

**COLORADO WATER RESOURCES &
POWER DEVELOPMENT AUTHORITY**

BOARD PROGRAM WORK SESSION

October 5, 2017

Work Session 4 p.m. (dinner provided 5-6 p.m.)

Authority Conference Room

1580 Logan St. Ste. 610, Denver, CO 80203

Board Members: Webb Jones (Chair), Judy Skram, Steve Price, Roy Heald, Bob Wolff, Bruce Smith, George Corkle, Mike Berry and Steve Vandiver

Authority Staff: Michael Brod, Keith McLaughlin, Justin Noll, Jim Griffiths, Wesley Williams and Sabrina Speed

Others present: Scott Olene (DOLA), Michael Beck (WQCD)

AGENDA

- 1) WQCD 2018 Budget Discussion; Board discussion (Mike Beck)
- 2) CEOS Demonstration; Board discussion (Nick Young, Mike Beck, Brad Monson)
- 3) Legislative Update; Board discussion and possible board action (Mike Brod)
- 4) Leveraged/Direct/Interim/DAC Interest Rates for 2017; Board discussion and possible board action (Jim)
- 5) Green Project Reserve Policy; Board discussion and possible board action (Keith)
- 6) Other Items at the Board's pleasure



COLORADO
Department of Public
Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

August 18, 2017

Mr. Mike Brod, Executive Director
Colorado Water Resources and Power Development Authority
1580 Logan Street
Denver, Colorado 80203

Re: 2018 Water Quality Control Division Budget

Dear Mr. Brod,

The 2018 Water Quality Control Division budget is being submitted in accordance with the memorandum of agreements for consideration by the Colorado Water Resources and Power Development Authority Board of Directors. Attached are several spreadsheets detailing information for the Drinking Water Revolving Fund (DWRF), the Water Pollution Control Revolving Fund (WPCRF), and the Drinking Water Set-Asides. The following narrative is provided as an explanation of each request. As requested by the board, the division has submitted the budget to include only expenditures that the division anticipates to expend in 2018 along with any expenditures that will occur in future years. The division will provide actuals for the 2018 budget by December 1, 2017.

Personal Services

Personal service costs have slightly increased to cover the costs with the increase of employee's salaries, health, life and dental benefits. (4% Federal Grant/Loan Admin Fees)

New Personal Service Request-100% Drinking Water Loan Admin Fees
.5 FTE Request: Operator Certification Program
Annual Cost: \$68,442

The division is responsible for implementing and managing the operator certification program through Regulation 100, Water and Wastewater Facility Operators Certification Requirements. This includes rulemaking hearings, operator classification, operator compliance, operator disciplinary actions, technical assistance and training, and general liaison work with the Water and Wastewater Facility Operators Certification Board. The division accomplishes this through a number of sections within the program; compliance assurance section, engineering section, and the community development and partnership section. Having a successful operator certification program is a requirement for Colorado to receive 20 percent of the DWSRF capitalization grant.

1 FTE Request: Drinking Water Pursuing Excellence Program
Annual Cost: \$106,025

At the request of the authority board in 2015, we identified and implemented a financial incentive for drinking water systems to participate in the Drinking Water Pursuing Excellence Program. This program provides up to \$25,000 for capital construction grants for systems that meet various program achievement levels. In two years, this incentive has been instrumental in increasing participation in the program. For example, we currently have 12 systems in the program totaling more than \$149,000 in contracts. With the current DW budget shortfall this program will likely be disrupted, reduced or discontinued as a result of other program priorities.



1 FTE Request: Lead Technical Assistance
Proposed Annual Cost: \$137,555

Following the 2016 Flint, Michigan lead crisis, EPA issued clarification memos and updated guidance regarding implementation of the Lead and Copper Rule. All public water systems making treatment changes, including those that are seeking DWSRF funding, are now required to perform additional and very complicated corrosion control chemistry evaluations. Given that many public water systems are smaller, it may be beyond their technical capacity. The division would like to provide additional assistance to these applicants early in the loan process. This effort will also help systems across Colorado transition to the impending rule updates.

100% Clean Water Loan Admin Fees
1 FTE Request: Project Manager for Clean Water Program Special Projects
Proposed Annual Cost: \$102,400

This position plays a critical role in advancing the mission of the clean water program, keeping WPCRF admin fee funded projects on track and identifying measurable results where applicable. This is currently a limited term position; however, as with any limited term position, the division has had a difficult time recruiting and retaining staff knowing the position is temporary. Currently this position is filled and we would like to retain the project knowledge, systems, management and reporting currently performed by this staff member. In addition, this staff member is responsible for all state contracting requirements, including monitoring, site visits, and project close-out.

Operating Costs

- DWRF operating, travel, and document storage costs have increased by 2.5% from 2017 - \$32,288 (\$16,913 4% Federal Grant and \$15,375 Loan Admin Fees)
- WPCRF operating, travel, and document storage costs have increased by 3% from 2017 -\$37,852 (\$20,342 4% Federal Grant and \$17,510 from Loan Admin Fees)

Information Management Projects and OIT Contract Services (50% WPCRF and 50% DWRF Admin Fees)

- Colorado Environmental Online System

\$60,000 new funding for 2018

The Colorado Environmental Online System (CEOS) is the new online portal for the SRF programs that provides applicants access for submitting, applying, and managing all aspects of their SRF-funded projects. Further, the portal serves as the clearinghouse for all compliance-related activities the SRF program is required to collect and report to the EPA. This funding request is for the SRF portion of the annual operating costs along with funding to support any additional system development needed as a result of full implementation.

Water Pollution Control Activities (Request to Fund All Activities 100% WPCRF Loan Admin Fees)

2018 Funding Requests

No.	Project Name	Amount requested (\$)
1.	Lab analysis, "Clean Water State Revolving Fund Measurable Results Study"	\$100,000
2.	Lower Arkansas River Basin Watershed-based Planning and Project Implementation	\$483,000

3.	Water Quality Standards Support	\$523,000
4.	Disaster Support	\$200,000
5.	Statewide Lakes/Reservoir TMDL Development and Implementation Support	\$450,000
6.	Source Water Protection	\$300,000
	Total	\$2,056,000

- Lab analysis for the “Clean Water State Revolving Fund Measurable Results Study”

Project: Lab analysis, “Clean Water State Revolving Fund Measurable Results Study”

Proposed Cost: \$100,000

Project Timeline: 2018 (1 year)

This is an ongoing request to continue to support the Clean Water State Revolving Fund Measurable Results program. This work is to systematically and scientifically measure the improvements in water quality of the receiving streams created by the infrastructure improvements funded by the WPCRF. The data received through this program is used in the WPCRF annual report the EPA. Further, the SRF agencies utilize the information gained from these types of studies to identify, prioritize, and provide direct outreach, technical and financial assistance for projects identified as having the greatest opportunity to protect, and to restore and improve the waters of Colorado.

- Lower Arkansas River Basin Watershed-based Planning and Project Implementation

Project: Lower Arkansas River Basin - BMP Implementation

Proposed Cost: \$300,000

Project Timeline: 2018-2019 (2 years)

This proposed project will continue the momentum gained with local communities through previous program-funded nonpoint source projects in the Lower Arkansas. Specifically, this project will be the next phase of best management practice (BMP) implementation to help address selenium impacts to the Lower Arkansas from nonpoint sources. Additional nonpoint source controls are necessary to maximize the reduction of selenium across a large geographic area. The objective of this BMPs project is to install more sprinkler systems in targeted areas in the Lower Arkansas River Basin. Sprinkler systems are one of the priority BMPs being evaluated by a large, collaborative working group for effectiveness in controlling selenium loading to the Arkansas River. Current funding covers only one sprinkler system in a large heavily flood-irrigated watershed and because sprinkler systems are thought to be an important BMP for selenium control, installing additional systems will allow a more definitive analysis of effectiveness which will help focus future resources on the most effective BMPs for reducing selenium transport.

Project: Lower Arkansas River Basin - Uranium Sources

Proposed Cost: \$183,000

Project Timeline: 2018-2019 (2 years)

This project will address data gaps identified through the previous program-funded uranium project in the Lower Arkansas. Filling these gaps will help target best available approaches for improving water quality impacted by uranium in support of local communities. The objective of this deep drilling program is to obtain detailed geologic information of surficial deposits and bedrock beneath the irrigated area of the Lower Arkansas River basin. This information is needed to identify sources and transport mechanisms for uranium species that ultimately end up as soluble uranium in the shallow return-flow groundwater seeping into the Arkansas River. Information to be obtained includes detailed geologic descriptions of the strata intercepted, as well as continuous relatively undisturbed collection of samples for possible geochemical analysis. The boreholes will also be completed as monitoring wells for ongoing water level monitoring and water quality sampling efforts. With the possibility of there being multiple groundwater flow systems beneath the irrigated area, the monitoring wells may be installed as nested completions. Initial geologic evaluation indicates that there could be both shallow meteoric and deep basinal groundwater systems. The nested monitoring wells will facilitate evaluation of differential vertical hydraulic-head gradients and water quality conditions between multiple systems.

- Water Quality Standards Support

Project: Small Community Lagoon Treatment Plant Statewide Inventory

Proposed Cost: \$140,000

Project Timeline: 2018 (1 year)

This project will support the development of an inventory of communities with lagoon treatment plants to identify long-term compliance challenges. The project includes building a complete inventory of small communities (treatment plants less than 1 MGD), that identifies the specific treatment configurations and technologies employed at each of the facilities. For example, the inventory would identify if treatment plant utilizes an aerated lagoon, activated sludge, or sequencing batch reactor treatment. The condition of plant may indicate that lagoon liners need to be repaired or that the existing equipment at the plant is reaching the end of its useful life. The Division does not presently have a comprehensive inventory or database where this type of information can be easily accessed. Without an inventory it is a significant challenge, especially with smaller rural facilities, to understand if a Discharger Specific Variance (DSV) may be an appropriate or effective regulatory path to compliance. For each of these facilities, the Division will identify current and probable future compliance challenges, considering implementation of nitrate standards, EPA's new ammonia criteria, temperature, selenium and implementation of implication of nutrient standards required by Regulation 85. The purpose of the inventory is to provide information that will help communities and the Division anticipate future water quality requirements and considerations for long-term planning. The Division will use the inventory information to provide compliance assistance regarding DSVs for facilities with concerns on the economic feasibility of meeting future permit requirements. This project would be completed through funding for a term-limited engineer for 1 year.

Project: Small Community Lagoon Treatment Plant Statewide Inventory

Proposed Cost: \$383,000

Project Timeline: 2018-2019 (2 years)

There are at least 10 small communities in Colorado with lagoon treatment plants that discharge to zero or near zero low-flow streams, have permit limits for ammonia, and cannot feasibly achieve the effluent limits with lagoon technology. These communities may not have the financial capability to replace the lagoon with a mechanical plant capable of complying with ammonia permit limits. The Water Quality Control Commission's rules allow for discharger specific variances (DSVs) to address these situations. However, few communities that may qualify for DSVs have requested them since 2013, when this provision became effective. The goal of this project is to make the DSV option more accessible to these communities and others that are identified through the inventory evaluation identified above.

The division will support this work through a limited term FTE for 2 years. The additional staff would allow the division to develop a proposal to submit to the WQCC, on a behalf of a set of small and/or disadvantaged communities that meet the qualifications for a DSV. While division staff are always available to provide assistance to permittees who develop their own proposals, having the division develop the DSV proposal on behalf of these communities reduces the cost of the process for these communities to seek appropriate regulatory changes. In 2016, division staff successfully developed a similar ammonia DSV proposal for the Town of Nucla; however, staff do not currently have the capacity to develop DSV proposals for all small communities that are in a similar, qualifying situation.

The division will develop a DSV proposal only for facilities that want to participate in the project and are willing to provide the needed site-specific information about their facilities and finances to the division. The division plans to request a rulemaking hearing in 2019 for the proposed DSVs. The program-funded feasibility study for ammonia treatment in lagoons is nearly complete and will be used to support these DSV requests, and it will be made a publicly available as a resource that anyone can use.

- Disaster Support

Project: Disaster Support - Wildfire and Flood Recovery Support
Proposed Cost: \$200,000
Project Timeline: 2018-2019 (2 years)

Disaster support funding has been invaluable for helping local communities respond to wildfire and flood impacts. The additional funds requested will allow the division to be responsive to local community needs associated with future disaster recovery. Project timeline is two years (2018-2019).

- Statewide Lakes/Reservoir TMDL Development and Implementation Support

Project: TMDL Development and Implementation Support - E. coli
Proposed Cost: \$450,000
Project Timeline: 2018-2019 (2 years)

TMDLs are an important part of identifying best approaches to address water quality impacts in local communities. This project will support development of E. coli TMDLs for 303(d) listed impairments in the South Platte basin on segments of Sand Creek, Clear Creek, and the Cache La Poudre River through the collection of two seasons of E. coli and stream discharge data. E. coli is the water quality standard that was adopted to protect recreational uses so data are critical for the development of TMDLs that when implemented will protect local communities using these urban corridor streams for recreation. Because E. coli data are highly variable, assessment methods require data to be collected at a high frequency which results in the need to develop TMDLs based on fine spatial and temporal scale data. The TMDL Workgroup will partner with the University of Colorado to conduct monitoring for E. coli and stream discharge, at a frequency and spatial resolution that will support development of a high-quality robust TMDLs for each of the impaired waterbodies.

- Source Water Protection

Project: Source Water Protection - Extended Plan Implementation
Proposed Cost: \$300,000
Project Timeline: 2018-2019 (2 years)

The objective of this request is to continue source water protection and watershed planning efforts with our long standing partners at the Colorado Rural Water Association (CRWA). CRWA has a broad rural public water system based membership where the mission focus is directed on professional training, rural community technical public assistance, and excellence in effective local implementation of source water protection plans. The Water Quality Control Division and CRWA will have supporting, but yet independent roles in achieving enhanced statewide source water protection implementation. The partners will collaborate on four main concepts: developing and implementing local and rural public water system source water protection plans, public server access to enable broad public and interagency access to developed plans, a collaborative effort to collect, distribute, and enter critical water system infrastructure data into the US Forest Service Wildfire Decision Support System (WFDSS) for wildfire and watershed protection, and facilitating local protection plans that may lead to Memorandums of Understanding (MOU's) between counties, local governments, and public water systems. These enhanced source water protection planning collaborative efforts have a direct nexus and mutual focus with watershed protection efforts. The project will leverage existing statewide protection plan partnerships to facilitate watershed restoration and protection, protect watershed health and drinking water sources, and to further implement local and rural protection plans.

To date, the division has invested approximately \$5.0 million dollars specifically focused on statewide source water protection planning efforts. Over 200 source water protection plans have already been implemented in Colorado covering approximately 24% of community public water systems, 49% of the state's population or 2.5 million people, and thousands of acres of watershed protection areas in Colorado. The continuation of these enhanced protection planning activities and partnerships are to

strengthen our statewide concept of "AIM"ing for watershed and source water protection (increase awareness, information sharing, and management) in critical watershed and drinking water protection areas and to lead sustainable source water protection efforts.

Drinking Water Set Asides

The Drinking Water Set Aside budgets are included in the attached spreadsheet and are consistent with EPA approved work plans.

Michael Beck, Nicole Rowan, Ron Falco and I are available to meet with you, staff and the Budget Committee to review our budget request and answer questions. I appreciate the work you, staff, the Board, and the Water Quality Control Commission have done over the years that have led to a more coordinated approach for funding the water quality priorities in the State of Colorado.

Sincerely,



Patrick Pfaltzgraff, Director
Water Quality Control Division

Attachments: Drinking Water Revolving Fund Budget
Water Pollution Control Revolving Fund Budget
Drinking Water Set Asides Budget
Appropriation (Project) Projections

	2017 Approved Budget	Est. CY17 Program Ending Balance	CY18 Request	Est. CY18 Program Beginning Balance	Est. CY18 Projected Expenditure	Future Year(s) Projection
<u>Personal Services/Fringe Benefits</u>	\$ 1,113,531		\$ 1,176,337		\$ 1,176,337	
	10.55 FTE		10.55 FTE		10.55 FTE	
Fringe is included in salary figures. The percentage of basic salary varies depending on benefits selected by each employee. May include any of the following: Health, life, disability and dental.						
4% Federal Grant	\$ 481,379		\$ 497,202		\$ 497,202	
Loan Admin Fees	\$ 632,152		\$ 679,135		\$ 679,135	
<u>New Personal Services Request</u>			\$ 312,022		\$ 312,022	
.5 FTE Operator Certification Program			\$ 68,442		\$ 68,442	
1.0 FTE Drinking Water Pursuing Excellence Program			\$ 106,025		\$ 106,025	
1.0 FTE Lead Technical Assistance			\$ 137,555		\$ 137,555	
4% Federal Grant						
Loan Admin Fees			\$ 312,022		\$ 312,022	
<u>DWRF Admin Activities</u>	\$ 150,000	\$ 150,000		\$ 150,000	\$ 150,000	
Excellence Program Pilot Project	\$ 150,000	\$ 150,000		\$ 150,000	\$ 150,000	
4% Federal Grant						
Loan Admin Fees	\$ 150,000	\$ 150,000		\$ 150,000	\$ 150,000	
<u>Operating & Travel</u>	\$ 31,500		\$ 32,288		\$ 32,288	
General O&T	\$ 31,500		\$ 32,288		\$ 32,288	
4% Federal Grant	\$ 16,500		\$ 16,913		\$ 16,913	
Loan Admin Fees	\$ 15,000		\$ 15,375		\$ 15,375	
<u>Information Management Projects</u>	\$ 60,000		\$ 30,000		\$ 30,000	
CEOS	\$ 60,000		\$ 30,000		\$ 30,000	
4% Federal Grant						
Loan Admin Fees	\$ 60,000		\$ 30,000		\$ 30,000	
<u>Indirect</u>	\$ 294,027		\$ 378,358		\$ 414,958	
Approved Federal Rates: on-site 24.4% off-site 18% flow-thru 1.1%						
4% Federal Grant	\$ 121,482		\$ 125,444		\$ 125,444	
Loan Admin Fees	\$ 172,545	\$ 36,600	\$ 252,914	\$ 36,600	\$ 289,514	
Total	\$ 1,649,058 *	\$ 186,600	\$ 1,929,005	\$ 186,600	\$ 2,115,605	
Total 4% Federal Grant	\$ 619,361	\$ -	\$ 639,559	\$ -	\$ 639,559	
Total Loan Admin Fees	\$ 1,029,697	\$ 186,600	\$ 1,289,446	\$ 186,600	\$ 1,476,046	
2018 New Requests	\$ 1,929,005					
2018 Projected Expenditures	\$ 2,115,605					

*2017 Division's approved budget with multi-year contracts \$1,799,059

	2017 Approved Budget	Est. CY17 Program Ending Balance	CY18 Request	Est. CY18 Program Beginning Balance	Est. CY18 Projected Expenditure	Future Year(s) Projection
Personal Services/Fringe Benefits	<u>\$ 1,211,189</u> 11.05 FTE		<u>\$ 1,293,378</u> 11.05 FTE		<u>\$ 1,293,378</u>	
Fringe is included in salary figures. The percentage of basic salary varies depending on benefits selected by each employee. May include any of the following: Health, life, disability and dental.						
4% Federal Grant	\$ 481,379		\$ 586,695		\$ 586,695	
Loan Admin Fees	\$ 729,810		\$ 706,683		\$ 706,683	
New Personal Services Request			<u>\$ 102,400</u>		<u>\$ 102,400</u>	
Project Manager for Clean Water Program Special Projects			\$ 102,400		\$ 102,400	
4% Federal Grant						
Loan Admin Fees			\$ 102,400		\$ 102,400	
Limited Term Personal Services Request	<u>\$ 245,031</u>	<u>\$ 218,421</u>	<u>\$ -</u>	<u>\$ 218,421</u>	<u>\$ 110,000</u>	<u>\$ 108,421</u>
Project Manager: 3-year Limited Term (1/1/16-12/31/18)	\$ 100,000	\$ - **		\$ -	\$ -	\$ -
Reuse 3-year Limited Term (1/1/17-12/31/19)	\$ 80,000	\$ 218,421		\$ 218,421	\$ 110,000	\$ 108,421
Clean Water Needs Survey: 2-year Limited Term (1/1/17-12/31/18)	\$ 65,031	\$ - **		\$ -	\$ -	\$ -
4% Federal Grant						
Loan Admin Fees	\$ 245,031	\$ 218,421	\$ -	\$ 218,421	\$ 110,000	\$ 108,421
Operating & Travel	<u>\$ 36,750</u>		<u>\$ 37,852</u>		<u>\$ 37,852</u>	
General O&T	\$ 36,750		\$ 37,852		\$ 37,852	
4% Federal Grant	\$ 19,750		\$ 20,342		\$ 20,342	
Loan Admin Fees	\$ 17,000		\$ 17,510		\$ 17,510	
WPCRF Admin Activities	<u>\$ 3,204,667</u>	<u>\$ 2,603,326</u>	<u>\$ 2,056,000</u>	<u>\$ 4,659,326</u>	<u>\$ 3,151,991</u>	<u>\$ 1,507,335</u>
Lab Analysis for the "Clean Water State Revolving Fund Measurable Results Study"	\$ 100,000		\$ 100,000	\$ 100,000	\$ 100,000	\$ -
Statewide Water Quality Management Planning	\$ 75,000	\$ 450,000		\$ 450,000	\$ 350,000	\$ 100,000
DRMS Contract/Remediation Projects *	\$ 804,961	\$ 121,945 **		\$ 121,945	\$ 121,945	\$ -
Regulation 85 Support	\$ 218,925	\$ - **		\$ -	\$ -	\$ -
eRams**	\$ 270,523	\$ 374,477		\$ 374,477	\$ 225,000	\$ 149,477
Lower Ark River Basin Watershed-based Planning and Project Implementation*	\$ 425,000	\$ 510,614	\$ 483,000	\$ 993,614	\$ 767,262	\$ 226,352
Water Quality Standards Support	\$ 406,594	\$ 379,617	\$ 523,000	\$ 902,617	\$ 590,384	\$ 312,233
Disaster Support	\$ 373,274	\$ -	\$ 200,000	\$ 200,000	\$ 200,000	\$ -
Nonpoint Source Watershed Planning	\$ 135,390	\$ 256,673 **		\$ 256,673	\$ 132,400	\$ 124,273
Statewide Lakes/Reservoir TMDL Development and Implementation Support	\$ 170,000	\$ 165,000	\$ 450,000	\$ 615,000	\$ 370,000	\$ 245,000
Mining Activities	\$ 125,000	\$ 145,000		\$ 145,000	\$ 145,000	\$ -
Operation and Maintenance for NPS BMP	\$ 100,000	\$ 200,000		\$ 200,000	\$ -	\$ 200,000
Source Water Protection (Colorado Rural Water Association)			\$ 300,000	\$ 300,000	\$ 150,000	\$ 150,000
4% Federal Grant						
Loan Admin Fees	\$ 3,204,667	\$ 2,603,326	\$ 2,056,000	\$ 4,659,326	\$ 3,151,991	\$ 1,507,335
Information Management Projects	<u>\$ 60,000</u>		<u>\$ 30,000</u>	<u>\$ 30,000</u>	<u>\$ 30,000</u>	<u>\$ -</u>
CIMPLE/SRF Lean Implementation	\$ 60,000		\$ 30,000	\$ 30,000	\$ 30,000	\$ -
4% Federal Grant						
Loan Admin Fees	\$ 60,000		\$ 30,000	\$ 30,000	\$ 30,000	\$ -
Indirect	<u>\$ 414,176</u>	<u>\$ 81,931</u>	<u>\$ 501,601</u>	<u>\$ 233,726</u>	<u>\$ 481,004</u>	
Approved Federal Rates:						
on-site 24.4%						
off-site 18%						
flow-thru 1.1%						
4% Federal Grant	\$ 122,275	\$ -	\$ 148,117	\$ -	\$ 148,117	
Loan Admin Fees	\$ 291,901	\$ 81,931	\$ 353,484	\$ 233,726	\$ 332,887	
Total	<u>\$ 5,171,813</u> *	<u>\$ 2,903,678</u>	<u>\$ 4,021,231</u>	<u>\$ 5,141,473</u>	<u>\$ 5,206,625</u>	<u>\$ 1,615,756</u>
Total 4% Federal Grant	\$ 623,404	\$ -	\$ 755,154	\$ -	\$ 755,154	\$ -
Total Loan Admin Fees	\$ 4,548,409	\$ 2,903,678	\$ 3,266,077	\$ 5,141,473	\$ 4,451,471	\$ 1,615,756
2018 New Requests	\$ 4,021,231					
Total 2018 Projected Expenditures	\$ 5,206,625					

*2017 Division's approved budget with multi-year contracts \$7,975,285

**Funds to be deobligated back to program (see 2018 WQCD Estimated Projections)

2018 ESTIMATED PROJECTIONS

Clean Water Program Line	Project Appropriation	2017 Projection/Actual	2018 Request	Est. CY18 Program Beginning Balance	2018	2019	2020	Total Projections	Difference
LT Project Manager	\$259,215			\$0					
	Annual budget projection	\$100,000						\$0	\$0
	Actual as of August 15, 2017	\$50,877							
	Projection through December 31, 2017	\$50,000							
	Deobligate back to program	\$158,338							
LT Reuse	\$300,000			\$218,421	\$110,000	\$108,421		\$218,421	\$0
	Annual budget projection	\$80,000							
	Actual as of August 15, 2017	\$31,579							
	Projection through December 31, 2017	\$50,000							
Clean water needs survey	\$164,031			\$0					
	Annual budget projection	\$164,031						\$0	\$0
	Actual as of August 15, 2017	\$0							
	Projection through December 31, 2017	\$0							
	Deobligate back to program	\$164,031							
Statewide Water Quality Management Planning	\$450,000			\$450,000	\$350,000	\$100,000		\$450,000	\$0
	Annual budget projection	\$75,000							
	Actual as of August 15, 2017	\$0							
	Projection through December 31, 2017	\$0							
DRMS Contract/Remediation Projects	\$1,206,007			\$121,945	\$121,945			\$121,945	\$0
	Annual budget projection	\$804,961							
	Actual as of August 15, 2017	\$345,831							
	Projection through December 31, 2017	\$143,816							
	Deobligate back to program	\$594,415							
Regulation 85 Support	\$234,037			\$0	\$0	\$0	\$0	\$0	\$0
	Annual budget projection	\$218,925							
	Actual as of August 15, 2017	\$94,845							
	Projection through December 31, 2017	\$120,000							
	Deobligate back to program	\$19,192							
eRams	\$535,000			\$374,477	\$225,000	\$149,477		\$374,477	\$0
	Annual budget projection	\$270,523							
	Actual as of August 15, 2017	\$112,946							
	Projection through December 31, 2017	\$47,577							
Lower Ark River Basin Watershed-based Planning and Project Implementation	\$976,352		\$483,000	\$993,614	\$767,262	\$150,000	\$76,352	\$993,614	\$0
	Annual budget projection	\$425,000							
	Actual as of August 15, 2017	\$87,672							
	Projection through December 31, 2017	\$378,066							
Water Quality Standards Support	\$729,310		\$523,000	\$902,617	\$590,384	\$184,567	\$127,666	\$902,617	\$0
	Annual budget projection	\$406,594							
	Actual as of August 15, 2017	\$135,741							
	Projection through December 31, 2017	\$213,952							
Disaster Support	\$373,274		\$200,000	\$200,000	\$200,000			\$200,000	\$0
	Annual budget projection	\$373,274							
	Actual as of August 15, 2017	\$0							
	Projection through December 31, 2017	\$373,274							
Nonpoint Source Watershed Planning	\$300,000			\$256,673	\$132,400	\$124,273		\$256,673	\$0
	Annual budget projection	\$135,390							
	Actual as of August 15, 2017	\$0							
	Projection through December 31, 2017	\$43,000							
	Deobligate back to program	\$327							

2018 ESTIMATED PROJECTIONS

Clean Water Program Line	Project Appropriation	2017 Projection/Actual	2018 Request	Est. CY18 Program Beginning Balance	2018	2019	2020	Total Projections	Difference
Statewide Lakes/Reservoir TMDL Development and Implementation Support	\$250,000		\$450,000	\$615,000					
Annual budget projection		\$170,000			\$370,000	\$245,000		\$615,000	\$0
Actual as of August 15, 2017		\$0							
Projection through December 31, 2017		\$85,000							
Mining Activities	\$215,000			\$145,000					
Annual budget projection		\$125,000			\$145,000			\$145,000	\$0
Actual as of August 15, 2017		\$0							
Projection through December 31, 2017		\$70,000							
Operation and Maintenance for NPS BMP	\$200,000			\$200,000					
Annual budget projection		\$100,000				\$75,000	\$125,000	\$200,000	\$0
Actual as of August 15, 2017		\$0							
Projection through December 31, 2017		\$0							
Source WaSource Water Protection - Extended Plan Implementation			\$300,000	\$300,000					
Annual projection					\$150,000	\$150,000			
Total annual 2017 budget projection		\$3,284,667	\$1,956,000	\$4,777,746	\$3,161,991	\$1,286,738	\$329,018	\$4,477,747	\$299,999
Total Actual as of August 15, 2017		\$859,491							
Total projections through December 31, 2017		\$1,574,685							
Total deobligate back to program		\$936,303							

DW Program Line	Project Appropriation	2017 Projection/Actual	2018 Request	2018 Program Balance	2018	2019	2020	Total Projections	Difference
Drinking Water Excellence Program	\$300,000			\$150,000					
Annual budget projection		\$150,000			\$150,000			\$150,000	\$0
Actual		\$1,000							
Projection through December 31, 2017		\$149,000							
Total annual 2017 budget projection		\$150,000							
Total Actual as of August 15, 2017		\$1,000							
Total projections through December 31, 2017		\$149,000							

DWRF Grant Set Aside Budget for 2018

WQCD - to supply amounts in yellow shaded cells

Authority Supplied Data

Non Admin Set Aside Programs	2016	2017	2018	Change	Pct Change
Well Head Protection	1,413,972	1,531,466	957,970	(573,496)	-40.6%
Small Systems Technical Training (SSTTA)	277,752	270,381	256,052	(14,329)	-5.2%
Capacity Development	1,833,410	3,133,367	1,670,424	(1,462,943)	-79.8%
Capacity Development - SWAP Component	383,573	406,486	25,000	(381,486)	-99.5%
Public Water Systems Supervision (PWSS)	1,939,394	2,019,873	1,490,719	(529,154)	-27.3%
Subtotal Set Asides (excl. admin)	5,848,101	7,361,573	4,400,165	(2,961,408)	-50.6%
Administration	1,248,425	1,326,149		(1,326,149)	-106.2%
Total Set Aside Expenses	7,096,526	8,687,722	4,400,165	(2,696,361)	

Enter Estimates Below

	2017			Estimated Total 2016	Estimated Under(Over)
	Original Budget	7/31/17 Actual-below	8-1 to 12-31 Projected		
Well Head Protection	1,531,466	619,191.07	912,275	1,531,466	-
Small Systems Technical Training (SSTTA)	270,381	103,600.19	166,781	270,381	-
Capacity Development	3,539,853	1,092,343.68	\$2,041,023	3,133,367	406,486
Public Water Systems Supervision (PWSS)	2,019,873	573,317.41	1,446,556	2,019,873	-
	7,361,573	2,388,452.35	4,566,635	6,955,087	406,486
Administration	1,326,149			-	1,326,149
Total set aside grant income	8,687,722	2,388,452.35	4,566,635	6,955,087	1,732,635

	2017 Cash Receipts	2016 Exp Accrual	2017 YTD Exp
Well Head Protection	1,149,992.02	(530,800.95)	619,191.07
Small Systems Technical Training (SSTTA)	274,858.65	(171,258.46)	103,600.19
Capacity Development	2,220,740.31	(1,128,396.63)	1,092,343.68
Public Water Systems Supervision (PWSS)	1,396,578.66	(823,261.25)	573,317.41
	5,042,169.64	(2,653,717.29)	2,388,452.35
Administration			-
	5,042,169.64	(2,653,717.29)	2,388,452.35



WQCD Existing Projects vs. 2018 New Projects

Existing and new requests	Existing project		New project	Notes
	No new request	New request		
Statewide Water Quality Management Plan Support				
Phase III of the Water Quality Public Perception Survey.	✓			
Phase IV of the Water Quality Public Perception Survey.	✓			
Mine-related TMDL Implementation				
Database.	✓			
Regulation 85				
				No new projects and current projects projected to complete in 2017.
eRAMS Watershed Tool Kit				
Watershed Assessment Tool Kit.	✓			
Lower Arkansas River Basin Watershed-based Planning and Project Implementation:				
Lower Arkansas River Basin Selenium Reduction and Total Maximum Daily Load (TMDL) Program Support.		✓		Scope added to existing project to continue selenium evaluation in the Lower Arkansas River Basin.
Lower Arkansas Valley Uranium Source Investigation and Recommendations .		✓		Scope added to existing project to continue uranium evaluation in the Lower Arkansas River Basin.

Existing and new requests	Existing project		New project	Notes
	No new request	New request		
Standards Support:				
Ammonia Discharger Specific Variance Support.	✓			
Temperature Implementation.	✓			
State-wide Selenium Investigation.	✓			
Ammonia: Update Toxicity Database - snails.	✓			
Division of Water Resources - Groundwater Atlas.	✓			
Small Community Lagoon Treatment Plant Statewide Inventory.			✓	New project within category.
Small Community Lagoon Treatment Plants DSV Proposal Support.			✓	New project within category.
Disaster Support:				
Wildfire and floods.		✓		Project based on need as a result of potential disaster.
NPS Watershed Planning				
Watershed planning.	✓			
Statewide Lakes/Reservoir TMDL Development and Implementation Support:				
Bear Creek Reservoir TMDL Development.	✓			
Phosphorus/Nutrient Inactivation Options.	✓			
E. coli TMDL Support.			✓	New project within category.

Existing and new requests	Existing project		New project	Notes
	No new request	New request		
Mining Activities				
Database Hosting.	✓			
Electro-Biochemical Reactor (EBR) Technology Demonstration - Phase 1.	✓			
Operations & Maintenance for NPS BMP				
NPS 319 O&M.	✓			
Source Water Protection:				
Source Water Protection.			✓	New project category.

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Second Regular Session
Seventy-first General Assembly
STATE OF COLORADO

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LLS NO. 18-0229.01 Jennifer Berman x3286

INTERIM COMMITTEE BILL

Water Resources Review Committee

BILL TOPIC: "Expanded Duration For CWRPDA Revolving Loans"

A BILL FOR AN ACT

101 **CONCERNING AN EXPANSION OF THE DURATION FOR WHICH THE**
102 **COLORADO WATER RESOURCES AND POWER DEVELOPMENT**
103 **AUTHORITY MAY MAKE A LOAN UNDER THE AUTHORITY'S**
104 **REVOLVING LOAN PROGRAMS.**

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at <http://leg.colorado.gov/>.)

Water Resources Review Committee. Pursuant to the federal clean water act and the federal "Safe Water Drinking Act", the Colorado water resources and power development authority (authority) makes loans

*Capital letters indicate new material to be added to existing statute.
Dashes through the words indicate deletions from existing statute.*

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under its water pollution control revolving fund and its drinking water revolving fund. Under state law, the duration of any water pollution control loan made by the authority must not exceed 20 years after project completion; however, the federal clean water act now allows for loans up to the lesser of 30 years or the projected useful life of the project, as determined by the state. The bill removes the 20-year limitation on water pollution control loans and authorizes the authority to make loans in compliance with the clean water act and the "Safe Water Drinking Act".

1 *Be it enacted by the General Assembly of the State of Colorado:*

2 **SECTION 1.** In Colorado Revised Statutes, 37-95-103, **amend**
3 introductory portion and (4.5) as follows:

4 **37-95-103. Definitions.** As used in this ~~article~~ ARTICLE 95:

5 (4.5) "Clean water act" means the "Federal Water Pollution
6 Control Act Amendments of 1972", Pub.L. 92-500, ~~and any act~~
7 ~~amendatory or supplemental thereto as of April 4, 1988~~ AS AMENDED.

8 **37-95-107.6. Creation and administration of water pollution**
9 **control revolving fund.** (3) (a) The authority may make and contract to
10 make loans to governmental agencies in accordance with and subject to
11 the provisions of this section to finance the cost of wastewater treatment
12 system projects that are on the water pollution control project eligibility
13 list established pursuant to subsection (4) of this section and any other
14 projects authorized under the clean water act and that the governmental
15 agencies may lawfully undertake or acquire under state law, including ~~but~~
16 ~~not limited to~~, applicable provisions of the "Colorado Water Quality
17 Control Act", article 8 of title 25, ~~C.R.S.~~, and for which the governmental
18 agencies are authorized by law to borrow money. The loans may be made
19 subject to such terms and conditions as the authority shall determine to be
20 consistent with the purposes ~~thereof~~ OF THE LOANS. Each loan by the
21 authority and the terms and conditions ~~thereof shall be~~ OF THE LOAN IS

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1 subject to financial analysis by the division of local government of the
2 department of local affairs. ~~Such~~ THE financial analysis ~~shall~~ MUST
3 include an analysis of the capacity to repay a loan and the need for
4 financial assistance. Each loan to a local governmental agency ~~shall~~ MUST
5 be evidenced by notes, bonds, or other obligations ~~thereof~~ issued BY THE
6 LOCAL GOVERNMENTAL AGENCY to the authority. In the case of each
7 governmental agency, notes and bonds to be issued to the authority by the
8 local governmental agency shall be authorized and issued as provided by
9 law for the issuance of notes and bonds by the governmental agency, may
10 be sold at private sale to the authority at any price, whether or not less
11 than par value, and ~~shall~~ MUST be subject to redemption prior to maturity
12 at such times and at such prices as the authority and governmental agency
13 may agree. Each loan to a local governmental agency and the notes,
14 bonds, or other obligations thereby issued ~~shall~~ MUST bear interest at ~~such~~
15 A rate or rates per annum at or below THE market interest rate and ~~shall~~
16 MUST be for ~~such~~ terms ~~not to exceed twenty years after project~~
17 ~~completion~~ as THAT ARE AGREED UPON BY the authority and the
18 governmental agency ~~may agree~~ AND ARE IN COMPLIANCE WITH THE
19 CLEAN WATER ACT.

20 **SECTION 2.** In Colorado Revised Statutes, 37-95-107.8, **amend**
21 (3)(a)(III) as follows:

22 **37-95-107.8. Creation and administration of drinking water**
23 **revolving fund.** (3) (a) (III) All notes, bonds, or other obligations
24 evidencing a loan from the authority may be sold at private sale to the
25 authority at any price, whether or not less than par value. The
26 denominations, the times for payment of principal and interest, and the
27 provisions for redemption prior to maturity of ~~such~~ THE notes, bonds, or

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1 other obligations are as agreed by the authority and the borrower. Each
2 loan to a governmental agency or private nonprofit entity and the notes,
3 bonds, or other obligations thereby issued must bear interest at ~~such~~ A rate
4 or rates per annum at or below THE market interest rate and be for ~~such~~
5 terms ~~not to exceed twenty years after project completion as~~ THAT ARE
6 AGREED UPON BY the authority and the borrower ~~may agree; except that,~~
7 ~~if the source of the loaned funds is a grant from the United States, the~~
8 ~~loan term may be extended in accordance with the terms of~~ AND ARE IN
9 COMPLIANCE WITH the safe drinking water act. ~~providing for extended~~
10 ~~loan terms.~~

11 **SECTION 3. Act subject to petition - effective date -**
12 **applicability.** (1) This act takes effect at 12:01 a.m. on the day following
13 the expiration of the ninety-day period after final adjournment of the
14 general assembly (August 8, 2018, if adjournment sine die is on May 9,
15 2018); except that, if a referendum petition is filed pursuant to section 1
16 (3) of article V of the state constitution against this act or an item, section,
17 or part of this act within such period, then the act, item, section, or part
18 will not take effect unless approved by the people at the general election
19 to be held in November 2018 and, in such case, will take effect on the
20 date of the official declaration of the vote thereon by the governor.

21 (2) This act applies to loans made on or after the applicable
22 effective date of this act.



COLORADO WATER RESOURCES & POWER DEVELOPMENT AUTHORITY

Logan Tower Bldg - Suite 620, 1580 Logan Street, Denver, Colorado 80203-1942
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MEMORANDUM

September 28, 2017

TO: Board of Directors and Karl Ohlsen

FROM: Keith McLaughlin, Finance Director
Jim Griffiths, Assistant Finance Director

RE: 2018 Interest Rates
Water Pollution Control Revolving Fund ("WPCRF")
Drinking Water Revolving Fund ("DWRF")
Authority Interim Loan Program

The Authority Board of Directors establishes and adopts WPCRF and DWRF loan rates each year, including Disadvantaged Community loan rates. The WPCRF and DWRF Intended Use Plans (IUPs) require the annual adoption of rates.

In addition, the Authority Board adopts the interim loan rate each year. The interim loan program is an Authority program not governed by the IUPs.

The 2017 loan interest rates are as follows:

- WPCRF and DWRF Direct Loan rates – 2%.
- WPCRF and DWRF Disadvantaged Community* Category 1 rate – 1%.
- WPCRF and DWRF Disadvantaged Community* Category 2 rate – 0%.
- WPCRF and DWRF Leveraged Loan rates – 70% of market rate obtained on Authority bonds.
- Interim loan program rate – 3%.

Market rates for comparison purposes:

- 10-year U.S. Treasury note rate as of September 20, 2017 - 2.28%.
- 20 year Municipal Market Data (MMD) as of September 20, 2017 - 2.66%.
- The Authority's WPCRF and DWRF Bonds generally trade at a spread of 15 to 20 basis points above the MMD benchmark, so a good proxy for the Authority's Bond rates are currently between 2.81% - 2.86%. Our leverage loan rate is 70% of the above bond rate range so the leveraged loan rate would be approximately 2.00% on September 20, 2017.

A list of loans closed in 2017 (as of October 1, 2017) and loans that are anticipated to close before year end is attached.

The Authority staff recommends that all loan rates for 2018 remain the same as the above 2017 rates.

*For details on Disadvantaged Community criteria and metrics please refer to the IUP or request a summary from staff.

Closed in 2017 (As of October 1)

Entity (Loan Type)	Program	Loan Amount	Interest Rate	Execution Date
1 Spring Canyon W&SD (DL#3)	DW	\$300,599	2%	2/10/2017
2 Oak Creek, Town of (DL#2)	DW	\$1,000,000	1%	2/10/2017
3 Salida, City of (D&E) (DL#2)	DW	\$119,841	N/A	2/28/2017
4 Salida, City of (DL#3)	DW	\$1,505,000	1%	2/28/2017
5 Buena Vista, Town of (D&E) (DL#1)	DW	\$164,000	N/A	3/8/2017
6 Merino, Town of (DL#2)	DW	\$355,000	1%	3/31/2017
7 Burlington, City of (DL#3)	DW	\$250,000	1%	4/18/2017
8 Cedaredge, Town of (D&E)(DL#1)	DW	\$22,900	N/A	6/9/2017
9 Las Animas, City of (D&E) (DL#5)	WW	\$176,000	N/A	3/1/2017
10 Las Animas, City of (DL#6)	WW	\$593,500	0%	3/1/2017
11 Antonito, Town of (D&E)	WW	\$250,000	N/A	3/16/2017
12 Saguache, Town of (D&E)	WW	\$94,700	N/A	3/22/2017
13 Timbers W&SD (D&E)	WW	\$250,000	N/A	4/13/2017
14 Crested Butte, Town of (DL#2)	WW	\$2,500,000	2%	5/1/2017
15 Center SD (D&E)	WW	\$250,000	N/A	6/1/2017
16 Hi-Land Acres W&SD (DL#1)	WW	\$650,000	2%	6/6/2017
17 Nucla, Town of (D&E)(DL#1)	WW	\$135,257	N/A	9/5/2017
18 Nucla, Town of (DL#2)	WW	\$600,000	0%	9/5/2017
19 Bennett, Town of (GPR)	WW	\$2,500,000	0%	9/22/2017
20 Larimer Wonderview LID (DL)	WW	\$320,000	2%	9/26/2017

**Avg.
Interest Rate: 1.091%**

Total Closed: \$12,036,796.90

Anticipated to Close in 2017

Entity (Loan Type)	Program	Loan Amount	Interest Rate	Anticipated Execution Date
1 Bennett, Town of (D&E)(LL)	WW	\$7,117,264	3%	TBD
2 Breckenridge, Town of (LL)	DW	\$58,000,000	TBD	TBD
3 Central, City of (D&E)	DW	\$62,505	N/A	10/3/2017
4 Hotchkiss, Town of (D&E)	DW	\$72,000	N/A	10/10/2017
5 Poncha Springs, Town of (D&E)	DW	\$200,000	N/A	10/11/2017
6 Silverton, Town of (D&E)	DW	\$45,797	N/A	10/16/2017

Total Anticipated: \$65,497,566.00

Total: \$77,534,362.90



COLORADO WATER RESOURCES & POWER DEVELOPMENT AUTHORITY

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MEMORANDUM

September 28, 2017

TO: Board of Directors and Karl Ohlsen
FROM: Keith McLaughlin, Finance Director
RE: Green Project Reserve (“GPR”) Policy

Background

On July 13, 2009 the Colorado Water Resources and Power Development Authority (the “Authority”) received approximately \$27.5 million in grant funds under the American Recovery and Reinvestment Act¹ (“ARRA”) of 2009. These funds were disbursed at the direction of the EPA. The 2009 ARRA grant agreement contained certain programmatic conditions including, a requirement that at least 20% of funds (capitalization grants) address “green infrastructure, water or energy efficiency improvements or other environmentally innovative activities.” Post ARRA, the GPR requirement was applied to the Authority’s 2010 Drinking Water Revolving Fund (“DWRF”) and the 2010 Water Pollution Control Revolving Fund (“WPCRF”) under capitalization grant agreement programmatic conditions 4 and 9 respectively. In 2012 the WPCRF GPR condition was reduced to a minimum of 10% and continues to apply at that percentage to all WPCRF capitalization grants to date. Nationally, SRF programs struggled to meet the DWRF GPR condition and as a result the condition was dropped from the DWRF in 2012.

2017 Capitalization Grant GPR Condition

The WPCRF 2017 GPR condition requires States to agree to make “a timely and concerted good faith solicitation for projects that address green infrastructure, water or energy efficiency improvements or other environmentally innovative projects.” In addition, the GPR condition requires the total amount of GPR projects funded to be “at least equal to 10 percent of its capitalization grant.” Projects are considered “green”² if green project costs are equal to or greater than 20% of the total project costs. The DWRF 2017 capitalization grant allows, but does not require, any percentage of funds to be allocated to GPR.

Green Project Reserve Policy - Capitalization Grant Allocation

At the August, 2017 Board Meeting the Authority Board of Directors (the “Board”) passed a motion to allocate 10% of the WPCRF capitalization grant to the GPR as required under the 2017 capitalization grant agreement conditions. In addition, the Board motioned to “not dedicate any of the 2017 Drinking Water capitalization grant funds to a green project reserve.” These allocations represent the minimum amounts as required by the WPCRF and DWRF capitalization grants and reflect, in part, the difficulties the program has historically experienced in finding GPR eligible projects. Per the August Board discussion, language was added to the 2018 Intended Use Plans to allow the Board to modify “all green project reserve terms.”

Green Project Reserve Policy - Subsidy

In order to entice more applicants to submit “green” projects, in March 2011, the Board passed a motion to subsidize “green” loans by providing a zero percent loan to “approved direct loans where eligible project costs were equal to or greater than 20% of the total project costs.” The motion further specified that the zero percent interest rate would apply to the entire project costs and that the subsidy would only apply until the green reserve requirement has been met. At the subsequent April Board meeting an additional motion was passed to allow leveraged loans to also receive a zero percent direct loan, up to the then direct loan limit of \$2 million. This GPR subsidy has continued to be offered, at the same levels (and current direct loan limit), to all eligible GPR projects within the confines of the capitalization grant allocation (as listed above) to date.

Green Project Reserve Status and Program Impacts

To date the SRF program has executed 14 WPCRF GPR loans for approximately \$19 million and 10 DWRP³ GPR loans for approximately \$9.5 million. The 2017 WPCRF GPR funds were allocated in full to the Town of Bennett and Grand Mesa Metropolitan District.

For every one million dollars in 0%, 20 year GPR funds issued the program loses, in total, approximately \$54,000 in interest and \$160,000 in administrative fees at a 2% interest rate. For every one million dollars in 0%, 30 year GPR funds issued the program loses, in total, approximately \$90,000 in interest and \$240,000 in administrative fees at a 2% interest rate.

SRF Committee⁴ Discussion

The SRF committee met, in September 2017, to discuss the existing state and potential expansion of the GPR program. The SRF committee was generally in favor of increasing the GPR capitalization grant allocation for both SRF programs; however the SRF committee conceded the difficulty in projecting the number of additional GPR projects and the financial impacts to the program. Several ideas were discussed including: increasing the GPR allocation to 20%, increasing the interest rate from 0% to .8% or 1% (to ensure administrative expenses were covered), as well as limiting the number of leveraged loans receiving GPR subsidy to the minimum required grant percentage under the capitalization agreement conditions.

¹ ARRA was enacted by the 111th US Congress and signed into law on February 17, 2009 in Denver, Colorado by president Barack Obama. The intent was to stimulate the economy through an \$787 billion funding package that invested in infrastructure, education, health and renewable energy.

² Examples of green wastewater project components include: permeable pavement, constructed wetlands, riparian buffers, high efficiency pumps, blowers and motors. Examples of green drinking water green projects include: water efficient plumbing and appliances, meters, certain water reuse projects, high efficiency pumps and motors.

³ The GPR condition was dropped from the 2011 DWRP capitalization grant and all subsequent DWRP capitalization grants.

⁴ The SRF committee is composed of no less than one member from each of the three SRF agencies: DOLA, CWRPDA & WQCD.