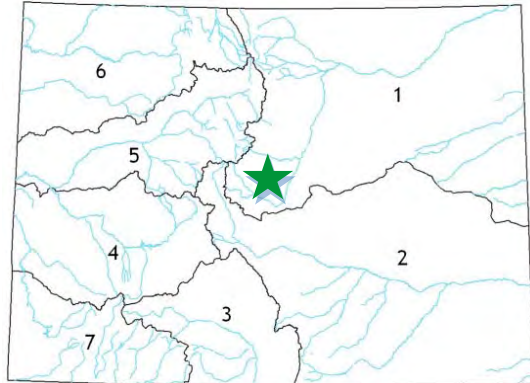
Water Project Loan Program  
Project Data Sheet

## 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	Commercial	
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.





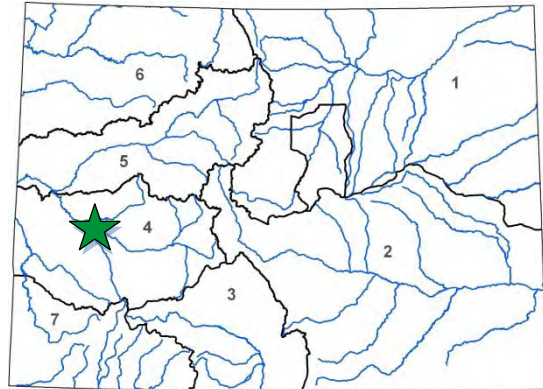


# Drop 5 Hydroelectric Project

## Uncompahgre Valley Water Users Association

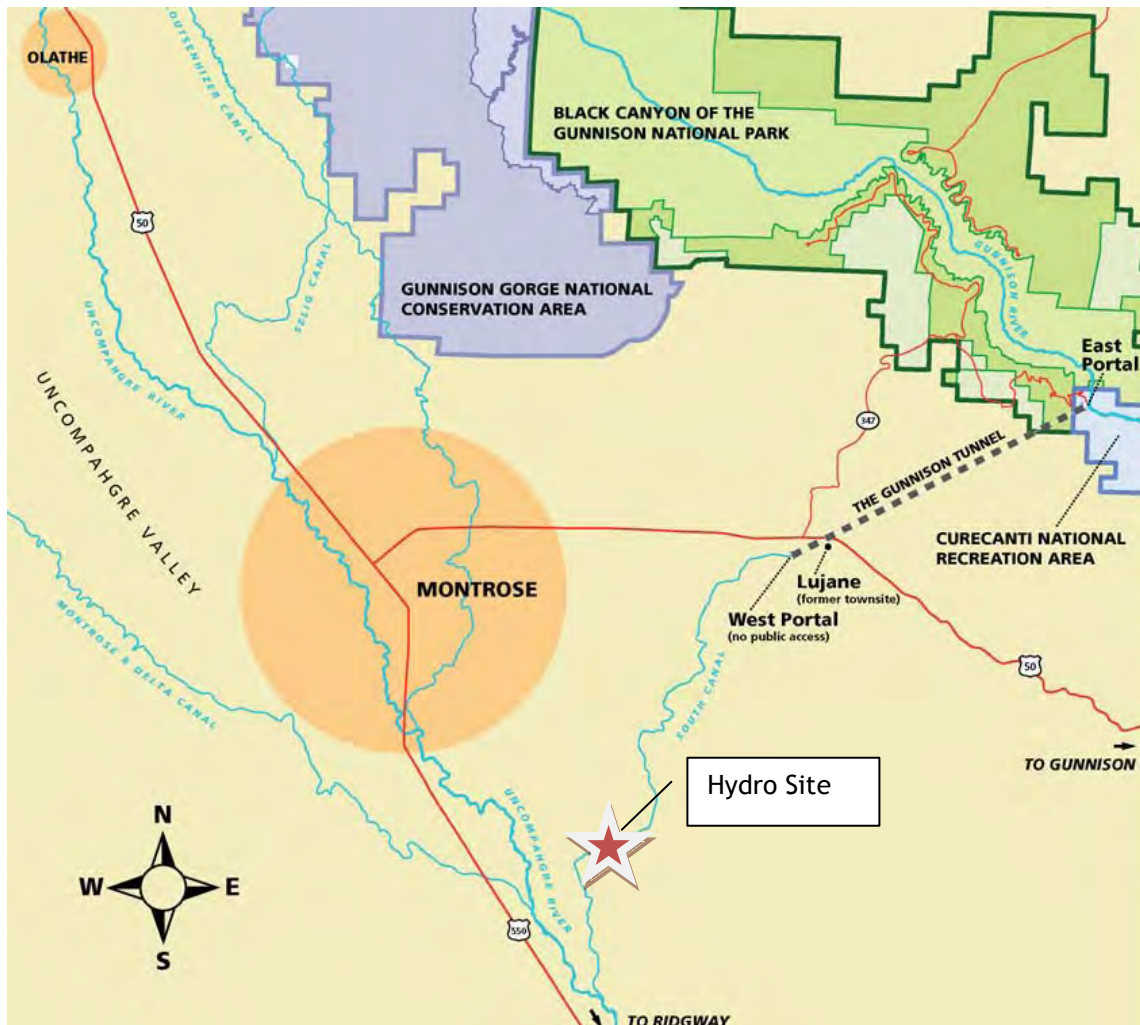
May 2015 Board Meeting

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.



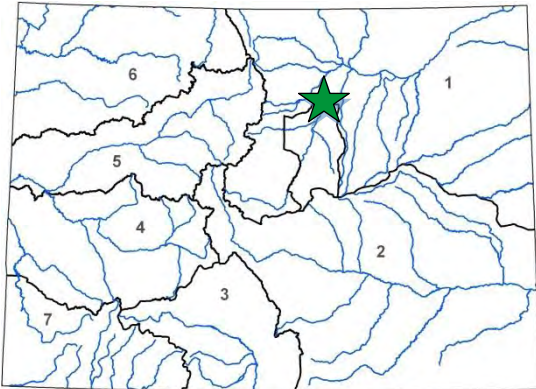


## River Breach Repair Project

Brighton Ditch Company

September 2015 Board Meeting

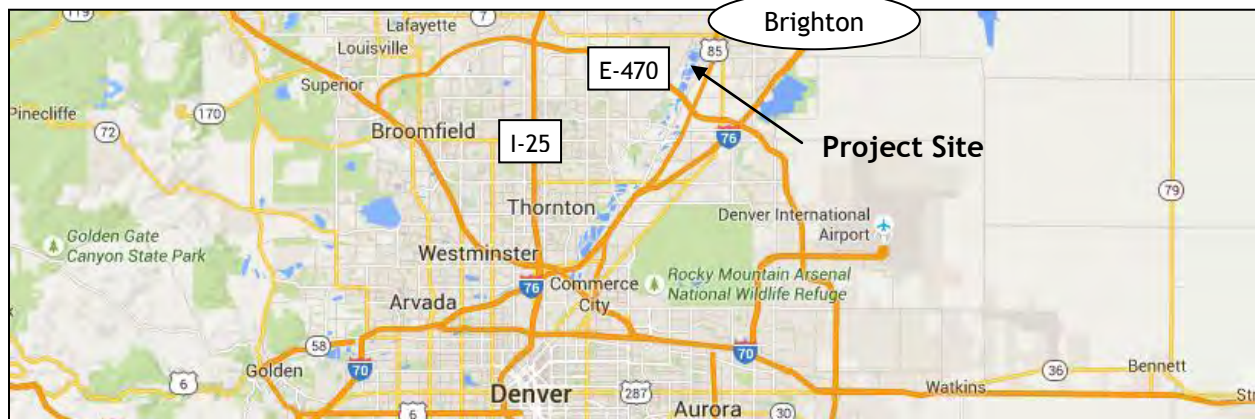
L O A N   D E T A I L S	
Project Cost:	\$530,000
CWCB Loan (with Service Fee):	\$481,770
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
36%	0% Low - 53% Mid - 5% High      5%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversion:	7,125 AF



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

The Company is located in Adams County and operates the Brighton Ditch for the benefit of its shareholders. The ditch diverts from the South Platte River, west of the City of Brighton, and delivers water to approximately 1,840 acres in Adams and Weld County. Irrigated acreage within the service area is primarily used for crop production for sale in local markets with some hay production for cattle feed or sale. Water at the end of the ditch is measured by an augmentation station used by four shareholders: Central Colorado Water Conservancy District, South Adams County Water & Sanitation District, the City of Aurora, and the City of Westminster.

In May and June of 2015, the South Platte River experienced extended high flows. This resulted in a breach of the river 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.



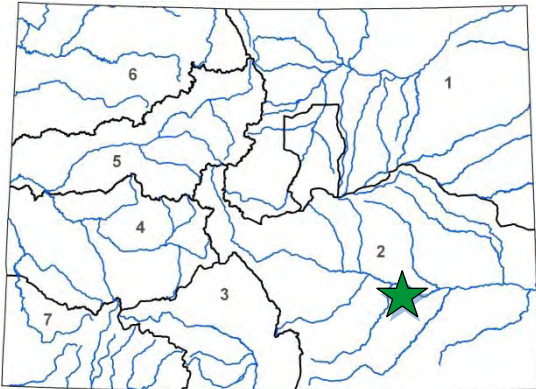




## Replacement of the Horse Creek Flume

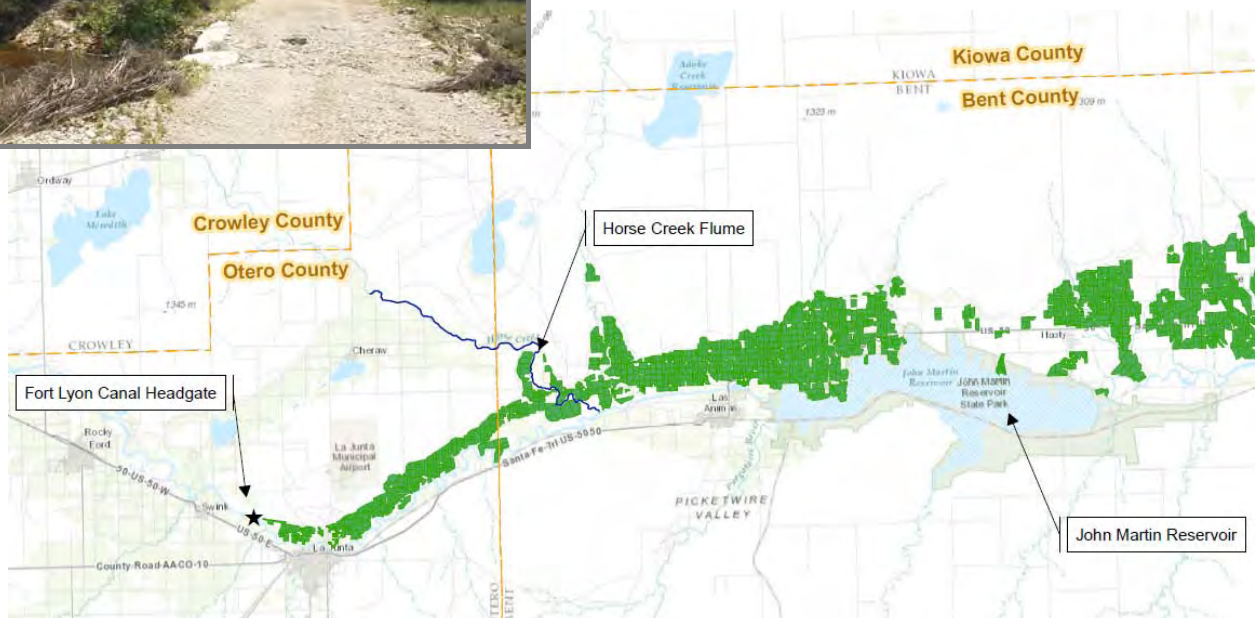
Fort Lyon Canal Company  
September 2015 Board Meeting

L O A N   D E T A I L S	
Project Cost:	\$2,188,000
CWCB Loan (with Service Fee):	\$1,629,130
Loan Term and Interest Rate:	30 Years @ 1.75%
Funding Source:	WSRA & Sev. Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
99%	0% Low - 0% Mid - 0% High      1%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Delivery:	221,000 AF



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

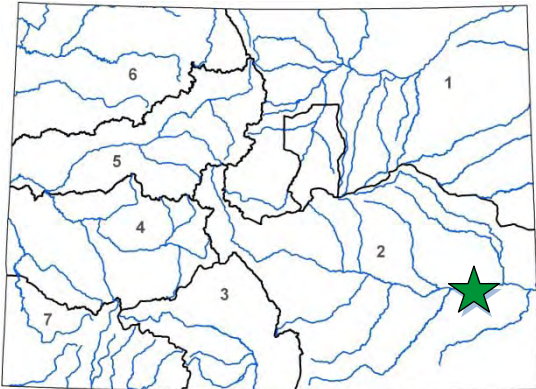
The Horse Creek Flume has been in operation since 1938. The flume is a 400-foot-long, 10-foot-diameter, elevated steel pipe located on the Fort Lyon Canal where it crosses Horse Creek, approximately 10 miles northeast of La Junta and about 8 miles west of Las Animas, in Bent County, Colorado. Three different Professional Engineers have assessed the flume and all found it 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. Despite ongoing repairs over the years, the flume has reached the end of its service life and the Company seeks to replace it.







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



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

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



Water Project Loan Program - Project Data Sheet

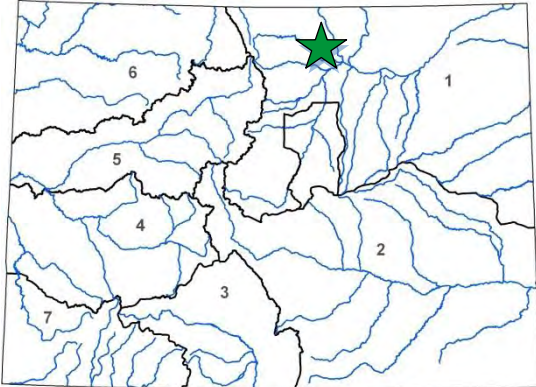


## Box Elder Ditch Water Rights Purchase

Lower Poudre Augmentation Company

September 2015 Board Meeting

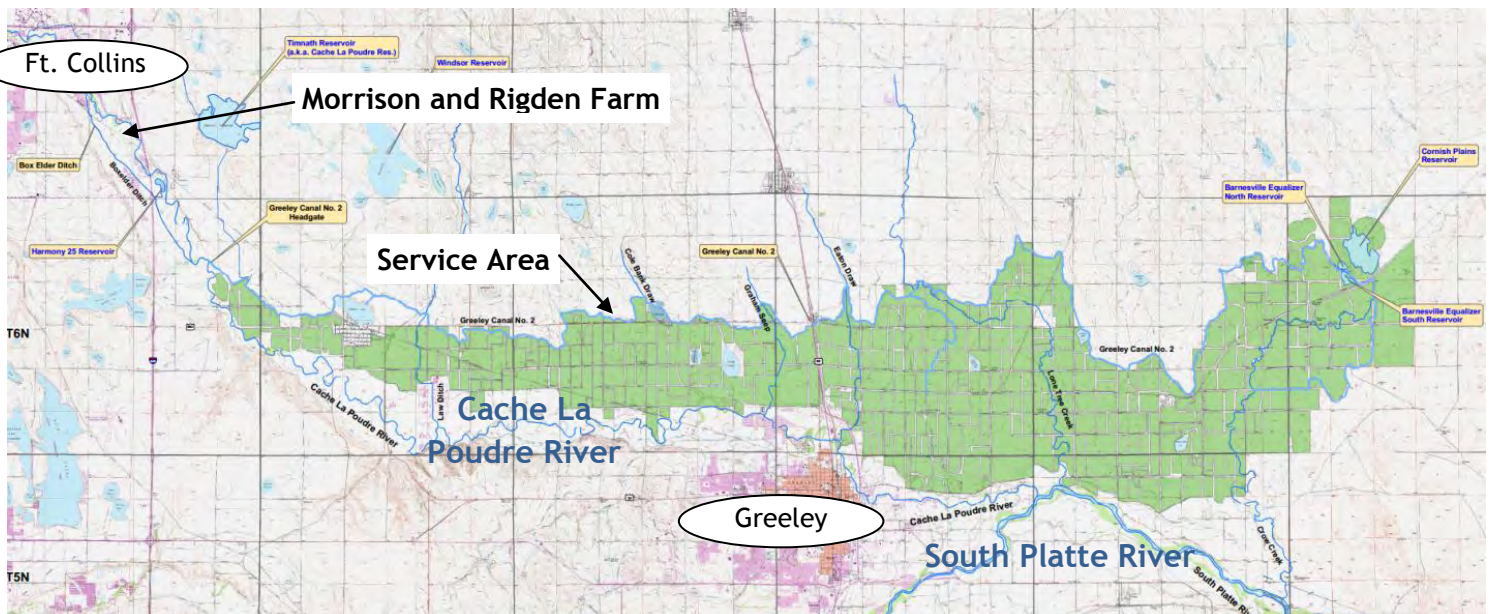
L O A N   D E T A I L S	
Project Cost:	\$500,000
CWCB Loan (with Service Fee):	\$454,500
Loan Term and Interest Rate:	30 Years @ 1.85%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
94%	1% Low - 4% Mid - <1% High      1%
P R O J E C T   D E T A I L S	
Project Type:	Water Rights Purchase
Average Annual Delivery:	4,000 AF



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

The 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 1 AF of augmentation water per irrigated acre quota due to a limited augmentation water supply.

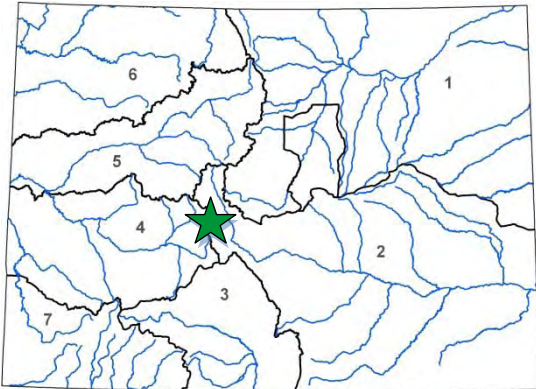
The Company seeks to purchase 0.5 Box Elder Ditch shares historically used on the Morrison Farm, and 1.5 Box Elder Ditch shares historically used on the Rigden Farm (Subject Shares). The land historically irrigated by the Subject Shares is now the site of an active gravel pit and will become a lined 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.







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

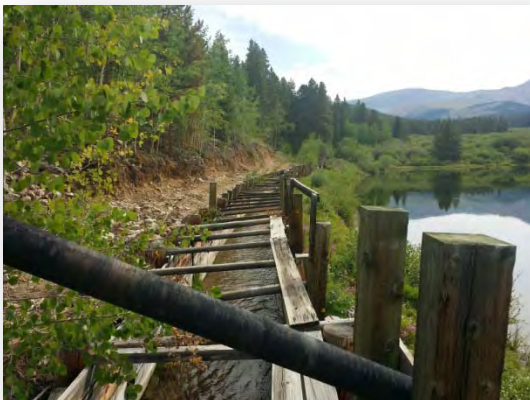


L O C A T I O N	
County:	Lake
Water Source:	Evans Gulch
Drainage Basin:	Arkansas River
Division:	2
District:	11

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.



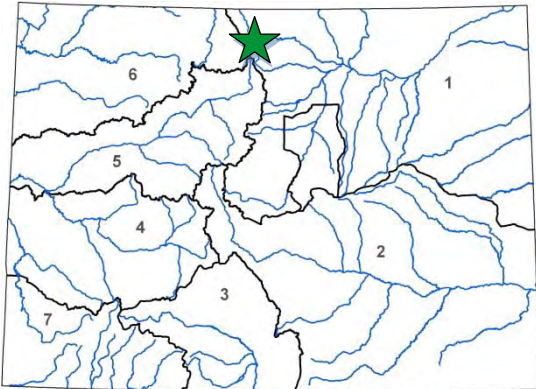




## Laramie-Poudre Tunnel Rehabilitation

The Tunnel Water Company  
September 2015 Board Meeting

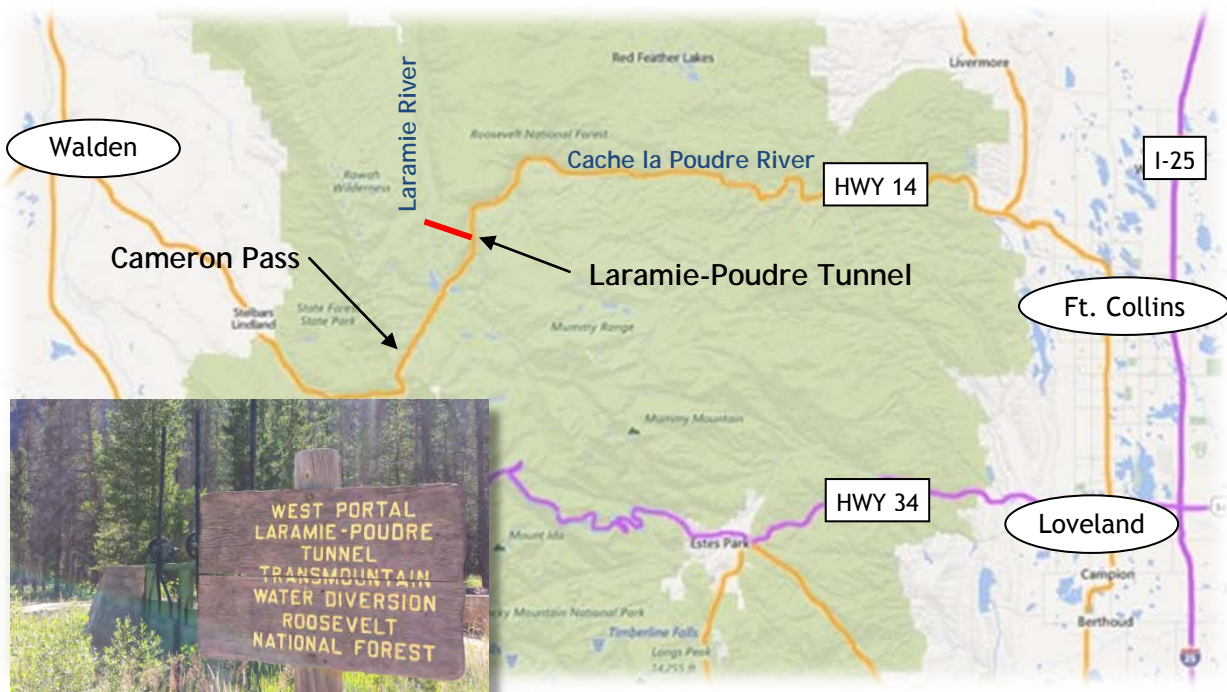
L O A N   D E T A I L S	
Project Cost:	\$1,225,000
CWCB Loan (with Service Fee):	\$1,111,000
Loan Term and Interest Rate:	30 Years @ 2.55%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
24%	20% Low - 24% Mid - 32% High      0%
P R O J E C T   D E T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





**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

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Denver, CO 80203

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John Hickenlooper, Governor

Mike King, DNR Executive Director

James Eklund, CWCB Director

**TO:** Colorado Water Conservation Board Members

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

**DATE:** November 18-19, 2015

**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 \$23 million. There are currently eighteen (18) 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. One (1) project, Haldi Ditch Company, will be deauthorized at the November Board Meeting.

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.



Current Projects in Design or under Construction

Borrower/Project		County	Loan Amount	Annual Delivery Yield (AF)	Design Status	Construction Start/End	Construction Status	PM	Status Description/Update
1	Beeman Irrigation > Emergency Beeman Diversion Dam Repair C150385	Weld	\$ 2,020,000	10,586	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	25,391	75%	7/2014-4/2017	20%	JMH	Project includes the reconstruction of 5 dams in series. Mirror Dam complete as of April 2015. Rainbow Dam to be constructed Fall 2015 with other 3 dams to follow. Association still working with FEMA to get Meadows Dam covered.
3	Big Thompson and Platte River > Big Thompson & Platte River Div. Structure Repair C150373	Larimer	\$ 808,000	9,736	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	4,500	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	1,177	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	8,355	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	\$ 1,858,400	22,000	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	22,000	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	1,200	100%	2/2014-4/2014	100% Ltr	JMH	Construction complete, used all loan funds. FEMA grant reimbursement is still pending.
10	Green Ditch Company > Emergency Green Ditch Channel Repair C150383	Boulder	\$ 530,250	1,847	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	38,000	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	4,500	100%	1/2014-4/2014	100% Ltr	JMH	Construction complete, used all loan funds.

**LOAN PROGRAM  
ATTACHMENT #4**

13	Left Hand Ditch Company > Left Hand Ditch System Repairs C150370	Boulder	\$ 3,276,056	22,700	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	31,700	100%	11/2015 - 4/2016	0%	JMH	Construction was delayed due to continuously high river conditions during winter of 2014/2015. Bids were received August 2015 and construction is to begin November 2015.
15	Oligarchy Irrigation Company > Oligarchy Irr. Ditch River Diversion Struct. Repair C150372	Boulder	\$ 1,262,500	7,966	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	7,528	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	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.
18	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 = \$ 18,382,757      219,186

**Projects Not Under Contract**

a	St. Vrain and Left Hand Water Conservancy District > Emergency Rock'n WP Ranch Lake No. 4 Repair	Boulder	\$ 4,545,000	2,200	In Contracting			JMH	Approved July 2014 Board Meeting. District delaying contracting until agreements with Boulder County are in place.
b	Haldi Ditch Company > Emergency Haldi Ditch Repair C150389	Boulder	\$ 50,500	3,000	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.

Not Under Contract SubTotal = \$ 4,595,500      5,200

Grand Total = \$ 22,978,257      224,386

**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

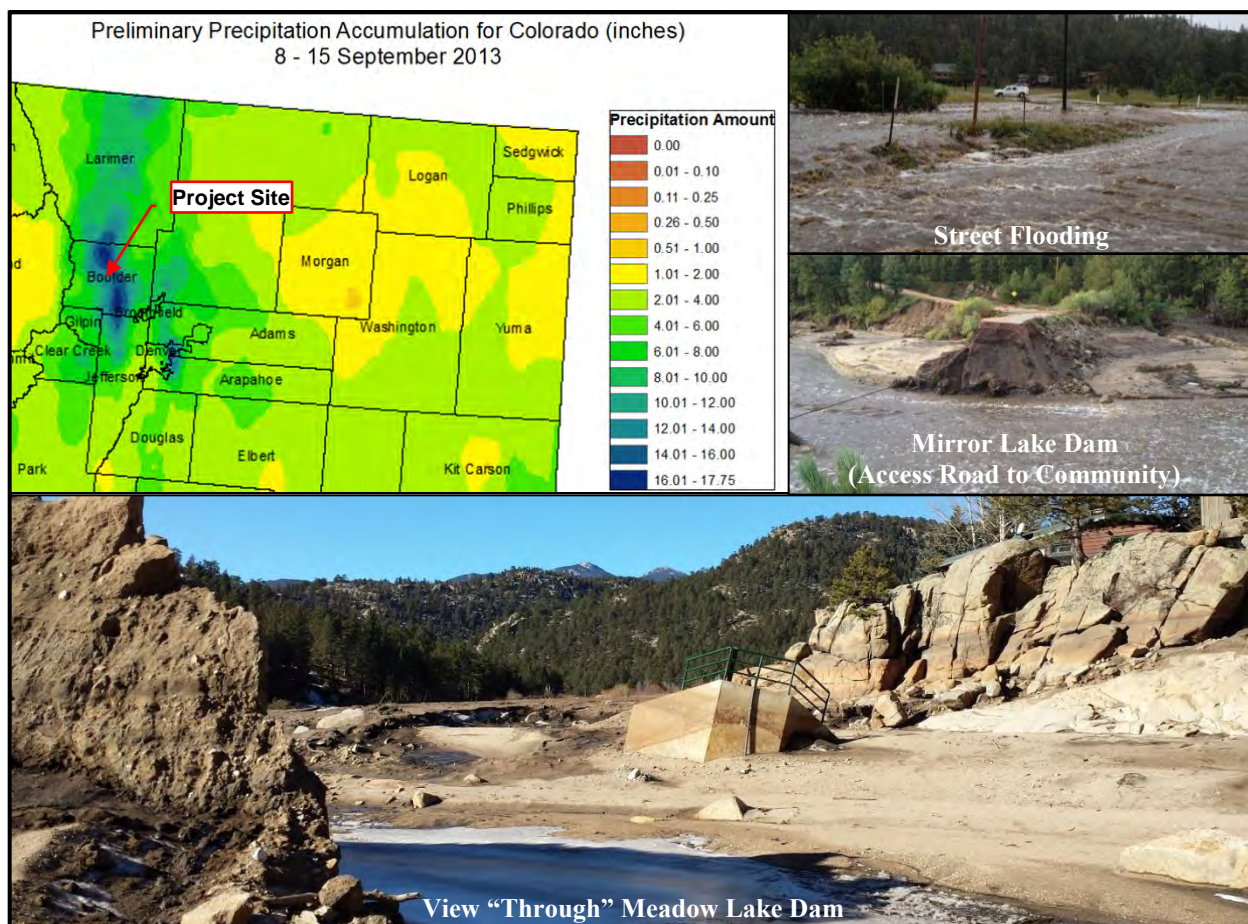
**Type of Borrower:** Middle-Income Municipal

**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

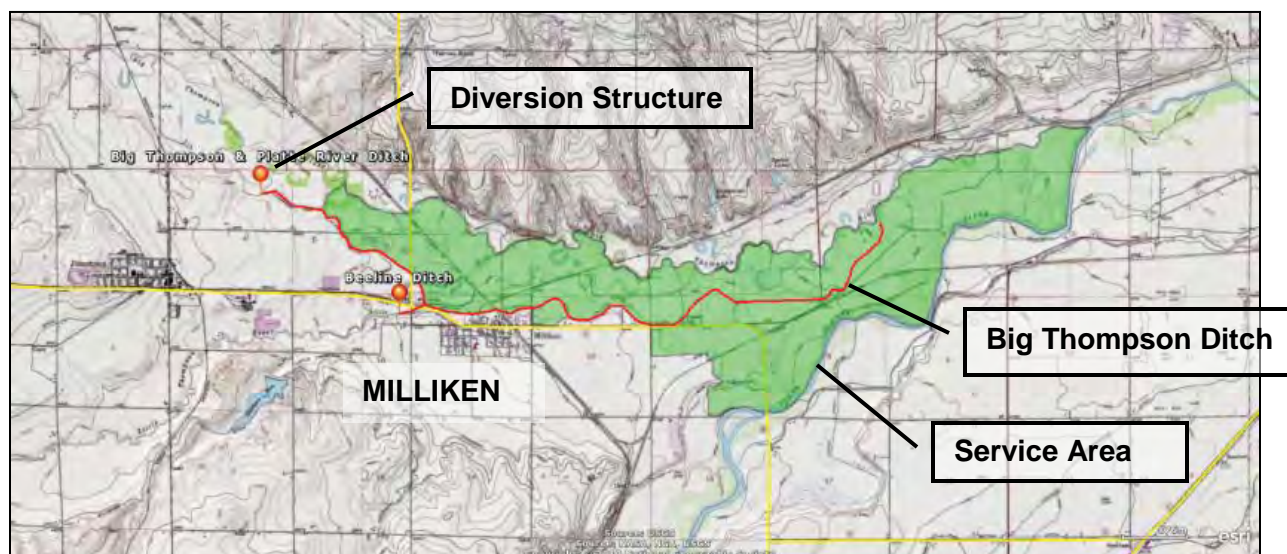
**Type of Borrower:** Blended

**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

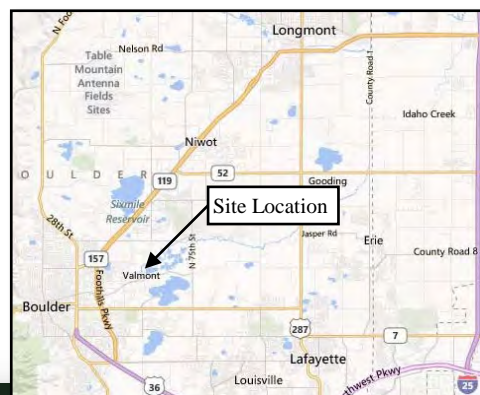
**Type of Borrower:** Blended

**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

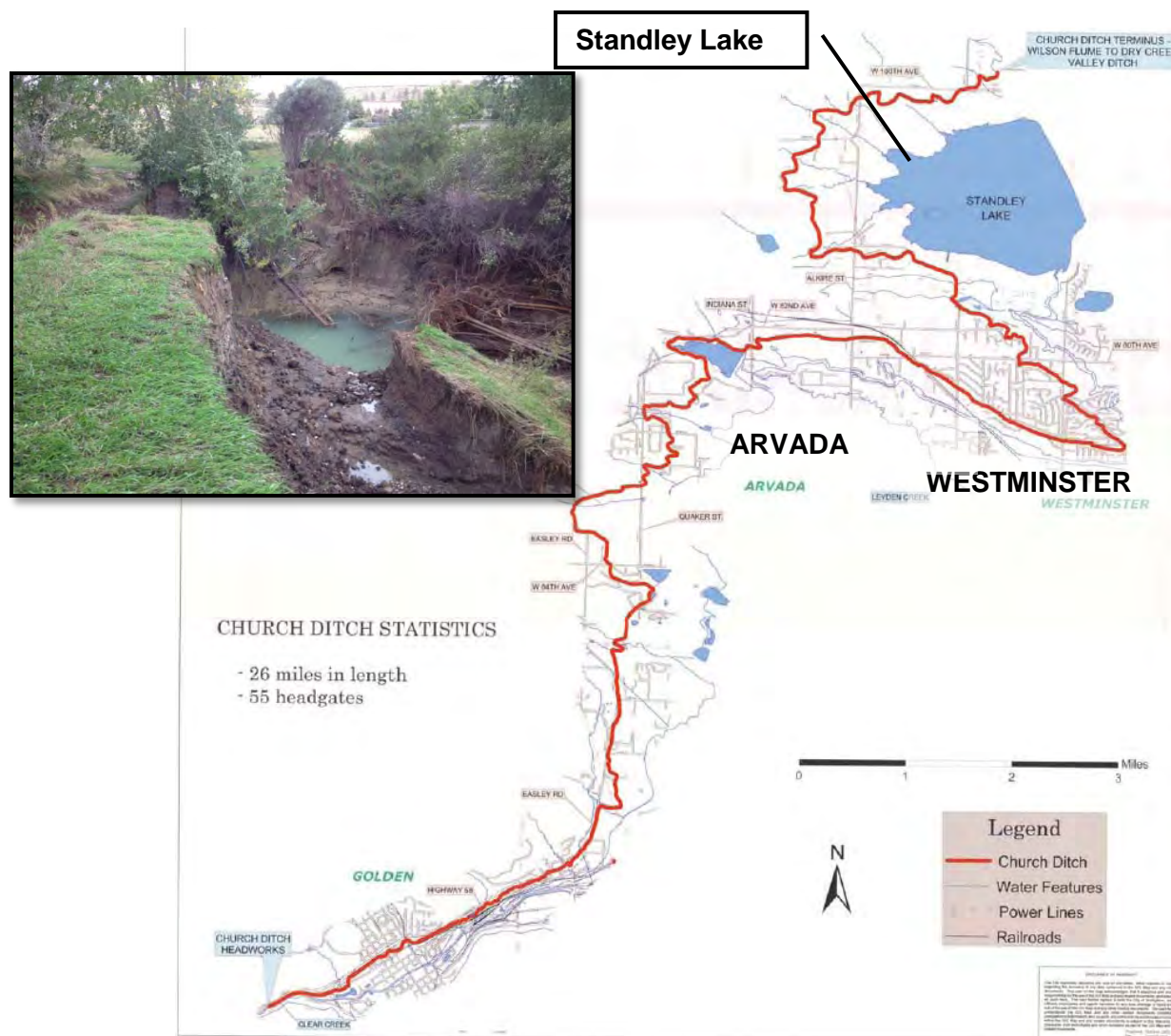
**Type of Borrower:** Blended

**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.



(Loan Increase)

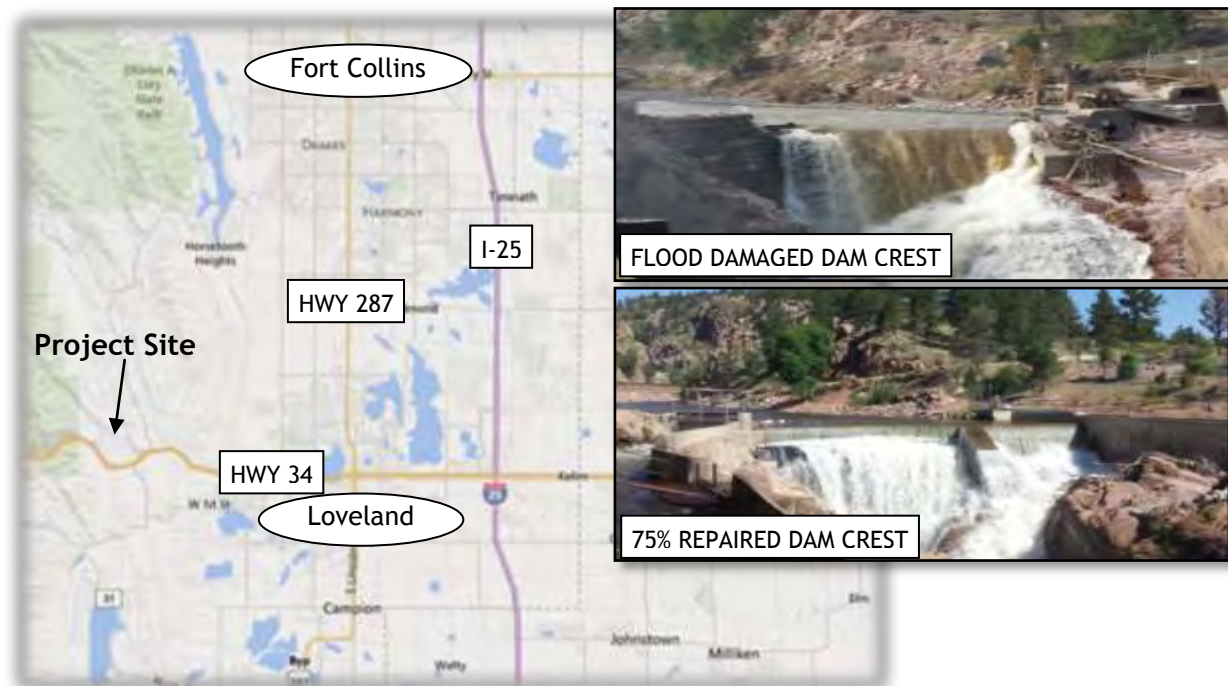
L O A N   D E T A I L S	
Project Cost:	\$2,775,000
CWCB Loan (with Service Fee):	\$1,840,000 (15% increase)
Loan Term and Interest Rate:	30 Years @ 1.95%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
76%	0% Low - 23% Mid - <1% High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



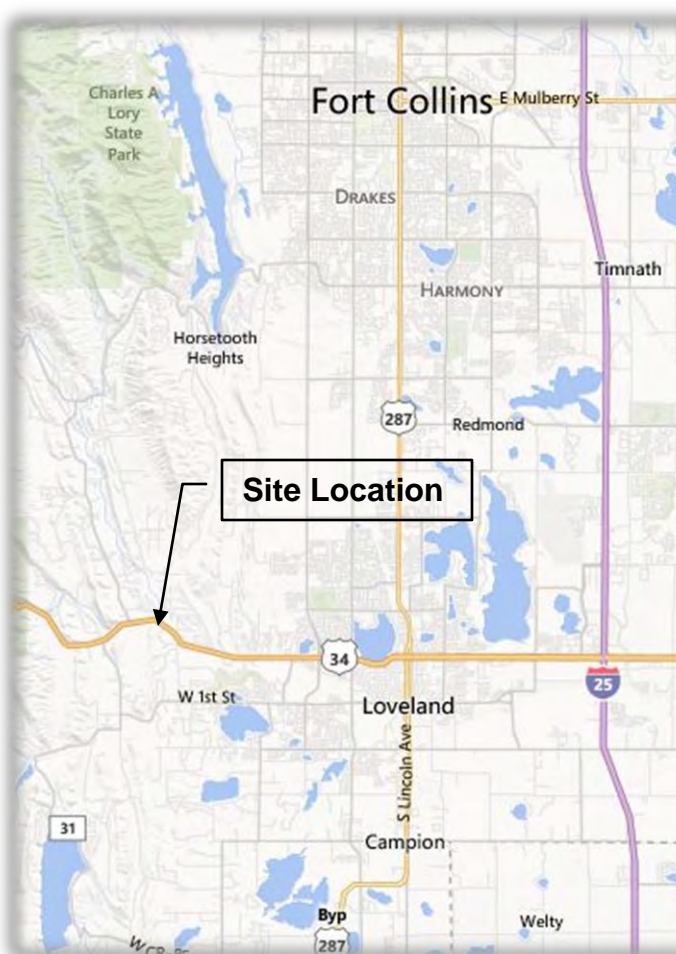


**CWCB Water Project Loan Program  
Project Data Sheet  
(Increase)**

**C150380**

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

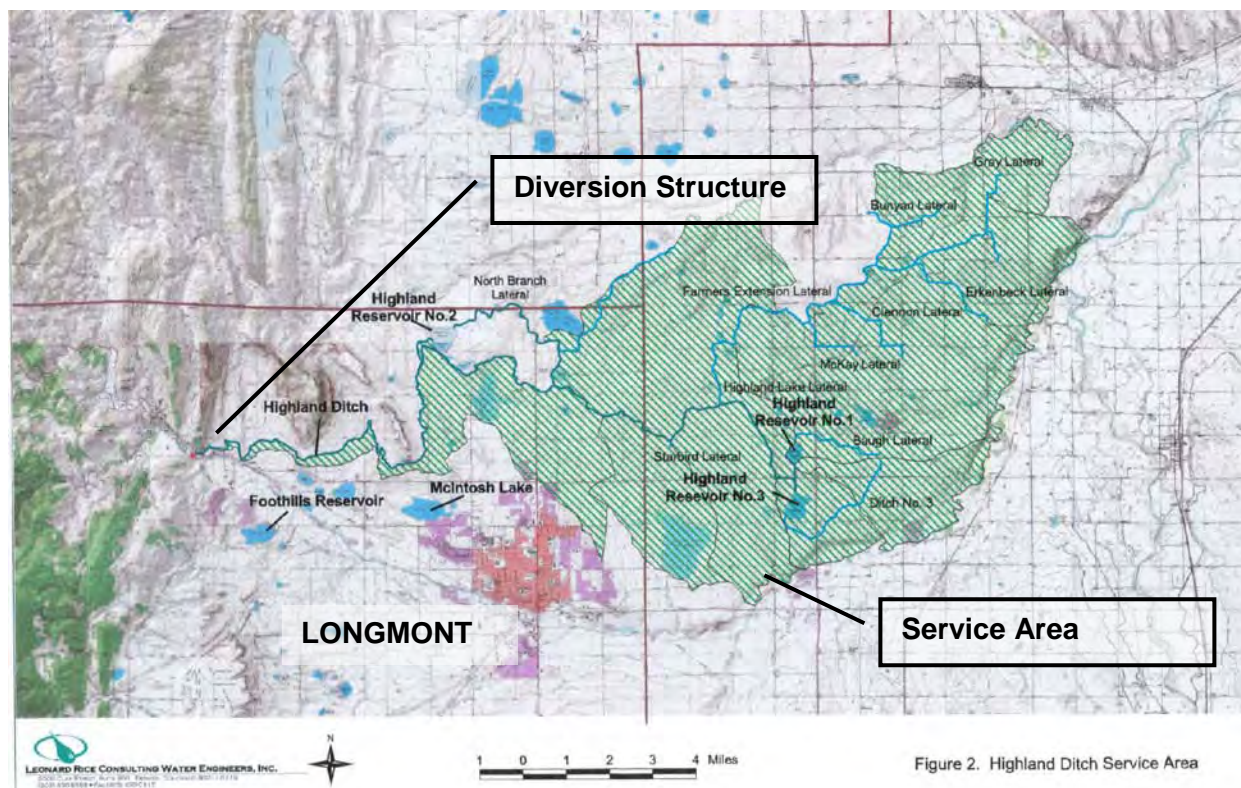
**Type of Borrower:** Blended

**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.





**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

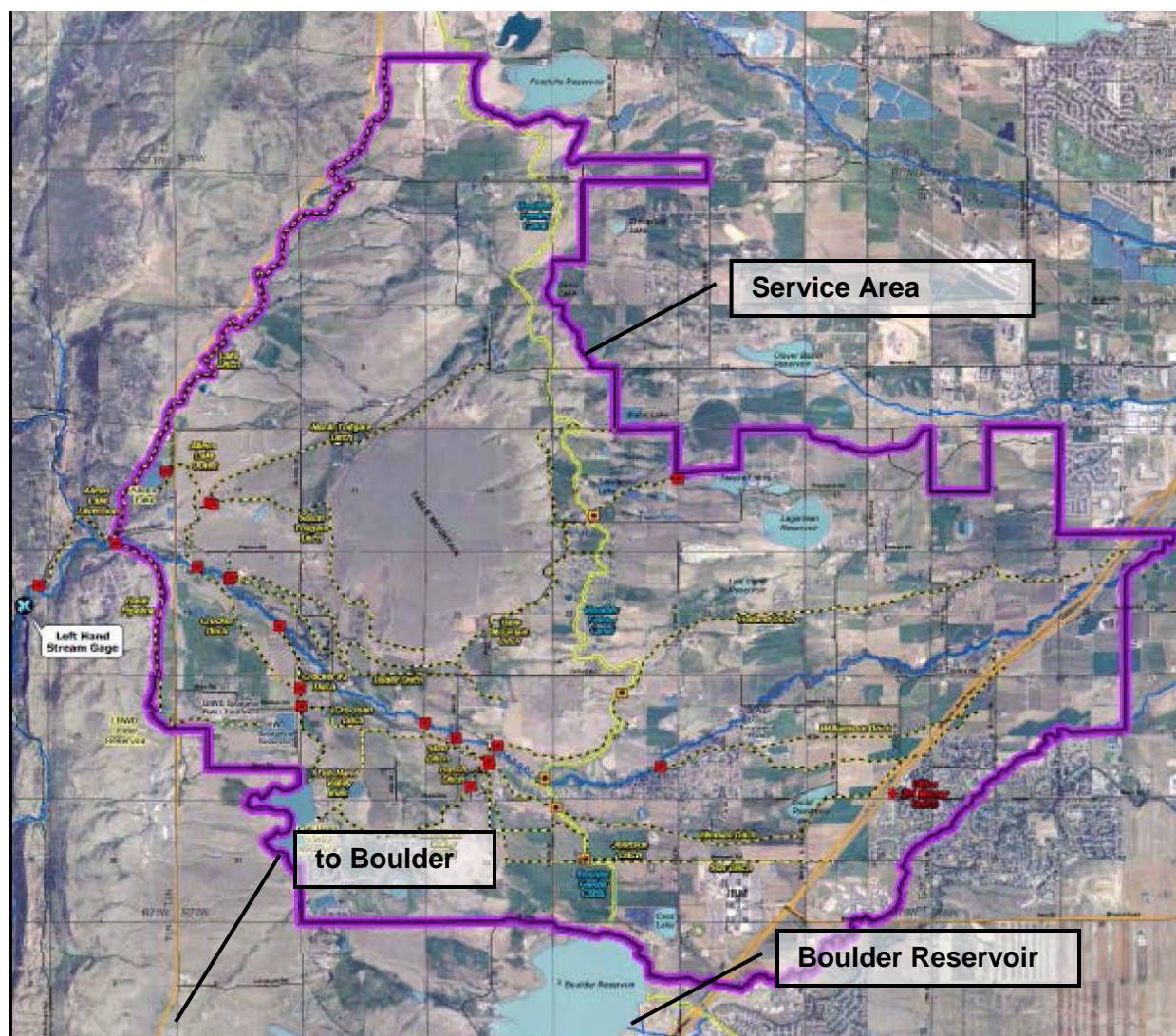
**Type of Borrower:** Blended

**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

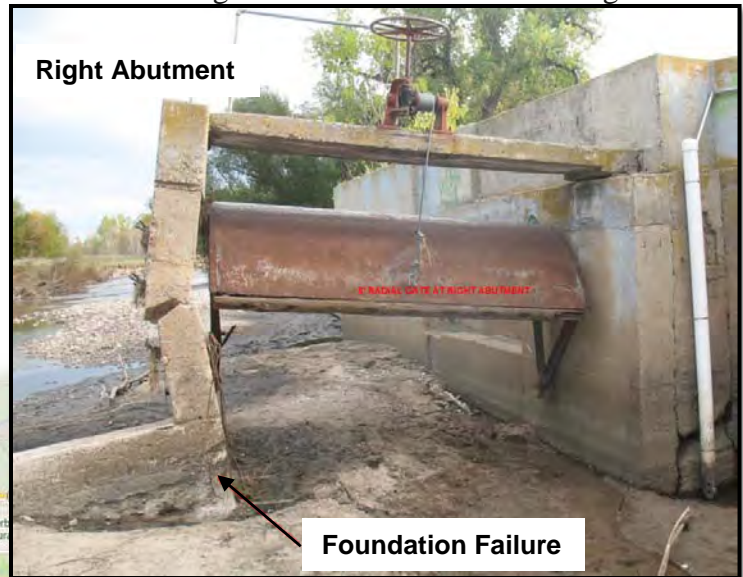
**Type of Borrower:** Blended

**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

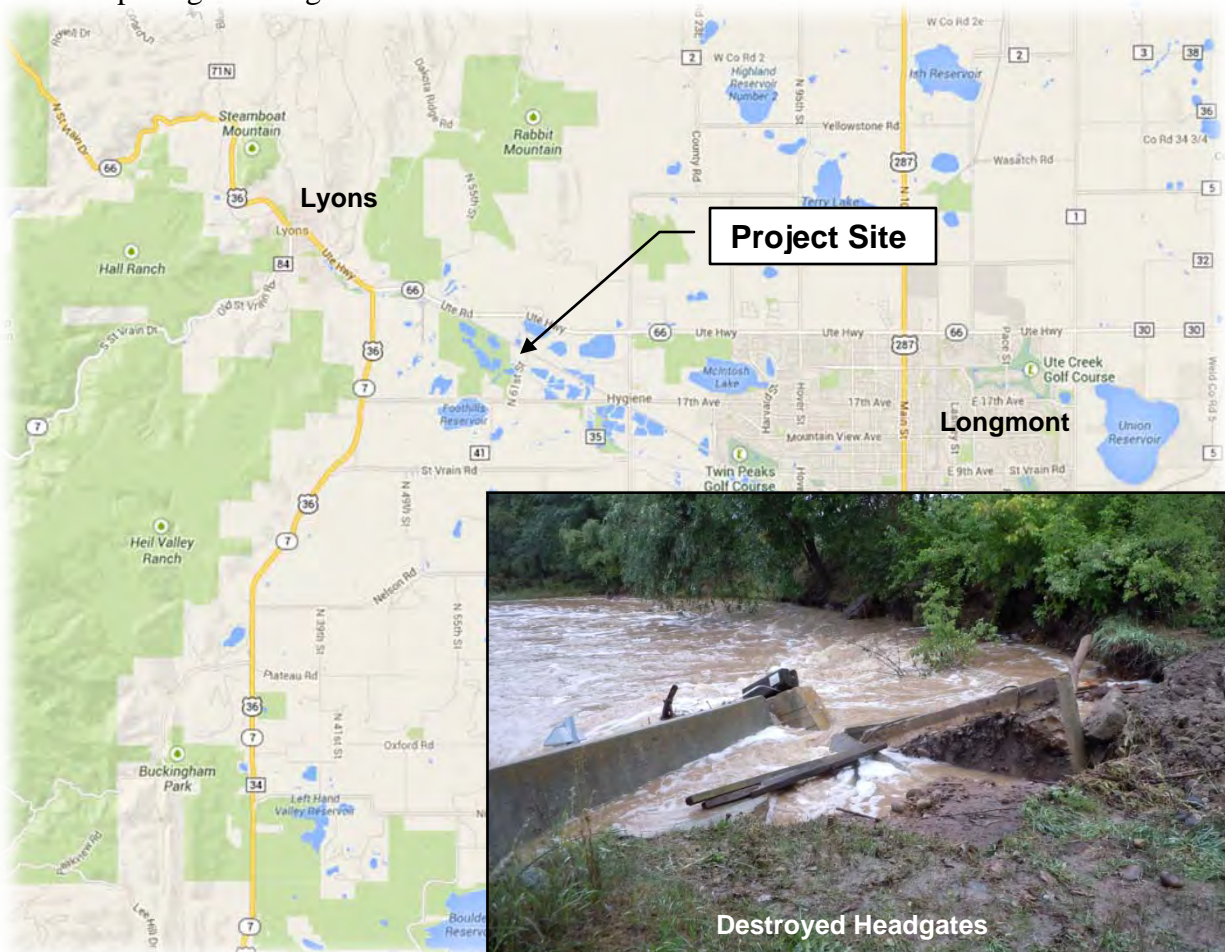
**Type of Borrower:** Blended

**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

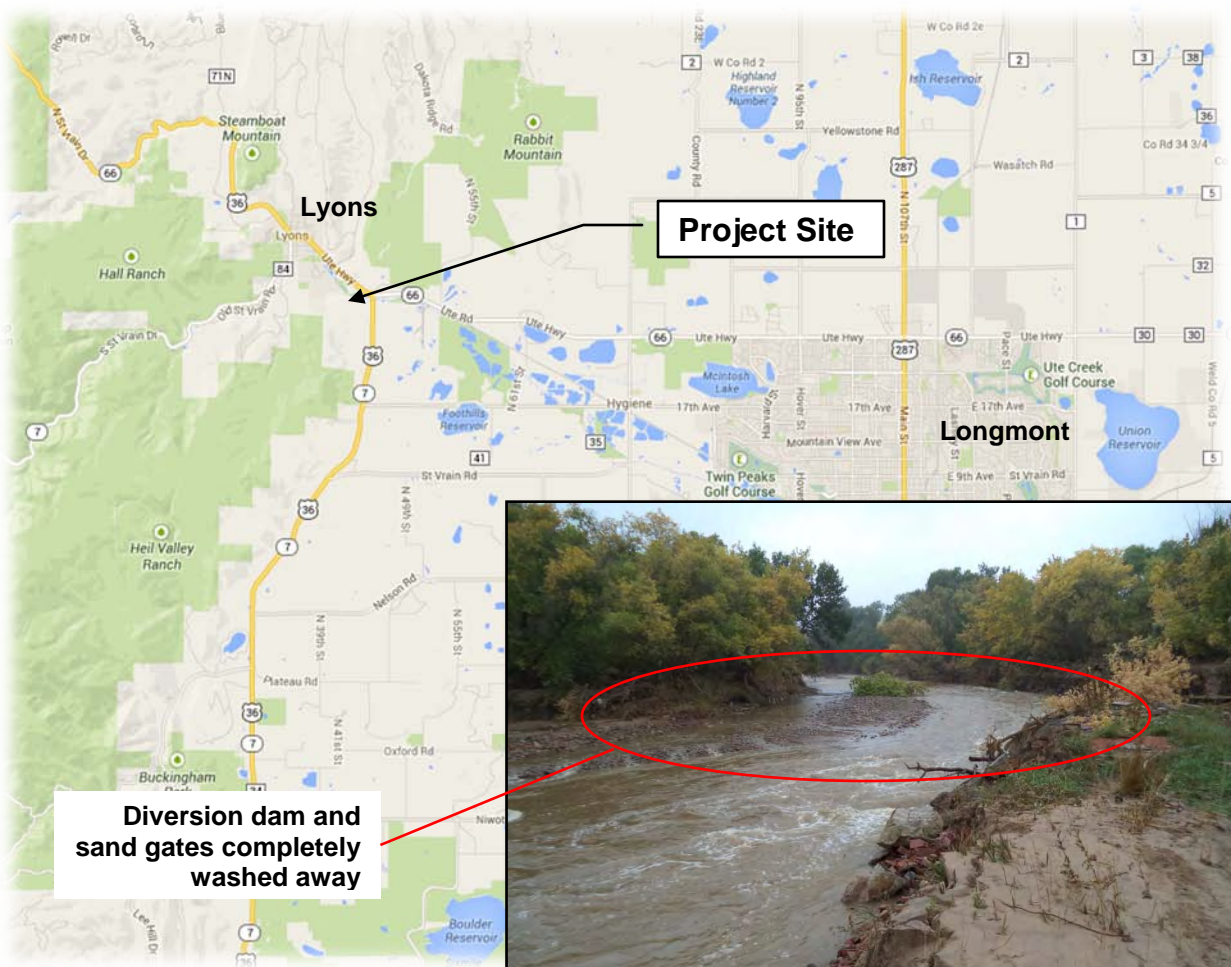
**Type of Borrower:** Blended

**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)

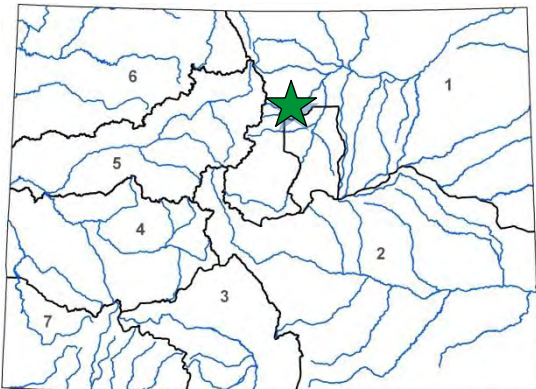
During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged including the Company's river diversion off the St. Vrain Creek. This structure also serves as the diversion dam for 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.







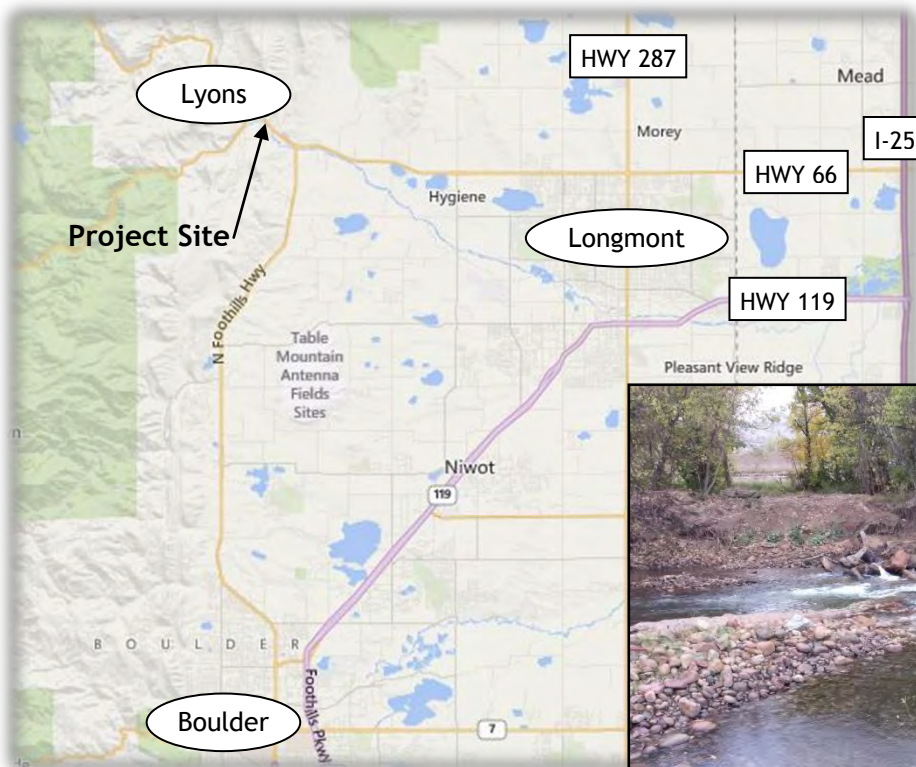
L O A N   D E T A I L S	
Project Cost:	\$321,000
CWCB Loan (with Service Fee):	\$324,210
Loan Term and Interest Rate:	27 Years @ 2.25%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
86%	0% Low - 5% Mid - 7% High      2%
P R O J E C T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

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

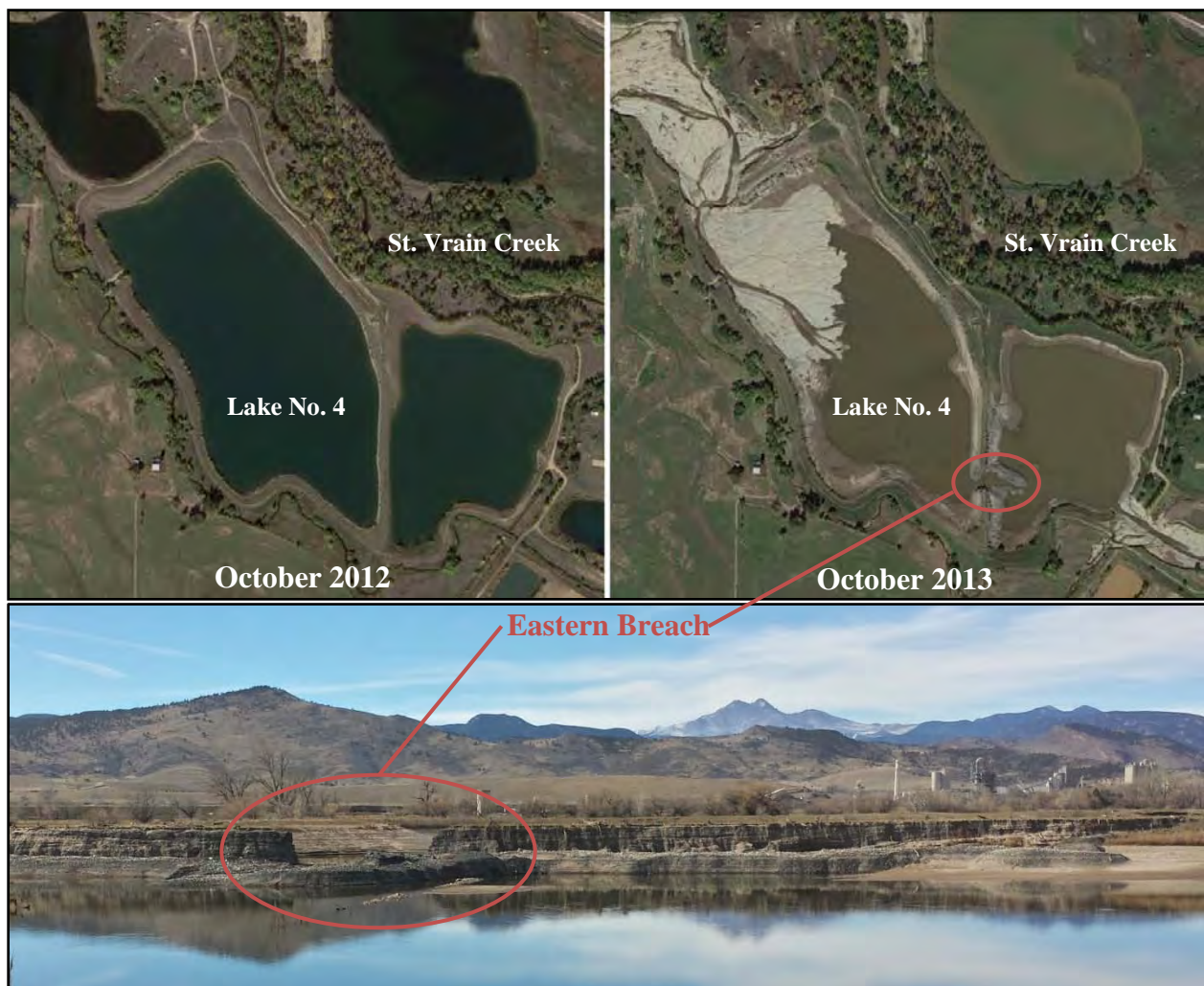
Type of Borrower: Blended

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.





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

**C150389**

**Borrower:** Haldi Ditch Company

**County:** Boulder

**Project Name:** Emergency Haldi Ditch 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 Haldi Ditch is located within the Left Hand Ditch Company's system and within the Left Hand Water District. The Haldi Ditch 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 Haldi 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  
NOVEMBER 2015**

**LOAN REPAYMENT DELINQUENCY**

Loan Repayments received relative to the Water Project Construction Loan Program have been reviewed for the period covering July 2015 through October 2015. 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 four months of Fiscal Year 2016 totaled 105. There were three loan payments not received on time during this period. The loan payments from the Grandview Irrigation Ditch Company and the Spring Dale Ditch Company are less than 30 days late but have not been received to date. The loan payment from Fuchs Ranches, Inc. is less than 60 days late but has not been received to date. Thus, the on-time performance for the total repayments due was 97% in compliance or 3% 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 \$11.5 M for this year. Funds disbursed relative to new project loans totaled \$8.7 M for this year. Net activity resulted in \$2.8 M received by the CWCB Construction Fund and the Severance Tax Perpetual Base Fund (STPBF) over the total disbursed.

Further breakdown is summarized as follows: The Construction Fund portion consists of \$3.7 M in receivables and \$4.4 M in disbursements for a total net activity of \$0.7 M disbursed over received. The STPBF consists of \$7.8 M in receivables and \$4.3 M in disbursements for a total net activity of \$3.5 M received over disbursed.

**COLORADO WATER CONSERVATION BOARD**

**FINANCIAL ACTIVITY REPORT FOR FISCAL YEAR 2016**

**CONSTRUCTION FUND**

<b>Period</b>	<b>Principal</b>	<b>Interest</b>	<b>Total Received</b>	<b>Disbursements</b>	<b>Net Activity</b>
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	\$ 95,422	\$ 49,140	\$ 144,561	\$ 1,582,193	\$ (1,437,632)
November 2015	\$ -	\$ -	\$ -	\$ -	\$ -
December 2015	\$ -	\$ -	\$ -	\$ -	\$ -
January 2016	\$ -	\$ -	\$ -	\$ -	\$ -
February 2016	\$ -	\$ -	\$ -	\$ -	\$ -
March 2016	\$ -	\$ -	\$ -	\$ -	\$ -
April 2016	\$ -	\$ -	\$ -	\$ -	\$ -
May 2016	\$ -	\$ -	\$ -	\$ -	\$ -
June 2016	\$ -	\$ -	\$ -	\$ -	\$ -
<b>FY 2016 Totals</b>	<b>\$ 1,844,987</b>	<b>\$ 1,854,579</b>	<b>\$ 3,699,566</b>	<b>\$ 4,463,136</b>	<b>\$ (763,570)</b>

**SEVERANCE TAX PERPETUAL BASE FUND**

<b>Period</b>	<b>Principal</b>	<b>Interest</b>	<b>Total Received</b>	<b>Disbursements</b>	<b>Net Activity</b>
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	\$ 678,863	\$ 354,263
November 2015	\$ -	\$ -	\$ -	\$ -	\$ -
December 2015	\$ -	\$ -	\$ -	\$ -	\$ -
January 2016	\$ -	\$ -	\$ -	\$ -	\$ -
February 2016	\$ -	\$ -	\$ -	\$ -	\$ -
March 2016	\$ -	\$ -	\$ -	\$ -	\$ -
April 2016	\$ -	\$ -	\$ -	\$ -	\$ -
May 2016	\$ -	\$ -	\$ -	\$ -	\$ -
June 2016	\$ -	\$ -	\$ -	\$ -	\$ -
<b>FY 2016 Totals</b>	<b>\$ 5,470,809</b>	<b>\$ 2,377,532</b>	<b>\$ 7,848,342</b>	<b>\$ 4,313,558</b>	<b>\$ 3,534,784</b>
<b>GRAND TOTALS</b>	<b>\$ 7,315,796</b>	<b>\$ 4,232,111</b>	<b>\$ 11,547,907</b>	<b>\$ 8,776,693</b>	<b>\$ 2,771,214</b>