



COLORADO WATER CONSERVATION BOARD

DIRECTOR'S REPORT

SEPTEMBER 2012

STATE OF COLORADO

Colorado Water Conservation Board

Department of Natural Resources

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TO: Colorado Water Conservation Board

FROM: Jennifer Gimbel
Brent Newman
CWCB Staff

DATE: September 27-28, 2012

SUBJECT: **Agenda Item 5d**, September 2012 CWCB Board Meeting
Director's Report

John W. Hickenlooper
Governor

Mike King
DNR Executive Director

Jennifer L. Gimbel
CWCB Director

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~INTERSTATE AND FEDERAL~

U.S.-MEXICO BI-NATIONAL NEGOTIATIONS CONTINUE: The principals for the Colorado River Basin States continue to work with U.S. and Mexican federal officials and other stakeholders to see if there may be opportunities to improve water management in a way that could benefit both countries. We will update the Board at the upcoming Board meeting in Executive Session. (*Ted Kowalski*)

~STATEWIDE~

EFFECTS OF COLORADO WILDFIRES ONGOING: According to the National Climatic Data Center, in its “State of the Climate” report, Colorado (along with Wyoming) experienced its hottest summer on record. It also experienced perhaps its worst fire summer on record as well. The High Park Fire in Larimer County and the Waldo Canyon Fire in El Paso County, combined with numerous smaller fires to make this the most destructive fire season ever in terms of infrastructure destroyed.

The High Park Fire destroyed 259 homes, killed one person, and burned over 87,000 acres. This fire was unique in that the majority of its burn scar was located on private property. The fire ignited on June 9, 2012, and was not declared 100% contained for three weeks until June 30, 2012.

The Waldo Canyon fire destroyed 346 homes, killed two people, and burned over 18,000 acres. This fire followed traditional fire patterns of scorching primarily federal lands. This fire ignited on June 23, 2012 and was not 100% contained until July 10, 2012.

During the open incident period, a Public Assistance (PA) federal disaster was declared to address a portion of the costs associated with emergency protective measures needed to battle the fire. This is not typical for the federal aid progression, as most federal disasters receive declarations after the fire has been contained and unmet recovery costs have been tallied. Once the fires were put out, a Preliminary Damage Assessment (PDA) was completed for both fires. Following the PDA, the Governor requested an expanded PA declaration on July 31, 2012, to include public infrastructure damage that was quantified after the fires were contained. In addition, an Individual Assistance (IA) request was submitted to assist affected homeowners with uninsured losses. As of the date of this report, the IA request was denied, and a response has not been provided to the request for an expanded PA declaration.

Federal, state, and local actions have been performed to recover from both fires. CWCB staff from the Watershed and Flood Protection Section is working with local governments to model flooding characteristics of the burned watersheds. Post-wildfire burn scars are noted to have sharply rising runoff characteristics due to the burned soil, which infiltrates less water due to removal of vegetation and hydrophobic tendencies.

In addition, local governments and water providers have been wrestling with the issue of watershed restoration. Post-wildfire watershed treatments (mulching, seeding as appropriate, hydraulic check structures, etc.) are traditionally handled by the US Forest Service for affected federal lands and the Natural Resources Conservation Service (NRCS) for affected private lands. It has been determined that there is a staggering level of unmet needs for restoration of private lands by the NRCS, partly due to the high level of private lands burned, and partly due to the

federal budget crisis compounded by the elevated fire season throughout the West. Unmet needs for restoration of private lands is currently calculated as exceeding \$10 million.

Local governments have discussed the situation with many state agencies, including the Department of Natural Resources. Primary concerns expressed have included flood warning for public safety and infrastructure protection/management as well as funding for watershed treatments. Members from DNR and CWCB have conducted extensive meetings with jurisdictions affected by both fires and assisting them with developing a path forward.

The Governor's Office issued an Executive Order allocating \$200,000 for the purposes of grants flood warning systems to jurisdictions affected by both fires. These grants will be administered by the Colorado Division of Emergency Management, with direct involvement by staff of the CWCB and Colorado Geological Survey. These grants will be awarded in late September.

In addition, the Colorado Water and Power Development Authority authorized a transfer of \$300,000 into the Watershed Restoration Program to assist local governments with the watershed treatments. Specifics of this money transfer were still being worked out as of the time of this report. In addition to these funds, a total of \$50,000 from the Flood and Drought Response Fund and \$50,000 from the Watershed Restoration program were made available to augment these grants.

CWCB staff has been issued guidance to offer 0% loans for the purpose of recovery from these two wildfires. Some interest has been expressed for these funds, and a discussion of this will take place at the Finance Committee Workshop at the September board meetings. (*Kevin Houck*)

FLOODPLAIN MAP MODERNIZATION/RISK MAP UPDATE:

FY12 Activities: Scopes of Work have been drafted and will be submitted to FEMA for projects in the Cache La Poudre and Purgatoire watersheds. Conversion projects (from Map mod to Risk Map) will include Chaffee, Pitkin, and Logan Counties.

FY11 Activities: Risk Map projects for the St. Vrain and Clear Creek Watersheds is underway. Lidar data is being acquired by FEMA and field surveys are being conducted this summer.

FY10 Activities: Work is underway for Chaffee, Logan and Pitkin Counties. Preliminary mapping for Pitkin County is almost completed. The final meeting will be in conjunction with FEMA's resiliency meeting, as part of the Risk Map effort. Hydraulic tasks and floodplain mapping tasks are continuing for Logan County. The LIDAR data for Chaffee County has been provided by the USGS. Hydraulic and floodplain mapping tasks have now resumed for Chaffee County.

FY09 Activities: The South Platte approximate floodplain delineation has been completed and approved by FEMA for Morgan County. The Morgan County DFIRM schedule has been delayed due to the levee in the Town of Wiggins. The Town is currently in the process of certifying the levee. FEMA has completed a second review of the levee certification package submitted by the Town of Wiggins. The Beaver Creek study through the Town of Brush has been submitted and reviewed by FEMA.

The Prowers County DFIRM floodplain mapping tasks have been completed. Preliminary floodplain mapping is complete but not yet approved. There are three levees to analyze in the county and will be affected by the recent FEMA memo on de-accredited levees. The Town of Lamar and Grenada are in the process of assessing their levees. This project is currently on hold and a new scope of work is in progress to complete this project as a Partial Countywide DFIRM.

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 are now in the post preliminary phase and in the 90 day appeal period.

The Pueblo County DFIRM has been put on hold due to the recent FEMA memo on de-accredited levees. The Fountain Creek hydrology has been approved and most of the hydraulic analyses and floodplain mapping has been completed in the County. The project is on hold and a new scope of work is in progress to complete this project as a Partial Countywide DFIRM.

The Pueblo County Arkansas River Levee floodplain study is in progress, finalization is still progressing. This project was delayed due to the Fountain Creek hydrology and a new scope of work is in progress to complete this project as a Partial Countywide DFIRM.

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 is currently on hold and a new scope of work is in progress to complete this project as a Partial Countywide DFIRM.

FY 06 Activities: Weld County detailed study work continues to progress. The Town of Evans will not be certifying their levee and has submitted a formal letter to allow the DFIRM process to move forward. The Draft Preliminary maps are scheduled to be submitted to FEMA for review in early July 2012. 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 and recently ended the 90 day appeal period. The Montezuma County DFIRM went effective September 28th 2008.

FY 04/03 Activities: All of the Boulder County levees have been identified. The South Boulder Creek Study has been completed and approved. Incorporation of this study into the DFIRM is now complete. FEMA has provided Provisionally Accredited Levees (PAL) agreements for two levees in the County. The Boulder County preliminary maps were sent in March 2010. Public meetings took place in Longmont, Louisville, Lafayette, and in Boulder County. The Letter of Final Determination was sent to the communities on June 25, 2012 and effective maps should be issued in December 2012. (*Thuy Patton*)

GROUND WATER COMMISSION MEETING: The Ground Water Commission (GWC) held its quarterly meeting on August 17, 2012, in Burlington, CO. The agenda items included routine reports and a presentation on the Goss Case by Patrick Kowaleski of the Attorney

General's office. The GWC also discussed proposed legislation that would grant Ground Water Management District's (GWMDs) enforcement authority and the ability to impose fines and discussed that potential that over pumping may be occurring in the basins due to drought conditions. On September 5, 2012, the GWC held a hearing in Denver, CO regarding an Appeal of the Hearing Officer's Decision on the Gallegos case. The GWC voted to uphold the Hearing Officer's Decision not to de-designate the Upper Crow Creek Designated Ground Water Basin. The proposed legislation indicated above was also discussed during the September 5th meeting. The Ground Water Commission will hold its next regular meeting on November 16, 2012 in Castle Rock, CO. For more information visit:

<http://water.state.co.us/groundwater/CGWC/Pages/default.aspx>. (Suzanne Sellers)

~COLORADO RIVER BASIN~

COLORADO RIVER WATER AVAILABILITY STUDY (CRWAS): Since the CWCB's Projects Bill was approved and signed by the governor, the CRWAS team has initiated meetings with several IBCC members to get an understanding of what they believe CRWAS Phase 2 should focus on. The Water Supply Planning and Interstate & Federal Sections have also met to insure internal coordination process is established between CRWAS and IBCC efforts. An update will be given to the CWCB Board as the November Board meeting. (Ray Alvarado)

ADAPTIVE MANAGEMENT WORK GROUP (AMWG) AND TECHNICAL WORK GROUP (TWG) MEETINGS: The Glen Canyon AMWG meeting was held on August 29-30, 2012, in Flagstaff, AZ. The AMWG recommended a 2013-14 budget and work plan to Secretary Salazar. In addition, the AMWG received a number of reports about current resource conditions, and the Long Term Experiment and Management Plan (LTEMP). The Basin States presented its alternative to the LTEMP to the AMWG, and there are additional meetings planned for this Fall in order to develop common understandings about the LTEMP alternatives. At the AMWG meeting, the Department of Interior suggested that resources conditions may be appropriate for a High Flow Experimental (HFE) release this fall, under the recently adopted HFE protocol. The TWG is set to meet on October, 24-25, in Phoenix, Arizona. More information is available at: http://www.usbr.gov/uc/rm/amp/amwg/amwg_mtginfo.html or <http://ltempeis.anl.gov/index.cfm> (Ted Kowalski)

RELEASE OF THE COLORADO RIVER BASIN STUDY DELAYED UNTIL NOVEMBER, 2012: The Basin States and the Bureau of Reclamation ("BOR") continue to make great progress on the Colorado River Basin Study; however, we have delayed the release date of the report from September until November of this year. For more information visit: <http://www.usbr.gov/lc/region/programs/crbstudy.html> (Ted Kowalski)

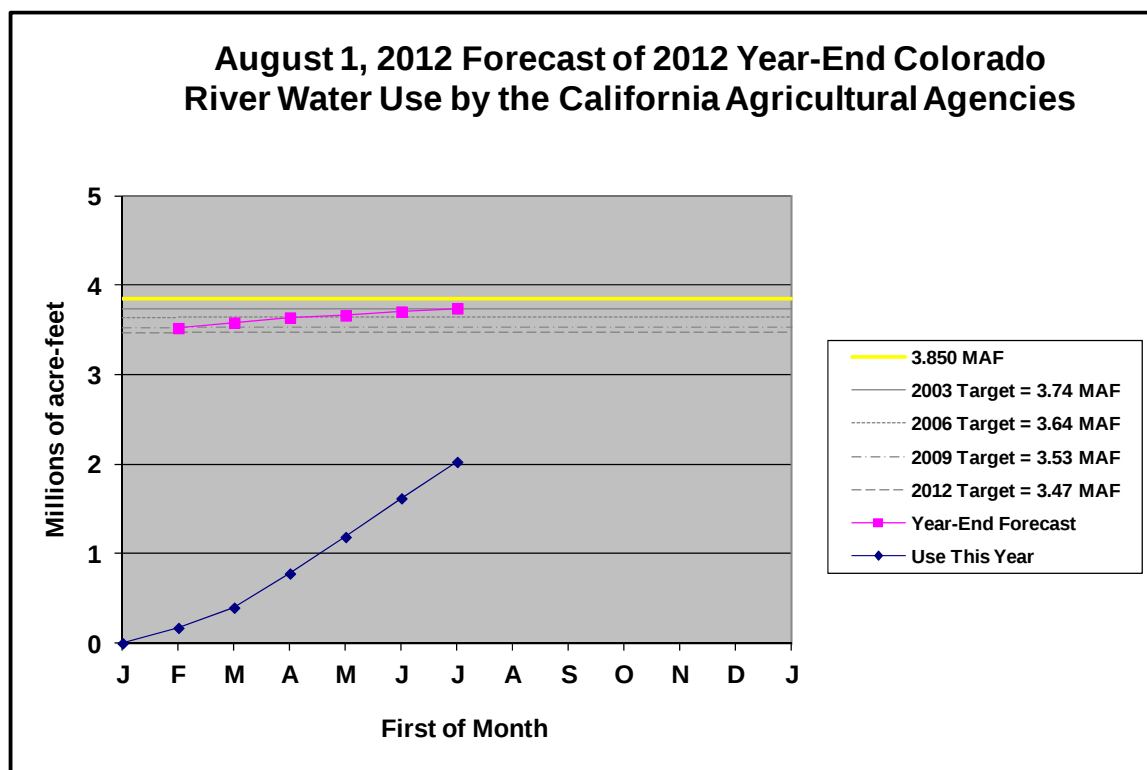
CLE INTERNATIONAL HOLDS FIRST COLORADO RIVER CONFERENCE IN COLORADO: The CLE International held on September 14, 2012 a conference on the Law of the River in Denver, Colorado. This organization has held similar conferences in Las Vegas, Nevada, but this was the first time they have offered a similar conference within Colorado. Anne Castle, Peter Nichols, Eric Kuhn, and Ted Kowalski were all presenters and it was a great conference. (Ted Kowalski)

COLORADO RIVER WATER USE: As of August 1, 2012, storage in the major Upper Basin reservoirs decreased by 738,120 acre-feet and storage in the Lower Basin reservoirs increased by

22,700 acre-feet during July 2012. Total system active storage as of August 5 was 35.273 million acre-feet (MAF), or 59 percent of capacity, which is 4.032 MAF less than one year ago. (Upper Basin reservoirs decreased by 5.080 MAF, and Lower Basin reservoirs increased by 1.047 MAF.)

As of August 5, the 2012 forecast for the Lower Basin states' consumptive use of Colorado River water totals 7.497 MAF, which includes Arizona at 2.813 MAF, California at 4.414 MAF, and Nevada at 0.270 MAF.

The preliminary year-end estimate for 2011 California agricultural consumptive use of Colorado River water under the first three priorities and the sixth priority of the 1931 *California Seven Party Agreement* is 3.742 MAF. The target under the Interim Surplus Guidelines (ISG) for 2012 is 3.470 MAF. (Andy Moore)



UPPER COLORADO RIVER WILD AND SCENIC STAKEHOLDER GROUP: On September 16, 2011, the Bureau of Land Management (BLM) issued its Colorado River Valley draft Resource Management Plan (RMP)/Environmental Impact Statement (EIS) and the Kremmling draft RMP/EIS. The preferred alternative for each document is Alternative B. Alternative B is further divided into two options; B1 and B2. Between the two documents, Alternative B1 would find four Colorado River segments suitable while Alternative B2 would defer Wild and Scenic River suitability determination, and adopt and implement the Stakeholder Group's proposed Management Plan. Under either Alternative B1 or B2, two segments of Deep Creek would be found suitable. For more information or electronic copies of these documents, see the following links:

http://www.blm.gov/co/st/en/BLM_Programs/land_use_planning/rmp/kfo-gsfo/crv.html

and http://www.blm.gov/co/st/en/BLM_Programs/land_use_planning/rmp/kfo-gsfo/kremmling.html. The Kremmling Record of Decision (ROD) is anticipated to be out late November 2012 and the Colorado River Valley ROD is anticipated to be out during the last quarter of 2013. The BLM's Wild and Scenic Report, addressing both Kremmling and Colorado River Valley segments, is also expected out in late November 2012.

The Stakeholder Group is working on monitoring efforts in the subject reaches; including gathering data collected by others (i.e. Colorado Parks and Wildlife fish biomass surveys) as well as collecting their own data (i.e. creel surveys and recreation surveys). The Stakeholder Group performed a recreational survey of rafters as a "test case" during August and early September of this year. (*Suzanne Sellers*)

COLORADO RIVER BASIN SALINITY CONTROL FORUM WORK GROUP: The CRBSCF Work Group met September 5-7, 2012 at the headquarters of West Basin Municipal Water District in El Segundo, CA. The Work Group prepared for the upcoming Forum and Advisory Council meetings. Discussion topics included funding for projects through NRCS and the Bureau of Reclamation's Basinwide Program. The group also reviewed current and future studies regarding salinity control in the Colorado Basin, as well as the future of the Paradox Valley Unit. West Basin Municipal also took the Work Group on a tour of their facility, including a pilot ocean water desalination project. The next meeting of the Work Group will take place in conjunction with the meetings of the Forum and the Advisory Council, November 7-9, 2012 in Phoenix, AZ. (*Brent Newman*)

~PLATTE RIVER BASIN~

SOUTH PLATTE DECISION SUPPORT SYSTEM (SPDSS): A lot of activity is still occurring within the South Platte since the last CWCB Board meeting in July. DWR is continuing to monitor observation wells in the Sterling area and has a website where updated information can be obtained on the monitoring efforts.

DWR is also looking into the high groundwater issue around the Gilcrest/LaSalle area. This will include data collection, collection of exiting water levels, working with the Colorado Geological Survey and the U.S Geological Survey. There will be extensive coordination with the Colorado Water Resource Institute (CWRI) to insure avoidance of duplication of efforts and to maximize resources. The monitoring and data collection efforts in these two areas is part of the work associated with CWCB's Projects Bill SB12-002.

The CWCB, as part of the Projects Bill authorization, will also be contracting out the data extension of the alluvial groundwater model to include the years 2006-2011. The scope has been drafted and the request for proposal will be advertised for vendors to review and submit by early or mid-October. It is hoped that a vendor will be selected and working by late November. Also under the Severance Tax grant program, a \$50,000 contract has been issued to Colorado State University (CSU) to review the South Platte Decision Support System (SPDSS) alluvial groundwater model. CSU will conduct an independent evaluation of the model capabilities, strengths and weaknesses. This will be the first of a three year effort.

Finally, regarding HB 12-1278; the bill gives the CWRI authorization to conduct an independent comprehensive study that will compile and evaluate available hydrologic data through water year 2011 within the South Platte basin. It has a total funding of \$900,000 from the CWCB

Construction Fund. A contract has been issued to the CWRI, with Reagan Waskom being the project lead. (*Ray Alvarado*)

PLATTE RIVER RECOVERY PROGRAM - The Platte River Recovery Implementation Program ("Program") Governance Committee met on September 11-12, 2012 in Kearney, NE. Agenda items included presentations and discussions on the 2012 budget status, the groundwater recharge pilot project, contemplated water leasing agreement with Central Platte Natural Resource District, the 12-month finding indicating that the Platte River Caddisfly was not listed, a discussion Anne Castle as the DOI Assistant Secretary for Water & Science, routine reports and updates. The primary decision items included appointing two new members to rotate on to the Independent Scientific Advisory Committee (ISAC) and approval of various land acquisition transactions. Suzanne Sellers participated in J-2 Reregulating Reservoir negotiations and Water Advisory Committee, Technical Advisory Committee, Land Advisory Committee and Finance Committee conference calls and meetings. The next Governance Committee meeting will be held on December 4-5, 2012 in Denver, CO. For more information, please visit: <http://www.platteriverprogram.org/Pages/default.aspx>. (*Suzanne Sellers*)

~SAN JUAN/SAN MIGUEL-DOLORES RIVER BASIN~

RIVER PROTECTION WORKGROUP: The River Protection Workgroup (RPW) Steering Committee held regular meetings on July 24 and August 29, 2012 and its next meeting is scheduled for October 9, 2012. Regular agenda items included workgroup updates and a budget update. The Steering Committee is beginning to plan the "Regional Discussion" which will take place after all five public workgroups have completed the dialogue for: Hermosa Creek; San Juan River - East and West Forks; Upper Animas River; Vallecito Creek/Pine River; and the Piedra River.

The proposed wilderness/unroaded area/Special Management Area (SMA) legislation that was a product of the Hermosa Creek RPW was introduced to Congress by Senator Bennet in July. The latest draft bill reflects a balance between conservation, economic development and other uses.

The RPW for the Animas River held a regular meeting on July 26, 2012 in Silverton, CO. At the meeting, the workgroup discussed the following: black swift and fens; issues, concerns and protection options for Cement Creek; values and protections for the Upper Animas section; pros and cons of National Conservation Areas and Wilderness zones; mining interests and a desire to not be over-regulated; and the value of various protection tools. The group also reached consensus on protecting private property rights and requested a presenter on minerals and energy. The next meeting is scheduled for September 13, 2012 in Silverton, CO.

The RPW for the Piedra River held meetings on July 17, 2012 and August 21, 2012 in Pagosa Springs, CO and its next meeting is scheduled for September 18, 2012 at the same location. During these meetings, the work group continued to develop their segment by segment analysis and has begun to identify whether the previously identified values are adequately protected. The group also discussed instream flows (ISFs), boating and historic hydrographs that were provided to the group by CWCB staff. For more information, see the following link: <http://ocs.fortlewis.edu/riverprotection>. (*Suzanne Sellers*)

~AGENCY UPDATES~

CWCB WATER EFFICIENCY GRANT FUND PROGRAM (WEGP) UPDATE: Over the last few years of research/projects along with evaluating this grant program, CWCB staff is identifying trends in water efficiency & drought planning and implementation. It is an on-going discussion as staff considers a guideline update for this grant program.

Two grant applications were received, considered & reviewed since the July 2012 Director's Report

- **Little Thompson Water District** – Water Rate Study
- **Town of Windsor** – Residential Water Audit Kit Giveaway

Six grants have been approved since the last Board meeting:

- **City of Englewood** – Water Efficiency Plan (\$46,316)
- **Little Thompson Water District** – Water Rate Study (\$24,150)
- **St Charles Mesa Water District** – Meter Replacement Program (\$49,919.66)
- **Mount Werner Water & Sanitation District** – Web Based Leak Detection Program (\$33,435)
- **Recharge Colorado** – Water/Energy Nexus Workshops (\$34,925)
- **Town of Windsor** – Residential Water Audit Kit Giveaway (\$14,058)

Deliverables to the CWCB are as follows:

- **Pagosa Area Water & Sanitation District** – Drought Management Plan – *submitted 50% Progress Report*
- **City of Dacono** – Water Efficiency Plan – *submitted 50% & 75% Progress Reports*
- **City of Westminster** – Water Conservation Plan – *submitted Draft Final Plan*
- **Grand Valley Regional Plan** – Water Conservation Plan – *submitted Final Plan (Ben Wade)*

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

Approved Plans

- **Grand Valley Regional Plan (City of Grand Junction, Ute Water Conservancy District and Clifton Water District)**
- **Donala Water and Sanitation District**
- **City of Arvada**
- **Pueblo West Metro**

The following plans have been given *conditional approval*. CWCB staff will continue to work with these entities until their respective Water Efficiency Plans achieve approval status.

- **City of Trinidad**
- **City of Westminster**

- **Meridian Metropolitan District**

Plans in review

- **City of Louisville** – Resubmission of a preliminary November 2009 version of their Water Efficiency Plan is pending. The City may seek outside help to complete the plan.
- **Town of La Junta** – Final review of the Plan was completed by CWCB staff in April 2011 and additional comments were sent back to the Town in May 2011. Resubmission pending.
- **South Adams County Water & Sanitation District** – CWCB received the Plan on November 3, 2011. CWCB staff reviewed the plan and sent comments to the District on January 30. Resubmission pending.
- **Town of Eaton** – CWCB received a locally adopted plan from the Town of Eaton on January 24. Town of Eaton is revising plan after meeting with Kevin Reidy in August.
- **Town of Estes Park** – CWCB received the plan on April 25. Kevin Reidy met with Town of Estes Park consultants in August and is waiting on revisions.

(Kevin Reidy & Ben Wade)

WATER EFFICIENCY PLANNING OUTREACH: Since the last board meeting, Kevin Reidy presented to the Western San Miguel Community Energy Board on creating a regional water efficiency plan for the communities of Telluride, Mountain Village, Norwood, Ophir, Ridgway and Ouray. The presentation was very productive. Additionally, he met with Maya Silver, Executive Director of the Office of Resource Efficiency in Gunnison, to get an update on the Upper Gunnison Regional Water Efficiency plan. A planning grant application is forthcoming to complete the plan. Finally, Kevin is meeting with representatives of CORE Aspen and other local water providers in the Roaring Fork Valley on 9/12 to discuss a regional efficiency plan for that area of the state. *(Kevin Reidy)*

GOVERNOR’S WATER AVAILABILITY TASK FORCE: The next Water Availability Task Force on September 26, 2012 from 9:30-11:30am 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)*

2012 CWCB STATEWIDE DROUGHT CONFERENCE: *Building a Drought Resilient Economy through Innovations in Preparedness & Planning* **UPDATE:** This conference, to be held September 19 & 20th, promises to highlight the cutting edge efforts on drought preparedness in Colorado, including a look at the 2012 drought. As of the writing of this report there are 174 registered participants. *(Taryn Hutchins-Cabibi)*

DROUGHT TOUR(s): The Drought Task Force, Comprised of senior leadership from DOLA, DNR and Dept. of Agriculture completed a tour of drought impacted areas on Colorado’s western slope in the Yampa/ White River basin on July 24th and highlighted both impacts and innovations to overcome them in the Agricultural, Environmental, Tourism/ Recreation and Municipal sectors. CWCB staff is now working with John Stulp, the Governor’s office and CSU extension to coordinate additional drought tours throughout late September on the eastern plains and early October in Weld County. *(Taryn Hutchins-Cabibi)*

DROUGHT PREPAREDNESS TOURNAMENT: To be held the day prior to the 2012 CWCB Statewide Drought Conference, this exercise is meant to bring together a diverse group of multi-sector representatives and is an innovative new approach towards drought mitigation, preparedness and response. Tournaments participants will be educated on the multidisciplinary and multi-sector implications of drought through an engaging and competitive environment while also introducing the “gaming forum” as a tool to engage stakeholders, develop relationships and collect information for future planning purposes. *(Taryn Hutchins-Cabibi)*

WATER EFFICIENCY SAMPLE PLAN UPDATE: CWCB staff has finished their work with Aquacraft, Inc. to develop a Water Efficiency Sample Plan for covered entities that meets all statutory requirements. The sample plan incorporated the revisions to the new Water Efficiency Plan Guidance Document and is an example for entities to follow in order to create a more consistent planning approach. The final draft is complete and is posted on the CWCB website. *(Kevin Reidy)*

WATER CONSERVATION TECHNICAL ADVISORY GROUP UPDATE: The WCTAG is on a temporary hiatus but there are plans for the group to reconvene in late October. *(Kevin Reidy)*

STREAM AND LAKE PROTECTION SECTION DE MINIMIS CASES: The following table summarizes the applications that have the potential to injure the Board’s instream flow water rights, but their impacts are considered de minimis. In each of these cases, the cumulative impact to the Board's rights is 1% or less. Pursuant to ISF Rule 8(e) (the de minimis rule), staff has not filed Statements of Opposition in these cases and has provided the required notification to the Division Engineer and applicants. *(Don West)*

Case No.	Applicant	Stream/ Case Number	ISF Amount	<u>Percent Injury</u>	<u>Cumulative % Injury</u>	<u>Previous Cases</u>
4-12CW057	Electric Mountain Lodge	Hubbard Creek/ 4-84CW412	3 cfs (summer) 3 cfs (winter)	0.02129 % 0.01921 %	0.02129 % 0.01921 %	0
4-12CW057	Electric Mountain Lodge	Hubbard Creek/ 4-84CW413	3 cfs (summer) 3 cfs (winter)	0.02129 % 0.01921 %	0.02129 % 0.01921 %	0
5-12CW080	Raymond P. & Carol J. Peterson	Colorado River/ 5-80CW448	150 cfs (summer) 150 cfs (winter)	0.00015 % 0.00016 %	0.13321 % 0.09380 %	44
5-12CW080	Raymond P. & Carol J. Peterson	Colorado River/ 5-11CW159	500 cfs (summer) 500 cfs (winter)	0.00004 % 0.00005 %	0.00114 % 0.00006 %	1
5-12CW080	Raymond P. & Carol J. Peterson	Colorado River/ 5-11CW160	525 cfs (summer) 525 cfs (winter)	0.00004 % 0.00005 %	0.00108 % 0.00006 %	1
5-12CW080	Raymond P. & Carol J. Peterson	Colorado River/ 5-11CW161	650 cfs (summer) 650 cfs (winter)	0.00003% 0.00004%	0.00087 % 0.00005 %	1

5-12CW109	Cairns Ranch, LLC	Colorado River/ 80CW446	135 cfs (summer) 135 cfs (winter)	0.00153% 0.00031%	0.13851 % 0.09383 %	43
5-12CW109	Cairns Ranch, LLC	Colorado River/ 80CW447	90 cfs (summer) 90 cfs (winter)	0.00230 % 0.00047 %	0.20231 % 0.13692 %	41
5-12CW109	Cairns Ranch, LLC	Colorado River/ 80CW448	150 cfs (summer) 150 cfs (winter)	0.00138 % 0.00028 %	0.13459 % 0.09408 %	45
5-12CW109	Cairns Ranch, LLC	Colorado River/ 90CW300	40 cfs (summer) 20 cfs (winter)	0.00517 % 0.00212 %	0.23417 % 0.35200 %	22
5-12CW109	Cairns Ranch, LLC	Colorado River/ 87CW292	50 cfs (summer) 25 cfs (winter)	0.00414 % 0.00169 %	0.02291 % 0.02861%	5

2012 COLORADO HEALTHY RIVERS FUND (CHRF) GRANTS: CWCB staff received a total of 17 CHRF grant applications by the April 30, 2012 deadline. Copies of these applications were sent to the Water Quality Control Division (WQCD) and the Colorado Watershed Assembly (CWA). Staff at the CWCB, WQCD, and CWA reviewed and scored the applications according to the program guidance approved by the Designees.

Tax return contributions for CHRF increased slightly from \$96,090 in 2011 to \$96,225 in 2012. The CHRF revenue balance and the respective needs of the top ranked projects were reviewed. The total funding request was \$331,913. Funding requests exceeded the amount available for grant awards. The total 2012 CHRF funding award was \$87,000. CWCB staff investigated other sources of funding for some of the applications. The total award to CHRF applicants from other CWCB funding sources was \$37,520. Nine applications were recommended for funding. Two and one-half of these projects were funded through the CWCB Multi-Objective Watershed Protection Program (Severance Tax Funds). Seven applications were recommended for full funding, and the two applications were recommended for partial funding. All applications recommended for funding through CHRF were limited to \$15,000.

Project types include riparian re-vegetation, bank stabilization, diversion dam reconstruction design, water quality monitoring, watershed assessments & plans, targeted outreach & education, and macro-invertebrate sampling. The different project types support the mission of the CWCB and/or the WQCD. Projects are funded in the Arkansas, Colorado, Gunnison, Rio Grande, and Yampa Basins. (*Chris Sturm*)

FLOOD INSURANCE OUTREACH: CWCB has been coordinating with communities affected by wildfires this summer to provide information to citizens about flood insurance. Because wildfires can cause increased erosion and flooding, this outreach is an important part of post-fire communication to residents. Additionally, Congress passed legislation adding an exception to the standard 30-day wait for a new flood insurance policy for property owners affected by flooding resulting from wildfires on federal land.

CWCB staff toured the areas affected by the Waldo Canyon Fire in Colorado Springs, High Park Fire in Larimer County and Weber Fire in Montezuma County. Public meetings were held in each County to explain the basics of flood insurance and changes to legislation affecting Colorado. (*Jamie Prochno*)

WEATHER MODIFICATION PERMITTING PROGRAM UPDATE: The CWCB administers the 2012 Colorado Weather Modification Rules and Regulations and the State Weather Modification Permitting Program, as delegated by the Executive Director of DNR on July 1, 2012. The CWCB has been delegated the authority to run this program since 1987.

There have been three applications made by contractors to renew their existing, but recently expired, wintertime ground-based cloud seeding permits. The first request was from North American Weather Consultants on behalf of Gunnison County and the Upper Gunnison River Water Conservancy District. A public hearing was held on August 30, 2012 to help develop the Record of Decision. There were nine parties at the hearing and none in opposition of the permit request. Steve Glazer, a board member of the Conservancy District, spoke in favor of the permit and thanked the CWCB and Lower Basin for technical assistance and grants, and requested a weather station.

A second request was made by Western Weather Consultants for cloud seeding in the Upper Colorado River Basin on behalf of seven entities in the Front Range Water Council, and the Arapahoe Basin, Winter Park, Breckenridge, and Keystone ski areas. The public hearing for this request will be held at LaQuinta Inn & Suites, Loveland Room, 560 Silverthorne Lane, Silverthorne, Colorado, at 6:00 PM on Monday September 24, 2012.

A third request was made by Western Weather Consultants for the Upper San Miguel and Dolores River Basins with the main project sponsors being Telluride Ski Area, Dolores Water Conservancy District, and Southwestern Water Conservancy District. The hearing location for this request is not finalized yet, but the date is October 17, 2012 in Telluride. Public comments assist both the CWCB and the Attorney General's office in developing a Record of Decision to forward onto Director Jennifer Gimbel for her review, approval, or denial.

For information about these three [permit requests](#), contact joe.busto@state.co.us. (*Joe Busto*)

UPDATE ON ACCEPTED TEMPORARY LEASES AND LOANS OF WATER FOR ISF USE: At the July CWCB meeting, the Board ratified the Director's acceptance of one lease and one loan of water for instream flow ("ISF") use, both of which had been approved by the State and Division Engineers. An update on the implementation of the lease and the loan is provided below. The Colorado Water Trust ("CWT") and CWCB staff are coordinating on monitoring, recordkeeping and reporting requirements for each temporary lease and loan to which the CWT is a signatory.

I. Temporary Lease of Water from Colorado Water Trust ("CWT") and Upper Yampa Water Conservancy District for ISF Use on the Yampa River (Water Division 6)

Streams Benefitted: Yampa River (72.5 cfs from 4/1 to 8/14 and 47.5 cfs from 8/15 to 3/31 ISF)

Reservoir: Stagecoach Reservoir

Amount of Water Leased: 4,000 AF at a release rate of 26.7 cfs

Lease Term: 1 year

Date Lease Approved: 7/11/2012

On June 28, 2012, stream gages indicated that flows in the Yampa River through Steamboat Springs had dropped to a low flow of 45 cfs. CWT requested and paid for an early release of 26.7 cfs from Stagecoach Reservoir to improve stream temperatures and flows in the Yampa River through Steamboat Springs. Since the ISF lease had not yet been approved by the State Engineer, these releases were not legally protectable as ISF water rights. However, to benefit the river, many irrigators voluntarily passed up their right to divert the releases, and allowed the water to remain in the river past their headgates. Within two days, these early releases raised the flows in Steamboat Springs to around 70 cfs.

On July 11, 2012, the State and Division Engineers approved the ISF lease and the Upper Yampa District began releasing 26.7 cfs to benefit the ISF water right. Water released pursuant to this lease increased the amount of water available to the ISF water right from approximately 37 cfs (prior to June 28, 2012) to about 68 cfs.

CWT has also entered in to a lease with Tri-State Generation and Transmission to reuse the water released from Stagecoach under this temporary ISF lease. After the ISF use, the leased water is delivered to Tri-State to supplement flows at the Craig Power Station. The Tri-State lease was implemented on August 17, 2012, and when combined with Tri-State's own releases, has significantly raised stream flow levels in the Yampa River. The reaches of stream benefitted by the release of 26.7 cfs from Stagecoach Reservoir include:

- June 11 – September 14: 5.4 mile ISF segment on the Yampa River from Morrison Creek to Lake Catamount Reservoir; and
- Water released pursuant to this lease provided incidental benefits (flows not protectable under the lease due to lack of decreed ISF, or decreed ISF rate was already met) on the Yampa River as follows:
 - 6/28–7/11: approx. 17 miles of the Yampa River from Stagecoach Reservoir to Soda Creek;
 - 7/11–9/14: 1.2 miles of the Yampa River from Stagecoach Reservoir to Morrison Creek;
 - 8/20–9/14: 66 miles of the Yampa River from Lake Catamount Reservoir to the Tri-State power station in Craig, CO

II. Temporary Loan of Water from Colorado Parks and Wildlife (“CPW”) for ISF use on Big Beaver Creek and the White River (Water Division 6)

Streams Benefitted: Big Beaver Creek (2 cfs ISF) and the White River (200 cfs ISF)

Reservoir: Big Beaver Reservoir a/k/a Lake Avery

Amount of Water Loaned: 3,000 AF at a release rate of up to 20 cfs

Loan Term: 10 year (to be used 3 years in the 10-year period)

Date Loan Approved: July 17, 2012

In mid-August, a radar water level sensor was used to rapidly re-establish a telemetry gage on the White River below North Elk Creek near Buford, CO to facilitate management of reservoir releases for ISF use and for improved water administration. The rapid reactivation of the gage was made possible by cooperation between CWCW, Colorado Parks and Wildlife, Division of Water Resources, and local water users.

CPW began releasing water for ISF use on August 30, 2012 at a rate of 20 cfs. As of September 10, 2012, releases still were being made. CPW and CWCB based the timing of the release on two criteria: (1) if the decreed ISF was not being met; and (2) temperatures in the White River. The CPW wanted to ensure that releases would be made at the times most needed by the fish, based upon temperatures more than flow rates. CPW uses temperature criteria statewide to close stream reaches to angling to reduce stress on the fish. Since the releases began on August 30, temperatures have been less of a concern due to cooler nights. However, flows have decreased as senior irrigators have turned ditches back on for late season irrigation, leading to poor stream flow conditions. It appears that without the 20 cfs release, the White River would be dry in some reaches. On September 10, flows at the White River gage above Coal Creek near Meeker were only 32 cfs. (*Kaylea White*)

CITY OF BOULDER 2011 REPORT ON BOULDER CREEK ISF PROGRAM: In April 2012, the City of Boulder provided its 2011 water year annual report to the CWCB, describing its operations under the July 20, 1990 Agreement between the City and CWCB by which the City donated various water rights to the CWCB for instream flow use on Boulder Creek. Water available to the CWCB for instream flow use under the Agreement supplemented the CWCB's instream flow water rights in various reaches of Boulder Creek from November 2010 through April 2011, and from the last week of August through mid-October 2011. The CWCB used approximately 1,199 acre-feet of donated water from the City for instream flow use. The City did not lease water generated by its operations under the Agreement to users downstream of the CWCB's instream flow reach in 2011. (*Linda Bassi*)

THREE SISTERS DITCH WATER RIGHT ABANDONED: On July 9, 2012, the Colorado Water Trust filed a motion requesting the Water Court to confirm abandonment of the Three Sisters Ditch water right, decreed for 1.5 cfs out of Hermosa Creek. The Colorado Water Trust had acquired a 100% interest in the Three Sisters Ditch water right with the intent of using the right to benefit Hermosa Creek instream flow (ISF) water rights, and determined that the most benefit would accrue from relinquishing the right to the stream. The CWCB submitted letters to the Division Engineer and Water Court supporting the Colorado Water Trust's motion to abandon the water right based upon the projected benefits to the Hermosa Creek ISF water rights. On August 29, 2012, the Division 7 Water Court entered an order abandoning The Court also ordered that the water historically diverted under the ditch right is relinquished to Hermosa Creek, and found that such relinquishment will benefit four ISF water rights on Hermosa Creek, which are the next water rights in priority after the Three Sisters Ditch right. (*Linda Bassi*)

RECENTLY DECREED ISF WATER RIGHTS: On August 10, 2012, the Division 4 Water Court decreed an instream flow water right to the CWCB on North Fork Tabeguache Creek in Case No. 11CW143 for 2.3 cfs (May 1 – June 30), 1.4 cfs (July 1 – August 14), 0.75 cfs (August 15 – March 31) and 1.4 cfs (April 1 – April 30) with an appropriation date of January 25, 2011. The upstream terminus is the headwaters and the lower terminus is the confluence with Tabeguache Creek. This ISF reach is approximately 9.67 miles long and flows in a southeasterly direction through parts of the Uncompahgre National Forest in Montrose County.

On August 10, 2012, the Division 4 Water Court decreed an instream flow water right to the CWCB on Tabeguache Creek in Case No. 11CW144 for 3.5 cfs (April 1 – June 30), 2.0 cfs (July

1 – October 31) and 1.6 cfs (November 1 – March 31) with an appropriation date of January 25, 2011. The upstream terminus is the confluence with North Fork Tabeguache Creek and the lower terminus is the confluence with Forty-Seven Creek. This ISF reach is approximately 3.66 miles long and flows in a southwesterly direction through parts of the Uncompahgre National Forest in Montrose County.

On August 10, 2012, the Division 4 Water Court decreed an instream flow water right to the CWCB on Red Canyon Creek in Case No. 11CW145 for 1.2 cfs (May 1 – June 30), 0.5 cfs (July 1 – October 31), and 0.25 cfs (November 1 – April 30) with an appropriation date of January 25, 2011. The upstream terminus is the confluence with Big A Creek and the lower terminus is the confluence with Horsefly Creek. This ISF reach is approximately 2.69 miles long and flows in a southwesterly direction through parts of the Uncompahgre National Forest in Montrose County. (Rob Viehl)

REQUESTS FOR ADMINISTRATION OF ISF WATER RIGHTS: From June through August 2012, staff, on behalf of the Board, placed calls for administration of the following ISF water rights. Staff was alerted to low flow conditions via the flow alert system. The Division Engineers have worked diligently to enforce the calls through the curtailment of junior rights and/or through the implementation of various augmentation plans. Staff will provide a full report on the results of administration of these calls in November.

STREAM NAME	CASE NUMBER	DATE OF FORMAL WRITTEN CALL
Colorado River	5-80CW447	August 28, 2012
Slate River, Washington Gulch	SWSP – Breem Ditch	August 16, 2012
Elk River	6-77W1279 6-77W1331	August 16, 2012
Eagle River	5-78W3811	July 27, 2012
Roaring Fork River	5-76W2948	July 24, 2012
Slate River	4-80CW092	July 6, 2012
Pine Creek	2-77W4673 2-77W4674	June 12, 2012
Fraser River	5-90CW308B	June 12, 2012

The call letters and detailed information on the Board's rights that were administered can be found on the CWCB's web page at:

<http://cwcb.state.co.us/StreamAndLake/Physical/AdministrativeCalls/> (Jeff Baessler)

~ATTACHMENTS~

- **01 Finance Section – Non-Reimbursable Investments Status Report**
- **02 Finance Section – Design and Construction Status Report**
- **03 Finance Section – Agricultural Emergency Drought (AED) Grant Program Update**
- **04 Finance Section – Current Prequalified Project List and Loan Prospect Summary**
- **05 Instream Flow and Natural Lake Level Program – Summary of Resolved Opposition Cases**
- **06 WSRA Grants Approved – Not Contracted**
- **07 WSRA Grants Completed**
- **08 WSRA Grants In Progress**

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**Colorado Water Conservation Board
Construction Fund, Special Funds and Severance Tax Trust Fund Accounts
Non-Reimbursable Investments Status Report
Fiscal Year 2011-2012**

Construction Fund – Non-Reimbursable Investments

The Colorado Water Conservation Board (CWCBC) Non-Reimbursable Investments Status Report has two sections. This section includes the non-reimbursable investment projects from the Construction Fund, Special Funds and Severance Tax Accounts. The following table summarizes the non-reimbursable investment projects in progress from July 2011 through June 2012. This table provides the beginning and ending balances for funds available for each project during the fiscal year. Following this table, are project summaries provided by each project manager that detail the financial data, implementation and status of each project. Following this section is the Severance Tax Trust Fund Operational Account Grant Program status for the same period.

<u>No.</u>	<u>Manager</u>	<u>Project</u>	<u>July 1 Balance</u>	<u>June 30 Balance</u>
1	Bassi	Acquisitions of Water for Instream Flow	\$1,000,000	\$1,000,000
2	Bassi	CWCB Stream Gaging	\$256,335	\$180,550
3	Bassi	Instream Flow Engineering Support Services	\$141,008	\$93,959
4	Bassi	Satellite Monitoring System – State Eng Office	\$357,855	\$22,826
5	Bassi	Stream Gage Fund	\$264,352	\$264,352
6	Browning	Alt Ag Water Transfer Sustainability Program	\$1,798,398	\$1,256,797
7	Browning	Chatfield Reservoir Reallocation Project	\$2,000,000	\$1,988,206
8	Browning	Chatfield Reservoir Reallocation Study	\$127,938	\$35,248
9	Browning	Climate Change Effects on Co Water Resources Study	\$27,048	\$27,048
10	Browning	Co Drought Mitigation & Response Plan Implement	\$84,423	\$77,798
11	Browning	Drought Mitigation Planning Technical Assistance	\$52,316	\$52,316
12	Browning	Water Adaptation Partnership Program	\$460,000	\$460,000
13	Browning	Water Conservation Data Tracking Project	\$200,000	\$200,000
14	Browning	Water Conservation Public Awareness Research Study	\$150,000	\$150,000
15	Browning	Water Education Foundation	\$150,000	\$0
16	Feehan	Animas-La Plata Project Water	\$24,000,000	\$12,000,000
17	Feehan	CCC Ditch Diversion Rehab on the San Miguel River	\$36,525	\$0
18	Feehan	Rocky Mountain Fen Demonstration Project	\$100,000	\$100,000
19	Feehan	Water Resource Info Center & Data Harvesting	\$500,000	\$450,000
20	Houck	Chatfield Channel Improvement	\$160,834	\$160,834
21	Houck	Colorado Floodplain Map Modernization	\$1,046,753	\$887,140
22	Houck	Fish and Wildlife Resources Fund	\$2,860,588	\$2,083,622
23	Houck	Flood Response Fund	\$424,266	\$298,956
24	Houck	Floodplain Technical Services	\$109,028	\$7
25	Houck	National Oceanic & Atmospheric Admin	\$300,000	\$154,861
26	Houck	Watershed Restoration	\$645,552	\$339,883
27	Houck	Weather Modification Program	\$632,798	\$208,542
28	Kowalski	Arkansas River Basin DSS FS & Implementation	\$535,655	\$500,927

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<u>No.</u>	<u>Manager</u>	<u>Project</u>	<u>July1 Balance</u>	<u>June 30 Balance</u>
29	Kowalski	Ark River Surface Water Rules Tech & Financial Asst	\$74,616	\$27,177
30	Kowalski	Co River Compact - State Water Right Administration	\$500,000	\$268,091
31	Kowalski	Co DSS Modeling and Engineering Support Services	\$41,464	\$632
32	Kowalski	Colorado Flood Decision Support System	\$74,189	\$74,189
33	Kowalski	Colorado River Augmentation Project Development	\$75,000	\$75,000
34	Kowalski	Colorado River Delta in Mexico Consultation	\$131,855	\$128,205
35	Kowalski	Colorado Water Needs and Alternatives Analysis	\$706,903	\$92,479
36	Kowalski	Instream Flow Decision Support System	\$64,362	\$64,362
37	Kowalski	Litigation Fund	\$3,956,598	\$3,467,996
38	Kowalski	Lower South Platte Water Mgmt & Storage Site Study	\$500,000	\$500,000
39	Kowalski	Project Imaging System	\$147,805	\$138,973
40	Kowalski	Purgatoire River Channel Capacity and Improvement	\$25,000	\$25,000
41	Kowalski	South Platte River Decision Support System	\$1,733,203	\$1,666,394
42	Kowalski	Tamarisk Control Cost-Sharing Program	\$492,255	\$193,391
43	Kowalski	Water Planning Studies	\$128,626	\$115,593
44	Kowalski	Wild and Scenic Rivers Fund	\$400,001	\$371,783
45	Kowalski	Wild and Scenic Rivers Study	\$11,473	\$11,473
46	Russell	Canal Modern & Radio Telemetry Demonstration	\$63,629	\$22,077
47	Russell	Closed Basin	<u>\$175,389</u>	<u>\$175,389</u>
Total Balances for Non-Reimbursable Investments			<u>\$47,724,040</u>	<u>\$30,412,075</u>

Note: * Indicates that there are additional contracts covering the project in the details below.

Details of the Status of the above Projects are as follows:

1. Acquisitions of Water for Instream Flow

Authorization: HB 08-1346

Grant Amount: \$1,000,000

Current Disbursements: \$ 0

Contract No. N/A Endin

g Balance: \$1,000,000

Water Source: Statewide Streams

Project Type: Water Acquisitions

Location: Statewide

Project Manager: Linda Bassi

Sponsor: CWCB Beneficiary

: Statewide Water Users

In Fiscal Year 2011-2012, CWCB did not spend any money from this funding source. CWCB staff is coordinating with the Colorado Water Trust on some potential water rights purchases that may be completed in Fiscal Year 2012-2013.

2. CWCB Stream Gaging

Authorization: SB 01-157 to HB 06-1313
 Previous
 Contract No. 07000000030 *

Endin

Grant Amount: \$1,361,000
 s Disbursements: \$1,104,665
 Available Balance: \$ 256,335
 Current Disbursements: \$ 75,785
 g Balance: \$ 180,550

Water Source: Statewide Streams
 Loc ation: Statewide Pr
 Sponsor: CWCB

Project Type: Stream Gaging
 oject Manager: Jeff Baessler
 Beneficiary: CWCB Staff, and
 Statewide Water Users

Background

As the state's water planning agency, CWCB relies upon gages operated by the Division of Water Resources (DWR), United States Geological Survey (USGS) and private entities in order to meet the needs of its mission critical program areas including Compact Protection, Decision Support System Development, Floodplain Management and Stream and Lake Protection. However, CWCB gaging needs are often different from those of the DWR and USGS. Although many existing gages provide needed data, the DWR's mission is to administer the state's water rights, while the USGS collects data for its cooperative entities as well as for long-term scientific record purposes. As a result, stream gages are not always located where CWCB needs them, nor are they necessarily designed to fit CWCB data collection parameters. Implementation of this project enables CWCB to strengthen its cooperative efforts with the DWR and USGS to expand, refurbish, redesign and create new gages as well as develop new cost effective strategies to obtain data that will not only benefit CWCB but statewide stakeholder interests.

Current Projects / Programs

The following provides a summary of each current CWCB gaging project:

- USGS Gage ID 09172500: San Miguel River near Placerville, CO gage station operation and maintenance (O&M). This gage was slated to be discontinued by USGS because cooperator funds were unavailable. This gage has over 75 years of record and is both an important data gage and useful for ISF administration. CWCB has been funding this gage for the past 2.5 years. In February of this year, the USGS was able to allocate funding from the National Streamflow Information Program (NSIP) for this gage. CWCB will no longer need to provide O&M funds for this gage.
- USGS Gage Station ID 09242500: Elk River near Milner, CO gage station O&M. This gage was slated to be discontinued by USGS because cooperator funds were unavailable. This gage is important for ISF administration. CWCB has been funding this gage for the past 2.5 years. In February of this year, the USGS was able to allocate funding from the National Streamflow Information Program (NSIP) for this gage. CWCB will no longer need to provide O&M funds for this gage.
- The Blue River gage ID BLUINCO is a cooperative gage between CWCB, DWR, Town of Breckenridge, Breckenridge Ski Area and Summit County. This gage was recently upgraded with a new constant flow bubbler and also had extensive dredge work performed to enhance the rated section.
- Numerous temporary gages were installed to aid in water availability analyses associated with new instream flow appropriations. Pressure transducers, flumes and a temporary meteorology station were installed on various streams, including the Apishapa River in Water Division 2 ;

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Spottlewood Creek and Lone Tree Creek in Water Division 1; and two separate installations on Ten Mile Creek in Water Division 5.

- Cottonwood Creek below Road 361 near Buena Vista, CO staff gage O&M. CWCB is cooperating with USGS on this staff gage, which is used for ISF administration.
- DWR Gage ID ROAFRYCO: Roaring Fork River above Fryingpan River near Basalt, CO. Staff is continuing to work with DWR on funding installation of a cableway for high flow ratings. This gage is important to the Town of Basalt and the CWCB's Watershed and Flood Protection Section as well for ISF administration. An engineer has been hired for design, a draft easement agreement has been drafted, and the Corp of Engineers has been contacted regarding permitting. The Town of Basalt Planning and Zoning Commission approved the conceptual design. Recently, the Town of Basalt Council has expressed some concern with the visual impact at the proposed location. The Town of Basalt Council had one hearing regarding the cableway proposal and tabled the process until a field visit takes place. If the Town of Basalt is not interested in moving forward with the cableway project, CWCB and DWR will move the current gage to the Highway 82 bridge, install a new Radar Gage, and only collect low flow data.
- Acoustic Doppler Current Profiler (ADCP): Staff has purchased this equipment to aid in obtaining flow measurements on large rivers and streams where wading techniques are not feasible and/or are dangerous to staff.

3. Instream Flow Engineering and Technical Support Services

Authorization:	SB 05-084	Grant Amount:	\$ 50,000
HB	06-1313	\$100	,000
HB	08-1346	\$150	,000
	SB 09-125		\$ 50,000
HB	10-1250	\$	<u>50,000</u>
Total		\$400	,000
Contract	No. 07000000005 * P	Previous Disbursement:	<u>\$258,992</u>
A		Available Balance:	\$ 141,008
		Current Disbursements:	<u>\$ 47,049</u>
Endin		g Balance:	<u>\$ 93,959</u>
Water Source:	N/A	Project	Type: Technical Services
Location:	Statewide	Managers:	Jeff Baessler
Sponsor:	CWCB	Beneficiary:	: Statewide

Funding is to provide temporary help with technical support for ongoing instream flow (ISF) projects, ISF recommendation investigations and to acquire as-needed engineering services for legal protection of ISF water rights. This fiscal year, a portion of the funding was used for engineering services related to the change of the acquired Breem Ditch water rights on Washington Gulch to ISF use.

4. Satellite Monitoring System – State Engineer's Office

Authorization:	HB 93-1273 to HB 11-1274	Grant Amount:	\$4,693,000
Previous		Disbursements:	<u>\$4,335,145</u>
Contract No.	N/A Av	Available Balance:	\$ 357,855
Current		Disbursements:	<u>\$ 335,029</u>
Endin		g Balance:	<u>\$ 22,826</u>
Water Source:	Statewide Streams	Project Type:	Stream Gaging
Location:	Statewide Managers		: Jeff Baessler / Tom Ley
Sponsor:	State Engineer's Office	Beneficiary:	Statewide Water Users

The Satellite Monitoring System includes funding for maintenance and refurbishment of the State Engineer's Satellite Monitoring System. The State Engineer is continuing to make progress in its

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replacement and refurbishment activities, which are required as a result of new satellite data requirements that are being imposed by the National Oceanic and Atmospheric Administration (NOAA).

5. Stream Gage Fund

Authorization: SB 07-122

Contract No. 08000000131 * Pr

Av

C

Endin

Grant Amount: \$598,155

Previous Disbursements: \$420,559

Available Balance: \$264,352

Current Disbursements: \$ 0

Ending Balance: \$264,352

Water Source: Statewide Streams

Location: Statewide Pr

Sponsor: CWCB Beneficiary

Project Type: Stream Gaging

Project Manager: Jeff Baessler

: Statewide Water Users

CWCB has begun to utilize this funding, in addition to the funds authorized under CWCB's Projects Bills in 2001 through 2006, for the installation of new CWCB gages around the state (see Item #2 above). Although no expenditures were made from this fund last year, staff has identified and is working on scoping out equipment needs and collaborative efforts with USGS and/or DWR on the following new or ongoing projects. In addition, staff continues to work with various stakeholders to identify and plan for future stream gage installations that will aid Board programs with an objective of prioritizing gages that benefit multiple CWCB sections and stakeholders. When possible, matching funds or in-kind services will be requested from participating stakeholders. Funding from CWCB Stream Gaging (Item #2 above) and this Stream Gage Fund will be utilized for these projects with the goal of first depleting funds still available under Item #2. The following are projects underway:

- Basalt Cableway – complete installation (assumes approval by Town of Basalt);
- Temporarily fund operation and maintenance of the USGS stream gage (USGS 0916 5000 DOLORES RIVER BELOW RICO, CO). This gage is slated to be discontinued this year.
- South Boulder Creek at Eldorado Springs – install bank operated cableway, unit procured in 2009;
- South Crestone Creek near Crestone – new well, inlets, shelter placement;
- Los Pinos River near Ortiz (compact gage) – cableway replacement;
- San Antonio River at Ortiz (compact gage) – channel work, install bank operated cableway, unit procured;
- Fryingpan River near Thomasville – replace old bank operated cableway with Tacoma type;
- Plateau Creek below Colbran – temporarily reestablish a satellite monitoring gage (contingent upon Encana proceeding with their proposed plan to pump water from Plateau Creek during “free river conditions” for drilling and well completion work);
- Colorado River at Highway 40 Bridge above Fraser River – install satellite gage (if required for acquisition or temporary lease or loan);
- Maroon Creek at Stapleton Brothers Ditch – install satellite gage; and
- White River below North Elk Creek near Buford – reestablish gage.

6. South Platte River and Arkansas River Basins Alternative Agriculture Water Transfer Sustainability Grant Program

Authorization: SB 07-122

SB 09-125

Grant Amount: \$1,500,000

\$1,500,000

Total: \$3,000,000

Previous Disbursements: \$1,201,602

Available Balance: \$1,798,398

Contract No. C154026 *

Current

Total Disbursements: \$ 541,601

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Water	Source: Statewide	Pro	ject Type: Alternative Methodologies
Loc	ation: Statewide	Pr	oject Manager: Todd Doherty
	Sponsor: CWCB		Beneficiary: All State River Basin Water Users

This grant program focuses on identifying and assisting in the development of agricultural transfer methods (ATM)/programs that reduce consumptive use by reducing the amount of irrigation water applied to the crops, change in the type of crops planted, reducing the number of irrigated acres from historic levels while lessening the impact to rural communities. Several types of agricultural transfers have been proposed as potential alternatives to the traditional agricultural transfers that often result in permanent dry-up of all or a large portion of irrigation systems as a means to obtain additional water supplies for emerging needs. Possible transfer methods include, but are not limited to: 1) interruptible water supply agreements; 2) long-term agricultural land fallowing; 3) water banks; 4) reduced consumptive use through efficiency or cropping changes while maintaining historic return flows; and 5) purchase by end users with leaseback under defined conditions.

The Board approved six grant applications that totaled \$1,500,000 at the May, July and November 2008 CWCB meetings. The Lower Arkansas Valley Water Conservancy District was awarded \$320,000 to assist in funding of the Super Ditch Company's rotational fallowing program. The Parker Water and Sanitation District was awarded \$477,500 to assist in funding of the Lower South Platte Irrigation Research and Demonstration Project. The Farmers Reservoir and Irrigation Company (FRICO) was awarded \$202,500 to assist in funding of the Alternative Water Transfers in the South Platte Basin using the FRICO System Project. CSU Extension Office was awarded \$80,350 to study the effects of fallowing. The Highline Canal Company was awarded \$70,000 to further fallowing lease agreements in their canal system. The Colorado Corn Growers Association was awarded \$349,650 to examine a variety of alternative methods within the South Platte Basin.

Since these projects were awarded their funding, much progress has been made by CWCB and the project sponsors in furthering alternatives to permanent water transfers in Colorado. Through these ATM grant projects, CWCB and others have identified numerous hurdles that must be overcome for these alternative water transfer methods to be successful in Colorado. Specifically, the major hurdles facing the implementation of ATM programs in Colorado include: (1) high transaction costs, (2) ability to transfer a portion of a water right (3) certainty of long-term supplies and (4) water rights administration.

In 2011-2012, the Board approved an additional \$1,482,000 in grants that will build upon the recent findings and develop solutions to the major hurdles.

7. Chatfield Reservoir Reallocation Project

Authorization: HB 08-1346

Current

Contract No. 09000000037* Endin

Grant Amount: \$2,000,000

Estimated Disbursements: \$11,794

g Balance: \$1,988,206

Water Source: South Platte River

Location: 10 miles South of Denver

Sponsor: CWCB, U.S. Army Corps of Engineers

Project Type: Study

Project Manager: Tom Browning

Beneficiary: Statewide Water Users

The purpose of this authorized funding is to act as "seed money" for implementation of the Chatfield Reservoir Reallocation Project (Project) in partnership with local water providers. The seed money may assist, to some extent, with finalization of FR/EIS study tasks, but more importantly will assist with the implementation phase of the Project. Implementation, pending Project approval by the

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federal government, will consist of contracting with the U.S. Army Corps of Engineers for water supply storage space in the reservoir and the completion of recreation modifications and environmental mitigation. This funding has been largely untapped for the time being so that it can be used in the most meaningful and efficient manner when appropriate. The funds are still greatly needed and will be encumbered appropriately for the intended purposes.

8. Chatfield Reservoir Reallocation Study

Authorization	: SB 97-008	Grant Amount:	\$ 300,000
HB	98-1189		200,000
SB	07-122		<u>600,000</u>
Total			\$1,100,000
Contract No.	C153882A*	Previous Disbursements:	<u>\$ 972,062</u>
Av		Available Balance:	\$ 127,938
Endin		Current Disbursements:	<u>\$ 92,690</u>
		g Balance:	<u>\$ 35,248</u>

Water Source: South Platte River
 Location: 10 miles South of Denver
 Sponsor: CWCB, U.S. Army Corps of Engineers

Project Type: Reservoir Supply Study
 Project Manager: Tom Browning
 Beneficiary: Colorado Water Users

This project involves a partnership with the U. S. Army Corps of Engineers (Corps) and local water providers to complete a Feasibility Report and Environmental Impact Study (FR/EIS) regarding the reallocation of up to 20,600 acre-feet of existing storages space in Chatfield Reservoir. The reallocation study is investigating several alternatives including impacts, mitigation needs, and costs. The Corps has determined that 20,600 AF of flood control space can be converted to multi-use space with no reduction in downstream flood control benefits.

The current water providers involved in the FR/EIS include the South Metro Water Supply Authority, Centennial W&S District, Town of Castle Rock, Roxborough Metro District, Castle Pines Metro District, Castle Pines North Metro District, Perry Park Country Club, Center of Colorado WCD, Mt. Carbon Metro District, City of Aurora, Central Colorado WCD, Western Mutual Ditch Company, and Denver Botanic Gardens. A large coalition of stakeholders has been assembled to allow for input on all aspects of the proposed reallocation, and affected DNR agencies are working closely together as well.

9. Climate Change Effects on Colorado Water Resources Study

Authorization:	HB 08-1346	Grant Amount:	\$100,000
P		Previous Disbursements:	<u>\$ 72,952</u>
Contract No.	C154126 *	Available Balance:	\$ 27,048
Endin		Current Disbursements:	<u>\$ 27,048</u>
		g Balance:	<u>\$ 27,048</u>

Water Source: N/A
 Location: Statewide
 Sponsor: CWCB

Project
 P
 Beneficiary

Type: Study
 Project Manager: Taryn Hutchins-Cabibi
 : Statewide

Climate change has the potential to greatly impact Colorado's natural resources, including water resources. Governor's Ritter's Climate Action Plan laid out a number of goals, two of which included adaptation, and education and outreach. In accordance with these goals, CWCB worked with Western Water Assessment (WWA) and NOAA to produce a synthesis report entitled "Climate Change in Colorado" which was released in October of 2008. CWCB has also partnered with WWA and NOAA to hold a series of workshops entitled "Dealing with Drought in a Changing Climate" to educate Coloradans on the report findings. Lastly, CWCB partnered with a number of Front Range utilities to examine how changes in climate

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can impact Front Range municipal water resources. This study, “The Joint Front Range Climate Change Vulnerability,” was published in spring 2012 by the Water Research Foundation.

10. Colorado Drought Mitigation and Response Plan Implementation Program

Authorization:	HB 08-1346	Grant Amount:	\$300,000
P		Previous Disbursements:	<u>\$215,577</u>
Contract No.	C154152	Available Balance:	\$ 84,423
C		Current Disbursements:	<u>\$ 6,625</u>
Endin		g Balance:	<u>\$ 77,798</u>
Water Source:	N/A	Project	Type: Drought Plan
Location:	Statewide	P	Project Manager: Taryn Hutchins-Cabibi
Sponsor:	CWCB	Beneficiary	: Statewide

In compliance with the Federal Emergency Management Agency (FEMA) requirements, CWCB completed a comprehensive revision to the State Drought Mitigation Response Plan, approved by the CWCB Members, Governor Hickenlooper and FEMA. The plan recommended a multitude of implementation projects that will bolster the State’s drought mitigation and monitoring efforts as well as aid in the local drought planning process. These efforts are now underway. In Fiscal Year 2013, CWCB held a Drought Impacts Tour for policy makers to see firsthand the impacts of drought and help to improve the communication between the producers and policy makers. A large statewide drought conference will also be held in Fiscal Year 2013 which will present information on both CWCB efforts on drought mitigation and response as well as innovations that others have implemented.

11. Drought Mitigation Planning Technical Assistance

Authorization:	SB 07-122	Grant Amount:	\$150,000
		Previous Disbursements:	<u>\$ 97,684</u>
Contract No.	09000000020	Available Balance:	\$ 52,316
		Current Disbursements:	<u>\$ 0</u>
Endin		g Balance:	<u>\$ 52,316</u>
Water Source:	N/A	Project	Type: Tech. Planning Asst.
Location:	Statewide	Pro	Project Manager: Taryn Hutchins-Cabibi
Sponsor:	CWCB	Beneficiary	: Statewide Water Users

The Drought Mitigation Planning Technical Assistance Program seeks to implement major issues identified in the 2004 and 2007 CWCB-commissioned Drought & Water Supply Assessment Study. Issues included the need for future drought mitigation planning projects whereby public information and education, as well as technical assistance, in drought planning would be critical in addressing the availability and reliability of water supplies in the future. Among the key recommendations made in this study, the need for technical support was highlighted. To address these needs, the State could provide technical assistance to support local entities in their various water planning and implementation efforts.

As part of the 2010 revision to the State Drought Mitigation and Response Plan, CWCB has developed a web-based toolbox that can act as a “how to guide” for drought planning for municipal water providers. The development of these tools will make drought planning less resource intensive for local communities. A series of workshops teaching providers how to utilize these tools was completed in May and June of 2011. In Fiscal Year 2013, the State will begin revision for the next update to the plan.

12. Water Adaptation Partnership Projects

Authorization:	SB 09-125	Grant Amount:	\$500,000
P		Previous Disbursements:	<u>\$ 40,000</u>

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Contract No.	10000000129	Available Balance:	\$460,000
		Current Disbursements:	\$
Endin		g Balance:	<u>\$460,000</u>
Water Source:	N/A	Project	Type: Planning
Location:	Statewide	Managers:	Taryn Hutchins-Cabibi / Ray Alvarado / Michelle Garrison / Joe Busto
Sponsor:	CWCB	Beneficiary	: Statewide

One of the goals of the Colorado Climate Action Plan is to prepare the state to adapt to unavoidable climate changes. To help meet that goal, CWCB has partnered with multiple state agencies and stakeholders to undertake Water Adaptation Projects to increase understanding of climate change; communicate the information to those who need to plan and implement adaptation strategies and build partnerships that will produce the models and data upon which actions are based. CWCB is working to implement its strategy in the following areas: enhance our climate observation systems with the goal of identifying long-term trends; scrutinize and detect bias in climate change models; fund partnerships to ensure new data is useful at a local planning level; adapt information for use in the Colorado Decision Support System; utilize information to meet federal drought planning requirements; and to improve forecasting and projections.

13. Water Conservation Data Tracking Project

Authorization:	HB 11-1274	Grant Amount:	\$200,000
		Current Disbursements:	\$
Contract No.	None	g Balance:	<u>\$200,000</u>
Water Source:	N/A	Project Type:	Research Study
Location:	Statewide	Project Manager:	Kevin Reidy
Sponsor:	CWCB	Beneficiary	: Statewide Water Users

To better understand Colorado's future water supply needs and options, more local information must be incorporated into demand forecasts. Two areas that fill within this data gap are economic evaluations of water conservation measures and savings as well as the potential of water conservation in water supply planning.

More information regarding the economics of water conservation, particularly as compared to other alternatives for developing new water supplies, would assist local, regional, and statewide planning efforts. Many economic evaluations of conservation neglect to include all of the potential benefits and costs associated with reducing future demand. Investigating current costs of water conservation measures, the full range of benefits of reduced demands and how water conservation savings and costs operate over time will be crucial to future successful water conservation planning efforts. The economics project is scheduled to kick off in late fall 2012 with a scope of work being developed at present time and CWCB's Water Conservation Technical Advisory Group weighing in the necessary elements of the project.

The water conservation strategies and potential savings outlined in the 2010 SWSI Update can be further refined and adapted as new information and water use data becomes available. The Basin Needs Decision Support System (BNDSS) provides the framework for housing such data and making it easily accessible for future planning initiatives. This water conservation data tracking project is necessary for the creation of expanded and comprehensive database tools to track demands, evaluate supply needs, and identify conservation potential. Water use and water conservation datasets and forecasting models should be preserved over time so that future SWSI efforts are not duplicative. Additionally, Colorado's new water data reporting rule (HB1051) presents a unique opportunity to improve on future planning efforts.

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As a pre-cursor to the full implementation of HB1051, new datasets, evaluation and forecasting tools can help define the data collection process. Through these efforts, a better understanding of Colorado's water use and supply needs can be established. The data tracking portion of this project has begun with the development of a scope of work for an online water use and water conservation reporting tool to be rolled out no later than the summer of 2013. At that time, various water providers (covered entities) will test the tool for approximately 6 months to ensure it operates as intended with full access to the tool scheduled at the beginning of 2014.

14. Water Conservation Public Awareness Research Study

Authorization: SB 07-122

Grant Amount: \$150,000

Current Disbursements: \$ 0

g Balance: \$150,000

Contract No. None Endin

Water Source: N/A

Project Type: Research Study

Location: Statewide

Pr

Project Manager: Tom Browning

Sponsor: CWCB

Beneficiary

: Statewide Water Users

A comprehensive Statewide Water Conservation Public Awareness Research Study will be conducted to pinpoint critical attitudes and behaviors among Coloradoans and those affected by recommended water efficiency best management practices. A combination of qualitative and quantitative research will be conducted strategically to benchmark statewide attitudes and perceptions about water efficiency. Since attitudes, microclimates, and water supplies vary in Colorado, the research studies will be segmented geographically according to the nine HB 05-1177 roundtable basins around the State. The water awareness strategy will focus on three research target groups for all regions, regulated community, stakeholders, and citizens. The research strategy would include a quantitative and qualitative survey, in-depth interviews, and focus groups. BBC Research, supported by GBSM and various stakeholders, was selected and is under contract to conduct telephone surveys for this effort.

The study findings may be used as benchmarks for a future Water Conservation Public Awareness and Education Campaign, and as a resource from which to develop the most effective messaging and umbrella brand for the State's potential future water awareness and conservation efforts. Potential statewide marketing objectives include educating individual Coloradoans of the importance of water conservation to their future as residents of the State and to complement and reinforce other local and regional water conservation public-awareness programs and activities; striving to make all Coloradoans aware that their natural water resources are limited and not immune to the consequences of their individual behaviors. Similar research in other states indicates that the more people know about their water the more likely they are to conserve it.

15. Water Education Foundation

Authorization: HB 02-1152

Grant

t Amount: \$150,000

Contract No.: C154055

Pro

ject Type: Education

Location: Denver

Project Manager: Tom Browning

Sponsor: Colorado Foundation for Water Education

Beneficiary: Statewide

Each year, CWCB staff executes a grant contract with the Colorado Foundation for Water Education (Foundation) to provide funds for the on-going operation of the Foundation. CWCB Board members annually review and accept the Foundation's annual work plan in May. More information is available at www.cfwe.org and www.cwcb.state.co.us.

16. Purchase of Colorado's Allotment of Animas-La Plata Project Water

Authorization: HB 10-1250

Grant Amount:

\$24,000,000

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Current		Grant Disbursements:	<u>\$12,000,000</u>
Contract No.	None	Ending Balance:	<u>\$12,000,000</u>
Water Source:	Animas River	Project Type:	Water Purchase
Location:	Durango, CO	Managers:	Tim Feehan / Ted Kowalski
Sponsor:	CWCB / USBR	Beneficiary:	State of Colorado

The Purchase Contract between the State of Colorado and the Bureau of Reclamation was fully executed on June 19, 2012. Pursuant to the terms of the Contract, the State made its initial \$12 million payment to the Bureau on June 20, 2012, which officially stopped any additional interest during construction (IDC) from accumulating. The State is now in an annual repayment contract with the Bureau, with its first annual payment being due on June 19, 2013.

There is currently an additional \$24M available in the Construction Fund to be used towards the purchase of A-LP water. It is not staff's intent to make annual payments, but rather to finalize the amount to be credited on the DPP, establish the amount of funds to remain in a long-term operation, maintenance, and replacement (OM&R) fund, and then make a final payment to the Bureau sometime before June 19, 2013. Depending on the amount credited for the DPP, and the amount of set-aside money for an OM&R fund, the State may be able to purchase all or a portion of its allocated pool of 10,440 acre feet. Staff will be working with the Board over the next few months to finalize the amount of water the State can purchase.

17.	<u>CCC Ditch Diversion Rehabilitation on the San Miguel River</u>		
	Authorization: SB 07-122	Grant Amount: \$65,000	
	Previous	Current Disbursements: <u>\$28,475</u>	
	Contract No. C154096	Available Balance: \$36,525	
	Current	Grant Disbursements: <u>\$36,525</u>	
		Ending Balance: <u>\$0</u>	
Water Source:	San Miguel River	Project Type:	Demonstration Project
Location:	Statewide	Project Manager:	Tim Feehan
Sponsor:	CCC Ditch Company, San Miguel Watershed Coalition, and Colorado Water Trust	Beneficiary:	Statewide

Funding was awarded to the Colorado Water Trust for a demonstration project on the San Miguel River to modify the diversion structure of the CCC Ditch to eliminate the barrier the structure currently causes to fish migration and recreational boats while still providing a full supply of irrigation water to the CCC Ditch. The project was designed by the CCC Ditch Company and the Water Trust Fund. The project is complete and all project funds have been disbursed.

18.	<u>Rocky Mountain Fen Demonstration Project</u>		
	Authorization: SB 07-122	Grant Amount: \$100,000	
		Current Disbursements: <u>\$0</u>	
	Contract No. None	Ending Balance: <u>\$100,000</u>	
Water Source:	N/A	Project Type:	Demonstration Project
Location:	N/A	Project Manager:	Tim Feehan
Sponsor:	Colorado Mountain College	Beneficiary:	Statewide
	City of Aurora, Pueblo Board of Water Works		

Funding was awarded to the Colorado Mountain College-Timberline Campus for a demonstration project designed to explore the extent to which the harvest and transplantation of slow-forming organic

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peat soils, from an area of potential impact to specifically prepared receiver sites, can serve as mitigation of impacts to fens. The funding for the project is dependent on the project sponsor acquiring a 50/50 cost share from other outside sources to match the CWCB funds. To date, no matching funds have been acquired by the project sponsor, and therefore, no Construction Fund monies have been expended on this project.

19. Water Resource Information Center and Data Harvesting Initiative

Authorization: SB 09-125

Grant Amount: \$550,000

Previous Disbursements: \$ 50,000

Contract No. 11000000032 Av

Available Balance: \$500,000

Current

Disbursements: \$ 50,000

Ending

Balance: \$450,000

Water Source: N/A P
Location: Statewide Pr
Sponsor: CWCB B

Project Type: Water Information
Project Manager: Susan Lesovsky
Beneficiary: Statewide

In 2009, the General Assembly authorized \$550,000 under SB09-125, Section 13, for CWCB to: (1) adopt and implement a standard for sharing/harvesting data among document management systems; (2) integrate the CWCB's and Colorado State University's (CSU) systems using the above standard; (3) join with other interested water entities who want to share their water-related information; and (4) provide funding for furthering CSU's digitization of documents, such as the Delph Carpenter collection.

The accomplishments of the CWCB Water Resource Information Center and Data Harvesting Initiative during Fiscal Year 2012 concentrated on appropriating money to CSU's digitization efforts, which included scanning, indexing and making available (through the CSU Water Resources Archive) papers, maps and slides from the Groundwater Data Collection, the David McComb Big Thompson Flood Collection, and from Delph E. Carpenter and Family, Rollin Q. Tenney, W.D. Farr, Louis G. Carpenter, Everett V. Richardson, Maurice L. Albertson, James R. Meiman, Robert E. Glover, James L. Ogilvie, Maurice L. Albertson, Edwin W. Mogren, Harvey Johnson, and/or the records of the Plumb and Daily Ditch Company, the Iliff and Platte Valley Ditch Company and Wright Water Engineers.

20. Chatfield Channel Improvement

Authorization: SB 79-537 – SB 90-41

Grant Amount: \$7,272,000

Previous

Disbursements: \$7,111,166

Contract No. C153882 *

Available Balance: \$ 205,383

Current Disbursements: \$ 0

Ending Balance: \$ 160,834

Water Source: South Platte River
Location: Downstream of Chatfield Reservoir
Sponsor: CWCB Be

Project Type: Flood Control
Managers: Kevin Houck / Joe Busto
Beneficiary: CWCB – Metro Area

The original 1979 authorization listed was the original state and federal funding left over from the land purchase and construction of the Chatfield Downstream Channel Improvement Project (Project). The Project was to straighten the South Platte River to accommodate up to 5,000 CFS and once constructed, it was turned over to CWCB as the non-federal project sponsor. At the request of Littleton, the area between C470 and Mineral was excluded from the flood control project. This was once known as Littleton Floodplain Park and is now known as South Platte Park and is a great urban naturalist and educational amenity. The next reach is the CWCB /Corps Project that is the South Platte River from Mineral Avenue to Hamden Avenue. Annually the Flood Readiness Branch of the Omaha Corps of Engineers grades the Project. Several years of minimally acceptable ratings and tougher Corps inspection

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reports, after recent levee failures, has led to led to increased vegetation removal and maintenance activities by UDFCD contractors on behalf of CWCB. Staff maintains a balance in this account in the event that we need to repair the flood project due to a large flood event; no funding was spent out of this account during this fiscal year.

21. Colorado Floodplain Map Modernization

Authorization: SB 03-110 to HB 11-1274

Contract No. C154013 * Av
Adj
Current
Ending

Grant Amount: \$2,772,599
Previous Disbursements: \$1,771,539
Available Balance: \$1,001,060
Donations: \$ 45,693
Adjusted Balance: \$1,046,753
Total Disbursements: \$ 159,613
Ending Balance: \$ 887,140

Water Source: N/A
Location: Statewide Pr
Sponsor: Statewide Be

Project Type: Floodplain Delineation
Project Manager: Thuy Patton
Beneficiary: CWCB – Statewide

This program is a federally funded but state-managed flood plain mapping program, with matching funding from state and local governments. Floodplain maps originally prepared as part of the Federal Emergency Management Agency's (FEMA's) National Flood Insurance Program (NFIP) are being updated and revised. The new maps are digital and are prepared in a county wide format. Beginning in Fiscal Year 2004, CWCB worked directly with FEMA and the affected local governments to start the process of updating and revising old Flood Insurance Rate Maps into the new digital format. Counties, which include the county and its incorporated communities, that have been completed or are in progress are: Boulder, Garfield, Pitkin, Fremont, Clear Creek, Pueblo, Weld, Summit, El Paso, Rio Grande, Montrose, Morgan, Prowers, Logan, Chaffee, Prowers, La Plata, Montezuma, Mesa, Delta, Elbert, Fremont, Las Animas, Larimer, Teller, Clear Creek, Park, and Gunnison Counties and the City of Boulder.

Starting in 2009 the program has transitioned to Risk Map, which will incorporate additional products to assist local communities in conveying flood risk hazards within their communities. FEMA floodplain maps will continue to be updated based on a watershed level instead of a countywide level.

The Denver Metropolitan area counties are all managed by the Urban Drainage and Flood Control District with technical and financial assistance from CWCB. All other studies are being managed by CWCB staff with consulting assistance from two engineering teams that were selected and contracted for this work.

The CWCB Map Modernization Fund has been instrumental for leveraging local and state funds to maximize federal grants to the program. Typically the local funding is contributed to CWCB at some point during the project duration. The local contribution is reflected as a donation as listed above. Colorado is seen as a floodplain mapping leader within FEMA Region VIII and within the country as a whole. The remaining balance does not reflect a approximately \$597,760 that has been encumbered for projects currently in progress. The encumbered balance was transferred to Fiscal Year 2013 as these are multiple year projects. In addition, many projects have been placed on hold this past year due to new FEMA levee guidance which is scheduled for release at the end of the calendar year.

22. Fish and Wildlife Resources Fund

Authorization: SB 01-157, HB 02-1152

Contract No. C150219 * A
Current

Grant Amount: \$5,000,000
Previous Disbursements: \$2,139,412
Available Balance: \$2,860,588
Disbursements: \$ 776,966

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Endin		g Balance:	<u>\$2,083,622</u>
Water Source: Various	Pro	ject Type: Grant Program	
Location: Statewide		Managers: Ted Kowalski / Chris Sturm	
Sponsor: CWCB	B	eneficiary: Statewide	

In 1987, HB 87-1158 created the Fish and Wildlife Resources Account, also known as the "Mitigation" Account, in the Construction Fund. Procedures for obtaining mitigation grant approvals are found under section 37-60-122.2, CRS. SB 01-157 transferred the account into a special fund. Expenditures from the fund in Fiscal Year 2012 were to the Platte River Recovery Implementation Program. In addition, expenditures were made to the Fountain Creek Diversion Dam Fish Passage Design, sponsored by Colorado Springs Utilities and the Hartland Diversion Dam Reconstruction, sponsored by Painted Sky R C & D Council. The Fountain Creek Diversion Design is nearing completion, and the Hartland Reconstruction project is complete. CWCB, USGS, and the Colorado River District will continue to monitor the Hartland Reconstruction to see if it has impacts on channel morphology.

23. Flood Response Fund

Authorization: SB 01-157 to HB 11-1274	Grant Amount:	\$1,434,265
Previous	Disbursements:	<u>\$1,009,999</u>
Contract No. C154008 *	Available Balance:	\$ 424,266
	Current Disbursements:	<u>\$ 125,310</u>
Endin	g Balance:	<u>\$ 298,956</u>

Water Source: All Colorado streams	Pr	object Type: Quick Response to flooding
Location: Statewide	Pr	object Manager: Kevin Houck
Sponsor: CWCB	Beneficiary	: CWCB - Statewide

The Flood Response Fund (Fund) provides CWCB with opportunities to participate in flood preparedness, response and recovery activities throughout Colorado. The Fund supports five elements of the program, which are Flood Forecasting and Preparation, Aerial Photography of Flooded Areas, Flood Documentation and Identification of Specific Hazards, Evaluations and Revisions of Flood plain Designations, and Development of Disaster and Recovery Mitigation Plans.

The Board has previously approved the staff's program mission and guidelines for the administration of the Fund. The program is administrated by the CWCB's Flood Protection Section and is fully operational at this time. In fact, four out of the five program elements were invoked and utilized during Fiscal Year 2011 with successful results. These activities included snowmelt flood preparation activities, long-term weather outlooks for flood and drought purposes, post-flood documentation for various flooding events, and floodplain evaluations to assess CWCB designated floodplains for validity. A portion of this work also proved to be valuable for the Colorado Flood Task Force and Water Availability Task Force.

It is important to note that a substantial amount of the funds in this account are intentionally held back each year in order to have funding available to respond to a serious flood disaster. When no disaster occurs, as was the case this fiscal year, many of the funds go unspent. It is important to emphasize that this does not mean that the funds are not needed; merely, it is the nature of how the fund is set up that occasionally significant monies are still remaining at the close of the period.

It should be noted that beginning in Fiscal Year 2013, monies from this fund can also be used for drought-related purposes. New statutory authorization allows for this increased scope.

24. Floodplain Technical Services

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Authorization: SB 05-084	Grant Amount:	\$175,000
HB 06-1313		\$175,000
SB 09-125		<u>\$125,000</u>
	Total	\$475,000
Contract No. C154050 *	Disbursements:	<u>\$365,972</u>
Previous	Available Balance:	\$109,028
Current	Disbursements:	<u>\$109,021</u>
	Ending Balance:	<u>\$ 7</u>

Water Source: Various	Project Type: Technical Assistance
Location: Statewide	Project Manager: Kevin Houck
Sponsor: CWCB	Beneficiary: Colorado Water Users

This program helped develop the statewide Meteorological Flash Flood Prediction Program for the State of Colorado. This program is performed during the flood season from May through September by HDR Engineering for the purpose of providing daily notification of flood threats based on meteorological conditions. Other tasks funded by this account this year include a partnership with CDOT for a comprehensive analysis of the Beaver Creek floodplain through Brush and a partnership with the Boxelder Creek Watershed Authority for the design of the Edson Reservoir in Larimer County, which the Authority will use in the process of obtaining an eventual FEMA grant for construction. Final reports have been obtained for all completed projects.

25. National Oceanic and Atmospheric Administration Statewide Precipitation Atlas Update

Authorization: SB 09-125	Grant Amount:	\$300,000
Current	Total Disbursements:	<u>\$145,139</u>
Contract No. None	Ending Balance:	<u>\$154,861</u>

Water Source: N/A	Project Type: Scientific Study
Location: Statewide	Project Manager: Kevin Houck
Sponsor: CWCB / NOAA	Beneficiary: Statewide Water Users

Funds have been allocated for the purposes of partnering with the National Oceanic and Atmospheric Administration (NOAA) to update design rainfall information for the State of Colorado. Currently effective design rainfall information is over 35 years old, and using information from that age potentially results in overdesigning or underdesigning flood control and water supply facilities. Updates of the Rainfall Atlas will result in more current, proper design of these facilities from this point forward. NOAA is currently updating rainfall information around the country in groups of states. Colorado will be updated with a group of six Midwestern states. This account serves as the non-federal portion of this project. After lengthy contract negotiations, a contract with NOAA was signed on June 24, 2011. It is anticipated that this project will be completed during Fiscal Year 2013.

26. Watershed Restoration

Authorization: HB 06-1313	Grant Amount:	\$150,000
SB 09-125		\$250,000
HB 10-1250		\$250,000
HB 11-1274		<u>\$250,000</u>
	Total	\$900,000
Previous	Disbursements:	<u>\$254,448</u>
Contract No. 07000000077 *	Available Balance:	\$645,552
Current	Total Disbursements:	<u>\$305,669</u>
Ending	Ending Balance:	<u>\$339,883</u>

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Water Source: Various	P	Project Type: Watershed Restoration
Location: Statewide	Pr	Project Manager: Chris Sturm
Sponsor: CWCB	Beneficiary	: Watershed Interests

The grant funding has been allocated to projects through the CWCB Colorado Watershed Restoration Program January 2009 - 2012 competitive grant cycles. A recently completed project from the January 2009 grant cycle is the Mancos River Diversion Dam Assessment/Design. Two diversions structures have been reconstructed as a result of this effort (see Severance Tax #18), and several more are seeking funding to do the same. The Lake Fork Gunnison Floodplain/Channel Design remains as the only active project from the 2009 grant cycle. Completed projects from the January 2010 grant cycle include North Fork Gunnison River channel stabilization near Paonia, Eagle River channel stabilization near Edwards, and Campbell Valley gulley stabilization near Fort Collins. Active projects from the January 2010 grant cycle include South Platte River restoration design below Chatfield and Coal Creek channel stabilization in Crested Butte. Completed projects from the January 2011 grant cycle include channel stabilization on Clear Creek (Golden), West Beaver Creek (Pikes Peak), and Kerber Creek (Villa Grove). Other completed projects include restoration on design for the Swan River near Breckenridge, diversion reconstruction on the San Miguel River, diversion reconstruction on Coal Creek near Crested Butte, and riparian re-vegetation on Boulder Creek. Active projects from the 2011 grant cycle include channel stabilization on Trail Creek (Lake George), North Massey Draw (Ken Caryl Ranch), Union Creek (Leadville), and the Yampa River (Craig). Other active 2011 projects include ditch diversion reconstruction on the Gunnison River (upstream of Delta) and river restoration planning for Lightner Creek (Durango).

Projects selected for funding in the January 2012 grant cycle include channel/flood plain restoration on Tarryall Creek, channel stabilization on the North Fork Gunnison River (Paonia), Phase II gulley stabilization in the Campbell Valley (N. of Fort Collins), fence restoration near Ophir Pass, a watershed assessment for the South Fork Arkansas River, and forest road restoration/erosion control in the Coal Creek Basin (Redstone). Total project funding for the 2012 grant cycle is \$244,377.

27. Weather Modification Program

Authorization: HB 04-1221 to HB 11-1274 Grant Amount: \$1,005,000

Contract No.	07000000053 *	Available Balance:	\$632,798**
Current		Total Disbursements:	\$424,256
Ending		g Balance:	<u>\$208,542</u>

Water Source:	N/A	Project Type:	Cost Share Grants
Location:	Denver	Manager:	Joe Busto
Sponsor:	CWCB	Beneficiary:	Statewide

** Available balance is net of CF funding, cumulative donations and previous disbursements.

The reporting on this program can be complicated since we partner with the Colorado River Seven Basin States to provide grants and technical assistance and we work more on a water year basis than a state fiscal year basis. This can lead to large ending balances that may be deceiving based on existing contracts closed out and scheduled off season work for new equipment and weather stations that typically happen the following summer. Staff will report on a water year basis which was November 1, 2011 – October 30, 2012. CWCB has contracts for \$414,929.99 in expenditures for winter 2011-12 and preparation for winter 2012-13. An amount of \$106,741.99 was granted to the San Juan Resource and Development Council for operations of the three southwestern winter cloud seeding programs called Telluride/Dolores, Western San Juan Mountains, and Eastern San Juan Mountains. Purchase Order 12-22 for \$59,539 was issued to Desert Research Institute to operate two remote generators targeting Winter Park Ski Area. P.O 12-23 for \$47,500

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was issued to Gunnison County to partner in the operations of their program. P.O. 12-41 for 32,680 was issued to the Water Enhancement Authority support their operations on the Grand Mesa. P.O. 12-55 for \$63,439 was issued to the City of Grand Junction to fund a proposal by Desert Research Institute to fabricate and deploy a new remote operated cloud seeding machine. P.O. 12-35 for \$80,000 was issued to Grand River consulting as the fiscal agent for the program led by the Front Range Water council and four ski areas in the Upper Colorado River Region. P.O. 13-02 for \$25,000 was issued to HDR Engineering to create a ten year data set and seeding climatology in Colorado to help determine what months, where in Colorado, and what type of seeding propane or Silver Iodide. Also in nearing completion is an MOU between the CWCB and Colorado Avalanche Information Center for about \$12,000 where the CWCB will provide precipitation gauges and other instrumentation and travel funding to the CAIC for deployment of equipment. The CAIC has thirteen field staff and their billing rates are attractive which will help with travel overhead costs that are issues with the CWCB working with Desert Research Institute out of Reno, NV. This should leave about \$17,000 carryover funding, a new \$175,000 Construction Fund WM appropriation, and a request to the Lower Basin for \$150,000 to become the new available balance of \$342,000 for winter 2012-13.

28. Arkansas River Basin Decision Support System Feasibility Study and Phase 1 Implementation

Authorization: SB 07-122		Grant Amount: \$200,000	
HB	11-1274	\$500,000	
Total			\$700,000
Contract No.	C154156	Previous Disbursements:	\$164,347
Av		Available Balance:	\$535,655
Current		Current Disbursements:	\$34,728
Ending		Ending Balance:	\$500,927
Water Source: Statewide Streams		Project Type: Decision Support System	
Location:	Statewide	Project Manager: Andy Moore	
Sponsor:	CWCB	Beneficiary: Statewide Water Users	

With \$200,000 authorized in SB 07-122, the feasibility study began in February 2010, and the final report was completed in December 2011. At the July 2011 Board Meeting, the feasibility study results were presented, and the plan for implementation of the ArkDSS was approved by the Board. \$500,000 for implementation of Phase 1 of ArkDSS was authorized in HB 11-1274. Scoping for Phase 1 is nearly complete and Requests for Qualifications will be released in the near future.

29. Arkansas River Surface Water Rules Technical and Financial Assistance

Authorization: SB 09-125		Grant Amount: \$250,000	
P		Previous Disbursements:	\$175,384
Contract No.	C154165	Available Balance:	\$74,616
Ending		Current Disbursements:	\$47,439
		Ending Balance:	\$27,177
Water Source: Arkansas River		Project Type: Technical Assistance	
Location: Arkansas River Basin		Project Manager: Steve Miller	
Sponsor:	CWCB	Beneficiary: Local Water Users	

This project was authorized to offer technical assistance to entities in the Arkansas Basin that had an interest in designing and administering compliance plans that were encouraged under the State Engineer's Office (SEO) proposed Surface Water Irrigation Efficiency Improvement Rules. These rules are essential to maintaining Colorado's water use within the limitations of Article IV.D of the Arkansas River Compact. The Lower Arkansas Valley Water Conservancy District (LAVWCD) agreed to provide a basinwide compliance plan and CWCB offered a \$250,000 grant to the LAVWCD in two phases. The LAVWCD initially selected two consultants, Leonard Rice Engineers and Peter Nichols to do the

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necessary engineering and legal analysis. Later Heath Kuntz of Adaptive Resources assumed the engineering duties. Phase I, at approximately \$100,000, examined the basic feasibility of such a compliance plan. The Phase II grant for approximately \$150,000 provided for design of the initial compliance plan. The first Rule 10 Plan covering 2011 sprinkler operations was approved last year allowing operation of approximately 85 sprinkler systems in compliance with the new rules and the Compact. A new plan covering 2012 sprinkler operations was filed and approved this spring. An issue in the 2012 plan was the escalating price of short term water due to drought conditions. The project is now essentially completed with the remaining grant funds used to assist the LAVWCD in acquiring replacement water supplies to cover sprinkler depletions in 2012. Additional work on use of owner supplied water for replacement needs and enhancements to the I SAM (model) used to assess irrigation improvements will be accomplished with funds from the Litigation Account as authorized by the Board in March 2012.

30. Colorado River Compact – State Water Right Administration Issues and Options Study

Authorization: HB 08-1346	Grant Amount: \$500,000
Current Contract No. C154180	Total Disbursements: <u>\$231,909</u>
	Ending Balance: <u>\$268,091</u>
Water Source: Colorado River	Project Type: Study
Location: Colorado River Basin	Project Manager: Michelle Garrison
Sponsor: CWCB	Beneficiary: Colorado River Compact

This project is a technical study to: 1) investigate and understand the amounts, locations and types of use of Colorado River and tributary water within the State in the Colorado River Basin in order to more fully understand the State's use of its allocations under the Colorado River Compact and Upper Colorado River Basin Compact, 2) develop and evaluate options to avoid, minimize or delay any curtailment of uses of Colorado River and tributary water in Colorado to meet the Upper Division States' non-depletion obligation under Art. III of the Colorado River Compact, and 3) identify, develop and evaluate approaches to curtailing water uses in Colorado, if curtailments are ever legally required to comply with Art. III of the Colorado River Compact; and to develop approaches to implement those curtailments in a way that will allow the maximum use of Colorado's allocations under the Colorado River Compact and Upper Colorado River Basin Compact and do so as equitably as possible.

Michelle Garrison, CWCB, and Mike Sullivan, Deputy State Engineer, serve as co-leads for the project along with Karen Kwon and Shanti Rosset O'Donovan, Attorney General's Office.

Data gathering and analysis has occurred and work on exploring options for ensuring future compact compliance has commenced.

31. Colorado Decision Support System Modeling and Engineering Support Services

Authorization: SB 07-122	Grant Amount: \$200,000
Contract No. C154103	Previous Disbursements: <u>\$158,536</u>
Av	Available Balance: \$ 41,464
	Current Disbursements: <u>\$ 40,832</u>
	Ending Balance: <u>\$ 632</u>
Water Source: Statewide Streams	Project Type: Decision Support System
Location: Statewide	Project Manager: Ray Alvarado
Sponsor: CWCB	Beneficiary: Statewide Water Users

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Fiscal Year 2011-2012 Work continued to focus on implementing code changes to StateMod, the DSS water allocation model. Code changes and enhancements were identified through work associated with Phase 1 of the CRWAS and SPDSS surface water model for WD 1 & 64. Work has been completed.

32. Colorado Flood Decision Support System

Authorization: SB 07-122	Grant Amount:	\$250,000
HB 08-1346		
Total:	\$500,000	
Previous Disbursements:	\$425,811	
Available Balance:	\$ 74,189	
Contract No. C154138	Current Disbursements:	\$ 0
Ending Balance:	\$ 74,189	
Water Source: Statewide Streams	Project Type: Decision Support System	
Location: Statewide	Managers: Ray Alvarado/Kevin Houck	
Sponsor: CWCB	Beneficiary: Statewide Water Users	

The work on the FloodDSS was completed in 2011 and the website went public in May 2011. The remaining funds will be used to enhance or support this website if needed.

33. Colorado River Augmentation Project Development

Authorization: HB 08-1346	Grant Amount:	\$150,000
	Previous Disbursements:	\$ 75,000
	Available Balance:	\$ 75,000
	Current Disbursements:	0
Contract No. 10000000096	Ending Balance:	\$ 75,000
Water Source: Colorado River	Project Type: Study	
Location: Colorado River Basin	Project Manager: Ted Kowalski	
Sponsor: CWCB/ Seven Basin States	Beneficiary: Colorado River Compact	

The seven Colorado River Basin States (States) have been investigating potential ways to augment and increase the water supply of the Colorado River for several years. In January 2010, the Bureau of Reclamation awarded the States a \$1 million grant through the Basin Study Program, under the auspices of the Water Smart Program. The States provided a \$1 million match under that application. This study's focus is on identifying the current and projected water supply and demand throughout the entire Colorado River Basin and adjacent areas of the seven States that receive Colorado River water up to the year 2060. The general focus of the Study includes a comprehensive review, evaluation and characterization of current and long-term water supply and demands, and identification and quantification of future augmentation needs and recommended options to address these needs. Both consumptive and non-consumptive uses associated with Colorado River water will be examined. A review and analysis of the known and potential effects of drought, and climate change on the Colorado River and their implications on current and future water supplies and associated uses in the Basin will be completed. Strategies will be developed or refined as needed to move forward on any needed augmentation project for the Basin. The estimated total cost of the Study originally was between \$2 and \$3 million depending on the final scope, and current work suggests that the total cost may be closer to \$4 million. The seven basin states and the U.S. Bureau of Reclamation (Reclamation) are sharing costs of the study with each State's proportionate share being approximately \$300,000 with some of the cost share occurring in the form of in-kind services. This Study is being managed through collaboration between Reclamation, the States and several non-federal partners from the seven basin states. This work began in February 2010, and will continue through the end of 2012, at which time implementation funding may be necessary.

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Colorado has spent \$75,000 and the remaining funds will be disbursed within the next year on finalizing this work or on the implementation phase.

34. Colorado River Delta in Mexico Consultation

Authorization	: HB 02-1152	Grant Amount:	\$100,000
HB	08-1346		<u>\$150,000</u>
Total			\$250,000
Previous		Disbursements:	<u>\$118,145</u>
Contract No.	07000000005 *	Available Balance:	\$131,855
Current		Disbursements:	<u>\$ 3,650</u>
Ending		Balance:	<u>\$128,205</u>

Water Source: Colorado River and Tributaries
 Location: Seven Colorado River Basin States
 and the Republic of Mexico
 Sponsor: CWCBC
 River

Project Type: Compact Consultation
 Project Manager: Ted Kowalski

Beneficiary: State of Colorado, Colorado
 River Basin States, and the Republic of
 Mexico

These funds are being utilized by CWCBC staff and Colorado's Upper Colorado River Compact Commissioner to participate in the investigation of issues pursuant to Minute 306 of the *1944 Treaty between the United States and Mexico Concerning the Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande* to assure that such investigations and any solutions that might be offered to comply with Minute 306 do not interfere with or otherwise jeopardize the terms of the Colorado River and Upper Colorado River Compacts. In addition, the United States and Mexico have initiated a bi-national conversation about opportunities for bi-national cooperation on water projects that will have bi-national benefits. These funds are being used for assistance associated with this bi-national process, and for travel and other incidental costs associated with this work.

By way of background, the Yuma Desalt Plant (YDP), which was constructed to treat agricultural drainage water from the Welton-Mohawk and Yuma areas, has not operated since 1992. The YDP was constructed to treat and return water to the river to satisfy part of the delivery obligations to Mexico and to ensure that the Colorado River water delivered to Mexico meets the Minute 242 water quality standard for salinity. The YDP has not been operated because of the expense of operation and because there has been replacement water available from the lining of a section of the Coachella Canal. As a result, 108,000 acre-feet of drainage water annually has not been treated and returned to the Colorado River, but bypassed instead to the Santa Clara Slough. Consequently, a significant portion of the Colorado River Delta wetland has been rejuvenated. This rejuvenation has resulted in a number of environmental organizations and the government of Mexico wanting to re-establish the entire Colorado River Delta wetland area. The initial step in this effort was the adoption of Minute 306 to the 1944 Treaty in December 2000, which created a framework for a formal process to address Colorado River Delta matters. Subsequently, a Symposium on the Colorado River Delta was held on September 11-12, 2001, the proceedings of which were released on September 17, 2002.

Since then, a States Technical Workgroup has been formed and Colorado has been represented on this workgroup by Ted Kowalski. To date, the technical workgroup has summarized the surface water and groundwater resources available to Mexico in an effort to develop a water budget that will help identify opportunities to improve conditions for the Colorado River Delta in Mexico. The Technical Workgroup has also created a "Broad Brush Concept Document" that identifies possible water supplies available to meet the needs of the Colorado River Delta. These concepts and alternatives have been categorized into groups and the pros and cons of each identified. This information is currently being

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discussed among the seven basin states and they will make recommendations as appropriate to the International Boundary and Water Commission (IBWC).

The IBWC has issued a "Terms of Reference" document, which describes the issues that IBWC will discuss and the process that will be followed. In addition, there is a draft Minute to the U.S.-Mexico Treaty of 1944. This Minute is being discussed among the seven basin states, the United States, Mexico, and Mexican stakeholders. Given the complexity of these issues, and the stakeholders involved, it is not surprising that these negotiations continue to take time to advance. Nevertheless, both countries and all of the stakeholders involved are making progress, and it is expected that this effort will require these funds for travel costs, and/or costs of the related Colorado River augmentation study (Basin Study) within the next year.

35. Colorado Water Needs and Alternatives Analysis (Colorado River Water Availability Study)

Authorization:	SB 07-122	Grant Amount:	\$ 500,000
HB08	-1346	\$	500,000
SB0	9-125	\$1,000,000	
Total:		\$2,000,000	
Previous		Disbursements:	\$1,293,097
Contract No.	C154096 *	Available Balance:	\$ 706,903
C		Current Disbursements:	\$ 614,424
Endin		g Balance:	\$ 92,479
Water Source:	Colorado River and its Tributaries	Project Type:	Water Availability Analysis
Location:	Statewide P	Project Manager:	Ray Alvarado
Sponsor:	CWCB	Beneficiary:	Statewide Water Users

A final report on the Colorado River Water Availability Study (CRWAS) Phase 1 was submitted to the Board in March 2012. The remaining funds will be used to update all modeling datasets and work with staff on identifying Phase 2 objectives and issues the need to be addressed under Phase 2.

36. Instream Flow Decision Support System

Authorization	: SB 03-110	Grant Amount:	\$440,000
Previous		Disbursements:	\$375,638
Contract No.	C154020 *	Available Balance:	\$ 64,362
Endin		Current Disbursements:	\$ 0
		g Balance:	\$ 64,362
Water Source:	Statewide Streams	Project Type:	Decision Support System
Location:	Statewide Manage	Managers:	Ray Alvarado / Jeff Baessler
Sponsor:	CWCB	Beneficiary:	CWCB Staff, and Statewide Water Users

No additional work was done associated with the ISFDSS. It is anticipated that in Fiscal Year 2012-2013 the ISFDSS will be updated to work under the new MS Windows operating system.

37. Litigation Fund

Authorization:	HB 95-1155, SB 01-157	Available Balance:	\$3,956,598***
	HB 06-1313, SB 09-125	Current Disbursements:	\$ 488,602
HB	11-1274	g Balance:	\$3,467,996
Contract No.	C154005 *		

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Water Source: N/A	Project Type: Legal Services
Location: Statewide	Managers: Ted Kowalski / Steve Miller
Sponsor: CWCB	Beneficiary: CWCB Staff, and Statewide Water Users

*** Available balance is net of CF funding, interest revenue and previous disbursements.

Each year, CWCB staff reports to the Board and the General Assembly about the status of the fund, including all expenditures from the fund. For more information, please refer to the litigation account agenda item, which the Staff reports on each spring.

38. <u>Lower South Platte Water Management and Storage Sites Investigation and Sustain Study</u>			
Authorization: HB 00-1419		Grant Amount:	\$140,000
SB 01-157			<u>\$500,000</u>
		Total	\$640,000
Contract No. C153904 P		Previous Disbursements:	<u>\$140,000</u>
Av		Available Balance:	\$500,000
		Current Disbursements:	0
Endin		g Balance	<u>\$500,000</u> \$
Water Source: South Platte River		Project Type: Multi-Use Water Planning	
L Location: Logan and Sedgwick	Pro	Project Manager: Suzanne Sellers	
Sponsor: CWCB		Beneficiary: Statewide or Individual Water User Group depending on project characteristics/operating rules	

In the summer of 2000, the Colorado Water Conservation Board (CWCB) acting through the Water Supply Protection Section, completed a Reconnaissance Level Study of Water Management and Storage Sites in the lower South Platte River. The initial results of the study indicated several potential projects, which warranted future investigation and the CWCB authorized funding to conduct a feasibility level study of these "preferred alternative(s)", and if warranted, to complete an engineering design of the selected alternative(s).

The overall purpose of the project is to identify water management and storage options in the lower South Platte River that could facilitate Colorado's management of South Platte flows, including: 1) coordination with ground water recharge projects for in-state beneficial uses, water rights administration and South Platte River Compact administration; and 2) providing benefits for biological species of concern in Colorado and for participation in the Platte River Recovery Implementation Program.

Shortly after CWCB's authorization of the project, staff and management were approached by representatives of the Ground Water Appropriators of the South Platte (GASP), one of the potential beneficiaries of a future project, and were asked to delay the feasibility study because of a pending water right filing. The sensitivity of the water right filing and GASP's desire to implement one of the alternatives identified in the reconnaissance study lead staff and management to conclude that it would be prudent to delay implementation of the feasibility study.

Significant changes to the State Engineers authority to administer ground water diversion (Senate Bill 73) have dramatically changed water management in the South Platte River. While GASP was successful in acquiring land for one of the physical storage sites, they have experienced significant impacts from S.B. 73. As a result, GASP is no longer a viable entity. Former members of GASP and other water management interests have formed the Ovid Reservoir Company, but it is uncertain whether the new company will be able to complete the project. The Ovid Reservoir Company obtained a grant

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from the Water Supply Reserve Account, South Platte River Basin Roundtable to determine if some of the financial, engineering, and legal hurdles can be overcome. The Ovid Reservoir Company is pursuing these options and has met with CWCB staff several times, within the last three years, to explore the best options for proceeding with the construction of Ovid Reservoir.

The location of the reservoir site continues to offer potential advantages to address water user and endangered species issues/needs. Given the complexity of the problem and the need for additional water management options, Staff recommends that the current authorization remain in place to allow coordination with the Ovid Reservoir Company's other work associated with the potential reservoir. Staff also intends to coordinate with the CWCB's new Board member from the South Platte Basin as to how best to proceed in the use of these funds.

39. CWCB – Imaging System Project

Authorization: SB 99-173				Grant Amount:	\$270,000
HB 02-1152					\$150,000
SB 03-110				\$150	,000
HB 04-1221				\$145	,000
SB 05-084				\$275	,000
Total					\$990,000
Contract	No.	PO100334 *	P	Previous Disbursements:	\$842,195
	Av			Available Balance:	\$147,805
				Current Disbursements:	\$ 8,832
	Endin			g Balance:	\$138,973
Water Source:	N/A	Project		Type:	Imaging System
Location:	Denver	Pro		ject Manager:	Susan Lesovsky
Sponsor:	CWCB	Be		eneficiary:	CWCB

In 1999, the General Assembly authorized \$270,000 under SB99-173, Section 8, for the CWCB's participation in the Department of Natural Resources' Electronic Document Imaging System, which corresponds with the statewide transition to electronic imaging of documents. CWCB's purpose of acquiring an imaging system was (1) to make information easily accessible to staff and the public, and (2) to minimize the amount of office space required to store paper records.

The accomplishments of the CWCB Imaging System Project during Fiscal Year 2012 concentrated on system operating and maintenance.

40. Purgatoire River Channel Capacity and Improvement Study

Authorization: HB 08-1346				Grant Amount:	\$50,000
P				Previous Disbursements:	\$25,000
Contract No.	09000000010 *			Available Balance:	\$25,000
				Current Disbursements:	0\$
	Endin			g Balance:	\$25,000
Water Source:	Purgatoire River	Project Type:	Study		
Location:	Trinidad Dam	Project Manager:	Steve Miller		
Sponsor:	CWCB/US Army Corps of Engineers	Beneficiary:	PRWCD Water Users		
	Purgatoire River WCD (PRWCD)				

This project is being done in two phases with the PRWCD as the lead sponsor. The goal of Phase 1, for \$25,000 was to determine the volume of reservoir flood releases that could be safely passed through the PRWCD service area, and to identify remedial actions that could improve channel capacity to reduce

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flood damages during flood operations while also protecting downstream water rights in Colorado and Kansas. The Phase 1 analysis indicated that the channel is not as degraded as originally feared and flows as high as 5,000 cfs. can be routed through the district with minimal problems

Phase 2 funds were initially intended to be used to mitigate serious capacity problems that might be identified in Phase 1. With the minimal flood hazard risk found in Phase 1, it was determined to use the remaining funds for riparian restoration efforts in the modeled reaches of the Purgatoire which will provide conveyance improvements at lower flows. CWCB entered into an agreement with the PRWCD to assist in channel improvements in the vicinity of the City of Trinidad using the Phase 2 funds. The project, with multiple sponsors and participants, will remove minor channel and streambank obstructions and includes native revegetation and improved river corridor access. The District is still pursuing these activities and coordinating with the Corps of Engineers for necessary review and permits. These funds have not been utilized to date, but are expected to be expended during FY2012-13.

41. South Platte River Decision Support System

Authorization	: SB 99-173	Grant	Amount: \$	100,000
SB	01-157	\$		2,000,000
HB	02-1152	\$		2,000,000
HB	04-1221	\$		2,500,000
SB	05-084	\$		1,500,000
HB	06-1313	\$		2,000,000
HB	08-1346	\$		1,000,000
SB	09-125	\$		<u>150,000</u>
Total			\$11,250	,000
Contract No.	C153953 *	Previous Disbursements:	\$	<u>9,516,797</u>
Available Balance:			\$	1,733,203
Current Disbursements:			\$	<u>66,809</u>
Ending Balance:			\$	<u><u>1,666,394</u></u>
Water Source: South Platte River				
Location: South Platte Basin				
Project Type: Decision Support System				
Project Manager: Ray Alvarado				
Sponsor: CWCB Beneficiary: Statewide Water Users				

The alluvial groundwater model for the basin has been completed and has been presented to a peer review committee in August 2011, with final documentation being completed by October 2012. The historical calibration of the lower South Platte surface water model identified several issues that need to be addressed under future modeling efforts, such as reservoir leakage and reservoir operations. It is anticipated that future contracts will be initiated for modeling other South Platte sub-basins in Fiscal Year 2012-2013.

42. Tamarisk Control Cost-Sharing Program

Authorization:	HB 08-1346	Grant Amount:	\$1,000,000
Previous Disbursements:			<u>\$ 507,745</u>
Available Balance:			\$ 492,255
Current Disbursements:			<u>\$ 298,864</u>
Ending Balance:			<u><u>\$ 193,391</u></u>

In Fiscal Year 2011-2012, grantees continued to make significant progress on implementing their control projects and most were completed and inspected by the completion target date of June 2012. Only a few projects have asked for and received a further time extension until December 31, 2012. The project status in the table below is based on work activities through June 30, 2012, but some expenditures for that period were not paid out until after July 1, 2012 and are thus not reflected in the ending balance

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shown above. As of August 31, 2012, it is estimated that approximately \$100,000 remains to be earned and disbursed. It appears that the CWCB funds have on average been leveraged with other funds at a ratio of 1:2 at a minimum, meaning each dollar from the CWCB has produced at least \$3 of control work. In May 2012, the General Assembly authorized an additional \$1 million for tamarisk control grants, which staff will manage as Round 2 of this program.

Control Project Grants				
App #	Applicant	Project Name	Grant Amount	Est. % Complete
NW2	City of Grand Junction	Watson Island Complex Restoration	\$100,000	75
SE3	Branson-Trinchera Cons. Dist.	Purgatoire River Watershed Riparian Restoration	\$100,000	100
NE4	Yuma County Pest Control Dist.	Republican River Watershed Riparian Restoration	\$100,000	100
SW3	The Nature Conservancy	Dolores Restoration	\$100,000	100
SW1	Ute Mountain Ute Tribe	Ute Mountain Tribe TRO	\$75,000	90
SE4	Sangre de Cristo RC&D	Upper Arkansas Watershed Riparian Restoration	\$75,000	65
NE1	Boulder County Parks & Open Space	Boulder County Collaborative TRO	\$85,000	100
NW1	Delta County Noxious Weed Program	Delta County River Restoration	\$40,000	100
NW3	Western Colorado Conservation Corps	Island Acres TRO	\$10,000	100
NE2	Sedgwick County Cons. Dist.	TRO Removal, Wildlife Approval	\$10,000	90
SW2	Dolores Cons. Dist.	McElmo Creek Tamarisk Removal	\$25,000	80
NE3	Weld County Weed Div.	TRO - Cache La Poudre River	\$30,000	100
SE1	Southeastern Colorado WCD	ARKWIPP Riparian Restoration	\$150,000	100
Science & Administration Projects				
	Tamarisk Coalition	Jan. 2010 Grand Junction Symposium		100
	Tamarisk Coalition	Reno Research Symposium		100
	Tamarisk Coalition	Technical services for grant administration	100	
	Sangre de Cristo RC&D	CSU Feasibility/Monitoring Study		90

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	Tamarisk Coalition	Salt Wash Monitoring & Demo		100
	CSU Weed Lab	Knapweed strategies for reveg areas		100

43. Water Planning Studies

Authorization : SB 99-173	Grant	Grant Amount:	\$225,000
SB 09-125			<u>\$100,000</u>
Total			\$325,000
Previous		Disbursements:	<u>\$196,374</u>
Contract No. C153889 *	Av	Available Balance:	\$128,626
Ending		Current Disbursements:	<u>\$ 13,033</u>
		Ending Balance:	<u>\$115,593</u>

Water Source: N/A	P	Project Type: Water Planning	
Location: Statewide		Project Manager: Ted Kowalski	
Sponsor: CWCB	B	Beneficiary: Statewide	

The Dolores Water Conservancy District (District), Ute Mountain Ute Tribe (UMUT), and CWCB are performing a joint reconnaissance level study to evaluate potential water supplies to serve the (UMUT). This will include the Totten Reservoir and the potential new construction of the Plateau Creek Reservoir to store approximately 21,000 AF of water. The study is a cost-share project between all parties. Harris Engineering, Durango, Colorado, was hired to conduct the study and has performed a considerable amount of work to-date. One of the potential water sources for the UMUT was Montezuma Valley Irrigation (MVIC) Company's Class B water under various storage scenarios. Unfortunately, MVIC and the District have recently resolved a lawsuit that was indirectly causing the above water study to be put on-hold. It is now anticipated that discussions with all parties will continue and the study can be completed.

44. Wild and Scenic Rivers Fund

Authorization: SB 09-125		Grant Amount:	\$457,754
Previous		Disbursements:	<u>\$ 57,753</u>
Available		Balance:	\$400,001
Contract No. C154161*		Current Disbursements:	<u>\$ 28,218</u>
		Ending Balance:	<u>\$371,783</u>

Water Source: Various	Project	Type: Study	
Location: Various		Project Manager: Suzanne Sellers	
Sponsor: CWCB		Beneficiary: Statewide	

Within Colorado, a number of river segments have been classified as eligible for "wild and scenic" designation by various federal agencies and the federal agencies are now considering whether these rivers should be classified as suitable for wild and scenic designation. In response, a number of stakeholder groups have formed to explore alternatives for resource protection that would include wild and scenic designation as well as many other options. These groups exist in the San Juan River Basin, the Dolores River Basin, the Upper Colorado River Basin, and the Lower Colorado River Basin. To date, funds have been used within each of these different basins for facilitators, informational studies, and other operating expenses. In 2009, the General Assembly passed legislation establishing a fund for this project that is automatically refreshed every July 1 up to \$400,000 for work in this regard. This work is ongoing, and will likely continue to use funds for the next several years. Staff will continue to draw down the money in the Wild and Scenic Rivers Study (below) until it is depleted while continuing to tap into the Wild and Scenic Rivers Fund. Since the Wild and Scenic River Study account is nearly depleted, this Wild and Scenic Rivers Fund is needed to fund

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ongoing work including the implementation of the Upper Colorado River Wild and Scenic Alternative Management Plan (endorsed by CWCBC in March 2011). The funds are also needed to support the San Juan Basin's ongoing stakeholder process on the Piedra and Animas Rivers; the San Juan Basin's basin-wide "Circle Back" process; as well as supporting the "A Way Forward" ("AWF") Implementation, Monitoring and Evaluation Plan for the Dolores River Basin.

45. Wild and Scenic Rivers Study

Authorization: HB 08-1346

P

Contract No. 09000000023 *

Endin

Water Source: Various Project

Location: Various

Sponsor: CWCBC

Grant Amount: \$400,000

Previous Disbursements: \$388,527

Available Balance: \$ 11,473

Current Disbursements: \$ 0

g Balance: \$ 11,473

Type: Study

Project Manager: Suzanne Sellers

Beneficiary: Statewide

Within Colorado, a number of river segments have been classified as eligible for "wild and scenic" designation by various federal agencies and the federal agencies are now considering whether these rivers should be classified as suitable for wild and scenic designation. In response, a number of stakeholder groups have formed to explore alternatives for resource protection that would include wild and scenic designation as well as many other options. These groups exist in the San Juan River Basin, the Dolores River Basin, the Upper Colorado River Basin, the Lower Colorado River Basin, and the Gunnison Basin. To date, funds have been used within each of these different basins for facilitators, informational studies, and other operating expenses. In 2009, the General Assembly passed legislation establishing a fund for this project that is automatically refreshed every July 1 up to \$400,000 for work in this regard. This work will likely continue to use funds for the next several years. Staff will draw down the money in this Wild and Scenic Rivers Study account until it is depleted, while also tapping into the Wild and Scenic Rivers Fund (above). Since this Wild and Scenic River Study account is nearly depleted, it is expected that these funds will be used within the next several months to fund work associated with implementation of the Upper Colorado River Wild and Scenic Alternative Management Plan (endorsed by CWCBC in March 2011). The Wild and Scenic Fund will be used to complete additional work.

46. Canal Modern and Radio Telemetry Demonstration Project

Authorization: HB 06-1313

Previous

Contract No. C150227

Current

Ending

Grant Amount: \$100,000

Disbursements: \$ 36,371

Available Balance: \$ 63,629

Disbursements: \$ 41,552

Balance: \$ 22,077

Water Source: South Platte River

Location: Logan County

Sponsor: CWCBC

Beneficiary

Project Type: Canal Modernization

Project Manager: Anna Mauss

: Statewide Water Users

Funding was awarded to the South Platte Ditch Company and project implementation began in April 2007, with the initial purchases of equipment and supplies. The objective of this project was to demonstrate the value of electronic control equipment with integral radio communications capability in managing the conjunctive operation of a surface diversion system, groundwater pumping, groundwater recharge, pumped augmentation flows and reservoir storage releases. The demonstration project featured radio/control equipment that provided real-time two-way communications capability plus local automated control capability. Project tasks were completed in three phases, that generally followed a progression from more basic functions, such as flow monitoring, on toward higher-level applications that included

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local automation and remote adjustment capabilities. Specific sites monitored included various points of measurement for canal surface diversions and end-of-system outflow points, recharge sites, and alternate point of diversion wells. Project participants received additional grant funding from other sources to increase the scope of the original project and were able to increase the number of telemetry; thereby gaining the additional benefit of more data collected and more efficient ditch operations. The project was completed in June of 2012 and the remaining funds were returned to the Construction Fund.

47. U.S. Bureau of Reclamation / State Land Board Rights-of-Way – Closed Basin Project

Authorization	:	SB 79-537	Grant Amount:	\$625,000
HB		00-1419		<u>\$188,000</u>
Total				\$813,000
Previous			Disbursements:	<u>\$637,611</u>
			Available Balance:	\$175,389
			Current Disbursements:	<u>0</u>
Contract	No.	PDANNC153421	Ending Balance:	<u>\$175,389</u>
Water Source:	Closed Basin	P	Project Type:	Right of Way Acquisition
Location:	San Luis Valley N. of Alamosa		Project Manager:	Vaughn McWilliams
Sponsor:	CWCB	B	Beneficiary:	State of Colorado

This project is the acquisition of rights-of-way (ROW) for the Closed Basin Project (Project) in the San Luis Valley. In Fiscal Year 2010, CWCB, the State Land Board and the Bureau of Reclamation (BOR) completed all of the conveyance documents for assigning the easements and ROW in the Project to the BOR. The Project was completed, with the final assignment of the easements and ROW being recorded by the BOR in September 2010. The remaining funds can be returned to the Construction Fund.

NOTE: *Severance Tax Trust Fund Operational Account Project Status begins on the following page.*

Severance Tax Trust Fund Operational Account

The following table summarizes the Severance Tax Trust Fund Operational Account projects monitored by the Colorado Water Conservation Board staff during the fiscal year. Details of the projects follow this summary.

<u>No.</u>	<u>Project</u>	<u>Project Manager</u>	<u>FY12 Amount</u>
Interstate, Federal, and Water Information Programs			
1	Intra-State Water Planning	Feehan	\$ 10,000
2	Recreation Project	Kowalski	\$ 80,000
3	Crop Coefficient for Alfalfa Grown in Arkansas Valley	Miller	\$ 75,000
4	Tamarisk Control Projects	Miller	\$ 25,000
5	Colorado River Basin Water Study	Kowalski	\$ 57,350
6	Water Tables	Kowalski	\$ 5,000
7	Groundwater Level Monitoring - Rural Douglas County	Moore	\$ 20,000
8	Irrigated Lands Refresh Project – 2010	Alvarado / Fritz	\$ 3,400
9	South Platte Decision Support System	Alvarado	\$ 22,000
10	Maintenance on CoAgMet Stations	Moore	\$ 2,000

Finance and Administration Programs

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11	Rio Grande Cooperative Project	Feehan	\$ 81,800
12	Inundation Mapping for SEO Projects	Russell / Edwards	\$ 59,050
13	South Platte Groundwater Data Collection/Instrument	Feehan/Alvarado/Moore	\$105,150
14	Principia Mathematica	Feehan/Alvarado/Moore	\$ 36,200
15	Hydro Investigation San Luis Creek & Rio Grande	Feehan/Alvarado/Moore	\$ 62,700

Stream and Lake Protection Programs

16	Instream Flow Program Case Management Support	Bassi / Baessler	\$ 38,200
17	Native Warm Water Fish in Dolores River Project	Bassi	\$ 50,000

Watershed and Flood Protection Programs

18	Multi-Objective Watershed Restoration Projects	Sturm	\$100,000
19	Flood Mitigation and Project Compliance	Houck	\$ 84,000
20	Chatfield Downstream Channel Improvement	Busto	\$115,000
21	FEMA Coordinator Matching Program	Houck / Prochno	\$ 35,600
22	Chatfield Reservoir Increased Water Level Simulation	Browning	\$ 16,800

Water Supply Planning, Drought, and Conservation Programs

23	Drought Planning and Response Implementation	Hutchins-Cabibi	\$ 60,100
24	Local Water Conservation Resource Tools	Reidy	\$ 40,450
25	CoAgMet Communications	Hutchins-Cabibi	\$ 49,450
26	Economic and Social Impacts Associated with Drought	Hutchins-Cabibi	<u>\$ 34,750</u>

Total Severance Tax Expended for FY 11**\$1,269,000****Projects:**

1. Int	<u>ra-State Water Planning</u>		
	Authorization: Long Bill		Grant Amount: \$10,000
Water	r Source: N/A	Project	Type: Conference
Lo	cation: Denver	Pro	ject Manager: Tim Feehan
	Sponsor: CWCB / CWC		Beneficiary: Statewide

These funds were used for sponsorship and a booth at the two Colorado Water Congress events.

2.	<u>Recreation Project</u>		
	Authorization: Long Bill	Grant	Amount: \$80,000
	Water Source: N/A		Project Type: Support Services
	Location: Statewide		Project Manager: Ted Kowalski
Sponsor:	CWCB	Beneficiary	: Statewide
	Contract No. 12000000061 *		

These funds were used for funding design work associated with the Relief Ditch restoration and reconstruction in the Gunnison River basin. The Relief Ditch structure created an impassable reach of the Gunnison River for fish and recreational boaters. This work will allow endangered and threatened species to have access to additional habitat. In addition, this work will allow recreational boaters to have access to additional downstream boating area, without having to portage around the Relief Ditch headgate.

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3. Crop Coefficient for Alfalfa Grown in the Arkansas Valley

Authorization:	Long Bill	Grant	Amount:	\$75,000
Water Source:	N/A	Project	Type:	Study
Location:	N/A	Project	Manager:	Steve Miller
Sponsor:	CSU	Beneficiary		: Local Water Users
Contract	No.	12000000013		

These funds were utilized for operation of the large weighing lysimeters at CSU's Rocky Ford Experiment Station for the twelve months of FY 2011-12. Use of Severance Tax funds was supplementary to earlier funding from the Litigation Fund, which will now be used during FY 2012-13 to complete and document the multi-year alfalfa crop coefficient study. During FY 2011-12, both lysimeters continued to collect data on alfalfa water use and plans were developed for the next crop cycle. In the spring of 2012, Kansas officials and consultants visited the site.

4. Tamarisk Control Projects

Authorization:	Long Bill	Grant	Amount:	\$25,000
Water Source:	Colorado River		Project Type:	Planning
Location:	Colorado River Basin		Project Manager:	Steve Miller
Sponsor:	CWCB	Beneficiary		: Tamarisk Coalition
Contract	No.	12000000071*		

In Fiscal Year 2011-2012, funds were used to support tamarisk control activities that were beyond the scope of the CWCB's TRO grant program as described below. Use of Severance Tax funds for these ancillary purposes helped assure that the bulk of these grant funds were provided to entities doing actual control work on the ground.

- A series of revegetation workshops was conducted over two days in the Arkansas Basin in June 2012 under the leadership of the Tamarisk Coalition. The cost was \$15,000 with some additional funding provided by several partners. These workshops provided practical techniques, demonstrated in the field, by leading revegetation experts from around the West. Attendees learned measures they could use on CWCB funded projects they were completing and now managing on their own. It is hoped that a similar series of workshops can be conducted on the West Slope in FY2012-13.
- Funding of \$5,000 through the Six Agency Committee based in California was provided toward the cost of the Seven Colorado River Basin States' study of tamarisk water consumption. A demonstration project where water use will be directly measured at a heavily instrumented site is being developed at the Cibola NWR in the Lower Basin.
- Funding of \$5,000 was provided to help sponsor the Tamarisk Coalition's 2012 Symposium held in Grand Junction this winter. Staff gave a presentation on the new Round 2 grant program, seeking input on revised grant criteria. Staff also participated in a workshop with practitioners and policy makers from throughout the West, encouraging cross-jurisdiction information and strategy sharing.

5. Colorado River Basin Water Study

Authorization:	Long Bill	Grant	Amount:	\$57,350
Water Source:	Colorado River		Project Type:	Planning
Location:	Colorado	Managers:		Ted Kowalski
Sponsor:	USBR	Beneficiary		: Local Water Users
Contract	No.	12000000074		

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These funds were utilized to assist in completing the Colorado River Basin Study, which is a joint planning study that is being conducted by the Bureau of Reclamation and the Colorado River basin states. This study was extended and the scope of the study was expanded to further explore the various options and strategies to meet future supply/demand imbalances.

6. Water Tables

Authorization:	Long Bill	Grant	Amount:	\$5,000
Water Source:	N/A		Project Type:	Conference
Location:	N/A	Project	Manager:	Ted Kowalski
Sponsor:	CWCB		Beneficiary:	Local Water Users

This funding was used to sponsor the Water Tables event that is Colorado State University's largest fund raiser for the CSU Archives. The CSU Archives supports the CWCB through document retention and restoration.

7. Groundwater Level Monitoring in Rural Douglas County

Authorization:	Long Bill	Grant	Amount:	\$20,000
Water Source:	N/A		Project Type:	Data Collection/Planning
Location:	Douglas County		Project Manager:	Andy Moore
Sponsor:	USGS		Beneficiary:	Local Water Users
Contract No.	12000000029			

This funding was used to extend the monitoring period for an existing WSRA-funded project (C150473) with the Rural Water Authority of Douglas County. For this project, the USGS has established a groundwater monitoring network of approximately 30 domestic and household wells throughout rural Douglas County. Water levels obtained from the monitoring network will aid in assessing the current water resource and provide the basis for long-term monitoring of the hydrologic system. In turn, the monitoring results will assist, if necessary, in the planning of an alternate, sustainable water supply for priority rural areas.

8. Irrigated Lands Refresh Project -- 2010

Authorization:	Long Bill	Grant	Amount:	\$3,400
Water Source:	N/A		Project Type:	Mapping
Location:	N/A		Managers:	Ray Alvarado/ Carolyn Fritz
Sponsor:	CWCB	Beneficiary	:	Statewide

Funding for this effort went towards an internship to help the student gain experience in mapping irrigated lands within Colorado and help in getting the mapping completed for 2010 imagery.

9. South Platte Decision Support System

Authorization:	Long Bill	Grant	Amount:	\$22,000
Water Source:	South Platte River		Project Type:	Decision Support System
Location:	South Platte Basin		Project Manager:	Ray Alvarado
Sponsor:	CWCB	B	Beneficiary:	Statewide Water Users
Contract No.	C154127			

These funds contributed to the lower South Platte surface water model which is in the midst of calibration. The historical calibration task was put on hold until several State Modeling changes and enhancements were implemented and tested. The lower South Platte surface water model under historical operations has been completed.

10. Maintenance on CoAgMet Stations

Authorization: Long Bill	Grant	Amount: \$2,000
Water Source: N/A		Project Type: Data Collection/Planning
Location: Various		Project Manager: Andy Moore
Sponsor: CWCBC	Beneficiary	: Statewide

The Colorado Agricultural Meteorological Network (CoAgMet) is a network of weather stations that provide data necessary for many water resources planning applications in Colorado. These funds were used for the operation and maintenance of four relatively new stations in the Upper Arkansas Basin.

11. Rio Grande Cooperative Project

Authorization: Long Bill	G	Grant Amount: \$81,800
Water Source: Rio Grande	P	Project Type: Study
Location: Rio Grande Basin		Project Manager: Tim Feehan
Sponsor: SLVIC	B	Beneficiary: Local Water Users
Contract No. 12000000034		

This Project examined how the Rio Grande and Beaver Park Reservoirs, if rehabilitated, could be operated in an integrated fashion to better manage both native and transmountain water supplies. It is thought that storage and releases of CPW water can be coordinated within and between the two reservoirs to improve streamflow, wetlands, riparian, fish and wildlife benefits while simultaneously optimizing the yield of basin water resources. It is also thought that coordinated reservoir operations will result in improved timing of water deliveries in the basin that will benefit all basin water users, including Department of Natural Resources ("DNR") agencies. If operations are effective, it is thought this can be done while maintaining the primary wildlife purposes of Beaver Park Reservoir and CPW's water rights portfolio. All efforts associated with the Project were complete by June 30, 2012.

12. Inundation Mapping for State Engineer's Office Projects

Authorization: Long Bill	G	Grant Amount: \$59,050
Water Source: Various		Project Type: Mapping Study
Location: Various	Managers:	Kirk Russell / Ryan Edwards
Sponsor: SEO	B	Beneficiary: Local Water Users
Contract No. 12000000053*		

These funds were for the preparation of flood inundation mapping for five different entities, totaling eleven dams. The effort included dam breach modeling to assess the extent of downstream impacts should the dam(s) fail. Deliverables included a letter report for the inundation mapping, digital files of the inundation limits, inundation maps and supporting hydraulic calculations prepared by a licensed professional engineer. All efforts associated with these tasks were completed by June 30, 2012.

13. South Platte Groundwater Data Collection and Instrumentation

Authorization: Long Bill	Grant	Grant Amount: \$105,150
Water Source: South Platte River		Project Type: Data Collection
Location: Sterling	Managers:	Feehan/Alvarado/ Moore
Sponsor: DWR		Beneficiary: Local Water Users
Contract No. 12000000077*		

This funding went towards the installation and data collection of groundwater data within the South Platte River Basin, more particularly around the Sterling area. The objective of the instrumentation and data collection was to try and understand the reason behind raising water level in the Sterling area.

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This was the initial step that is tied with HB 12-12 78 and SPDSS, which will be an ongoing focus of both the CWCB and DWR.

14. Principia Mathematica
Authorization: Long Bill G rant Amount: \$36,200
Water Source: N/A Pr oject Type: Groundwater Model
Location: N/A Managers: Feehan/Alvarado/ Moore
Sponsor: DWR Beneficiary: Local Water Users
Contract No. C155067

Work through this funded effort has completed numerous tasks to enhance, calibrate, and implement the RGDSS groundwater flow model. The work completed builds on the existing RGDSS groundwater flow model and incorporates the enhancements suggested by the RGDSS Technical Advisory Committee (Peer Review Team) and completed by Division of Water Resources Staff and consultants such as HRS Water Consultants, Inc.

15. Hydro Investigation San Luis Creek and Rio Grande Plaza Areas
Authorization: Long Bill G rant Amount: \$62,700
Water Source: Project Type:
Location: Managers: Feehan/Alvarado/ Moore
Sponsor: DWR B eneficiary: Local Water Users
Contract No. C155070

The work completed with these funds built on previous RGDSS investigations or enhanced the understanding of the basin hydrogeology in regions where work had not previously been completed. Exhaustive investigations of existing data were completed along with field work to acquire data where existing data was not available.

16. Instream Flow Program Case Management Support
Authorization: Long Bill G rant Amount: \$38,200
Water Source: N/A Pro ject Type: Admin Support
Location: N/A Managers: Linda Bassi / Kaylea White
Sponsor: CWCB B eneficiary: Statewide
Contract No. Various

These funds were used to retain a part-time paralegal to assist the Section with ISF case management, including organizing case files, tracking court deadlines, prioritizing case review, and drafting pleadings, memos, correspondence and other documents as appropriate. The CWCB is a party in approximately 175 active water court cases. In these cases, the Stream and Lake Protection Section staff is responsible for: (1) protecting the CWCB's water rights, (2) obtaining decrees for new ISF water rights; or (3) obtaining decrees for changes of acquired water rights to ISF use. This project enables staff to focus on the substantive aspects of water court cases, and to resolve more cases in a timely manner.

17. Native Warm Water Fish in Dolores River Project
Authorization: Long Bill G rant Amount: \$50,000
Water Source: Dolores River P roject Type: Planning
Location: McPhee Dam Pro ject Manager: Linda Bassi
Sponsor: Dolores WCD Beneficiary: Local Water Users
Contract No. 12000000004

These funds were used to assist the Lower Dolores River Working Group in forming a Implementation Team with the goal of protecting and enhancing the long-term viability of native fish

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populations in the Dolores River below McPhee Dam. The Implementation Team developed and produced an Implementation, Monitoring and Evaluation Plan, which details the specific actions that Implementation Team partners will take to ensure the enduring protection of roundtail chub, flannelmouth sucker, and bluehead sucker in the Dolores River. The Plan provides the framework for a coordinated, long-term resource management strategy that will protect native fish and that can provide a partial basis for an alternative to a suitability determination under the Wild and Scenic Rivers Act. The Implementation Team partnership is based on the premise of shared responsibility, and will proceed with respect for existing water rights and water allocations and the prior commitments imbedded in Dolores Project authorizations. Representatives of the Team will make a presentation to the Board on the Plan at its September 2012 meeting.

18. Multi-Objective Watershed Restoration Projects

Authorization:	Long Bill	Grant	Amount:	\$100,000
Water Source:	Various		Project Type:	Restoration Project
Location:	Statewide		Project Manager:	Chris Sturm
Sponsor:	CWCB	Beneficiary	: Local Water Users	
Contract No.	12000000019 *			

The Multi-Objective Watershed Restoration Program exists to augment funding for the Colorado Watershed Restoration Program (see Construction Fund – Non-reimbursable #26) and the Colorado Healthy Rivers Fund (Tax Check-off Program). It also exists to fund multi-objective projects in watershed protection, flood mitigation, and water supply of special interest to CWCB. Projects funded in Fiscal Year 2011 – 2012 include riparian re-vegetation/invasive removal on Boulder Creek, tamarisk removal in the Dolores River Watershed, two diversion dam reconstructions on the Manco s River, and channel restoration on the Eagle River near Edwards. This Program was also used to fund the CWCB Measureable Results Program (MRP). Long term survey sites were established to monitor restoration work completed on the Rio Blanco near Pagosa Springs, Middle Boulder Creek, and the San Miguel River. Staff strives to support qualifying watershed restoration projects throughout the entire state.

19. Flood Mitigation and Project Compliance

Authorization:	Long Bill	Grant	Amount:	\$84,000
Water Source:	N/A		Project Type:	Planning and Study
Location:	Various		Project Manager:	Kevin Houck
Sponsor:	CWCB		Beneficiary:	CWCB
Contract No.	12000000038 *			

Funds from this account were used for a variety of studies. Funds from this account were provided to Boulder County, Gunnison County, Elbert County, La Plata County, and Lake County to leverage local funds and other state funds to perform an all-hazard mitigation plan to address risks due to flooding and other natural hazards. Funds were also used to fund a levee assessment for the Rio Grande levee in the City of Alamosa; the City will use this information to determine needed actions to return its levee to compliance with federal flood protection standards. Funds were also provided to partner with many Front Range communities for the production of a video highlighting flood risk along the Front Range, including post-wildfire flood risks.

20. Chatfield Downstream Channel Improvement Projects

Authorization:	Long Bill	Grant	Amount:	\$115,000
Water Source:	South Platte River		Project Type:	Flood Project O&M
Location:	2 miles downstream of Chatfield Dam		Project Manager:	Joe Busto
Sponsor:	CWCB		Beneficiary:	Sheridan, Englewood, Littleton, Arapahoe County
Contract No.	12000000043 *			

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Funds were provided for an agreement with the Urban Drainage and Flood Control District (UDFCD) which was created to cost share in the design to modify drop structures in the Union Avenue to Oxford Avenue reach of the South Platte with the goals of public safety, fish passage, and recreation enhancement. Agreement No. 11-07.25 signed between the CWCB and UDFCD opened an account specific to this project. The total in this account is 75% UDFCD funding at \$297,000 and 25% CWCB funding at \$99,000 for a total project account of \$396,000 and the work is ongoing. State purchase order 12-48 was issued for \$16,000 to the South Suburban Parks and Recreation District to cost share in a State and US Forest Service grant that planted 225 trees out of the river channel and the project was completed. This work is mitigation for the ongoing local concern for the in-channel vegetation removal work required by the U.S. Army Corps of Engineers. The CWCB is trying to maintain compliance with the existing 1990 O&M Manual and Public Law 84-99 that keeps the state eligible for public flood assistance in the event the project needs to be repaired after a large flood event. A coalition of local governments, the UDFCD, and other local, state and federal stakeholders are working together to determine if this federal flood assistance program is appropriate and necessary and/or will conflict with the goals of the South Platte Working Group II that are trying to come to consensus on a balance of flood control, and environmental and recreational benefits.

21. FEMA Coordinator Matching Program

Authorization: Long Bill Grant
Water Source: N/A
Location: Costilla County
Sponsor: CWCB

Amount: \$35,600
Project Type: Matching Program
Managers: Kevin Houck/Jamie Prochno
Beneficiary: NFIP Interests

These funds are available to match the federal grant (75 federal / 25 non-federal) for the full-time position within the CWCB known as the Community Assistance Program (CAP) coordinator. This position works closely with FEMA and carries out the missions and objectives of the National Flood Insurance Program (NFIP) for Colorado. The CAP position is fully operational at this time and several highly successful workshops have been conducted in addition to the regular programmatic responsibilities and regular coordination with FEMA and local governments.

22. Chatfield Reservoir Increased Water Level Simulation Project

Authorization: Long Bill Grant
Water Source: South Platte Basin
Location: Chatfield Reservoir
Sponsor: CWCB
Contract No. 12000000084 *

Amount: \$16,800
Project Type: CWCB Initiative
Project Manager: Tom Browning
Beneficiary: EIS process / regional

These funds were used to contract with Tetra Tech, Inc. to produce poster-sized photographic and computer generated images, as well as a simulation video, to depict pre- and post-project conditions for the Chatfield Reservoir Reallocation project. There is a current study by the Corps of Engineers, in partnership with the State and multiple water providers, through a robust EIS process. The deliverables from Tetra Tech were successfully used during three large public meetings held in June 2012, at which roughly 200 participants viewed the information to better understand the project through visual simulations. The Contract has been completely finished, fully invoiced, and paid out.

23. Drought Planning and Response Implementation

Authorization: Long Bill Grant
Water Source: N/A
Location: N/A
Sponsor: CWCB Beneficiary
Contract No. 12000000005 *

Amount: \$60,100
Project Type: Drought Planning
Manager: Taryn Hutchins-Cabibi
: Statewide

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The 2010 Drought Mitigation and Response Plan laid out a number of implementation projects that would enhance drought mitigation, monitoring and response abilities throughout Colorado. This included: additional work on drought vulnerability and improved monitoring and forecasting.

The DART project or Drought Assessment for Recreation and Tourism was conducted in partnership with the University of Colorado Denver and evaluated the metrics used for assessing impacts on the tourism/recreation sector in the Colorado State Drought Mitigation and Response Plan, identified existing data and processes for drought management, and to make recommendations for improving drought impacts data collection, it was conducted from October, 2011, through April, 2012 in southwestern Colorado. Tourism/recreation is a major contributor to the economic and social well-being of communities across Colorado. At the same time, drought cycles consistently affect water and water supplies on a regular basis. Yet, perhaps because drought is a much more subtle type of hazard than other dramatic events, it is normally not associated with direct impacts on this important economic sector.

The project presents the findings from the survey, focus groups, and interviews, offering a model of stakeholder engagement for addressing drought/tourism/recreation linkages. Taken together, the findings suggest a distinct need for increased education, data collection, and the development of robust, integrated adaptive strategies for drought vulnerability reduction.

CWCB also worked with Dr. Klaus Wolter on a series of long term seasonal forecasts that play an important role in creating an early warning system for drought in Colorado. Dr. Wolter presented five times throughout the year at water availability task force meetings and CWCB board meetings.

24. Local Water Conservation Resource Tools

Authorization:	Long Bill	Grant	Amount:	\$40,450
Water Source:	N/A		Project Type:	Planning
Location:	N/A		Project Manager:	Kevin Reidy
Sponsor:	CWCB	Beneficiary	:	Statewide
Contract No.	C154199 *			

These funds were used for completing the Municipal Water Efficiency Guidance Document as well as to create the Municipal Water Efficiency Sample Plan. The Municipal Water Efficiency Guidance Document is a revision of the original guidance document created in 2005. The revision was necessary to update information, make the document more user-friendly and highlight new and innovative water conservation work that has been completed since 2005. The Municipal Water Efficiency Sample Plan was created directly from the Water Efficiency Guidance Document and is an excellent example of a water efficiency plan that a mid-sized municipality would create. It incorporates all required elements of water conservation statute that governs water conservation planning as well as laying out an easy to follow format. Both of these projects make up the first parts of a larger and much needed municipal water conservation planning toolbox being created over the next few years.

25. CoAgMet Communications

Authorization:	Long Bill	Grant	Amount:	\$49,450
Water Source:	N/A		Project Type:	Planning
Location:	N/A		Manager:	Taryn Hutchins-Cabibi
Sponsor:	CWCB/CSU	Beneficiary	:	Statewide
Contract No.	12000000060			

These funds were used to procure and install new modems on all CoAgMet stations that utilize cellular technology. The network consists of 6-7 remote automated weather stations that collect meteorological data necessary for estimating crop water use, crop health, pest and disease development. Increasingly, CoAgMet has become a key component in Colorado's drought monitoring efforts. As is

the case with all technology, changes are constantly occurring. Cellular communications system upgrades by Verizon (the primary communications system provider for the CoAgMet network has been proceeding and was making our current communications hardware obsolete. This funding assured that communications to the 67 station network remain intact with no data outages. Modems, cables and antennas were purchased for all stations requiring upgrades and were installed. Static IP addresses were assigned to all stations for the new method of a data transfer as opposed to the old technology that utilized voice service. These new modems come with the ability to share data plans between stations, which will allow for more real-time updates at key stations to support activities like aerial pesticide application or severe weather tracking.

Data provided by the CoAgMet network utilizing these communication upgrades can be accessed via <http://coagmet.colostate.edu>.

26. Economic and Social Impacts Associated with Drought

Authorization:	Long Bill	Grant	Amount:	\$34,750
Water Source:	N/A		Project Type:	Planning
Location:	N/A		Manager:	Taryn Hutchins-Cabibi
Sponsor:	CWCB/CSU	Beneficiary	:	Statewide
Contract	No.	12000000030		

Impacts of drought extend far beyond the immediate losses in revenue associated with reduced output levels. Estimates of drought impacts which only consider the direct, indirect, and induced production losses provide an incomplete, and potentially understated, picture of the true impacts. Despite this, few studies exist which provide insight into the impacts of drought beyond those associated with the immediate production impacts. This effort was intended to close this gap; using a combination of existing regional economic models and survey work to develop a more complete view of the impacts associated with the current drought.

The analysis was conducted in two phases: Phase One using regional economic models to develop estimates of the short-term economic impacts; Phase Two used surveys to collect data that were used to generate a better understanding of the longer term impacts of the drought.

The objective was to develop a better understanding of the immediate and longer term economic and social impacts associated with the 2011 drought. This study was conducted in partnership with the Colorado Department of Agriculture and will be repeated statewide for 2012.

STATE OF COLORADO

Colorado Water Conservation Board Department of Natural Resources

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John W. Hickenlooper
Governor

Mike King
DNR Executive Director

Jennifer L. Gimbel
CWCB Director

TO: Colorado Water Conservation Board Members

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

DATE: September 14, 2012

SUBJECT: **Directors Report – September 27/28, 2012 Board Meeting**
Finance Section – Design & Construction Status Report

The CWCB Loan Program has Substantially Completed nine (9) projects in Calendar Year 2012 as shown in Table 1. There are currently 48 projects authorized to receive loan funding totaling \$231 million. There are 39 projects currently under contract and in the Design and Construction phase totaling \$160 million.

The attached spreadsheet and report summarizes the current project status, including loan amount, construction schedule, and progress to-date.

TABLE 1

	Borrower	Project	County	Loan	Completed
1	Boulder White Rock Ditch Res Co	Panama Res Outlet Rehab	Boulder/Weld	\$2,864,164	1/1/12(a)
2	Louden Irrigation Canal & Res. Co.	Rist Benson Res. Rehab.	Larimer	\$663,610	4/1/12(b)
3	Farmers Pawnee Canal Co	Ditch Flow Control Struct	Logan	\$255,530	6/1/12
4	Seven Lakes Res Co	Railroad Crossing	Weld	\$772,842	6/1/12
5	Duel & Snyder Improvement Co	Diversion Structure Rehab	Morgan	\$109,053	6/1/12
6	Last Chance Ditch Co	Ditch Headworks Replacement	Weld	\$185,436	7/1/12
7	Lake Canal Reservoir Co	So. Gray Res. Rehab.	Larimer	\$393,900	7/1/12(c)
8	Jackson Ditch Co	Headgate Check Struct. Rehab	Larimer	\$81,810	7/1/12
9	Snowmass W&S Dist	Zeigler Res. Expansion Proj	Pitkin	\$2,873,804	9/1/12(d)
		Total		\$8,200,149	

Calendar Year 2012 has added or preserved 4,110AF of reservoir storage [(a) 2,600AF, (b) 150AF, (c) 1,120AF, (d) 240AF]

Colorado Water Conservation Board
Water Project Loan Program
Project Design and Construction Status Report

September 14, 2012

Applicant/Borrower or under Construction			Project		County	Amount	Size	Yield (AF)	(AF)	Status	Start	End	Status	PM
1	New Cache la Poudre Irrigation Company	Construct 2 New Reservoirs and Pipeline Inlet and Outlet Canal Rehabilitation	Weld	\$	7,200,000.00	4,500 AF	4,500	4,500	100%		Jun-05	Jan-14	99%	KR
2	Mancos Water Conservancy District	Reservoir Rehabilitation	Montezuma	\$	5,486,531.00	15,840 LF	9,000		75%		Jan-04	Jan-14	99%	KR
3	Upper Arkansas Water Conservancy District	Well Augmentation Project	Chaffee/Custer	\$	3,520,000.00	500 AF	500	200	100%		Jun-05	Jan-13	90%	KR
4	Union Ditch Company	Overland Reservoir Rehabilitation	Weld	\$	312,595.00	206 AF	206		75%		Sep-06	Jan-13	80%	KR
5	Overland Ditch and Reservoir Company	May Lateral Pipeline	Delta	\$	1,130,000.00	6,200 AF	17,000	971	50%		Permitting		0%	KR
6	Montezuma Valley Irrigation Company	Equalizer Reservoir Project	Montezuma	\$	5,292,400.00	5 Miles	128,000		100%		Nov-07	Jul-12	99%	KR
7	Plate Valley Irrigation Company	Greely Canal No. 3 Rehabilitation	Weld	\$	2,388,650.00	431 AF	52,401	431	100%		Nov-10	Jul-12	5%	KR
8	Greely Irrigation Company	Horse Creek & Prospect Reservoir Rehabilitation	Weld	\$	2,233,867.00	18,000 AF	18,000		90%		Feb-08	Jul-12	90%	KR
9	Henrylyn Irrigation District	Ditch Rehabilitation	Weld	\$	2,184,327.00	13,850 AF	13,850	3,000	100%		Nov-08	Jul-12	95%	RE
10	New Salda Ditch Company	Compact Compliance Pipeline	Chaffee	\$	365,620.00	300 L.F.	7,000		100%		Oct-09	Jul-12	90%	KR
11	Republican River Water Conservation District	Well Augmentation	NE Colo	\$	60,600,000.00	15,000 AF	15,000		100%		Aug-11	Jul-13	90%	KR
12	Ogilvy Augmentation Company	Zeigler Reservoir Water Management System	Weld	\$	1,010,808.00	60 AF	60		100%		Dec-08	Jul-12	95%	KR
13	Snowmass Water and Sanitation District	Milton Reservoir and Barr Lake Improvement Proj.	Pitkin	\$	1,952,805.00	1,800 AF	1,800		100%		Feb-10	Feb-12	99%	KR
14	Farmers Reservoir and Irrigation Company	Well Augmentation Project	Adams/Weld	\$	3,535,000.00	64,900 AF	125,000		100%		Oct-09	Jun-13	99%	KR
15	Lower Latham Reservoir Company	LEDE Ditch and Reservoir Rehabilitation	Weld	\$	3,811,573.00	5,705 AF	5,705		100%		Nov-09	Jan-13	85%	KR
16	Town of Gypsum	Old Dillon Reservoir Enlargement	Eagle	\$	2,689,731.00	685 AF	1,200	254	60%		Permitting		15%	KR
17	Town of Dillon	Augmentation Water Rights Acquisition Pipeline Project - Augmentation Retriming	Summit	\$	1,515,000.00	286 AF	321	140	100%		Sep-10	Jan-14	90%	KR
18	City of Monté Vista	Bowls No. 1 Dam Rehabilitation	Rio Grande	\$	1,693,770.00	321 AF	1,212		n/a		Oct-10	Jul-12	50%	KR
19	Fort Morgan Reservoir and Irrigation Company	Dry Gulch Reservoir Land Acquisition	Morgan	\$	1,494,800.00	15,840 L.F.	37,058		100%		Sep-10	Jul-12	99%	KR
20	Joseph W. Bowles Reservoir Company	Krohn Reservoir Dam Rehabilitation	Jefferson	\$	1,703,870.00	2,062 AF	900		100%		Aug-10	Dec-12	90%	KR
21	Pagosa Area Water and Sanitation District	Owl Creek Reservoir Rehabilitation	Archuleta	\$	11,217,060.00	35,000 AF	35,000	35,000	n/a		Nov-08	Mar-20	85%	KR
22	Supply Irrigating Ditch Company	Water Rights Purchase and Pipeline Installation	Boulder	\$	1,515,000.00	4,800 AF	4,800	400	95%		Jan-10	On-Hold	0%	KR
23	Owl Creek Reservoir Company	System Rehabilitation Project	Weld	\$	1,125,000.00	1,200 AF	1,200	1,200	99%		Jul-10	On-Hold	0%	TF
24	Penrose Water District	Riverside Reservoir Spillway Enlargement	Fremont	\$	8,844,570.00	30,624 LF	339		65%		Oct-10	Jan-14	20%	KR
25	Farmers High Line Canal and Reservoir Company	Ditch System Rehabilitation	Adams/Jefferson	\$	1,410,768.00	31 Miles	24,000		85%		Feb-11	Feb-14	100%	RE
26	Riverside Reservoir and Land Company	Lambert Ranch Water Rights Purchase	Weld	\$	2,838,100.00	64,000 AF	105,000		80%		Sep-10	Jan-13	0%	AM
27	Thunderbird W&S Dist	Canterbury Tunnel Repair	Chaffee	\$	186,345.00	3,250 LF	3,260		85%		Jul-10	Dec-12	80%	AM
28	Fisher Ditch Company	Lower Lone Pine Lake Enlargement Project	Douglas	\$	318,150.00	896 AF	55		100%		Oct-11	Jan-14	0%	RE
29	Parkville Water District	Raw Water System Improvements Project	Denver	\$	454,500	7,623 AF	7,623		95%		Sep-12	Dec-13	0%	RE
30	Crystal Lakes Water and Sewer Association	Orlando Reservoir Rehabilitation	Lake	\$	1,838,200.00	250 LF	1,086		100%		Jan-12	Jan-14	80%	KR
31	Big Elk Meadows Association	Outlet Works Modification Project	Larimer	\$	2,363,400	100 AF	10	100	80%		Apr-12	Apr-13	0%	RE
32	Two Rivers Water Company	NDIC Tunnel Repair Project	Boulder/Larimer	\$	272,700	109 AF	6		100%		Jan-12	Aug-13	40%	RE
33	Town of Georgetown	La Veita Dam Rehabilitation	Huerfano/Pueblo	\$	1,184,882	2,400 AF	6,800		90%		Jan-12	Jul-14	75%	AM
34	North Delta Irrigation Company	Spillway Replacement Project	Clear Creek	\$	2,976,975	208 AF	208		50%		Jan-12	Jul-14	0%	AM
35	La Veita, Town of	Ridgway Reservoir Micro Hydro Project	Delta	\$	808,000	1,500 LF	17,735		100%		Jan-12	Dec-12	90%	RE
36	Terrace Irrigation Co	Lone Pine & May Pipeline Improvements	Huerfano	\$	372,690	86 AF	209	17	100%		Oct-12	Oct-13	0%	AM
37	Tri-county Water Conservancy District		Conejos	\$	2,724,721	2,000 AF	15,340		100%		Jul-12	Jul-13	0%	AM
38	Montezuma Valley Irrigation Company		Ouray/Mont/Delta	\$	9,090,000	7 MW	35,000	2,000	75%		Jul-12	Dec-13	0%	KR
39			Montezuma	\$	339,600	\$340K	136,000		100%		Jul-12	Dec-12	50%	AM
Projects Not Under Contract														
a	Southeastern CO Water Conserv. District	Arkansas Valley Conduit	Crowley	\$	60,600,000	138 Miles	6,555				In Contracting			KR
b	South Metro Water Supply Authority	Raw Water Delivery - Capacity Purchase	Adams/Denver	\$	5,090,400	10,750 AF	10,750				In Contracting			KR
c	Lake Durango Water Authority	Source Water Supply Project	LaPlata	\$	2,525,000	309 AF	309				In Contracting			KR
d	Lake Canal Reservoir Company	North Gray Reservoir Rehab Project	Larimer/Weld	\$	116,625.00	75 AF	333				In Contracting			AM
e	Paradise Acres Homeowners Association	Dedicated Fill Pipe	Huerfano	\$	62,721	3700 LF	5				Will be Deauthorized 11/2012			AM
f	City of Trinidad	North Lake Dam Rehabilitation	Las Animas	\$	746,627	650AF	2,800	650			In Contracting			AM
g	McDonald Ditch Company	Ditch Division and Headgate Replacement	Rio Grande	\$	70,700	5,018AF	5,018				In Contracting			RE
h	Left Hand Reservoir Company	Shelter Pipeline Reservoir Enlargement	Boulder	\$	1,157,157						In Contracting			RE
i	Denver of Colorado Water Conservancy Dist		Park	\$	404,000						In Contracting			RE

Projects Not Under Contract

a Southeastern CO Water Conserv. District	Arkansas Valley Conduit	Crowley	\$ 60,600,000	138 Miles	6,555				In Contracting		KR
b South Metro Water Supply Authority	Raw Water Delivery - Capacity Purchase	Adams/Denver	\$ 5,090,400	10,750 AF	10,750				In Contracting		KR
c Lake Durango Water Authority	Source Water Supply Project	LaPlata	\$ 2,525,000	309 AF	309				In Contracting		KR
d Lake Canal Reservoir Company	North Gray Reservoir Rehab Project	Larimer/Weld	\$ 116,625.00	75 AF	333		75		In Contracting		AM
e Paradise Acres Homeowners Association	Dedicated Fill Pipe	Huerfano	\$ 62,721	3700 LF	5				Will be Deauthorized 11/2012		AM
f City of Trinidad	North Lake Dam Rehabilitation	Las Animas	\$ 746,627	650 AF	2,800		650		Will be Deauthorized 11/2012		AM
g McDonald Ditch Company	Ditch Division and Headgate Replacement	Rio Grande	\$ 70,700	5.018 AF	5,018				In Contracting		RE
h Left Hand Ditch Company	Allen Lake and Lake Isabelle Repair Project	Boulder	\$ 1,157,157						In Contracting		RE
i Cerver of Colorado Water Conservancy Dist	Snelter Pipeline Reservoir Enlargement	Paik	\$ 404,000						In Contracting		RE
	SubTotal =		\$ 70,773,230		25,770		725				

Grand Total = \$ 230,775,238
Reservoir construction projects involving storage: new, enlargement, dredging or removal of a SEO restriction = 858,154
48,938

Design & Construction Status Report

PROJECTS SUBSTANTIALLY COMPLETED IN CALENDAR YEAR 2012

1. Boulder White Rock Ditch and Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund

Water Source: South Platte River

Terms of Loan: \$2,864,164@3.45% for 30 yrs.

County: Boulder/Weld

Project Yield: 12,000 acre-feet

Project Type: Reservoir Rehabilitation

The Boulder White Rock Ditch and Reservoir Company delivers irrigation water to land in Boulder and Weld Counties. It diverts water from Boulder Creek in downtown Boulder through the Boulder White Rock Ditch and stores water in two of its facilities: Six Mile Reservoir and Panama Reservoir. Due to recent operational changes, the Company no longer exchanges water with nearby ditches and needs to improve the flexibility in its own system to meet its shareholder's needs. The Project includes a reservoir pump station at the Panama Reservoir outlet in order to use water stored in the reservoir that it was unable to access by a gravity outlet. The Company was approved for a loan increase in the amount of \$434,000. The construction was completed in 2010 and Substantial Completion was January 1, 2012.

2. Loudon Irrigating Canal and Reservoir Company – Rist Benson Reservoir Rehabilitation

Authorization: Severance Tax Fund

Water Source: Big Thompson River

Terms of Loan: \$263,610@3.5% for 30 yrs.

County: Larimer

Project Yield: 150 acre-feet

Project Type: Reservoir Rehabilitation

The Company owns and operates the Rist Benson Reservoir, which is on the west side of Loveland, Colorado. Since 2005, the Reservoir has been restricted to a gauge height of 10.0 feet due to seepage problems along the dam. The Borrower has repaired two sections of the embankment in previous years. This Project is the third phase of repairs and once completed will increase storage by 150 AF allowing for full storage of 491 AF. The rehabilitation involves excavating and re-compacting sections of the embankment, installation of a toe drain, and installing riprap on the upstream face of the dam. Construction was completed in June 2011. SEO acceptance letter was received and Substantial completion was April 1, 2012.

3. Farmers Pawnee Canal Company – Ditch Flow Control Structures

Authorization: Severance Tax Fund

Water Source: South Platte River

Terms of Loan: \$255,530@2.5% for 30 yrs.

County: Logan

Project Yield: 27,260 acre-feet

Project Type: Diversion Rehabilitation

The Farmers Pawnee Canal Company (Company) provides irrigation water to approximately 10,000 acres of land between Merino and Sterling, Colorado. It uses two separate structures to control flow in the Pawnee Ditch (Ditch). The first is a main diversion at the South Platte River. The second is a few miles down the Ditch and is used to adjust flow. The main diversion is a concrete rollover wall with vents to allow flushing of sand when opened. The secondary structure is currently controlled through the use of board style gates. Both structures are labor intensive and require monthly maintenance. To help with efficiency, the Company plans on replacing a portion of the main diversion with a new 12-foot radial gate. It also plans on replacing the board gates at the secondary structure with four 8-foot wide radial gates. Ransome Boone Excavating, Fort Morgan, Colorado has completed the ditch control structure. The Company recently completed improvements to their diversion structure and was approved for a loan contract increase in March 2011 to automate the new gate. Work was completed in late 2011 and Substantial Completion was June 1, 2012.

4. Seven Lakes Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund
Water Source: South Platte
Terms of Loan: \$772,842 @ 2.95% for 30 yrs.

County: Weld and Larimer
Project Yield: 7,796 acre-feet
Project Type: Reservoir Rehabilitation

The Seven Lakes Reservoir Company (SLRC) and its sister company Greeley and Loveland Irrigation Company (GLIC), own and operate an extensive system of reservoirs and canals in the Loveland and Greeley area. GLIC owns 4 reservoirs (including Lake Loveland and Boyd Lake) and SLRC owns 5 reservoirs (including Horseshoe Lake, immediately adjacent to Boyd Lake.). SLRC uses GLIC's Big Barnes Ditch to fill Horseshoe Reservoir. Water is carried in the Big Barnes Ditch and discharges into Lake Loveland at a decreed rate of 1000 cfs. SLRC desired to remove and replace an existing deteriorated 5-tunnel railroad crossing structure with a new bridge in order to safely move 1,000 cfs from the Big Thompson River through Lake Loveland to Horseshoe Reservoir, thus removing a serious bottleneck in the flow path of water. The Project's design originally included a new pre-fabricated railroad bridge; however, due to complications with BNSF Railroad requirements the Company elected to bore under the railroad tracks. Work was completed by BT Construction in May 2012 and Substantial Completion was June 1, 2012.

5. Deuel and Snyder Improvement Company – Diversion Structure Rehabilitation

Authorization: Severance Tax Fund
Water Source: South Platte
Terms of Loan: \$109,053 @ 2.50% for 30 yrs.

County: Morgan
Project Yield: 4,950 acre-feet
Project Type: Diversion Rehabilitation

The Deuel and Snyder Improvement Company provides irrigation water to a 1,650 acre service area located in Morgan County. The Company operates a sand gate located on a South Platte River diversion structure. The sand gate is a vent section through the concrete rollover wall which is boarded up when the Company needs to divert water. Boards must be removed during the winter to allow excess sand (which builds up in front of the Company's diversion point) to wash down river. Currently, in order to remove boards and open the gate, a Company employee must walk several yards along the crest of the rollover wall to reach the sand gate. The Company elected to replace the existing board gates with a new radial gate. However, after further evaluation from the contractor and engineer it was determined that the foundation of the entire diversion structure has been compromised over time due to long term erosion. Work was completed by Ransom Boone in February 2012 and Substantial Completion was June 1, 2012.

6. Last Chance Ditch Company – Ditch Headworks Replacement

Authorization: Construction Fund
Water Source: St. Vrain Creek
Terms of Loan: \$185,436 @ 4.65% for 30 yrs.

County: Weld
Project Yield: 9,257 AF
Project Type: Ditch Rehabilitation

The Last Chance Ditch Company utilizes the Last Chance Ditch to supply water to its 14 shareholders for irrigation and gravel company operations. The existing headworks of the ditch consisted of a wooden structure with dual gates that had been in place since the early 1900's. The headgate had been rehabilitated numerous times over the years and the annual maintenance and reliability was a growing concern. The Project included the replacement of the existing headworks with a reinforced concrete structure with dual headgates and an overshot gate. Work was completed by Concrete Structures, Inc. in May 2012 and Substantial Completion was July 1, 2012

7. Lake Canal Reservoir Company – South Gray and Gray No. 3 Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: Box Elder Creek
Terms of Loan: \$433,000@3.15% for 30 yrs.

County: Larimer/Weld
Project Yield: 1,120 AF (165 AF new)
Project Type: Reservoir Rehabilitation

The Lake Canal Reservoir Company planned improvements that include: 1) the installation of toe drains on the South Gray dam 2) the breaching of Gray No. 3 dam including erosion protection and access road realignment. The Project is necessary to address a SEO Dam Safety hazard and avoid the potential for a reservoir storage restriction. The South Gray Reservoir dam has excessive seepage along a major portion of the dam. Gray Reservoir No. 3 is restricted to zero storage by the SEO due to the poor condition of the dam and outlet works. The Company received a court decree allowing the storage in No 3 to be moved to other locations. Construction was completed in the fall of 2011 and Substantial Completion was July 1, 2012

8. Jackson Ditch Company – Headgate Check Structure Rehabilitation Project

Authorization: Construction Fund
Water Source: Cache la Poudre River
Terms of Loan: \$124,533 @ 3.60% for 30 yrs.

County: Larimer
Project Yield: 5,500 AF
Project Type: Ditch Rehabilitation

The Ditch Company was approved for a loan for rehabilitating its check dam structure on the Cache la Poudre River. The river split and flowed around an island just upstream of the Company's diversion headgate. When flows were particularly low the structure was utilized to convey flows to the east side of the island where they could be diverted through the headgate. The concrete check dam was in place since the 1960's and had recently fallen into disrepair, preventing the Company from diverting its most senior water rights at times. The Company removed the existing structure and replaced it with a new concrete structure. Work was completed in the summer of 2012 and Substantial Completion was July 1, 2012

9. Snowmass Water and Sanitation District – Ziegler Reservoir Expansion Project

Authorization: Construction Fund
Water Source: Snowmass Creek
Terms of Loan: \$2,873,804@4.75% for 20 yrs.

County: Pitkin
Project Yield: 240 AF
Project Type: Reservoir Construction

The District was approved for a loan to enlarge Ziegler Reservoir that it purchased in 2008. Prior to that, it did not have a useable raw water storage facility. The District purchased the reservoir to enlarge it from 57 AF to 240 AF. It will allow the District to regulate flows and provide a supply during times of diminished stream flows. The CWCB previously approved a loan to the District in May 2009 to construct the pipeline to deliver water to and from this reservoir. The reservoir expansion plans were submitted to the State Engineers Office in November of 2010. Hudick Construction Company completed the dam construction in the fall of 2011 and Substantial Completion was September 1, 2012

PROJECTS UNDER CONTRACT and CURRENTLY UNDER DESIGN/CONSTRUCTION**1. New Cache La Poudre Irrigation Company – Reservoir Construction**

Authorization: Construction Fund	County: Weld
Water Source: South Platte	Project Yield: 4,500 acre-feet
Terms of Loan: \$7,200,000 @ 2.50% for 30-years	Project Type: New Reservoir

The Company provides irrigation water to a 35,000-acre service area. This project will provide water storage to equalize ditch flows and improve efficiency and the reliability of the irrigation system, and to meet future demands. The project involves the construction of three reservoirs near Barnesville, totaling 4,500 acre-feet of storage. Additionally, 8,200 feet of pipeline will be installed. The Barnesville Reservoir project was awarded to Barker Construction, Fort Collins, Colorado and has been completed and received final SEO approval. The Company received approval of a loan increase in Sept. 2007. The project will remain open until the land purchased to construct Cornish Reservoir is paid off in 2021.

2. Mancos Water Conservancy District - Canal Rehabilitation

Authorization: Severance Tax Perpetual Account	County: Montezuma
Water Source: West Mancos River	Project Yield: 9,000 acre-feet
Terms of Loan: \$5,486,531 @2.80% for 30-years	Project Type: Canal Rehabilitation

The Mancos Water Conservancy District supplies irrigation and municipal water within a 13,496 acre service area. The District's carriage facility is over 50-years old and the U.S. Bureau of Reclamation has recommended rehabilitation of the inlet and outlet canals. The project is to rehabilitate inlet and outlet canals to the Jackson Gulch Reservoir and to replace its operational shops and headquarters. The District completed the rehabilitation of a critical portion of their ditch system in 2009, involving the construction of retaining walls and access road along the ditch. Ditch rehabilitation was completed in October 2011.

3. Upper Arkansas Water Conservancy District – N. Fork Reservoir Rehabilitation

Authorization: Severance Tax Fund	County: Chaffee/Custer/Fremont
Water Source: N. Fork of S. Arkansas	Project Yield: 500 acre-feet
Terms of Loan: \$3,520,000 @ 3.50% for 30 yrs.	Project Type: Reservoir Rehabilitation

The UAWCD has operated the North Fork Reservoir since 1979 for domestic, municipal, industrial, recreational, and augmentation water supply. The reservoir is at elevation 11,400 feet and is located approximately 10 miles from Maysville on the North Fork of the South Arkansas River. The project involves replacement of the outlet gate, improved access, increased spillway capacity, seepage control, and raising the dam 15-feet to achieve a storage capacity of 500 acre-feet. The project is located on Forest Service property, which requires a special use permit and an environmental assessment prior to construction. The initial phase of construction was awarded to ASI, Buena Vista, Colorado, and completed in May of 2007. The District will not be pursuing enlargement of the reservoir, due to issues associated with the Forest Service and the NEPA process. The District is currently working on remote monitoring equipment for North Fork Reservoir, and the NEPA process to continue operating at historic levels.

4. Union Ditch Company – Well Augmentation Project

Authorization: Severance Tax Trust Fund	County: Weld
Water Source: South Platte River	Project Yield: 206 acre-feet
Terms of Loan: \$312,595 @2.50% for 320-years	Project Type: Well Augmentation

The Union Ditch Company provides irrigation water to an area of 5,500 acres east of the Town of LaSalle and south of Greeley. The Union Ditch Company has filed application for an augmentation plan to provide replacement water for 40 junior wells owned by the shareholders, formerly serviced by GASP. This project involves the development of 3 recharge ponds, placement of flow measurement devices, and headgate structures into the ponds. The ponds will be filled by gravity flow from the Union Ditch. Union Ditch Company is currently constructing one recharge pond at the Miller Feedlot Site with an accompany diversion structure on the Union Ditch.

5. Overland Ditch and Reservoir Company – Reservoir Rehabilitation

Authorization: Severance Tax Fund

Water Source: Cow Creek

Terms of Loan: \$1,130,000@ 2.5% for 30 yrs.

County: Delta

Project Yield: 17,000 AF

Project Type: Reservoir Rehabilitation

The Company's 120 members own and operate the Overland Reservoir, located in Delta County in the Gunnison National Forest at elevation 10,000-ft. This project involves increasing the current reservoir capacity from 6,200 AF to 7,171 AF, raising the spillway elevation 3.8 feet, installing toe drains, increasing the dam crest width, and additional embankment protection. The Overland Ditch Company shareholders at their August 2006 Board Meeting, approved increasing the capacity of the reservoir. The project is currently under design, with construction on-hold until fens can be addressed on-site. High altitude fens on the Grand Mesa have become a significant issue and staff is currently working with area water users, local wetland consultants, and the Army Corps of Engineers to address this problem on a regional permit basis.

6. Montezuma Valley Irrigation Company – May Lateral Pipeline

Authorization: Severance Tax Fund

Water Source: Dolores River

Terms of Loan: \$5,292,400@2.25% for 30 yrs.

County: Montezuma

Project Yield: 128,000 acre-feet

Project Type: Pipeline

The MVIC manages the delivery of irrigation water to a 46,000 acre service area. The Project includes installing approximately five miles of 36-inch pipe in the existing May Lateral Ditch alignment. The pipe installation will improve delivery and reduce leakage. The May Lateral water is diverted from the Dolores River and is routed through the McPhee Reservoir prior to delivery to shareholders. The new pipeline will carry approximately 18 cfs to the 105 shareholders that depend on the May Lateral for irrigation water. AgriTech Consulting has provided planning and preliminary design services. The Company has completed the installation of the entire pipe along the 5-mile project length. Substantial Completion is expected in 2013.

7. Platte Valley Irrigation Company – New Equalizer Reservoir Project

Authorization: Severance Tax Fund

Water Source: South Platte River

Terms of Loan: \$2,388,650@2.25% for 20 yrs.

County: Weld

Project Yield: 52,401 AF

Project Type: Reservoir Construction

Platte Valley Irrigation Company serves 14,800 acres of irrigated farm land in Weld County east of Platteville. The Company diverts water from the South Platte near Fort Lupton and shares a headgate with Farmers Reservoir and Irrigation Co (FRICO), as well as 10 miles of the Platte Valley Canal. The company intends to construct an equalizer reservoir on the ditch system to allow for more efficient management of the water, as well as additional measurement and control structures on their main ditch. The reservoir will have a junior storage right and direct water to PVIC's recharge program. In an average year the reservoir is expected to store 300 AF, with a 300 AF refill. Construction will consist of a 431 AF reservoir with a 14 foot high dam with a 48 inch RCP outlet/spillway. The project also includes relocation

of an existing section of Evans No. 2 Ditch below the split from the Platte Valley Canal, modification of the existing bifurcation structure, and construction of three new Parshall Flumes, as directed by the Water Court. The project is being designed by Smith Geotechnical, Fort Collins.

8. Greeley Irrigation Company – Greeley No. 3 Canal Rehabilitation

Authorization: Severance Tax Fund

Water Source: South Platte

Terms of Loan: \$2,233,867@2.85% for 30 yrs.

County: Weld

Project Yield: 18,000 acre-feet

Project Type: Canal Rehabilitation

The Greeley Irrigation Company (GIC) provides irrigation water to a service area of 2,367 acres in Weld County, generally within the City of Greeley and east of the City. GIC operates the Greeley Canal No. 3, constructed in 1870 by the Union Colony. About 1,100 acres of the 3,500 original irrigated acres have been subject to dry-up, and water converted to augmentation use. Present canal usage is roughly 1/3 City of Greeley, 1/3 agricultural irrigation, and 1/3 augmentation. 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. 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. The project is nearly complete. The Company is currently working on their SCADA system and the realignment and reshaping of various sections of existing channel.

9. Henrylynn Irrigation District – Horse/Prospect Reservoirs Rehabilitation

Authorization: Severance Tax Fund

Water Source: Denver/Hudson Canal

Terms of Loan: \$2,184,327@2.25% for 30 yrs.

County: Weld

Project Yield: 13,850 acre-feet

Project Type: Reservoir Rehab.

The District diverts water through the Burlington Canal Headworks on the South Platte River, extending 16 miles to and past Barr Lake. From Barr Lake the Denver-Hudson Canal continues 25 miles to Horse Creek Reservoir, and then continues another 25 miles to Prospect Reservoir. Horse Creek Reservoir was constructed in 1910, and is a High Hazard, 64 ft high earth fill dam 4800 ft long with a 200 foot wide earth-lined spillway. The decreed storage right is 19,515 AF, but normal storage is 18,747 AF. The project will provide a lining of the steel outlet works, install additional toe drainage, and resurface and re-grade the dam crest. Prospect Reservoir was constructed in 1914, and is a Significant Hazard, 43.5 ft high earth fill dam, 5,300 ft long with a 250 wide concrete/riprap spillway. The decreed storage right is for 7,660 AF, but the normal storage is 6,368 acre feet. The outlet works consist of a 48 in. concrete pipe that narrows to about 30 in. downstream of the control gate, due to previous re-lining projects. The reservoir has a restriction of 1.5 feet below the historic maximum stage, due to concerns about the stability of the downstream slope of the dam. The proposed project is a lining for the outlet works, and resurface and re-grade the dam crest. Zak Dirt Construction has completed reconstruction of outlet channel and has regraded the dam crest on Horse Creek Reservoir. The Prospect Reservoir outlet pipe has been lined and dam crest regrading is complete. The Company contracted with Zac Dirt in October 2011 to increase the dam width of Horse Creek with the remaining loan funds. Construction is expected to be complete in the spring of 2013.

10. New Salida Ditch Company – Ditch Rehabilitation

Authorization: Severance Tax Fund

Water Source: Upper Arkansas River

Terms of Loan: \$365,620@2.50% for 30 yrs.

County: Chaffee

Project Yield: 7,000 acre-feet

Project Type: Ditch Rehabilitation

The New Salida Ditch Company owns and operates the New Salida Ditch to deliver water to agricultural users from the Arkansas River through a diversion in Browns Canyon. The diversion is located 10 miles north of Salida and is approximately eight miles from its diversion to its end at Ute Gulch. In Browns Canyon, the Ditch runs parallel to the River for 1.25 miles. This section has historically been difficult for the Company to maintain and has suffered frequent breaks, resulting in costly repairs and the discharge of sediment into the adjacent river. The Company was cited by the Colorado Department of Health and Environment for a recent failure of the ditch in 2005. This project involves the installation of 3,200 feet of 42-inch pipe along the historically troubled ditch area. Project construction commenced in September of 2009 and will have a final phase completed in 2012.

11. Republican River Water Conservation District – Compact Compliance Pipeline

Authorization: Severance Tax Fund

County: N. E. Colorado

Water Source: Republican River

Project Yield: 15,000 acre-feet

Terms of Loan: \$60,600,000@2.0% for 20 yrs.

Project Type: Pipeline Construction

December 2002, Colorado entered into a Stipulation with Kansas and Nebraska to address the U.S. Supreme Court case of *Kansas v. Nebraska and Colorado*. Colorado agreed to develop a ground water model to determine stream flow depletions caused by well pumping in the Basin and to a five-year running average to determine compliance with the Republican River Compact. In 2007, the State had exceeded its allocation under the Compact by an average of 11,350 AF/yr. To solve the problem the District elected to acquire ground water rights with a historical consumptive of 15,000 AF/yr. This water will be delivered to the North Fork of the Republican River via a Pipeline to the stream gage at the state line to offset stream depletions. The \$60 million loan is for engineering, construction and water acquisition related to the Project. The loan represents approximately 85% of the estimated \$71 million total cost of the Project. Design was completed in 2009. The District continues to work on resolving compact issues with Kansas regarding the point of release of compact water on the North Fork of the Republican, which does not address the depletions on the South Fork of the Republican at the Colorado-Kansas state line and other related issues. The District did address issues of senior surface water users along the North Fork with the purchase of a 20-year lease from Yuma County Water Authority, who recently purchased the North Fork Water Rights under a separate CWCB loan contract. On June 19, 2009, the District purchased the \$49,000,000 Cure water rights with CWCB loan funds, which was a critical piece to the overall success of the compliance project. **UPDATE: Pipe and pump facilities are nearly complete. Substantial Completion is expected in 2013.**

12. Ogilvy Augmentation Company – Well Augmentation Project

Authorization: Severance Tax Fund

County: Weld

Water Source: South Platte River

Project Yield: 60 acre-feet

Terms of Loan: \$1,010,808@2.5% for 30 yrs.

Project Type: Augmentation

The Ogilvy Augmentation Company was established in 2005 to augment wells that operate under the Ogilvy Irrigating and Land Company service area. Approximately 1,400 acres of land are irrigated by the Augmentation Company members in an area north of Kersey. There are 17 wells in the Augmentation Company that operate under its temporary substitute water supply plan (SWSP). The SWSP is currently operated using leased water. A permanent water supply is necessary for the Augmentation Company to obtain a permanent augmentation plan. This project includes the purchase of water rights, construction of a recharge facility, constructing a storage reservoir, and installing monitoring devices. It will file for its permanent augmentation plan in 2009. The Company has purchased the water rights and has constructed the recharge facility. The Company is waiting on approval of their augmentation plan before proceeding with the construction of the storage reservoir.

13. Snowmass Water and Sanitation District – Zeigler Reservoir Water Management System

Authorization: Construction Fund

County: Pitkin

Water Source: Snowmass Creek

Project Yield: 1,800 acre-feet

Terms of Loan: \$1,952,805@4.25% for 20 yrs.

Project Type: System Improvements

The District's project involves the construction of a new delivery system; which includes the construction of a pump house, 1,400ft of pipe, a flow control building, installation of telemetry and electric power. The District diverts water for treatment from creeks upstream of Snowmass Village. The District purchased Ziegler Reservoir (aka Lake Deborah) in 2008 because they didn't have a raw water storage facility and to improve system reliability. The District plans to expand the Reservoir from its current 57 AF to approximately 225 AF (under a separate CWCB loan). The District currently serves approximately 3,500 full time residents and during the winter ski season an additional 12,000 residents. To regulate flows and provide a supply during times of diminished stream flows, a system to divert water to and pump water from the reservoir is required. The construction was completed in 2010 and Substantial Completion is expected in 2012.

14. Farmers Reservoir and Irrigation Company – Milton Reservoir and Barr Lake Improvements

Authorization: Construction Fund

County: Adams/Weld

Water Source: Beebe Seep Canal/Platte Valley Canal

Project Yield: 125,000 AF

Terms of Loan: \$3,535,000@3.7% for 30 yrs.

Project Type: Spillway

Farmers Reservoir and Irrigation Company operates a ditch and reservoir system extending 3,500 square miles along the Front Range corridor, from Golden to Kersey, Colorado. The system consists of four major reservoirs (Standley Lake, Marshall Lake, Barr Lake and Milton Reservoir) numerous smaller reservoirs, and approximately 400 miles of diversion and delivery canals. This loan request specifically relates to work to be completed at Milton Reservoir and Barr Lake. The Project includes three separate projects: Milton Reservoir Outlet Works (replacing the upstream outlet gate structure and a portion of the piped outlet works), Milton Spillway (enlarging the existing spillway), and Barr Lake Spillway (enlarging the existing spillway and raising the perimeter dike). These projects are nearly complete and complete Substantial Completion is expected in late 2012 or early 2013.

15. Lower Latham Reservoir Company – Well Augmentation Project – Phase III

Authorization: Construction Fund

County: Weld

Water Source: South Platte River

Project Yield: 5,705 acre-feet

Terms of Loan: \$3,811,573@2.75% for 30 yrs.

Project Type: Augmentation

The Lower Latham Reservoir Company is acquiring five shares of Lower Latham Ditch Company, for the purpose of providing augmentation water for existing shareholder wells. It is also constructing groundwater recharge facilities and other system improvements to utilize these shares and shares acquired in phases I & II of the project (both of which were financed by the CWCB). The Company provides augmentation water for 84 wells in Weld County by replacing out-of-priority pumping depletions. 39 of these wells were formerly in the GASP Augmentation Plan, and the remaining 45 wells are covered in the Augmentation Plan of Central Colorado Water Conservancy District's GMS. The Company is attempting to cover the former GASP wells, and supplement coverage of the GMS wells with their own augmentation plan. In 2003, the Company filed a permanent well augmentation plan that is pending. The Company has concluded that additional replacement sources are necessary to provide sufficient replacement water during extended drought years. A 2010 SWSP for the Company was revised and submitted to the SEO in December 2009. The Company has completed its water rights purchase and the construction of the augmentation ponds.

16. Town of Gypsum – LEDE Ditch and Reservoir Rehabilitation

Authorization: Construction Fund

County: Eagle

Water Source: Colorado River

Project Yield: 685 acre-feet (254 new)

Terms of Loan: \$2,689,731@4.5% for 30 yrs.

Project Type: Reservoir Rehabilitation

The Town 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. Dam design and permitting will continue through 2012. The Town received a WSRA grant for an increased enlargement of the reservoir. To Date: a supply side pipeline component of the Project above the Reservoir was completed in September 2010. **UPDATE: Town's EIS is open for public comment.**

17. Town of Dillon – Old Dillon Reservoir Enlargement

Authorization: Construction Fund

County: Summit

Water Source: Salt Lick Gulch

Project Yield: 286 acre-feet (140 new)

Terms of Loan: \$1,515,000@4.0% for 30 yrs.

Project Type: Reservoir Enlargement

The Town of Dillon is participating 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. The Town's participation cost is approximately 27% of the construction and 20% of the engineering costs. The Town and the County initiated a feasibility study in 1995. The Reservoir was originally constructed as a 46 AF raw water storage reservoir filled via the Dillon Ditch, which diverts from Salt Lick Gulch. The Reservoir site is southwest of the Dillon Reservoir Dam. In the summer of 2008, the SEO issued an order to drain the Reservoir due to concerns over the integrity of the north dam. The project will increase the reservoir capacity from 46 to 286 AF. The contractor failed to complete the project within the contract deadline. Construction was postponed due to the winter weather but has commenced again and the Project is expected to be completed in the summer of 2012.

18. City of Monte Vista – Augmentation Water Rights Purchase

Authorization: Construction Fund

County: Rio Grande

Water Source: Rio Grande River

Project Yield: 321 AF

Terms of Loan: \$1,693,770@4.0% for 30 yrs.

Project Type: Water Rights

The City of Monte Vista provides water to 4,300 residents and is located 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. Proposed 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 plans to add 321 AF of replacement water to its portfolio. In order to meet this need, the City is purchasing Anderson Ditch water rights and storing them in the Rio Grande Reservoir. The City executed the purchase of the Anderson Ditch rights and will soon file a water court application to enable the use of those rights to replace depletions as soon as possible. The Town has executed an agreement with the San Luis Valley Irrigation District for the purchase of storage space in the

Rio Grande Reservoir. CWCB has disbursed funds for part of the water purchase and the Reservoir storage space.

19. Fort Morgan Reservoir and Irrigation Company – Pipeline Project/Augmentation Retiming

Authorization: Construction Fund

County: Morgan

Water Source: South Platte River

Project Yield: 37,058 AF

Terms of Loan: \$1,494,800@2.9% for 30 yrs.

Project Type: Augmentation/Pipeline

The Company operates a ditch system that serves surface water to approximately 15,000 acres of irrigated land between Weldona and Brush, and operates a recharge and augmentation plan that provides augmentation water for approximately 90 irrigation wells. In addition, the Company has an operational agreement with Groves Farms, LLC, which is a family farming corporation also located in Morgan County, for a recharge/augmentation plan. The Company, with Groves Farms, plans to re-divert and re-time augmentation credits from the Company's more senior recharge projects at certain times when they are not needed for direct augmentation use, and to divert water under new junior water rights when available for recharge and augmentation use. The Project involves installing three miles of 24" pipe from the River to recharge ponds on Groves Farms' land; installing pumps; installing one augmentation well and pumping equipment near Groves' ponds to pump ground water back to the South Platte River; and installing seven recharge /augmentation ponds on Groves Farms' land. The Company has completed the project and is addressing some complications with the pumps ability to pump the specified amount of water to the recharge ponds during the summer months. The primary concern is that the screen in the river is not functioning as designed during sandy/silty river flows.

20. Joseph W. Bowles Reservoir Company – Bowles No. 1 Dam Rehabilitation

Authorization: Construction Fund

County: Jefferson

Water Source: Bear Creek

Project Yield: 2,062 acre-feet

Terms of Loan: \$1,703,870@4.65% for 30 yrs.

Project Type: Reservoir Rehabilitation

The Joseph W. Bowles Reservoir Company (Company) owns and operates Bowles No. 1 Reservoir, located in the southwest metropolitan area of Denver. The Company was formed in 1906 and currently has 50 shareholders who use the water for golf courses, parks, open space, and some individual ranches for irrigation water. The Company is applying for a loan to implement several repairs to correct dam-safety deficiencies and improve the long-term performance of Bowles Reservoir No. 1 Dam and to rehabilitate the deteriorating reservoir inlet ditch. The dam rehabilitation includes widening the crest, reconstructing the upstream slope, and installing a seepage collection and toe drain system on the downstream slope. Work on the inlet ditch includes removing trees, reconstructing the ditch cross section and alignment, placing slope protection in high erosion areas, and installing a flow control pipe that will provide for discharge of excessive ditch flows into an existing spillway and drainage structure. Dam construction project was completed in the summer of 2011. Ditch construction is expected to continue thru 2012.

21. Pagosa Area Water and Sanitation District – Dry Gulch Reservoir Land Acquisition

Authorization: Construction Fund

County: Archuleta

Water Source: San Juan River

Project Yield: 35,000 acre-feet

Terms of Loan: \$11,217,060@3.50% for 30 yrs.

Project Type: Land Acquisition

The District serves 9,500 residents in the 100 sq. mile District service area. Drought and demand from growth is requiring additional storage and of around 12,400 AF of storage by 2040. Growth projections estimate the need for a 35,000 AF reservoir to meet demand through 2100. Dry Gulch site is the only reasonably valued site available due to land development. Primary fill source will be pumping of San Juan River water to the reservoir. A CWCB loan will be used to purchase two parcels of land to begin the

process of meeting the needs of the District. The land is needed for both sizes of reservoir. Preliminary design and permitting is expected to start in 2008 and construction of the reservoir is projected to start in 2020. CWCB has disbursed just under \$10,000,000 in loan funds for land purchases to-date. **UPDATE: The District is considering closing out the loan and not purchasing the Laverty parcel as originally planned.**

22. Supply Irrigation Ditch Company – Knoth Reservoir Dam Rehabilitation

Authorization: Severance Tax Fund	County: Boulder – N.E. of Lyons
Water Source: St. Vrain Creek	Project Yield: 4,800 acre-feet
Terms of Loan: \$1,515,000@2.6% for 30-years	Project Type: Dam Rehabilitation

Supply Irrigating Ditch Company services approximately 8,500 acres of irrigated farmland in Boulder County between Lyons and Mead. Currently the water for irrigation is supplied by a direct flow decree and from the Beaver Park Reservoir (which is approx. 25 miles west of the start of the Supply Ditch near the continental divide). Supply Irrigating Ditch Company is in the process of acquiring a storage decree within Knoth Reservoir in exchange for the rehabilitation of the reservoir. This reservoir will give the Company some system flexibility, as this storage is significantly closer to users than Beaver Park Reservoir. The reservoir improvements include: construction of a spillway, removing vegetation from the embankment of the dam, lining select areas on the upstream dam face with a clay liner, placing riprap along the upstream dam face, enclosing an irrigation ditch within a pipe, and installing dam instrumentation. URS Corporation is currently working on the final SEO plans, which could be approved sometime this summer. Design changes and refinement of the original cost estimate have resulted in an increase to the overall project cost. The Company was approved for additional loan funds at the November 2009, for a new loan amount of \$1,515,000. The Company was recently informed by Little Thompson Water District that they will not be participating in the project, given the cost per acre-foot to complete the project. The Company is currently evaluating its options to continue with the project. Upon further review of the yield, the Company is unlikely to construct this project. This loan will be a candidate for deauthorization in November 2012.

23. Owl Creek Reservoir Company - Reservoir Rehabilitation

Authorization: Construction Fund	County: Weld
Water Source: Owl Creek Basin	Project Yield: 1,200 acre-feet
Terms of Loan: \$1,125,000 @2.75% for 30-years	Project Type: Reservoir Rehabilitation

Owl Creek Reservoir is located 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 granular material, and over the years has suffered structural damage due to seepage. 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 dam embankment, the construction of a controlled outlet structure, and the construction of an emergency spillway. The project was bid in the fall of 2003. The Reservoir Company is currently exploring its options increasing the dredging quantity to obtain its full storage decree of 1,750 acre-feet. The Company is considering applying for additional funds from the Board to achieve the full reservoir capacity. Additionally, the Company has amended the loan contract for a 1-year time extension to complete the work. The Company is also researching the possibility of utilizing Owl Creek Reservoir as storage facility from flows outside of Owl Creek. This could be accomplished by pumping water from the Larimer Weld Canal, located approximately ¾ of a mile downstream of the reservoir. The Company has received bids and is currently negotiating with Barker Construction, Fort Collins, Colorado to construct project for approximately \$1,250,000. 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. Staff has indicated to the Company that additional collateral will be required to proceed forward with a loan increase, which is currently being considered.

24. Penrose Water District – Water Rights Purchase and Pipeline Installation

Authorization: Severance Tax Fund

County: Fremont

Water Source: Arkansas River

Project Yield: 339 AF - Consumptive

Terms of Loan: \$8,844,570@3.25% for 30 yrs.

Project Type: Pump/Pipeline/Reservoir

The District provides domestic water to approximately 4,000 people with 1,700 taps in and around the Town of Penrose, with existing demand of 489AF per year. The District's water supply is a lease with the Beaver Park Water, Inc. (BPW) who 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. The Project includes the acquisition of 5/6th of the Pleasant Valley Ditch water rights. Water will be diverted through alluvial wells and pumped 6 miles through a 12-inch pipe to Brush Hollow Reservoir. Brush Hollow will be used to store the water through a storage agreement. Water rights were purchased in 2005 with bridge financing. A water court application was filed in 2006. Dist. closed on the Brush Hollow Reservoir storage purchase in November of 2011. **UPDATE: The District closed on the purchase of a well field near the diversion point on the Arkansas River.**

25. Farmers Highline Canal and Reservoir Co. – System Rehabilitation

Authorization: Construction Fund

County: Adams/Jefferson

Water Source: Clear Creek

Project Yield: 24,000 AF

Terms of Loan: \$1,410,768@4.65% for 30 yrs.

Project Type: Reservoir Rehabilitation

The Company was established in 1885 and it diverts water off of clear creek and it delivers water through a 31 mile canal running from Golden to Northglenn, through Arvada and Westminster. The Company has completed a canal evaluation and engineering planning study and identified a list of improvements it intends to do with the CWCB loan proceeds. These items include: replacement of corroded drain pipes, replacement of three siphons, headgate rehabilitation, SCADA control system installation at the headgate, diversion dam rehabilitation, and tree removal along the ditch. This work is expected to be completed between the fall of 2010 through 2014. Bids came back high due to the short construction window, plan to rebid this fall to give contractors larger construction window.

26. Riverside Reservoir and Land Company – Riverside Reservoir Spillway Enlargement

Authorization: Severance Tax Fund

County: Weld

Water Source: South Platte River

Project Yield: 64,000 AF (200 new)

Terms of Loan: \$2,838,100@2.5% for 30 yrs.

Project Type: Spillway

The Riverside Reservoir and Land Company owns and operates the 64,000 AF 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 irrigation water for approximately 50,000 acres. There is a storage restriction of 0.5 foot (200 AF of storage loss) due to the lack of a spillway per SEO Dam Safety Branch. In order to prevent further storage restrictions, the Project includes constructing an emergency spillway. Construction is expected in 2013. The engineer is re-evaluating design options with support from the SEO.

27. Riverside Ditch and Allen Extension Company – Ditch System Rehabilitation

Authorization: Construction Fund

County: Chaffee

Water Source: Arkansas River

Project Yield: 3,250 AF

Terms of Loan: \$186,345@2.75% for 30 yrs.

Project Type: System Rehabilitation

The Riverside Ditch and Allen Extension Company, located near Buena Vista, owns and operates the Riverside Ditch 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 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. Ditch lining phase of the project was completed in December 2010. Additional phases will be constructed in the fall of 2012.

28. Thunderbird Water & Sanitation District – Lambert Ranch Water Rights Purchase

Authorization: Construction Fund

County: Douglas

Water Source: Denver Basin Aquifer

Project Yield: 896 AF

Terms of Loan: \$318,150@4.25% for 20 yrs.

Project Type: Water Rights Purchase

The District provides potable water to the Indian Creek Ranch subdivision, consisting of 175 customers. The District plans to purchase 896 AF of Denver Basin Aquifer 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. Closing has been delayed to fall 2012 due to easement access to purchased wells.

29. Fisher Ditch Company – Ditch Infrastructure Project

Authorization: Construction Fund

County: Denver

Water Source: Clear Creek

Project Yield: 7,623 AF

Terms of Loan: \$454,500@4.0% for 30 yrs.

Project Type: Ditch Rehabilitation

The Ditch Company utilizes the ditch to supply water to its 28 shareholders for the purpose of irrigation, augmentation and industrial uses. The ditch has aging infrastructure that has become a burden and unreliable. The Project includes four system rehabilitation tasks: 1) headgate rehabilitation, 2) replacement of 650 LF of damaged CMP with RCP, 3) installation of a sand-out pipe and gate, and 4) burying 1,500 LF of open ditch with plastic irrigation pipe. Construction start delayed due to 404-permitting, construction start rescheduled for fall 2012.

30. Parkville Water District – Canterbury Tunnel Repair

Authorization: Construction Fund

County: Lake

Water Source: East Fork Arkansas

Project Yield: 1.086 AF

Terms of Loan: \$1,838,200@4.0% for 30 yrs.

Project Type: Tunnel Repair

The Parkville Water District provides municipal water for the Town of Leadville and surrounding areas. The District provides service to about 2300 taps. The Canterbury Tunnel has been a critical water supply source to the District for over 45 years. The Tunnel originally served as mine drainage; however, because it was of such good quality and reliability the District added it to its water supply system. About 15 years ago, the flow of water was significantly reduced due to a collapse in the tunnel. The project includes drilling a new well to access the functioning part of the tunnel and pumping the water to the District's distribution system. **UPDATE: The project is nearly complete.**

31. Crystal Lakes Water & Sewer Association – Lower Lone Pine Lake Enlargement Project

Authorization: Construction Fund
Water Source: N. Lone Pine Creek
Terms of Loan: \$2,363,400@4.0% for 30 yrs.

County: Larimer
Project Yield: 101 AF
Project Type: Reservoir Enlargement

The Association is proposing to enlarge Lower Lone Pine Lake from 10.5 AF to 100.5 AF. The increase will provide augmentation water for the Crystal Lakes subdivision, located in Larimer County. Crystal Lakes, established in 1969, is a private community with 1,656 lots. More than 800 residences are currently served by the Association. The residences derive their water supply from individual wells. The Crystal Lakes augmentation decree specifically links the allowable use of well water to the amount of augmentation water held in storage. The increased storage capacity will protect the community against possible well curtailments. Awaiting SEO approval, with RFP expected to be issued in July 2012.

32. Big Elk Meadows Association – Raw Water System Improvements Project

Authorization: Construction Fund
Water Source: W. Fork Little Thompson
Terms of Loan: \$272,700@4.5% for 30 yrs.

County: Boulder, Larimer
Project Yield: 109 AF
Project Type: Tunnel Repair

The Big Elk Meadows Association is requesting a loan for improvements to its raw water system which serves Big Elk Meadows, a 205-lot subdivision with 160 residences distributed across 460 acres. During SEO inspection of the Association's raw water system and review of its water accounting practices it was determined the outlet conduit from Meadow Lake Dam was collapsing and there was no way to control release rates. It was also determined that the Association has no accurate means to measure flows and accurately control reservoir releases, violating the terms of its 1995 decree regarding return flows. The SEO has required that the Association improve their raw water system and accounting protocol in order to function safely and in compliance with its decrees. Project improvements include: Meadow Lake Dam outlet replacement, raw water monitoring, and ISH Reservoir augmentation outfall. This project will provide the Association with a means to monitor and control reservoir releases while satisfying downstream obligations per their augmentation plan. Construction started in February 2012. ISH outfall and flow monitoring were completed in the spring of 2012. Meadow Lake to be drained in the fall of 2012 in order to start construction by October.

33. Two Rivers Water Company – Orlando Reservoir Rehabilitation

Authorization: Construction Fund
Water Source: Huerfano River
Terms of Loan: \$1,184,882 @2.50% for 20 yrs.

County: Huerfano, Pueblo
Project Yield: 6,800 acre-feet
Project Type: Reservoir Rehabilitation

The Company requested a loan to restore aging water infrastructure in order to support the company's agricultural production. Loan funds will be used to modify the spillway at the Cucharas Dam. This will bring the spillway up to SEO standards and will allow the company to store water and avoid a pending breach order. Loan funds will also be used to repair the outlet works at the Orlando Reservoir No. 2, to construct a new headgate on the Orlando Canal, and to complete the Cucharas Dam phase I rehabilitation. Construction on the Orlando project began in the winter/spring of 2012. To date, the Cucharas Dam phase I rehabilitation, Orlando Reservoir No. 2 outlet works have been completed. The headgate at the Orlando Canal is currently in the final design phase and bidding phase.

34. Town of Georgetown – Outlet Works Modifications Project

Authorization: Construction Fund
Water Source: Clear Creek
Terms of Loan: \$2,976,975 @ 4.5% for 30 yrs.

County: Clear Creek
Project Yield: 208 AF
Project Type: Reservoir Rehabilitation

The Town is located on Clear Creek, along the I70 corridor. 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 Lake operations, up to 500 cfs must be released so the Town can meet the terms of its augmentation plan. Construction is expected to begin in the spring of 2013.

35. North Delta Irrigation Company – NDIC Tunnel Repair Project

Authorization: Construction Fund	County: Delta
Water Source: Gunnison River	Project Yield: 17,735 AF
Terms of Loan: \$808,000 @ 3.10% for 30 yrs.	Project Type: Ditch Rehabilitation

The Company is responsible for supplying water to its 174 shareholders for the irrigation of 2,300 acres of land. The water is delivered through the North Delta Irrigation Canal. A two-mile stretch of the twenty-three mile canal is located along the steep hillside paralleling the Gunnison River, and includes three tunnels. The longest tunnel, 1,450 feet in length, experienced a collapse in July 2011, blocking deliveries to 94% of its shareholders. This project will repair the tunnel by removing the blockage, installing 1,500 LF of 54" fused HDPE and underdrain system. Additional funding for the project includes an \$800,000 WSRA grant approval from the Gunnison Basin Round Table. Construction started in April 2012. The tunnel has been cleared and the pipe installed. The ditch began flowing May 31, 2012. **UPDATE: Additional clearing was required in order to achieve adequate flows. Contractor is backfilling in the process of backfilling the tunnel access point and portals. Construction is expected to be complete by the end of 2012.**

36. La Veta, Town of – La Veta Dam Rehabilitation

Authorization: Construction Fund	County: Huerfano
Water Source: Cucharas River	Project Yield: 209 acre-feet
Terms of Loan: \$372,690 @ 3.00% for 30 yrs.	Project Type: Reservoir Rehabilitation

The Town of La Veta supplies its residents with potable water. The primary water source for the Town is from a diversion on the Cucharas River. The town stores raw water in two reservoirs (North Lake and South Lake) to supplement the river diversions in times of low flow and in periods of drought. North Lake reservoir has exhibited growing signs of distress over the years and the SEO issued a 2.5-foot restriction on the dam in March 2011. The restriction impacts the Town's storage capacity by 17 AF. The Project will repair the dam and outlet works and restore the capacity lost from the restriction. **The design was approved by the SEO in August of 2012. The Project is currently in the bidding phase.**

37. Terrace Irrigation Company – Spillway Replacement Project

Authorization: Construction Fund	County: Conejos
Water Source: Alamosa River	Project Yield: 15,339 AF
Terms of Loan: \$1,010,000 @ 1.75% for 30 yrs.	Project Type: Reservoir Rehabilitation

The Company, responsible for supplying irrigation water to its shareholders for irrigation of 9,300 acres of agricultural lands, is also 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. The Company relies on Terrace Reservoir to meet its irrigation demands throughout the later part of the irrigation season. The reservoir is currently under a restriction order from the SEO, reducing its available capacity by 2,000 AF. This project will replace the existing spillway and remove the SEO restriction order. Funding for this project includes grant money from WSRA (\$1,500,000) and the Summitville Natural Resource Damage (NRD) account (\$2,000,000). 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. Construction is expected to begin in summer/fall of 2012 and be completed by the end of 2013. **Update: Construction is underway and expected to be complete by ASI Contractors by the Winter/Spring 2012/13**

38. Tri-County Water Conservancy District – Tri-County Water Hydropower Project

Authorization: Construction Fund

Water Source: Cache la Poudre River

Terms of Loan: \$9,090,000 @ 2.0% for 30 yrs.

County: Uncompahgre River

Project Annual Yield: 22,600 MW

Project Type: Hydroelectric

The District is building a 8MW hydroelectric power generating facility at Ridgway Reservoir. The project is permitted through the “Lease of Power Purchase” process with the Bureau of Reclamation, allowing the incorporation of a hydropower facility into the existing outlet works of Ridgway Dam. The dam, constructed by the Bureau as part of the Dallas Creek Project, began storing waters of the Uncompahgre Basin in 1987. The District plans to sell power to the Tri-State Generation and Transmission and the City of Aspen/Municipal Energy Agency of Nebraska through a Power Purchase Agreement. Construction is scheduled to begin in the spring of 2013 and take approximately one year to complete, with energy production expected by October 2013.

39. Montezuma Valley Irrigation Company – Lone Pine & May Pipeline Improvements

Authorization: Construction Fund

Water Source: Dolores River

Terms of Loan: \$339,603 @ 2.75% for 30 yrs.

County: Montezuma

Project Yield: 136,039 AF

Project Type: System Rehabilitation

The Company, responsible for the delivery of irrigation water to a service area of over 30,000 acres, is planning on addressing issues that have become long-term maintenance concerns through this project including: trash and debris removal in delivery pipelines, pipeline pressure management, and water management issues. It is planning on installing screens on the Lone Pine and May pipelines; improving an existing pressure reducing valve on the Lone Pine pipeline; installing totalizing recording devices with solar panels at the delivery turnouts on the May pipeline; and implementing a new water accounting program for more accurate data collection on water deliveries. The Company is eligible to receive \$100,000 from the Bureau of Reclamation Water Conservation Field Services Program for the water accounting program.

PROJECTS APPROVED BUT NOT UNDER CONTRACT**a. Southeastern Colorado Water Conservancy District – Arkansas Valley Conduit (NOT UNDER CONTRACT)**

Authorization: Severance Tax Fund
Water Source: Arkansas – Fry Ark Project
Terms of Loan: \$60,600,000@3.25% for 30 yrs.

County: Pueblo, Crowley, Otero, Bent
Project Yield: 6,555 AF
Project Type: Raw Water Pipeline

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. The District is proceeding with NEPA permitting efforts with Federal funding assistance.

b. South Metro Water Supply Authority – Raw Water Delivery (NOT UNDER CONTRACT)

Authorization: Construction Fund
Water Source: South Platte
Terms of Loan: \$5,090,400@4.50% for 30 yrs.

County: Adams/Denver/etc.
Project Yield: 10,750 acre-feet
Project Type: Raw Water Delivery

South Metro Water Supply Authority (Authority) is made up of 13 independent water providers that serve communities in the southern area of metro Denver. Currently, the Authority members rely mainly on groundwater aquifers to supply the area's M&I needs. Because this source is nonrenewable, members have been working to identify new supplies of water and opportunities to share resources and infrastructure to reduce dependence on groundwater. The Authority intends to acquire capacity in the East Cherry Creek Valley Water and Sanitation District (ECCV) Northern Supply Pipeline as a means to convey renewable water supplies, recapture consumable return flows, and increase operational flexibility. The Pipeline is a 48-inch steel pipe that runs from Barr Lake to ECCV's service area (located to the east of Cherry Creek Reservoir). The capacity is 47 mgd. The Pipeline is a regional transmission line and will deliver water both to storage reservoirs and directly to Authority members who will then deliver the water through their distribution systems. The Authority is acquiring a total of 31.98 mgd of excess capacity from ECCV. The four members seeking funding from the CWCB will be acquiring 6.55 mgd of this total capacity. Final purchase and operating agreements are still under negotiation.

c. Lake Durango Water Authority – Source Water Supply Project (NOT UNDER CONTRACT)

Authorization: Construction Fund
Water Source: Animas River via Lake Nighthorse
Terms of Loan: \$2,525,000 @ 4.0% for 30 yrs.

County: La Plata
Project Yield: 309 AF
Project Type: Water Rights/Infrastructure

The 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 was approved for a loan and grant from CWCB to purchase 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. **The Authority continues contract negotiations with the La Plata West Water Auth. and the Tribes.**

d. Lake Canal Company – North Gray Reservoir Rehabilitation Project (NOT UNDER CONTRACT)

Authorization: Construction Fund

County: Larimer/Weld

Water Source: Box Elder Creek

Project Yield: 33 AF

Terms of Loan: \$116,265 @ 2.10% for 30 yrs.

Project Type: Reservoir Rehabilitation

The Reservoir Company plans to construct a new spillway on North Gray Reservoir. The reservoir is currently under a storage restriction by the Office of the State Engineer. The existing spillway is a corrugated metal pipe that has corroded through and will be removed/back filled. 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.

e. Paradise Acres Homeowners Association – Dedicated Fill Pipe (TO BE DEAUTHORIZED)

Authorization: Construction Fund

County: Huerfano

Water Source: Pass Creek

Project Yield: 5 acre-feet

Terms of Loan: \$62,721 @ 4.00% for 30 yrs.

Project Type: Pipeline Project

The Association is responsible for supplying the Paradise Acres subdivision with potable water. Paradise Acres is a 140-lot subdivision located 18 miles northwest of La Veta. The primary water supply for the community is from a groundwater (Houchin Well #3). The proposed 3,700 LF of 2" pipe will complete a direct fill line capable of transmitting raw water between the well and two storage tanks, isolating the raw water supply from the distribution network. Without the project the Association is unable to comply with a disinfection mandate from the CDPHE, subjecting the Association to fines and shut-down of their potable water distribution network, leaving the residences of Paradise Acres without water.

f. City of Trinidad – North Lake Dam Rehabilitation Project (TO BE DEAUTHORIZED)

Authorization: Construction Fund

County: Las Animas

Water Source: North Fork of the Purgatoire

Project Yield: 650 AF (Recovered Storage)

Terms of Loan: \$746,627 @ 2.50% for 10 yrs.

Project Type: Reservoir Rehabilitation

The City of Trinidad plans on rehabilitating the dam at North Lake Reservoir which is located approximately 40 miles west of Trinidad and is the primary source of municipal water for the City. Because of safety concerns, the Office of the State Engineer imposed a restriction on the dam. To avoid further restrictions, the City intends to address the dam safety concerns by constructing a new stability berm and replacing the spillway. The total project cost is estimated to be \$1,848,086. The City is receiving \$739,235 in grant funds from the Water Supply Reserve Account. **Update: Due to contracting difficulties, the City will not be executing a loan contract. This loan will be a candidate for deauthorization at the November 2012 meeting.**

g. McDonald Ditch Company – Project (NOT UNDER CONTRACT)

Authorization: Construction Fund
Water Source: Rio Grande
Terms of Loan: \$ 70,700 @ 2.5% for 20 yrs.

County: Rio Grande
Project Yield: 5,018 AF
Project Type: Ditch Rehabilitation

The Company diverts water from the Rio Grande to supply shareholders with irrigation water. The existing diversion structure was constructed from concrete rubble, dirt, wooden debris, and an old bridge pier. The diversion is inefficient, aging, and functions poorly. The headgate consists of a rusted single slide gate that is set back from the river and uses a section of an old metal fence as a screening device. Sediment and debris are prone to build up around the gate, decreasing its efficiency while increasing maintenance costs. This project provides an environmentally sensitive solution for increasing the efficiency of the ditch with a less maintenance intensive diversion and headgate. Construction is scheduled to begin in November of 2012.

h. Left Hand Ditch Company – Allen Lake and Lake Isabelle Project (NOT UNDER CONTRACT)

Authorization: Construction Fund
Water Source: Left Hand and St. Vrain Creeks
Terms of Loan: \$ 1,157,157 @ 2.45% for 30 yrs.

County: Boulder
Project Yield: 22,700 AF
Project Type: Dam Rehabilitation

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-armour it with rock rip-rap.

i. Center of Colorado Water Conservancy District – Smelter Pipeline Reservoir Enlargement Project (NOT UNDER CONTRACT)

Authorization: Construction Fund
Water Source: Michigan Creek
Terms of Loan: \$ 404,000 @ 2.5% for 10 yrs.

County: Park
Project Storage: 28 AF total (7 AF new)
Project Type: Dam Rehabilitation/Enlargement

The Center of Colorado Water Conservancy District is applying for a \$400,000 loan for the enlargement of Smelter Pipeline Reservoir. The total Project cost is estimated at \$565,800. The District has requested a loan for approximately 70% of the total Project cost. The enlargement of the reservoir, from 21 AF to 28 AF will increase the District's augmentation storage and enable the District to more efficiently implement its augmentation obligation across Park County. Included in the Project is the lining of the reservoir and modification of the dam outlet works to accommodate the increased capacity. Construction is scheduled for the summer/fall of 2012.

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STATE OF COLORADO

Colorado Water Conservation Board

Department of Natural Resources

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TO: Colorado Water Conservation Board Members

FROM: Anna Mauss, P.E.
Finance Section

DATE: September 18, 2012

SUBJECT: **Directors Report, September 27-28, 2012 Board Meeting**
Finance Section – Agricultural Emergency Drought (AED) Grant Program Update

John Hickenlooper
Governor

Mike King
DNR Executive Director

Jennifer L. Gimbel
CWCB Director

The Agricultural Emergency Drought (AED) Grant Program provides up to \$1 million annually for emergency drought-related water augmentation purposes to Colorado's agricultural water users. The program is open to agricultural organizations located in areas where a disaster emergency has been proclaimed due to drought. Grant funds are used to offset the added costs of leasing water during drought years.

All requests are reviewed by the AED grant committee. The committee is comprised of the Director of the CWCB, the State Engineer, the Commissioner of Agriculture and the Executive Director of the Department of Natural Resources.

To date, the CWCB has received three requests. The table below summarizes the requests.

SPONSOR	APPROVAL DATE	REQUESTED AMOUNT	AMOUNT APPROVED
Lower Arkansas Valley Water Conservancy District	9/5/2012	\$ 78,683.60	\$ 78,683.60
Arkansas Groundwater Users Association	9/4/2012	\$ 112,584.87	\$ 112,584.87
Colorado Water Protective and Development Association	<i>Pending</i>	\$ 346,178.00	\$ 293,186.63

FUNDING SUMMARY	
TOTAL AMOUNT REQUESTED FY13	\$ 537,446.47
TOTAL AMOUNT RECOMOMENDED FOR APPROVAL	\$ 484,455.10
TOTAL AMOUNT FUNDED FY13	\$ 191,268.47

STATE OF COLORADO

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John W. Hickenlooper
Governor

Mike King
DNR Executive Director

Jennifer L. Gimbel
CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Anna Mauss, P.E.
Finance Section

DATE: September 18, 2012

SUBJECT: **Directors Report, September 27-28, 2012 Board Meeting**
Finance Section – Current 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
Previously Approved Applications						
Boxelder Basin Regional Stormwater Authority	East Side Detention Facility	July 1, 2012	South Platte	The Authority (City of Ft. Collins, Larimer County, and Town of Wellington) is planning on constructing regional stormwater improvements to reduce the threat of flooding and remove areas from the FEMA floodplain in the Boxelder Creek basin. The detention facility will provide 1,800 AF of detention.	\$13,700,000	\$12,300,000
Boxelder Basin Regional Stormwater Authority	Larimer-Weld Canal & Boxelder Creek Crossing Structure	July 1, 2012	South Platte	Through this project, the Authority is planning on building a crossing structure to convey the 100 year flows from Boxelder Creek across the Larimer-Weld Canal.	\$2,200,000	\$1,980,000
Catamount Metropolitan District	Catamount Hydroelectric Project	March 1, 2012	Yampa/White	The District intends to add a 695kW hydroelectric facility to the existing Lake Catamount Dam.	\$4,600,000	\$4,140,000
Twenty Two Road Lateral Company	Ditch Replacement	September 1, 2011	Colorado	The Twenty Two Road Lateral Company is planning on replacing its aging concrete lined ditch with a buried pipeline. It expects to get additional funding through the NRCS Salinity Control Program.	\$500,000	\$500,000
Rio Grande Canal Water Users Association	Hydroelectric Project	September 1, 2011	Rio Grande	The Association is planning on developing a low head hydropower facility at its existing diversion dam on the Rio Grande River.	\$600,000	\$300,000

Eckhardt Farms Inc.	Water Rights Purchase	September 1, 2011	South Platte	Eckhardt Farms intends to purchase water from two ditch companies so that it can continue to farm. The farm land is in an area where wells have been shut off and the ditch rights will help ensure the continuation of agricultural production.	\$1,500,000	\$1,350,000
	To be presented to board at September 2012 meeting.					
Missouri Heights Mountain Meadows Irrigation Company	Ditch Lining Project	September 1, 2012	Colorado	This project involves lining one mile of ditch to prevent seepage losses. (Project to remain on list for one more year based on input from Company.)	\$450,000	\$405,000
Totals					\$23,550,000	\$20,975,000

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

LOAN PROSPECTS

Basin	Last Contact	BORROWER	PROJECT NAME	PROJECT COST	LOAN AMOUNT
South Platte					
		B.H. Eaton Ditch Co (Windsor)	Pipeline & Diversion Structure	\$1,000,000	\$1,000,000
		Louden Irrigation & Reservoir Co Ditch	Improvements \$500,000		\$500,000
		Greeley –Loveland Irrigation Co.	Augmentation Structure		\$500,000
		No Poudre Irrigation Co	Pump Station		\$5,000,000
		Town of Byers	Well & Pipeline		\$700,000
		Town of Johnstown	Kauffman Reservoir Purchase		\$5,000,000
	Apr-11	Boulder Left Hand Irrigation. Co	Ditch Piping (2012)		\$300,000
	Sept - 12	Bergen Ditch Company	Dam Rehabilitation		\$2,000,000
	Jan-11	East Larimer County Water District	Rigdon Storage Project		\$3,000,000
	Oct-11	NISP Participants	NISP		\$30,000,000
	Oct-11	Chatfield Reallocation Participants	Chatfield Reallocation Participants		\$40,000,000
	Dec-11	Pinehurst Country Club	Harriman Reservoir	\$5,000,000	\$500,000
	Feb-12	McKay Lateral	Ditch Lining Project		\$50,000
	June-12	Foothills Park & Recreation	Reservoir Expansion \$1,000,000		\$900,000
				TOTAL	\$89,450,000
Arkansas					
	Jan-11	Upper Arkansas WCD	Trout Creek Reservoir	\$3,000,000	\$3,000,000
		Cherokee Metro District	Wells and Pipelines	\$800,000	\$800,000
	Sep-11	Ditch and Reservoir company	Big Johnson Reservoir		\$8,000,000
	Aug-12	Town of Ordway	Reservoir Rehab		\$2,000,000
	Oct-11	Lower Arkansas Water Mgmt Association	Water Rights Purchase		\$7,500,000
	Oct-12	Highline Canal Company	Water Rights Purchase	\$4,500,000	\$4,100,000
	Feb-12	Colorado City Metro District	Beckwith Dam Repair		\$500,000
				TOTAL	\$25,900,000

San Miguel/Juan					
		Farmers Water Development Co	Gurley Reservoir Enlargement	\$5,000,000	\$5,000,000
	Feb-11	City of Ouray	Red Mountain Ditch Rehabilitation \$200,000		\$200,000
				TOTAL	\$5,200,000
Colorado					
		Lateral MC070 Inc.	NRCS Ditch Rehabilitation	\$200,000	\$140,000
		Highland Ditch Co	Ditch Rehabilitation Project	\$200,000	\$200,000
		Ian Carney - Felix Tornare	Polaris Reservoir Rehabilitation \$500,000		\$500,000
				TOTAL	\$840,000
Gunnison					
	Jul-11	Fire Mountain Canal & Reservoir Co.	New Reservoir		\$500,000
	Oct-11	Hinsdale County/Lake City	Lake San Cristobal Dam/Spillway		\$500,000
				TOTAL	\$1,000,000
Rio Grande					
	Mar-12	Fuchs Reservoir Company	Reservoir Rehabilitation		\$100,000
	Aug-12	San Luis Valley Water Conservancy District	Water Rights Purchase		\$500,000
	Sept-12	Rio Grande Water Conservation District	Water Rights Purchase		\$500,000
				TOTAL	\$1,100,000
Yampa					
				TOTAL	\$0

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

Recent inquiries:

North Poudre Irrigation Company – Reservoir Rehabilitation
 Lone Cabin Ditch and Reservoir Company – Reservoir Rehabilitation
 Farmers Reservoir Company – Measuring devices for ditch system
 Town of Aguilar - Well Drilling Project
 Santa Maria Reservoir Company – Reservoir Rehabilitation

**September 27-28, 2012 Board Meeting
Instream Flow and Natural Lake Level Program
Summary of Resolved Opposition Cases**

The Board's ISF Rule 8i. states that:

"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 and authorized the Attorney General's Office to enter into stipulations that protect the CWCB's water right:

(1) Case No. 2-09CW149 - Application of Parkville Water District

The Board ratified this statement of opposition at its May 2010 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicant's proposed change of water right and plan for augmentation does not injure the Board's instream flow water right on the East Fork Arkansas River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

The CWCB holds the following ISF water right 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	10.00	1/19/1977 A	Arkansas Headwaters	Lake

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

- Henceforth, 1.5 cfs of Applicant's Stevens and Leiter Ditch right will be divertable only at the Arkansas Well Nos. 1, 2, and 3, and 1.5 cfs of Applicant's Stevens and Leiter Ditch right will be divertable only at the Canterbury Well.
- The Canterbury well is a "straw" drilled into the old Canterbury tunnel which had collapsed near the portal. Now, instead of a surface diversion at the portal of the old tunnel, the "straw" will be administered as a well and is required to have an associated augmentation plan. Future pumping limits were imposed for consistency with historical use. Under this change of water rights, Parkville's instantaneous pumping from the Canterbury Well shall be limited to 1.5 cfs, monthly volumetric limits were also imposed.
- The augmentation source water is Twin Lakes on on-site reservoirs. The augmentation plan utilizes an administrative exchange which is not decreed but is identified in the decree.

(2) Case No. 2-10CW087- Application of Town of Palmer

The Board ratified this statement of opposition at its March 2011 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 substitution and exchange with water from the Tri-Lakes Wastewater Treatment Facility does not injure the Board's instream flow water rights on North Monument Creek by not replacing out-of-priority depletions in proper time, place, or amount. After conducting a site visit to Palmer Lake, Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

ATTACHMENT 5

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

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
2-80CW079	North Monument Creek	1	5/7/1980	Fountain Creek	El Paso

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 a previous stipulation with this Applicant, when Applicant is diverting water and/or storing water at the structures described in the decree under its augmentation plan, applicant shall, for the sole benefit of the Board's instream flow right, bypass to North Monument Creek for 4 consecutive hours in each 48-hour period an amount of water equal to the lesser of the available stream flow at such structures or 0.5 cfs. The operation of applicant's plan of augmentation decreed herein shall not be further curtailed or limited for the benefit of the Board's instream flow right as long as the water is bypassed by applicant in the amount and at the times described in this paragraph.

(3) Case No. 3-07CW060 - Application of City of Creede

The Board ratified this statement of opposition at its March 2008 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 do not injure the Board's instream flow water rights on the Rio Grande River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

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

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed C	ounty
3-83CW049	Rio Grande River	150/65	8/16/82 R	io Grande headwaters	Mineral

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

- Applicant was able to demonstrate that it owns the "first" 0.5 cfs of the 7.0 cfs decreed the Kanawha Ditch and Pipeline water right to be used in this plan for augmentation.
- In the event that the replacement water is insufficient in the future, Creede shall acquire additional sources of replacement water to be added to this plan by appropriate proceeding, or shall reduce and/or curtail its water usage as required. In the event that such sources of replacement are in excess of Creede's requirements, Creede may sell or lease replacement credits to others. Provided that the temporary use of such credits pursuant to lease shall be approved by the Division Engineer pursuant to statutory authority and any other use shall require Water Court approval.
- The plan for augmentation decreed herein will not supercede or amend the terms of the plan for augmentation decreed in Case No. 94CW31. Instead, it will operate conjunctively with the plan for augmentation decreed in Case No. 94CW31 so that the net stream depletion amount (i.e. consumptive use) from the first 1.1 cfs pumped individually or cumulatively from Creede Well No. 1 and Creede Well No. 2 will continue to be replaced by the plan for augmentation decreed in Case No. 94CW31. The net stream depletions from pumping Creede Well No. 1 and Creede Well No. 2 individually or cumulatively in excess of 1.1 cfs, up to a total cumulative pumping rate of 2.2 cfs, will be replaced by the plan for augmentation decreed herein.

(4) Case No. 4-07CW203(A) - Application of Skyland Metropolitan District

The Board ratified this statement of opposition at its March 2008 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 does not injure the Board's instream flow water rights on the East River and the Slate River by not replacing out-of-priority depletions in proper time, place, or amount. The Applicant's claim for an appropriative right of exchange, set forth in the Second Claim for Relief of the Application, has been bifurcated for a later determination. Thus, the ruling on that claim is reserved and no ruling is entered on that claim by this decree. Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCB's instream flow water right 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
4-83CW230 East	River	10	6/3/82	Gunnison River	Gunnison
4-80CW092C Slate	River	23/12	3/17/80	Gunnison River	Gunnison

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

- An Augmentation Pipeline will be used to deliver water from Lake Grant to the East River for augmentation and replacement purposes as set forth in Paragraph 4.3 D of the Decree. Details regarding the required location of the pipeline are described in the decree.
- When the Skyland East River Wells are not in priority, the Skyland District will replace the out-of-priority depletions from the Skyland East River Wells by different methods at different location depending on the location of the calling water right. Because the return flow locations and amounts vary depending on the use type and the portion of source water from various sources, the amount of replacement required to calling water rights will be calculated using several detailed formulas as documented in the decree.
- The decree clarifies which out-of-priority depletions are covered and which are not covered by this augmentation plan. It also limits out-of-priority depletions to the amount of replacement water available under this plan.

(5) & (6) Case Nos. 4-09CW186 and 4-10CW170 –Applications of Aldasoro Ranch Homeowners Company

The Board ratified these statements of opposition at its May 2010 and March 2011 meetings, respectively. The Board's main objective in filing the statements of opposition in these cases was to ensure that the Applicant's proposed change of water rights and proposed plans for augmentation do not injure the Board's instream flow water rights on Deep Creek and the San Miguel River by not replacing out-of-priority depletions in proper time, place, or amount. After several meetings and a site visit, Staff, in cooperation with the Attorney General's Office, have negotiated settlements 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
4-84CW434 Deep	Creek	4.0	7/13/1984	San Miguel	San Miguel
4-84CW427 San	Miguel River	6.5	7/13/1984	San Miguel	San Miguel
4-05CW154 San	Miguel River	4.0	1/25/2005	San Miguel	San Miguel
4-84CW429 San	Miguel River	20.0	7/13/1984	San Miguel	San Miguel
4-02CW277 San	Miguel River	93.0/61.0	1/23/2002	San Miguel	San Miguel

4-09CW186

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

- Demands and Depletions: Pursuant to previous decrees, this decree carries volumetric limits for diversions and specifies depletion factors for types of water use.
- Replacements: Replacements of out-of-priority well depletions will be made as provided in the decree in Case No. 90CW069. During the irrigation season, HCU credits for Carr & Waddle Ditch, described above in paragraph 9.B.i.2. will be used to either replace out-of-priority depletions or be stored in the Aldasoro Ponds. Additional out-of-priority depletions occurring at any time of the year will be replaced by releases from the Aldasoro Ponds. Notwithstanding the foregoing, when (1) a senior, valid call is placed during the non-irrigation season (November through April), on the San Miguel River above Remine Creek and below the TAP Wells (the “Reach”); (2) when a senior, valid call is placed in the Reach during the irrigation season and the HCU credits from the Carr & Waddle Ditch are insufficient to provide adequate replacement supplies; (3) when flows at the Mahoney Street gage are below the amounts decreed for instream flow purposes in Case No. 84CW427 or 05CW154, Water Division 4; or (4) when the CWCB places a valid call for water under either of those decreed instream flow rights, Applicant will cease diversion from any TAP Well depletive to the Reach, and will release water stored in Remine Pond through the augmentation pipeline depicted on Exhibit C, to the San Miguel River to replace 100% of the out-of-priority lagged impacts from pumping the TAP Well(s) within the Reach, if any. Replacements from the augmentation pipeline shall be made to the San Miguel River at or above the upper-most point of depletion to the San Miguel River from any well located in the TAP Well Field.

4-10CW170

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

- Demands and Depletions: The majority of the Aldasoro Ranch Subdivision is supplied from wells through a central system with wastewater treatment provided by the Town of Telluride with discharge to the San Miguel River. The total cumulative maximum annual diversions for the system under this decree, the decree entered in Case No. 09CW186, and the decree entered in Case No. 90CW069 are 177 acre-feet. The ARHOC Remine Pipeline will provide a supplemental supply to meet this demand. The plan decreed in Case No. 90CW069 established depletion factors for different types of use, which will be used in this case.
- All other terms and conditions for the plan for augmentation approved in Case No. 90CW069 are adopted and included herein by this reference. Augmentation of the ARHOC Remine Pipeline by the bypass of consumptive use credits from the Carr & Waddle Ditch, as decreed in the plan for augmentation in Case No. 90CW069, is limited to times when water is legally and physically available at the headgate of the Carr & Waddle Ditch.
- In order to prevent injury to the CWCB’s decreed instream flow rights, the requirements of paragraph 37.F. in the water court decree, Case No. 09CW069 shall continue to apply to the plan for augmentation approved herein. Among the other requirements of that paragraph and decree, “[f]or so long as the Colorado Water Conservation Board maintains its existing water right of 6.5 c.f.s. for instream flow purposes on the San Miguel River upstream of its confluence with the South Fork of the San Miguel River, the Applicant shall cause releases to be made from Remine Pond in accordance with the terms of this plan for augmentation, whenever flow in the San

Miguel River at the point of the gauge [referred to in paragraph 37.F, Decree, Case No. 09CW069] shall drop below 6.5 c.f.s.”

(7) Case No. 5-02CW077, Ruling 2 of 2 - Application of Basalt Water Conservancy District

The Board ratified this statement of opposition at its July 2002 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 right and plan for augmentation and exchange do not injure the Board's instream flow water rights on the Roaring Fork River Watershed by not replacing out-of-priority depletions in proper time, place, or amount. CWCBC settled Ruling 1 of 2 in 2010. After numerous meetings and settlement conferences regarding this Ruling 2 of 2, Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCBC's instream flow water right will not be injured.

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

CWCBC Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-73W1948	Fryingpan River 12/6		07/12/1973	Roaring Fork	Pitkin
5-73W1955	Fryingpan River	30 - 200	07/12/1973	Roaring Fork	Pitkin, Eagle
5-73W1945	Fryingpan River	110/39	07/12/1973	Roaring Fork	Pitkin, Eagle
5-75W2720	Crystal River	100/60	05/01/1975	Roaring Fork	Pitkin, Garfield
5-85CW646	Roaring Fork River 55/30		11/8/1985	Roaring Fork	Pitkin, Eagle
5-85CW639	Roaring Fork River 145/7 5		11/8/1985	Roaring Fork	Pitkin, Garfield, Eagle
5-85CW626	Cattle Creek	4	11/08/85	Roaring Fork	Garfield, Eagle
5-97CW273	Cattle Creek	3.5	09/22/97	Roaring Fork	Garfield

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

- The District agreed to not include several of the above listed ISF basins in its umbrella augmentation “Area A” where it had no upstream replacement sources. The final “Area A” includes areas that could impact ISF’s on only the Frying Pan and Roaring Fork rivers. This Ruling Part 2 of 2 is for “Area A3,” which includes only the portion of Area A on the Roaring Fork River upstream of the Frying Pan River.
- The District acknowledges that the CWCBC has decrees for instream flow water rights in the Roaring Fork River decreed in Case Nos. 85CW639 (extending from the confluence of the Roaring Fork and Fryingpan rivers to the confluence of the Roaring Fork and Crystal rivers) and 85CW646 (extending from the confluence of the Roaring Fork River and Maroon Creek to the confluence of the Roaring Fork and Fryingpan rivers) that are located within or below, and are senior to, the appropriative rights of exchange decreed herein and were decreed prior to this augmentation plan and the changes of water rights approved in the decree.
- Cumulative diversions under all alternate points of the Basalt Conduit water right under this decree, any other decree, or any administratively approved substitute water supply plan, shall be limited to the amount legally and physically available in priority at the original decreed point of diversion.
- The District has agreed to implement a “Conservation Program” to address a situation in which the Roaring Fork ISF is not met and calls out the exchange on which the augmentation plan relies. The goal and purpose of the Conservation Program is to limit total augmented depletions within Area A-3 under this plan for augmentation to an amount less than or equal to the amount of physical replacement supply confirmed in Case No. 10CW47, District Court, Water Division No. 5, before streamflow measurements at the Colorado Division of Water Resources Gauge on the Roaring Fork River above its confluence with the Fryingpan River near the Town of Basalt

(ROAFRYCO) during the period April through September fall to 55 cfs (the 85CW646 ISF flow).

- The Conservation Program includes a series of trigger flow rates above the ISF flow rate for which the District will take certain conservation measures. At a flow rate of 85 cfs, the District shall notify all District contractees operating under this plan for augmentation within Area A-3 of the probable imposition of mandatory conservation measures pursuant to this plan for augmentation and their District allotment contracts, and that these measures will require reduction of their diversions and depletions operating under this plan for augmentation. At a flow rate of 75 cfs, the District shall notify and direct all District contractees operating under this plan for augmentation within Area A-3 to cease diversions for outdoor lawn, garden and open-space irrigation, and also for aesthetic, piscatorial, or other uses that result in out-of-priority evaporative depletions, that are augmented under this plan for augmentation (“Conservation Measures”).
- The District shall provide every contractee whose depletions are replaced under this plan for augmentation within Area A-3 with a copy of the decree in this matter, and advise the contractees of the applicability of the decree and this Conservation Program regarding their water use under the plan for augmentation.
- When, despite the District’s implementation of the Conservation Program, the ISF right on the Roaring Fork River above the confluence with the Fryngpan River, decreed in 85CW646, is unsatisfied below the point where depletions augmented under the decree in this case occur, and when the Colorado Division of Water Resources has recognized and enforced an administrative call placed by the CWCBC enforcing its priority under this instream flow right in the affected instream flow reach, the District shall curtail the depletions or diversions as necessary (both lagged and immediate) to prevent injury to the 85CW646 water right from operation of this plan, or fully augment them directly at or above the point of depletion or diversion if necessary, with an upstream source as decreed for use in this augmentation plan, such as the Grace and Shehi ditch rights in the pending change case number 10CW47, or through an approved substitute water supply plan in an amount necessary to fully replace out of priority depletions, or diversions if necessary (both lagged and immediate). The depletions may also be augmented by the exchange in the pending case number 10CW47
- The plan for augmentation operates in conjunction with the District’s plan for augmentation that is the subject of Case 10CW047, which provides additional replacement water for use by the District under certain circumstances. This plan for augmentation will be operated consistent with the terms and conditions of the decree entered in Case No. 10CW047, and therefore this decreed plan for augmentation cannot operate until the change in 10CW47 becomes effective as conditioned in that decree under Paragraph 19(c.). Any variance from this requirement will require Court approval.

(8) Case No. 5-10CW047 - Application of Basalt Water Conservancy District

The Board ratified this statement of opposition at its July 2010 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, which may cause expansion, and plan for augmentation do not injure the Board’s instream flow water rights on the Roaring Fork River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General’s Office, has negotiated a settlement to ensure that the CWCBC’s instream flow water right will not be injured.

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

CWCBC Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed C	ounty
5-85CW646	Roaring Fork River	55/30	11/8/1985	Roaring Fork	Pitkin, Eagle

ATTACHMENT 5

5-85CW639	Roaring Fork River	145/75	11/8/1985 R	Roaring Fork	Pitkin, Eagle Garfield
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In addition to standard terms regarding measuring devices, accounting, and retained jurisdiction, the Applicant has agreed to the following additional protective terms and conditions:

- In general, the purpose of the application is to supplement the District's ability to provide reliable augmentation including by exchanges pursuant to the decree in Case No. 02CW77 Ruling 2 of 2. In that case, the District seeks to provide augmentation of its contractees' depletions in the District's Sub Area A-3, generally located above the confluence of the Fryingpan and Roaring Fork rivers and further described herein. Under the plan for augmentation in Case No. 02CW77, as supplemented by the plan for augmentation approved in this case, the District will introduce water into the Roaring Fork River from Ruedi Reservoir at the confluence of the Fryingpan and Roaring Fork Rivers and will provide water to the Colorado River from Green Mountain Reservoir at the confluence of the Colorado and Roaring Fork rivers and thereby replace depletions in its Area A-3 by appropriative exchanges as decreed in that case. Because of the potential for limitation of the physical availability of flow to provide for exchanges from that confluence for augmentation of upstream depletions, the District has contracted to acquire a portion of the senior Grace & Shehi Ditch irrigation water rights and to use them in the reach of the Roaring Fork River between the Grace & Shehi Ditch headgate and the downstream confluence of the Fryingpan and Roaring Fork rivers. This will allow the District to augment depletions directly to senior rights in that reach.
- Use of the changed water rights for augmentation shall require measurement of the bypasses as provided in the decree. Applicant's pro-rata diversions for irrigation will be based upon the Applicant's pro-rata share of the Grace and Shehi Ditch river headgate diversions (i.e., 4.92%) and the legal and physical availability of water under such pro-rata share, or such lesser amount as delivered and measured to the irrigation lessee.
- The water rights changed herein are intended to augment the flow in the reach of the Roaring Fork River from the headgate of the Grace and Shehi Ditch downstream to the confluence with the Fryingpan River, and thus help preserve the District's ability to operate its Case No. 02CW77 plan for augmentation by exchange through that reach. The historical return flows from the water rights changed herein returned to the river below the confluence of the Roaring Fork and Fryingpan Rivers. This Decree does not award any consumptive use credit from the changed water rights and does not include any credit in the stream for the changed water rights below the confluence of the Roaring Fork and Fryingpan rivers.

(9) Case No. 5-04CW233 – Application of Thomas Bailey

The Board ratified this statement of opposition at its March 2005 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 right and plan for augmentation does not injure the Board's instream flow water rights on the Roaring Fork River by not replacing out-of-priority depletions in proper time, place, or amount. After a site visit and several meetings, Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

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

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed C	County
5-85CW639	Roaring Fork River	145/75	11/08/85	Roaring Fork River Pitkin	in

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

- Detailed depletion assumptions are described in the decree. Potential out-of-priority depletions are limited to the amount of augmentation water decreed.
- A table of projected water demands and augmentation requirements is attached to the decree.
- None of the wells described in paragraphs 4(o) to 4(v) shall be used for irrigation purposes. For this reason, the depletions from such wells shall be considered to reach a steady state, and such steady state depletions, including all post-pumping depletions, shall be accounted for and replaced under this decree. Post-pumping depletions for each well will continue to accrue to the stream for the period of time set forth for each well in a decree table.

(10) Case No. 5-07CW210 – Application of Vail Associates and the United States of America

The Board ratified this statement of opposition at its March 2008 meeting. The Board's main objective in filing the statement of opposition in this case was to ensure that the Applicants' proposed plan for augmentation and exchange do not injure the Board's instream flow water rights on Two Elk Creek and the Eagle River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement that involves "acceptance of injury ... with mitigation" for some of the depletions on a segment of Two Elk Creek. The injury with mitigation terms were accepted by the Board in November, 2011. This stipulation includes protective terms and conditions to fully protect the Board's water rights for the remaining depletions allowed in the case.

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

CWCBC Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed C	ounty
5-78W3797	Two Elk Creek	4	5/12/78	Eagle River Eag	e
5-78W3788	Eagle River	25/11	5/12/78	Eagle River	Eagle
5-78W3796	Eagle River	50/20	5/12/78	Eagle River	Eagle
5-80CW134	Eagle River	85/35	3/17/80	Eagle River	Eagle
5-80CW126	Eagle River	110/45	3/17/80	Eagle River	Eagle
5-80CW124	Eagle River	130/50	3/17/80	Eagle River	Eagle

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

- The injury with mitigation plan allows some snow making diversions subject to operational limits. Applicant has also agreed to provide twice the amount of required replacement water from Eagle Park Reservoir for use by CWCBC in the Eagle River ISF.

(11) Case No. 5-07CW211, Ruling 1 of 2 and 2 of 2 – Application of Summit County BCC

The Board ratified this statement of opposition at its March 2008 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 right does not injure the Board's instream flow water right on Miners Creek. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCBC's instream flow water right will not be injured.

The CWCBC holds the following ISF water right that could have been injured by this application:

CWCBC Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed C	ounty
5-85CW649	Miners Creek	1.5	11/8/85	Blue River Su	mmmit

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

- The average monthly aggregate pumping rate from the water rights decreed for the Blumenhein Well Nos. 1 and 2 at alternate points of diversion in the Bill's Ranch Well Field shall not exceed 0.2 c.f.s., although peak pumping rates may exceed that value, up to an aggregate of 1.0 c.f.s. The aggregate volume of water pumped at alternate points of diversion in the Bill's Ranch Well Field pursuant to this Ruling and Decree shall not exceed 75 acre-feet per year, which will result in depletions to Miner's Creek of no more than 60 acre-feet per year. This is 30.3 acre-feet per year less than the amount of the contemplated depletions to Miner's Creek at the time the water rights decreed for the Blumenhein Well Nos. 1 and 2 were appropriated. This reduction in the depletions to Miner's Creek under the priority of the Blumenhein Well Nos. 1 and 2 will prevent injury to the Miner's Creek instream flow right decreed in Case No. 85CW649 as a result of the change of water rights approved herein.
- In any future application to make the conditional ground water rights for the Blumenhein Well Nos. 1 and 2 absolute at any additional and supplemental well(s) to be constructed within the boundaries of the Bill's Ranch Well Field, Summit County shall identify the specific point(s) of diversion and the amounts of water withdrawn at each well.

(12) Case No. 5-08CW184 – Application of Starwood Metropolitan District

The Board ratified this statement of opposition at its March 2009 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 does not injure the Board's instream flow water rights on Maroon Creek and the Roaring Fork River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, has negotiated a settlement to ensure that the CWCB's instream flow water right will not be injured.

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

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-76W2945	Maroon Creek	14	1/14/76	Roaring Fork River	Pitkin
5-85CW646	Roaring Fork River	55/30	11/8/85	Roaring Fork River	Pitkin
5-85CW639	Roaring Fork River	145/75	11/8/85	Roaring Fork River	Pitkin

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

- Starwood and Pitkin County Board of County Commissioners ("Pitkin County") are co-owners in the Stapleton Brothers' Ditch Priority No. 269 originally decreed in Civil Action 3000 on October 16, 1933 in the Pitkin County District Court, State of Colorado. The CWCB has entered into a Trust Agreement with Pitkin County to utilize Pitkin County's interest in the Stapleton Brothers' Ditch Priority No. 269 for preservation and improvement of the natural environment to a reasonable degree, which is addressed in Pitkin County's Case No. 10CW184. Starwood and Pitkin County have agreed that they will share the Stapleton Brothers' Ditch Priority No. 269 water right on a pro-rata basis based on physical and legal availability of the water right measured at the headgate. Any shortage will be shared proportionally by Starwood, Pitkin County and by the other minority owners in the Stapleton Brothers' Ditch water right based on each party's ownership interest.
- Starwood, Pitkin County and CWCB will each be responsible for a pro-rata share, based on ownership interest in the Stapleton Brothers' Ditch water right, of the construction and operation and maintenance costs for any river gage and/or augmentation station required for administration of the Stapleton Brothers' Ditch Priority No. 269 under the decree in this case and the decree entered in Case No. 10CW184, Division 5 Water Court.

(13) & (14) Case Nos. 5-09CW191 & 192 - Applications of Eagle River Water & Sanitation District and Upper Eagle Regional Water Authority

The Board ratified these statements of opposition at its May 2010 meeting. The Board's main objective in filing the statements of opposition in these cases was to ensure that the Applicant's proposed plans for augmentation and exchanges do not injure the Board's instream flow water rights on Gore Creek and the Eagle River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, have 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 these applications:

CWCB Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-80CW126	Eagle River	45/110	3/17/1980 E	agle River	Eagle
5-80CW134	Eagle River	35/85	3/17/1980 E	agle River	Eagle
5-80CW124	Eagle River	50/130	3/17/1980 E	agle River	Eagle
5-77W3637	Go re Creek	16/6	7/27/1977 E	agle River	Eagle
5-86CW222	Go re Creek	10	5/9/1986 E	agle River	Eagle
5-77W3636	Go re Creek	22/8	7/27/77 E	agle River	Eagle
5-86CW216	Go re Creek	14	5/9/1986 E	agle River	Eagle

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 proposed exchanges will only operate when in priority and will not operate to the extent any intervening water right(s) on the exchange segments that are senior to the priorities of the Applicant's exchanges in this case place a call that is recognized and administered by the Division Engineer. CWCB holds water rights to preserve the natural environment in the Eagle River in Case No. 80CW126. In the event that the proposed exchanges are out of priority as described herein, the Applicant will replace out of priority depletions pursuant to the decree in Case No. 08CW77 or another judicially approved plan for augmentation.
- In Case No. 09CW191, the maximum rate of exchange to the Applicant's diversion structures described in paragraph 4 of the Decree from water released by Wolford Mountain Reservoir will be 5cfs under an appropriation date of May 25, 2006. The maximum rate of exchange to these structures from water released by Ruedi Reservoir is 5cfs under an appropriation date of February 10, 2009. These exchange rates are not cumulative, so the combined rate of exchange from a combination of releases from both Wolford Mountain Reservoir and Ruedi Reservoir hereunder will be 5cfs, conditional.
- In 09CW192, the maximum combined rate of exchanges to the Applicant's diversion structures described in paragraph 4 above from water released by Wolford Mountain Reservoir will be 10.0 cfs under an appropriation date of May 25, 2006. The maximum combined rate of exchanges from water released by Ruedi Reservoir is 10.0 cfs under an appropriation date of February 10, 2009. These exchange rates are not cumulative, so the combined rate of exchange from a combination of releases from both Wolford Mountain Reservoir and Ruedi Reservoir hereunder will be 10 cfs, conditional
- The augmentation supply described in each decrees is also a source of augmentation water in pending Case No. 09CW28. Case No. 09CW28 involves the use of the water rights described in these decrees to augment out of priority storage into Homestake Reservoir, while these decree involve augmentation of out of priority depletions at the locations described in these decrees.

(15) Case No. 5-10CW115 - Application of Powder-CopperMountain

The Board ratified this statement of opposition at its July 2010 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 does not injure the Board's instream flow water rights on Tenmile Creek and the Blue River by not replacing out-of-priority depletions in proper time, place, or amount. After site visits and field work, Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCBC's instream flow water rights will not be injured.

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

CWCBC Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-86CW209 Ten	mile Creek	10/7	3/14/1986 B	Blue	Summit
5-87CW239, 264, 294-96, 298-99	Blue River	varies	10/2/1987, and 1904	Blue	Summit, Grand

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

- Powder shall provide comprehensive and detailed accounting of the use of Powder's shares in the Clinton Ditch & Reservoir Company under this Decree, and Cases No. 92CW292, 01CW304 and 04CW151, as approved or required by the Division Engineer to ensure the sufficiency of such shares to meet the augmentation requirements of these four augmentation plans, as detailed in the decree.
- Pursuant to a MOA with DNR, signed on March 11, 1986, and amended on October 25, 1988, Powder will not augment by exchange from the described Williams Fork Reservoir when the CWCBC's ISF on Tenmile Creek and/or other downstream ISF rights on the Blue River senior to Powder's claimed exchange date are not satisfied. Powder measures stream flows on Tenmile Creek at Officer's Gulch to monitor compliance with the MOA's terms and conditions.
- For purposes of determining whether snowmaking diversions under this decree are impacting the CWCBC's instream flow right on Tenmile Creek below its confluence with West Tenmile Creek, Powder will cooperate with the CWCBC in the construction and maintenance of an Administrative Stream-flow Monitoring Station ("Station") located on Tenmile Creek, just below its confluence with West Tenmile Creek. The Station will be used to monitor compliance with CWCBC's instream flow water rights in Tenmile Creek. Details regarding construction, rating, operation and maintenance of the station are provided in the decree.

(16) & (17) Case Nos. 5-11CW56 & 57- Applications of Midland Holdings

The Board ratified these statements of opposition at its July 2011 meeting. The Board's main objective in filing the statements of opposition in these cases was to ensure that the Applicant's proposed change of water rights and plan for augmentation and exchange do not injure the Board's instream flow water rights on East Sopris Creek, Sopris Creek and the Roaring Fork River by not replacing out-of-priority depletions in proper time, place, or amount. Staff, in cooperation with the Attorney General's Office, have negotiated a settlement to ensure that the CWCBC's instream flow water right will not be injured.

The CWCBC holds the following ISF water rights that could have been injured by these applications:

CWCBC Case No.	Stream/Lake	Amount (cfs)	Approp. Date	Watershed	County
5-76W2940	East Sopris Creek	3	1/14/1976 R	Roaring Fork	Pitkin
5-76W2951	Sopris Creek	5	1/14/1976 R	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:

5-11CW056

- Diversions at the Davis Ditch changed point of diversion may only occur when water is physically and legally available at the original point of diversion. Applicant's diversions at the Davis Ditch changed point of diversion must be limited to the historic diversions at the Davis Ditch original point of diversion in flow rate, volumes, and timing of diversions.
- When the Midland Enlargement and Midland Pond System water rights are out of priority, Applicant shall: (1) Drop the pond system water level commensurate with evaporative losses; (2) Bypass all inflows into the Midland Pond System; and (3) Curtail all diversions under the Midland Enlargement water right.
- The storage water rights granted herein may divert and fill in priority, and to the extent such uses are out of priority, such rights shall either be augmented pursuant to Case No. 11CW57 or curtailed.

5-11CW057

- The Plan for Augmentation relies on a BWCD Allotment Contract. The contract may be terminable and if the contract should expire, fail to be renewed, is terminated, or an alternative source of replacement water is not included by proper amendment to be published in the resume, prior to such expiration, curtailment of all out-of-priority diversions will occur.
- Applicant plans to run a pipeline from the outlet directly back down to the Midland Enlargement water right new point of diversion. In this case, all water stored in the pond system will be able to be released via gravity back into the stream at the point of diversion. When the CWCB is validly calling on Sopris Creek, Applicant shall make the requisite gravity releases from the Midland Pond System to the Midland Enlargement new point of diversion.
- If Applicant is unable to run a pipeline down to the Midland Enlargement new point of diversion, Applicant shall curtail all out of priority diversions when CWCB is validly calling on Sopris Creek. In this alternative, the Midland Pond System shall be constructed as a "flow-through" pond system that is 100% depletive to Sopris Creek from the point of diversion to the point where pond system releases return to the stream.

(18) Case No. 5-11CW105 – Application of Mesa Cortina Water and Sanitation District

The Board ratified this statement of opposition at its November 2011 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 right and amended plan for augmentation do not injure the Board's instream flow water rights on the Blue River by not replacing out-of-priority depletions in proper time, place, or amount. The source of injury to the CWCB's water rights was a claim made by the Applicant for a new well. Staff, in cooperation with the Attorney General's Office, negotiated with the Applicant to remove all claims relating to Bashore Well from the application and from any decree entered in this case. As such, the amended application will not impact CWCB's ISF water rights on the Blue River, therefore CWCB withdrew its opposition in this case.

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
5-87CW293-94	Blue River	50 & 55/52/50	10/2/1987	Blue	Summit

Stipulation for CWCB to withdraw was granted by the court on August 16, 2012.



Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	PM	Actions/Comments/Notes
2012 July Board Approvals									
Gunnison	Leon Park Reservoir Company	Leon Park Reservoir Dam Outlet Repair	Jul-12	\$0	\$0	\$0	Agricultural	Todd Doherty	
North Platte	Loban, Hackleman and Olsen LLC	Seneca Ditch - Structure for Water Control	Jul-12	\$0	\$0	\$0		Jacob Bornstiel	
2012 May Board Approvals									
Arkansas	El Paso County by its Board of County Commissioners	Groundwater Quality Study - Phase 2 - Upper Black Squirrel Creek Alluvial Aquifer in the Arkansas River Basin	May-12	\$35,000	\$0	\$35,000		Todd Doherty	
2011 September Board Approvals									
Southwest	Lake Durango Water Authority	Lake Durango Water Authority/ Source Water Infrastructure	Sep-11	\$50,000	\$450,000	\$500,000	Municipal & Industrial	Greg Johnson	
2011 July Board Approvals									
Southwest	Pagosa Lake Property Owners Association	Pagosa Lakes Area Village Lake Dam Outlet Pipe Repair Project	Jul-11	\$0	\$0	\$0	Municipal & Industrial	Greg Johnson	
2011 May Board Approvals									
Colorado	Orchard Mesa Irrigation District	Canal #1 Check Structure Pilot Project at Dalton, Kiefer & Springer Properties	May-11	\$0	\$0	\$0	Agricultural	Jacob Bornstiel	
2011 March Board Approvals									
Arkansas	Colorado State Parks	Helena Diversion Structure/BV Boat Chute Improvement Project	Mar-11	\$0	\$0	\$0	Nonconsumptive	Chris Slurm	
Gunnison	Grand Mesa Water Conservancy District, Water Enterprise Fund	The Rehabilitation of Blanche Park Reservoir	Mar-11	\$0	\$0	\$0	Agricultural	Todd Doherty	
2010 July Board Approvals									
South Platte	Northern Colorado Water Conservancy District	Data Logger and Telemetry Installation Project	Jul-10	\$46,000	\$0	\$46,000	Agricultural	Todd Doherty	
2010 May Board Approvals									
Gunnison	Lake San Cristobal Water Activity Enterprise (LSCWAC)	Lake San Cristobal Outlet Structure	May-10	\$150,000	\$0	\$150,000	Municipal & Industrial	Todd Doherty	
2009 September Board Approvals									
Rio Grande	CDPHE	Demonstration of membrane zero liquid discharge process for drinking water systems (\$50,000 Metro Basin Fund Contribution)	Sep-09	\$50,000	\$200,000	\$250,000		Greg Johnson	
2009 July Board Approvals									
Southwest	Town of Sawpit	Domestic Water System Construction	Jul-09	\$25,000	\$0	\$25,000	Municipal & Industrial	Greg Johnson	



Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Arkansas	Southwestern Colorado Water Activity Enterprise	Arkansas Valley Conduit	Mar-07	\$0	\$200,000	\$200,000	Municipal & Industrial	C150406	6/30/11	11/24/10
Arkansas	Southeastern Colorado Water Conservancy District	Native Pheasantry Trees & Mapping Project	Mar-07	\$0	\$50,000	\$50,000	Other	8000000005		6/30/09
Arkansas	Upper Black Squirrel Creek Aquifer Recharge Investigation		Mar-07	\$45,200	\$0	\$45,200	Municipal & Industrial	8000000011		
Arkansas	El Paso County Water Authority	Ground Water Conference	Mar-07	\$24,721	\$0	\$24,721	Education	8000000010	10/10/07	6/30/09
Arkansas	Pueblo and El Paso Counties	Fountain Creek Vision Task Force	May-07	\$75,000	\$0	\$75,000	Needs Assessment	8000000084	6/30/09	6/30/09
Arkansas	Round Mountain Water and Sanitation District	Round Mountain Water & Sanitation District Water System Improvements Project	May-07	\$120,000	\$0	\$120,000	Municipal & Industrial	C150403	9/2/09	9/17/09
Arkansas	Lower Arkansas Valley Water Conservancy District	Rotational Land Flowing-Water Leasing Program -Lower Arkansas Super Ditch Company	Jan-08	\$150,000	\$0	\$150,000	Agricultural	C150425	6/30/10	5/5/10
Arkansas	Upper Big Sandy Ground Water Management District	Upper Big Sandy Water Balance	Jan-08	\$45,000	\$0	\$45,000	Needs Assessment	8000000100		5/6/09
Arkansas	Southeastern Colorado Water Conservancy District	Model Transfers- Agriculture to Urban, Arkansas Basin	Jan-08	\$23,860	\$0	\$23,860	Agricultural	8000000135		12/1/08
Arkansas	Greater Arkansas River Nature Association	Arkansas Headwaters Diversion Structure Improvement Project Arkansas River Basin	Mar-08	\$0	\$57,955	\$57,955	Nonconsumptive	9000000025		8/31/09
Arkansas	City of Las Animas	City of Las Animas Water System Improvements	Mar-08	\$100,000	\$200,000	\$300,000	Municipal & Industrial	C150424	12/31/09	9/23/09
Arkansas	Colorado State Parks	Colorado State Parks Zebra Mussel Response	Mar-08	\$0	\$1,000,000	\$1,000,000	Other	C150416	6/30/09	6/30/10
Arkansas	Upper Arkansas Water Conservancy District	Telemetry data collection platforms at six reservoirs plus flow control equipment & gauging at six reservoirs outlet channels & nine streams with the Upper Ark River basin John Martin Wetlands & Neomache Reservoir	Sep-08	\$75,000	\$210,332	\$285,332	Agricultural	C150439	12/31/11	9/7/11
Arkansas	Lower Arkansas Valley Water Conservancy District	Nonconsumptive Needs Quantification Stakeholder's Cooperative Management Analysis for the Upper Arkansas River Basin	May-09	\$148,975	\$0	\$148,975	Needs Assessment	C150457	6/30/12	6/28/12
Arkansas	Southeastern Colorado Water Conservancy District	Stakeholder's Cooperative Management Analysis for the Upper Arkansas River Basin	Jul-10	\$33,600	\$0	\$33,600	Nonconsumptive	11000000012	8/31/11	12/31/11
Arkansas	Fountain Creek Watershed Greenway and Flood Control District	Fountain Creek Fish Marking and Monitoring Study	Sep-10	\$7,000	\$28,000	\$35,000	Nonconsumptive	121BC000009	4/1/12	3/29/12
Arkansas	Lower Arkansas Valley Water Conservancy District	Colorado Water 2012	Jan-12	\$6,255	\$0	\$6,255	Education	OE131BC000005	8/31/12	8/2/12
Arkansas Basin Total Request				\$854,611	\$1,746,287	\$2,600,898				
Number of Projects				17						
Arkansas/Metro	El Paso County Water Authority	Flaming Gorge Project Task Force Assessment	May-10	\$60,000	\$0	\$60,000	Other	11000000008	6/30/11	6/30/11
Arkansas/Metro Basin Total Request				\$60,000	\$0	\$60,000				
Number of Projects				1						
Colorado	Eagle Park Reservoir Company	Enlargement of Eagle Park Reservoir	Mar-07	\$0	\$250,000	\$250,000	Municipal & Industrial	C150401	12/31/09	12/17/09
Colorado	Ruedi Water and Power Authority	Roaring Fork Watershed Assessment	Mar-07	\$40,000	\$0	\$40,000	Nonconsumptive	8000000012		
Colorado	Colorado River Water Conservancy District	Upper Colorado Endangered Fish Recovery Alternatives Analysis (10.825)	Mar-07	\$0	\$0	\$0	Other	C150404	6/30/08	
Colorado	Grand County	Vail Ditch Project	Mar-07	\$0	\$1,500,000	\$1,500,000	Agricultural	C150409	6/30/08	6/30/08
Colorado	Colorado River Water Conservancy District	Upper Colorado Endangered Fish Recovery Alternatives Analysis (10.825)	Mar-07	\$0	\$200,000	\$200,000	Nonconsumptive	C150404	6/30/08	6/30/08
Colorado	Bull Creek Reservoir Canal and Power Co.	Bull Creek Reservoir No. 5 Spillway Adequacy Analysis	Sep-07	\$50,000	\$0	\$50,000	Agricultural	8000000039	6/30/10	2/25/09
Colorado	Summit County	Old Dillon Reservoir	Mar-08	\$100,000	\$0	\$100,000	Municipal & Industrial	9000000026	6/30/09	3/2/10
Colorado	Grand County	Fraser Sedimentation Basin	Mar-08	\$60,000	\$127,900	\$187,900	Nonconsumptive	C150449	6/30/12	12/28/11
Colorado	Grand County	Grand County Stream flow Management Plan	May-08	\$100,000	\$0	\$100,000	Nonconsumptive	C150461	6/30/11	12/16/10
Colorado	Ruedi Water and Power Authority	Roaring Fork Watershed Assessment -Phase 2	May-08	\$40,000	\$0	\$40,000	Nonconsumptive	9000000049	10/1/09	10/1/09
Colorado	West Divide Water Conservancy District	Feasibility and design assessment of off-channel reservoir sites in the Crystal River water shed	Sep-08	\$40,000	\$0	\$40,000	Municipal & Industrial	9000000052	8/31/09	9/2/09
Colorado	Trout Unlimited	Battlement Reservoir #3 Dam reconstruction to enhance recreational & environmental opportunities	Sep-08	\$80,000	\$0	\$80,000	Nonconsumptive	121BC0000016	12/31/12	12/23/11
Colorado	Northwest Colorado Council of Governments	Colorado Basin Nonconsumptive Needs Quantification	Mar-09	\$315,171	\$0	\$315,171	Needs Assessment	C150451	6/30/12	6/14/12

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Colorado	Colorado Foundation for Water Education	Solicitation of Stakeholders input and advice through a Colorado River Basin edition of Headwaters Magazine	Sep-10	\$25,000	\$0	\$25,000	Education	11000000039	6/30/11	6/28/11
Colorado	Grand River Ditch Company	Grand River Ditch Pipeline	Sep-10	\$25,000	\$0	\$25,000	Agricultural	11000000097	6/30/11	6/1/11
Colorado Basin Total Request				\$875,171	\$2,077,900	\$2,953,071				
Number of Projects 15										
Colorado/Yamp	City of Grand Junction	Energy Development Water Needs Assessment (300,000 Joint Application see Colorado)	Mar-07	\$0	\$300,000	\$300,000	Needs Assessment	C150407	3/31/11	3/31/11
Colorado/Yampa/White Basin Total Request				\$0	\$300,000	\$300,000				
Number of Projects 1										
Gunnison	Upper Gunnison Water Conservancy District and Hinsdale County	Lake San Cristobal Controlled Outlet Structure		\$24,500	\$98,000	\$122,500	Municipal & Industrial	8000000021	6/30/13	
Gunnison	Leroux Creek Water Users Association (LCWUA)	Safety and Serviceability Needs Inventory for Reservoirs in the Leroux Creek Drainage Basin	May-07	\$60,000	\$0	\$60,000	Agricultural	8000000008	6/30/11	6/30/11
Gunnison	Town of Orchard City	Orchard City Water Reservoir Project (Task 1-3)	May-07	\$60,000	\$0	\$60,000	Municipal & Industrial	8000000007	6/30/08	
Gunnison	Town of Orchard City	Orchard City Water Reservoir Project (Remaining Tasks)	Sep-07	\$0	\$380,000	\$380,000	Municipal & Industrial	C150410	12/31/08	
Gunnison	Project 7 Water Authority and Uncompahgre Valley Water Users Association	Off-System Raw Water Storage Project 7 Water Authority/Uncompahgre Valley Water Users Association	Sep-07	\$56,700	\$0	\$56,700	Municipal & Industrial	8000000059		
Gunnison	North Fork River Improvement Association	Pacifica-Feldman Diversion Reconstruction, North Fork of the Gunnison River (Part 1 and 2)	Sep-07	\$48,000	\$62,700	\$110,700	Agricultural	C150411	12/31/08	
Gunnison	Overland Ditch and Reservoir Company	Overland Reservoir Dam Expansion/Restoration	Sep-07	\$0	\$68,000	\$68,000	Agricultural	8000000038	9/30/12	6/30/11
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Phase II Engineering for Lake San Cristobal Outlet Modification	Jul-08	\$75,265	\$0	\$75,265	Municipal & Industrial	9000000041	6/30/11	4/8/11
Gunnison	Town of Ridgway	Ridgway Ditch and Lake Oronwanda Improvement Project	Mar-09	\$109,500	\$0	\$109,500	Municipal & Industrial	C150455	6/30/11	6/30/11
Gunnison	City of Grand Junction Water Enterprise Fund	Juniata Reservoir Spillway Modification	Mar-09	\$97,000	\$0	\$97,000	Municipal & Industrial	9000000088	6/30/10	12/15/09
Gunnison	Painted Sky Resource Conservation and Development Council, Inc.	Hartland Diversion Dam Fish Passage Feasibility Study	May-09	\$22,100	\$0	\$22,100	Nonconsumptive	9000000144	6/30/10	1/25/10
Gunnison	City of Ouray	Development of Augmentation Supplies	May-09	\$50,000	\$0	\$50,000	Municipal & Industrial	10000000041	6/30/11	6/30/11
Gunnison	Valley View Irrigation Association	Valley View Irrigation Improvement	Mar-11	\$0	\$0	\$0	Agricultural	11000000127	12/31/11	7/26/11
Gunnison	Gunnison Gorge Anglers - Trout Unlimited	Relief Ditch Diversion Dam Design	May-11	\$20,650	\$0	\$20,650	Agricultural	121BC0000004	6/30/12	6/30/12
Gunnison	Painted Sky Resource Conservation and Development Council, Inc.	Hartland Diversion Dam — Partial Dam Removal and Stabilization	Sep-11	\$0	\$0	\$0	Nonconsumptive	121BC0000008	3/31/12	3/31/12
Gunnison Basin Total Request				\$623,715	\$608,700	\$1,232,415				
Number of Projects 15										
Metro	The Greenway Foundation	Chaffard Reallocation EIS/FR (South Platte BRT contributing \$27,000)	Mar-07	\$103,000	\$0	\$103,000	Municipal & Industrial			
Metro	East Cherry Creek Valley Water and Sanitation District	Zero Liquid Discharge Pilot Study	Sep-07	\$200,000	\$200,000	\$400,000	Municipal & Industrial	C150412		1/8/09
Metro	Parker Water and Sanitation District	Parker Water & San. & CO. State Univ Joint Project on the Rural/Urban Farm Model	Sep-07	\$150,000	\$0	\$150,000	Municipal & Industrial	C150413	12/31/09	10/2/09
Metro	South Metro Water Supply Authority	South Metro Water Supply Authority - Regional Aquifer Supply Assessment	Jul-08	\$100,540	\$0	\$100,540	Municipal & Industrial	C150430	12/31/09	12/31/10
Metro	The Greenway Foundation	South Platte River Recreation and Habitat Feasibility Study	Sep-08	\$150,000	\$0	\$150,000	Nonconsumptive	C150442	6/30/10	6/30/10
Metro	Colorado Foundation for Water Education	Educating Denver Metro elected officials and decision makers on solutions-oriented water supply planning	Jan-11	\$14,820	\$0	\$14,820	Education	11000000083	6/30/12	4/30/12
Metro Basin Total Request				\$718,360	\$200,000	\$918,360				
Number of Projects 6										

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Basin	Applicant	Name of Water Activity	Meeting	Approved	Approved	Request	Type of Water Activity	Number	Expiration Date	Final Date Closed
North Plate	Silver Spur Land & Cattle	New Pioneer Ditch Diversion Reconstruction Project	Mar-08	\$116,000	\$0	\$116,000	Agricultural	C150421	12/31/09	
North Plate	Town of Walden	Town of Walden Water Supply Improvement Project	Jul-08	\$385,000	\$0	\$385,000	Municipal & Industrial	C150431A	9/30/11	9/30/11
North Plate	Colorado State University	Identification and Assessment of Important Wetlands in North Platte River Watershed	Sep-08	\$86,000	\$96,000	\$182,000		C150433	6/30/10	7/28/10
North Platte	Colorado State University	Identification and assessment of important wetlands in N.P. River watershed	Sep-08	\$0	\$0	\$0	Nonconsumptive	C150433	6/30/10	6/30/10
North Platte	Walden Reservoir Company	Structure for Water Control	Jan-11	\$36,000	\$0	\$36,000	Agricultural	11000000087	11/30/11	11/7/11
North Platte	Colorado Foundation for Water Education	Solicitation of stakeholder input through production of a North Platte Basin education package	Jan-11	\$14,040	\$0	\$14,040	Education	11000000084	6/30/12	6/25/12
North Platte Basin Total Request				\$637,040	\$96,000	\$733,040				
Number of Projects				6						
Rio Grande	El Paso County Water Authority	Alamosa River In-stream Flow Project	Mar-07	\$64,500	\$0	\$64,500	Nonconsumptive	70000000076		6/30/08
Rio Grande	San Luis Valley Irrigation District	Preliminary Design Multi-use Rio Grande Reservoir Rehabilitation and Enlargement	Mar-07	\$0	\$288,000	\$288,000	Agricultural	C150402	6/30/10	6/30/10
Rio Grande	Colorado Rio Grande Restoration Foundation	Rio Grande Basin Conservation Reserve Enhancement Program	May-07	\$36,750	\$0	\$36,750	Agricultural	80000000006		
Rio Grande	San Luis Valley Resource Conservation and Development Council	Alamosa River Watershed Restoration Project	Sep-07	\$0	\$104,000	\$104,000	Other	C150419		
Rio Grande	Romero Irrigation Company	Romero-Guadalupe Channel Rectification Project	Sep-07	\$83,700	\$0	\$83,700	Agricultural	80000000060		9/17/08
Rio Grande	Rio Grande Headwaters Land Trust	Rio Grande Initiative	Mar-08	\$200,000	\$1,300,000	\$1,500,000	Nonconsumptive	C150420		
Rio Grande	Santa Maria Reservoir Company	Santa Maria and Continental Reservoirs: Rehabilitation and Multiple Use Studies	Sep-08	\$72,000	\$141,700	\$213,700	Agricultural	C150443	6/30/12	6/30/12
Rio Grande	Conejos Water Conservancy	Platoro Reservoir Restoration	Sep-08	\$50,000	\$200,000	\$250,000	Agricultural	C150448	6/30/11	2/3/11
Rio Grande	Manassas Land and Irrigation Company	Conejos River and North Branch Diversion and Stabilization	Sep-08	\$50,000	\$333,700	\$383,700	Agricultural	C150446	6/30/10	6/30/10
Rio Grande	San Luis Valley Irrigation District	Rio Grande Reservoir Multi-Use Rehabilitation: Refinement and Enhancement of Reservoir Reoperation and Optimization Model	Nov-08	\$100,000	\$0	\$100,000	Agricultural	C150437A	12/31/11	12/21/11
Rio Grande	El Codo Ditch Company	San Antonio River- El Codo Ditch Diversion and Rehabilitation	May-09	\$65,000	\$0	\$65,000	Agricultural	10000000001	12/31/09	12/8/09
Rio Grande	Trinchera Irrigation Company	Sangre de Cristo Trinchera Diversion Canal Restoration	Sep-09	\$50,000	\$150,000	\$200,000	Agricultural	C150458	7/31/11	10/22/10
Rio Grande	Trinchera Irrigation Company	Shortfall Request - Sangre de Cristo Trinchera Diversion Canal Restoration	Jan-10	\$54,000	\$0	\$54,000	Agricultural	C150458	7/31/11	7/31/12
Rio Grande	Rio Grande Watershed Conservation and Education Initiative	Educating Today to Balance Tomorrow's Water Supplies & Needs	May-10	\$25,000	\$0	\$25,000	Education	11000000059	6/30/12	10/17/11
Rio Grande	San Luis Peoples Ditch Company	San Luis Peoples Ditch Upgrade and Rehabilitation Project - Phase I	May-10	\$40,000	\$0	\$40,000	Agricultural	11000000053	6/30/11	9/7/11
Rio Grande	Manassas Land and Irrigation Company	Conejos North Branch Water Conservation and Management	Jan-11	\$75,000	\$0	\$75,000	Agricultural	11000000109	6/30/12	6/25/12
Rio Grande	Colorado Rio Grande Restoration Foundation	The McDonald Ditch and Plaza Project, Phase I Planning	Jan-11	\$40,000	\$0	\$40,000	Agricultural	11000000102	12/31/11	12/22/11
Rio Grande	Rio Grande Headwaters Land Trust	Rio Grande Initiative: North Rio Grande Ranch Conservation Easement	Mar-11	\$15,000	\$65,000	\$70,000	Nonconsumptive	C150489	12/30/11	12/30/11
Rio Grande	Sanchez Ditch & Reservoir Company	Sanchez Reservoir Rehabilitation - Phase I Assessment & Upgrade	Sep-11	\$10,000	\$85,000	\$95,000	Agricultural	121BC000013	7/31/12	6/13/12
Rio Grande Basin Total Request				\$1,030,950	\$2,657,400	\$3,688,350				
Number of Projects				19						
South Platte	The Greenway Foundation	Chaffield Reallocation EIS/FR (Metro BRT contributing \$103,000)	Mar-07	\$27,000	\$0	\$27,000	Municipal & Industrial			
South Platte	Clear Creek County	Clear Creek Water Banking/High Altitude Storage	May-07	\$52,000	\$0	\$52,000	Municipal & Industrial	C8000000037		
South Platte	District 64 Reservoir Company	Ovid Reservoir Comprehensive Feasibility Study	Sep-07	\$176,000	\$0	\$176,000	Agricultural	C150417	12/31/11	4/13/12
South Platte	Ducks Unlimited, Inc.	Lower South Platte Wetland Initiative Phase I South Platte River, CO	Sep-07	\$0	\$278,476	\$278,476	Nonconsumptive	C150415	7/31/09	7/31/09

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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
South Plate	Northern Colorado Water Conservancy District	Stage Discharge Data Loggers and Telemetry	Jan-08	\$48,800	\$0	\$48,800	Agricultural	80000000120	6/30/11	6/28/11
South Plate	City of Greeley	Halligan Seaman Water Mgmt project share vision planning model	Sep-08	\$25,435	\$76,305	\$101,740	Municipal & Industrial	C150436	6/30/10	6/30/10
South Plate	Ducks Unlimited, Inc.	Central South Plate Wetland Partnership	Mar-09	\$150,000	\$0	\$150,000	Nonconsumptive	C150454	6/30/11	6/30/11
South Plate	Fort Morgan Reservoir and Irrigation Company (FMRIco)	FMRIco Recharge & Wetlands Project	Sep-09	\$250,000	\$420,000	\$670,000	Agricultural	C150464	6/30/12	6/27/12
South Plate	Colorado Climate Center--CSU	Colorado Agricultural Meteorological Network (CoAgMNet)	Jul-10	\$20,000	\$0	\$20,000	Agricultural	11000000079	6/30/12	6/30/12
South Plate Basin Total Request				\$749,235	\$774,781	\$1,524,016				
Number of Projects				9						
South Plate/Metro	Clear Creek County	Upper Mountain Counties Water Needs Assessment	May-08	\$174,350	\$0	\$174,350	Needs Assessment	C150429A	6/30/11	12/31/10
South Plate/Metro	Colorado Foundation for Water Education	Solicitation of Stakeholder Input through a South Plate Edition of Headwaters	Jul-08	\$32,038	\$0	\$32,038	Education	9000000019		
South Plate/Metro	Lost Creek Groundwater Management District	Lost Creek Aquifer Recharge and Storage Study	Jan-09	\$240,000	\$0	\$240,000	Municipal & Industrial	C150447	6/30/11	9/27/11
South Plate/Metro Basin Total Request				\$446,388	\$0	\$446,388				
Number of Projects				3						
Southwest	San Juan Water Conservancy District	Dry Gulch Reservoir/San Juan Reservoir Land Acquisition	Mar-07	\$0	\$0	\$0	Municipal & Industrial	C150408		12/17/08
Southwest	Goodman Point Water Association	Goodman Point Water Association Pipeline Environmental Assessment	Mar-07	\$7,700	\$0	\$7,700	Municipal & Industrial	8000000075		7/31/09
Southwest	Mancos Water Conservancy District	Jackson Gulch Reservoir Expansion Project	Jul-07	\$80,000	\$0	\$80,000	Municipal & Industrial	8000000076	6/30/09	6/30/09
Southwest	Goodman Point Water Association	Goodman Point Phase 2	Sep-07	\$20,000	\$120,000	\$140,000	Municipal & Industrial	C150462	6/30/12	3/6/11
Southwest	Bauer Lake Water Company	Bauer Lakes Water Co. Dam Outlet Structure Upgrade	Mar-08	\$40,000	\$0	\$40,000	Agricultural	10000000084	12/31/11	12/28/11
Southwest	La Plata West Water Authority	La Plata West Rural Water Supply System	Mar-08	\$100,000	\$1,000,000	\$1,100,000	Municipal & Industrial	C150422	6/30/09	6/30/09
Southwest	Town of Sarpit	Town of Sarpit Engineering/Planning for Domestic Water System, Southwest Basin	Mar-08	\$25,000	\$0	\$25,000	Municipal & Industrial	9000000006	6/30/09	6/7/10
Southwest	Summit Reservoir and Irrigation Company	MVIC Summit Irrigation Company feasibility study	Sep-08	\$39,300	\$0	\$39,300	Agricultural	9000000085	8/31/10	8/31/10
Southwest	Happy Scenes Water System #1	Water System Well, Treatment System and Distribution Upgrades	Nov-08	\$50,000	\$0	\$50,000	Municipal & Industrial	9000000127	6/30/10	11/17/09
Southwest	La Plata Archuleta Water District	Water System Master Planning	Nov-08	\$100,000	\$0	\$100,000	Municipal & Industrial	9000000112	12/31/09	12/22/09
Southwest	Town of Silverton	Molas Lake Ditch Rehabilitation and Diversion Structures	Jan-09	\$95,000	\$0	\$95,000	Municipal & Industrial	9000000143	12/31/11	11/18/11
Southwest	Lower Blanco Property Owners Association	Lower Blanco River Restoration Project	Mar-09	\$100,000	\$0	\$100,000	Nonconsumptive	C150450	6/30/11	6/30/10
Southwest	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Ditch Loss, Hydropower, and Monitoring Improvement Program	Mar-09	\$100,000	\$0	\$100,000	Agricultural	9000000115	6/30/11	6/30/11
Southwest	Red Mesa Dam & Reservoir Company	Red Mesa Dam Incremental Damage Analysis (IDA) and Emergency Action Plan (EAP)	May-09	\$29,000	\$0	\$29,000	Agricultural	10000000061	6/30/12	6/29/12
Southwest	Park Ditch Company	Park Ditch Improvements	Jul-09	\$65,000	\$0	\$65,000	Agricultural	10000000011	6/30/11	12/9/09
Southwest	Lower Blanco Property Owners Association	Lower Blanco Restoration Project	Sep-09	\$0	\$0	\$0	Needs Assessment	C150468	6/30/12	12/17/10
Southwest	San Juan Resource Conservation and Development - Animas Watershed Project	Animas River Needs Assessment	Sep-09	\$57,000	\$0	\$57,000	Needs Assessment	11000000028		4/28/11
Southwest	Mancos Water Conservancy District	Mancos River Diversion Project, Phase I	Nov-09	\$24,753	\$0	\$24,753	Nonconsumptive	10000000111	12/30/10	6/7/11
Southwest	Mancos Valley Resources Inc.	Protecting Irrigated Agricultural Lands and Water Rights for Agricultural Production	Nov-09	\$31,500	\$0	\$31,500	Agricultural	100000000125	6/30/12	6/30/12



Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date	Final Date Closed
Southwest	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Canal Seepage Reduction Project	Nov-09	\$225,000	\$1,000,000	\$1,225,000	Agricultural	C150463	6/30/11	6/30/11
Southwest	Town of Norwood	Raw Water System Update and Future Needs Study	Jan-10	\$58,458	\$0	\$58,458	Municipal & Industrial	10000000085	6/30/11	6/30/11
Southwest	Dolores Water Conservancy District	Totten Reservoir Hydrographic Survey	Nov-10	\$29,500	\$0	\$29,500	Agricultural	11000000014	12/31/11	12/28/11
Southwest	Animas La Plata Water Conservancy District	Recreational Plan for Lake Nighthorse	Nov-10	\$25,000	\$0	\$25,000	Nonconsumptive	121BC000005	12/31/11	10/21/11
Southwest	La Plata River and Cherry Creek Ditch Company	La Plata Cherry Creek Ditch Headgate Improvement Project	Nov-10	\$25,000	\$0	\$25,000	Agricultural	121BC000014	8/31/12	6/11/12
Southwest	Montezuma Valley Irrigation Company	Groundhog Reservoir Bathymetric Survey	Mar-11	\$0	\$0	\$0	Agricultural	121BC000003	6/30/12	6/30/12
Southwest	Town of Rico	Town of Rico Alluvium Pipeline Water Supply Project - Well Drilling and Water Quality Testing	Mar-11	\$20,000	\$80,000	\$100,000	Municipal & Industrial	11000000122	6/30/12	3/6/12
Southwest Basin Total Request				\$1,367,211	\$2,200,000	\$3,567,211				
Number of Projects				26						
Yampa/White	Upper Yampa Water Conservancy District	Morrison Creek Reservoir Feasibility Study	Jul-07	\$49,500	\$0	\$49,500	Municipal & Industrial	80000000058	3/31/08	
Yampa/White	Moffat County	Agricultural Water Needs Assessment	Jan-08	\$0	\$0	\$0	Needs Assessment	C150418	12/31/10	12/31/10
Yampa/White	City of Steamboat Springs	Common Data Repository	Jan-08	\$106,600	\$0	\$106,600	Other	C150423	6/30/10	12/29/10
Yampa/White	Vernillion Ranch	Sparks Reservoir	Jul-08	\$16,000	\$0	\$16,000	Agricultural	90000000039	12/31/08	
Yampa/White	Moffat County	Sandwash basin coalbed methane production depletive effects on water resources	Sep-08	\$20,000	\$98,835	\$118,835	Municipal & Industrial	C150435	6/30/11	6/8/11
Yampa/White	Colorado Foundation for Water Education	Headwaters Magazine - January 2010	Sep-09	\$20,000	\$0	\$20,000	Education	10000000050	6/30/10	
Yampa/White	Community Agriculture Alliance, Inc.	Development and Implementation of Water Forums, Workshop, and/or Tours	Sep-09	\$10,000	\$0	\$10,000	Education	10000000046	6/30/11	12/31/10
Yampa/White	The Nature Conservancy of Colorado	Yampa White Basin Nonconsumptive Needs Assessment Watershed Flow Evaluation Tool	Jan-10	\$169,002	\$0	\$169,002	Nonconsumptive	C150466	6/30/12	6/30/12
Yampa/White Basin Total Request				\$391,102	\$98,835	\$489,937				
Number of Projects				8						

WSRA IN PROGRESS PROJECTS

Updated 9/14/2012



Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
Arkansas	Colorado State University	Geospatial Decision Support System for Integrated Water Management in the Arkansas River Basin	Sep-08	\$100,000	\$500,000	\$600,000	Needs Assessment	C150441	6/30/13
Arkansas	Upper Arkansas Water Conservancy District	UAWCD Hydrologic Water Balance Study	Sep-09	\$0	\$180,000	\$180,000	Needs Assessment	C150460	6/30/13
Arkansas	City of Pueblo	Bedload/Sediment Collection and Removal Technology - Fountain Creek	Sep-09	\$75,000	\$150,000	\$225,000	Nonconsumptive	C150465	6/30/13
Arkansas	Purgatoire River Water Conservancy District	Trinidad/Purgatoire River Reach 4 Demonstration Project	Jan-11	\$75,000	\$0	\$75,000	Nonconsumptive	11000000131	12/31/12
Arkansas	Southeastern Colorado Water Conservancy District	The use of excess storage capacity in Blue Mesa Reservoir to avoid or reduce the impact of a Colorado River Compact curtailment in Colorado	Mar-11	\$49,000	\$196,000	\$245,000	Municipal & Industrial	C150496	6/30/13
Arkansas	Colorado Foundation for Water Education	Raising Awareness in 2012: A Statewide Celebration of Colorado Water	Mar-11	\$0	\$30,515	\$30,515	Education	11000000113	12/31/12
Arkansas	Lower Arkansas Valley Water Conservancy District	Super Ditch Delivery Engineering	Mar-11	\$0	\$225,837	\$225,837	Agricultural	C150490	12/31/12
Arkansas	Sangle de Cristo RC&D Council Inc.	A Multi-Media Program for Reporting Crop and Turf Water Use Estimates from the Colorado Agricultural Meteorological Network (ColAgMet)	May-11	\$0	\$0	\$0	Agricultural	121BC000006	6/30/15
Arkansas	City of Trinidad	North Lake Dam Rehabilitation Project	Mar-12	\$12,000	\$727,235	\$739,235	Municipal & Industrial	C150502	12/31/13
Arkansas Basin Total Request				\$311,000	\$2,009,587	\$2,320,587			
Number of Projects 9									
Arkansas/Colorado/Gunnison/No	Pikes Peak Regional Water Authority	Basin Roundtable Project Exploration Committee: Flaming Gorge	Sep-11	\$23,000	\$50,004	\$73,004	Other	131BC0000012	12/31/12
Arkansas/Colorado/Gunnison/North Platte/Rio Grande/Southwest/South Platte/Metro Basin Total Request				\$23,000	\$50,004	\$73,004			
Number of Projects 1									
Arkansas/South Platte	Pikes Peak Regional Water Authority	Rotating Agricultural Fallowing Public Policy Working Group	Jul-11	\$20,000	\$0	\$20,000	Agricultural	121BC000015	12/31/12
Arkansas/South Platte Basin Total Request				\$20,000	\$0	\$20,000			
Number of Projects 1									
Arkansas/South Platte/Metro	Water Environment Research Furdion	Demonstration of Membrane Zero Liquid Discharge Process for Drinking Water Systems	Sep-08	\$0	\$0	\$0		C150456	6/30/13
Arkansas/South Platte/Metro Basin Total Request				\$0	\$0	\$0			
Number of Projects 1									
Colorado	Basalt Water Conservancy District	Missouri Heights	Sep-07	\$25,000	\$0	\$25,000	Needs Assessment	80000000049	1/31/13
Colorado	Town of Gypsum	L.E.D.E. Ditch and Reservoir Reconstruction	Sep-10	\$50,000	\$175,000	\$225,000	Municipal & Industrial	C150494	12/31/13
Colorado	Mesa Conservation District	Small Acreage Irrigation Audit Program	Mar-11	\$18,273	\$0	\$18,273	Agricultural	121BC000001	6/30/13
Colorado	Colorado Mesa University	Colorado Water 2012	Jan-12	\$29,700	\$0	\$29,700	Education	121BC000018	6/30/14
Colorado	Colorado State University	Investigation of Water Savings, Water Quality benefits and Profitability of Sub Surface Drip on Alfalfa in Grand Valley	Mar-12	\$46,894	\$0	\$46,894	Agricultural	121BC000019	4/30/16
Colorado	Blue River Watershed Group	Upper Swan River Restoration Project	Mar-12	\$30,000	\$0	\$30,000	Nonconsumptive	121BC000021	10/31/12
Colorado	Eagle River Watershed Council Inc.	Colorado River Inventory & Assessment	May-12	\$30,000	\$0	\$30,000	Needs Assessment	OE131BC000003	12/31/13
Colorado Basin Total Request				\$229,867	\$175,000	\$404,867			
Number of Projects 7									
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Blue Mesa Reservoir		\$24,500	\$98,000	\$122,500		C150497	6/30/13
Gunnison	North Fork Water Conservancy District (NFWCD) and Fire Mountain Canal and Reservoir Company (FMCC)	Sedimentation Management Study For Paonia Reservoir - North Fork of the Gunnison	Sep-07	\$79,000	\$230,000	\$309,000	Agricultural	C150414	2/28/13



ATTACHMENT

Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
Gunnison	Upper Gunnison River Water Conservancy District (UGRWCD)	Lake San Cristobal Outlet Structure Modification--Phase III	Sep-08	\$0	\$120,960	\$120,960	Municipal & Industrial	C150444A	6/30/11
Gunnison	Gunnison County	75 Ditch Diversion Improvement and Feature Enhancements	May-10	\$46,100	\$0	\$46,100	Nonconsumptive	121BC000002	6/30/15
Gunnison	Leroux Creek Water Users Association (LCWUA)	Hanson Reservoir Outlet Rehabilitation	Jul-10	\$0	\$0	\$0	Agricultural	11000000068	6/30/13
Gunnison	Colorado State University	Agricultural Weather Data Delivery Improvements to Uncompahgre Valley Irrigations	Sep-11	\$77,000	\$35,000	\$112,000	Agricultural	C150499	12/31/14
Gunnison	Grand Mesa Reservoir Company	Lining Outlet for Grand Mesa Reservoir #6	Nov-11	\$19,840	\$0	\$19,840	Agricultural	121BC000022	12/31/12
Gunnison	Colorado Mesa University	Gunnison Basin Roundtable Education Program	Mar-12	\$19,750	\$0	\$19,750	Education	121BC000020	6/30/14
Gunnison	North Delta Irrigation Company	Tunnel Reconstruction Project	Mar-12	\$40,000	\$370,000	\$410,000	Agricultural	C150478	4/1/13
Gunnison	Delta Conservation District	North Fork of the Gunnison Invasive Weed Removal	May-12	\$20,000	\$0	\$20,000	Other	131BC000007	12/31/13
Gunnison Basin Total Request				\$326,190	\$863,960	\$1,180,150			
Number of Projects			10						
Metro	South Metro Water Supply Authority	Aquifer Recharge Pilot Study	Sep-09	\$0	\$425,000	\$425,000	Municipal & Industrial	C150474	6/30/13
Metro	Douglas County Water Resource Authority	Feasibility Study for Bureau of Reclamation Funding from the National Rural Water Supply Act	Sep-09	\$100,000	\$500,000	\$600,000	Municipal & Industrial	C150470	6/30/13
Metro	South Metro Water Supply Authority	Aquifer Recharge Pilot Study	Sep-10	\$0	\$125,000	\$125,000	Municipal & Industrial	C150474	6/30/13
Metro	Douglas County Water Resource Authority	Rotary Sprinkler Nozzle Retrofit	Sep-10	\$0	\$250,000	\$250,000	Municipal & Industrial	C150471	6/30/13
Metro	Rural Water Authority of Douglas County	Rural Douglas County groundwater-level monitoring network	Sep-10	\$28,263	\$84,792	\$113,055	Municipal & Industrial	C150473	6/30/13
Metro Basin Total Request				\$128,263	\$1,384,792	\$1,513,055			
Number of Projects			5						
North Plate	USFS	Effects of Min pine beetle and forest mgmt on water quantity, quality, and forest recovery N.P. and Upper CO River basins	Sep-08	\$212,306	\$164,618	\$376,923	Other	C150440	6/30/13
North Plate	Colorado Climate Center--CSU	Monitoring the effects of weather conditions on the evapotranspiration in N.P.Basin	Sep-08	\$50,409	\$50,409	\$100,818	Agricultural	C150438	6/30/14
North Plate	Ducks Unlimited, Inc.	North Park Irigated Meadow Conservation Program - Phase I	May-10	\$20,000	\$0	\$20,000	Nonconsumptive	10000000126	6/30/13
North Plate	Jackson County Water Conservancy District	Structures for Water Control: Headgates and Diversion	Sep-11	\$128,828	\$0	\$128,828	Agricultural	C150488	12/31/13
North Plate	Jackson County Water Conservancy District	Structures for Water Control: Headgates and Diversion - Additional Funds Request	May-12	\$55,055	\$0	\$55,055		C150488	12/31/13
North Plate Basin Total Request				\$466,598	\$216,027	\$681,624			
Number of Projects			5						
Rio Grande	Colorado Rio Grande Restoration Foundation	2008 Rio Grande Riparian Stabilization Project	Sep-08	\$35,000	\$250,000	\$285,000	Nonconsumptive	C150452	12/31/12
Rio Grande	Lower Willow Creek Restoration Company	Lower Willow Creek Restoration Project	Sep-09	\$50,000	\$200,000	\$250,000	Nonconsumptive	C150467	12/31/14
Rio Grande	Colorado Rio Grande Restoration Foundation	Rio Grande Conservation Reserve Enhancement Program (CREP) Phase II - Implementation	Sep-09	\$31,500	\$0	\$31,500	Agricultural	10000000056	12/31/12
Rio Grande	Colorado Rio Grande Restoration Foundation	2009 Rio Grande Riparian Stabilization Project - Phase 4	May-10	\$50,000	\$0	\$50,000	Nonconsumptive	C150486	12/31/14
Rio Grande	Conejos Water Conservancy District	Platono Reservoir Crest of Dam Repair	Sep-11	\$15,000	\$135,000	\$150,000	Agricultural	C150495	12/31/12
Rio Grande	Colorado Rio Grande Restoration Foundation	McDonald Ditch - Plaza Project - Phase 2	Sep-11	\$20,000	\$275,000	\$295,000	Nonconsumptive	C150492	3/31/15
Rio Grande	Rio Grande Watershed Conservation and Education Initiative	Water 2012: The Rio Grande Basin Partnering for Colorado's Water Future	Nov-11	\$15,600	\$0	\$15,600	Education	121BC000017	12/31/12
Rio Grande	Terrace Reservoir Irrigation Company, Inc.	Terrace Reservoir Spillway Replacement	Mar-12	\$75,000	\$1,425,000	\$1,500,000	Agricultural	C150500	12/31/14



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Basin	Applicant	Name of Water Activity	CWCB Meeting	Basin Account Approved	Statewide Amount Approved	Total Request	Type of Water Activity	Number	Project Expiration Date
Rio Grande	Conjegos Water Conservancy District	Conjegos River System Gauging Stations Project	Mar-12	\$20,000	\$387,280	\$407,280	Agricultural	C150501	6/30/14
Rio Grande	Rio Grande County	Rio Grande County Hydrogeologic Study	Jul-12	\$99,564	\$0	\$99,564		13BC000008	12/31/13
Rio Grande Basin Total Request				\$441,664	\$2,672,280	\$3,083,944			
Number of Projects 10									
South Platte	Ducks Unlimited, Inc.	Weid County School Dist RE1 Wetland Partnership	Jul-08	\$42,110	\$0	\$42,110	Nonconsumptive	9000000063	12/31/13
South Platte	Ducks Unlimited, Inc.	S.P. Water protection and restoration	Sep-08	\$0	\$825,552	\$825,552	Nonconsumptive	C150432	6/30/13
South Platte	The Nature Conservancy of Colorado	Antikaree River Well retirement program, Republican River basin, CO	Sep-08	\$19,984	\$79,936	\$99,920	Agricultural	9000000084	3/29/14
South Platte	Lower South Platte Water Conservancy District	Lower South Platte Water Cooperative Organizational Analysis	Sep-10	\$60,977	\$200,000	\$260,977	Agricultural	C150476	6/30/13
South Platte	Ducks Unlimited, Inc.	Development of Decision Support Model for Identifying & Ranking Waterflow and Wildlife Related Recharge Projects along the South Platte River	Sep-10	\$0	\$85,421	\$85,421	Nonconsumptive	OE121BC000023	6/30/13
South Platte	Division of Water Resources	Alluvial Aquifer Accretion/Depletion Analysis Tool	Mar-11	\$0	\$200,000	\$200,000	Other	CC154209	5/31/14
South Platte	Ducks Unlimited, Inc.	South Platte River Preatrophye Control Pilot	Sep-11	\$35,000	\$30,000	\$65,000	Nonconsumptive	13BC0000004	8/31/14
South Platte Basin Total Request				\$156,071	\$1,420,909	\$1,576,980			
Number of Projects 7									
South Platte/Metro	The Greenway Foundation	South Platte River Recreation and Habitat Improvement Preliminary Design	Sep-11	\$75,000	\$300,000	\$375,000	Nonconsumptive	C150493	6/28/13
South Platte/Metro Basin Total Request				\$75,000	\$300,000	\$375,000			
Number of Projects 1									
Southwest	La Plata Archuleta Water District	La Plata Archuleta Water District Permitting	Sep-09	\$0	\$400,000	\$400,000	Municipal & Industrial	C150459	6/30/13
Southwest	Florida Mesa Canal Companies (Florida Canal, Florida Farmers Ditch, Florida Enlargement Ditch, and the Florida Co-operative Ditch Company)	Canal Seepage Reduction Program	Sep-10	\$0	\$775,000	\$775,000	Agricultural	C150475	6/30/13
Southwest	San Juan Citizens Alliance	A Way Forward: The Dolores River Below McPhee Reservoir	Nov-10	\$25,000	\$0	\$25,000	Nonconsumptive	121BC0000011	12/31/12
Southwest	Aspen Springs Metro District	Aspen Springs Metro Water Filling Station	Nov-10	\$0	\$0	\$0	Municipal & Industrial	13BC0000002	7/31/13
Southwest	La Plata Water Conservancy District	La Plata River Water Resources Operations Model	Mar-11	\$0	\$148,823	\$148,823	Agricultural	C150477	1/31/13
Southwest Basin Total Request				\$25,000	\$1,323,823	\$1,348,823			
Number of Projects 5									
Yampa/White	Town of Yampa	Town of Yampa Water Facilities Plan and storage tank upgrades	Sep-08	\$61,062	\$0	\$61,062	Municipal & Industrial	9000000090	6/30/13
Yampa/White	Bear River Reservoir Company	Siltwater Reservoir Seepage Project	Sep-09	\$189,000	\$0	\$189,000	Agricultural	C150469	8/20/15
Yampa/White	Yellow Jacket Water Conservancy District	Yellow Jacket Water Storage Feasibility Study	Jan-10	\$220,800	\$0	\$220,800	Agricultural	C150472	6/30/13
Yampa/White	Colorado Climate Center-CSU	Improvement of Lysimeter Operations and Consumptive Use Quantification in High-Altitude, Irrigated Meadows in the Yampa White Basin	Sep-10	\$10,000	\$10,978	\$20,978	Agricultural	11000000058	6/30/15
Yampa/White	The Upper Walker Ditch Company/Walker Ditch Company	Yampa River/Walker Ditch River Restoration Project	Mar-11	\$20,000	\$20,000	\$40,000	Agricultural	121BC0000010	6/30/13
Yampa/White	Mofat County	Yampa-White Basin Projects and Methods Analysis	Mar-11	\$0	\$0	\$0	Other	C150481	12/31/12
Yampa/White	The Friends of the Yampa	Yampa River Structures Project	Sep-11	\$50,000	\$0	\$50,000	Nonconsumptive	131BC0000006	12/31/13
Yampa/White Basin Total Request				\$550,862	\$30,978	\$581,840			
Number of Projects 7									