

DRINKING WATER STATE REVOLVING FUND

ANNUAL REPORT



2018



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I. Introduction

Providing safe, abundant drinking water to Missourians requires almost continuous infrastructure additions and improvements. Since the program's inception, the Drinking Water State Revolving Fund (SRF) has been one of Missouri's primary funding sources for making investments in communities and the future of our state. The Drinking Water SRF, managed by the Missouri Department of Natural Resources' Financial Assistance Center, makes low-interest loans to local communities to help them meet their drinking water needs. The Department is committed to protecting Missouri's water resources that are so important to public health and its economy.

This report details the activities undertaken to reach the goals and objectives set forth in the Intended Use Plans developed for 2018. It also describes progress made toward long and short term program goals, the sources (e.g., federal grants) and uses (e.g. loans) of all funds, financial status of the Drinking Water SRF program, and compliance with federal Drinking Water SRF requirements.

II. Executive Summary

This report addresses operation of the Drinking Water SRF program during the time period from October 1, 2017 through September 30, 2018.

Missouri's Drinking Water SRF program was awarded a total of \$19,582,000 in Environmental Protection Agency (EPA) capitalization grants during the reporting period. Missouri made four direct loans totaling \$3,334,000 and three SRF grants totaling \$2,355,099 during the reporting period. During this reporting period, no pooled leveraged loan closings occurred. (Refer to the table on page 5).

The Water and Wastewater Loan Revolving Fund (Fund 0602) was established to receive loan repayments, which are then used to make new loans. As of September 30, 2018, the Water and Wastewater Loan Revolving Fund had a balance of \$74,668,237. The Drinking Water SRF capitalization grant balances for Drinking Water SRF projects was \$13,511,580 as of September 30, 2018. The EPA capitalization grant balance related to the Drinking Water set-asides was \$8,683,992 as of September 30, 2018. The Drinking Water SRF capitalization grant balance total was \$22,195,572.

Missouri's Drinking Water SRF program was awarded a total of \$377,912,331 in EPA capitalization grants and amendments through September 30, 2018. This amount does include an in-kind amount of \$1,444 on the FS997629-00 grant and an in-kind amount of \$100,000 for each of the FS997629-06 and FS997629-08 grants, and \$74,397 on the FS997629-11 grant. During state fiscal year (SFY) 2013, \$18,500,000 of Drinking Water SRF capitalization grant funds were transferred to the Clean Water SRF program. FS997629-07, FS997629-08, FS997629-09 and FS997629-10 Drinking Water SRF capitalization grants were amended to reflect this transfer of capitalization grant funds. In federal fiscal year (FFY) 2014, \$5,000 was rescinded from the Drinking Water SRF capitalization grant. These amounts are not available to be drawn.

The Drinking Water SRF program has contributed state match of \$64,094,191, which included \$15,504,549 of state appropriations, \$31,273,200 of revenue bonds, \$7,085,242 of funds contributed through rural water grants and a transfer of \$10,231,200 from the administration fee fund. Since inception of the program, the state of Missouri has made 73 leveraged loan commitments totaling \$250,735,000; 74 direct loan commitments totaling \$167,588,200; and 53 grant commitments totaling \$49,251,493.

Following is a list of all the Drinking Water SRF capitalization grant awards from the inception of the program through the 2018 reporting period.

Drinking Water SRF Capitalization Grants		
Drinking Water SRF Federal Fiscal Year	Award Amount	Cumulative
1997	\$21,856,417	\$21,856,417
1998	\$9,572,970	\$31,429,387
1999	\$10,034,771	\$41,464,158
2000	\$10,429,700	\$51,893,858
2001	\$10,472,900	\$62,366,758
2002	\$11,702,600	\$74,069,358
2003	\$11,633,700	\$85,703,058
2004	\$12,066,800	\$97,769,858
2005	\$12,041,273	\$109,811,131
2006	\$15,978,200	\$125,789,331
2007*	\$15,978,000	\$141,767,331
2008*	\$15,816,000	\$157,583,331
2009*	\$15,816,000	\$173,399,331
2010*	\$26,234,000	\$199,633,331
ARRA	\$37,862,000	\$237,495,331
2011	\$18,204,000	\$255,699,331
2012	\$17,348,000	\$273,047,331
2013	\$16,277,000	\$289,324,331
2014**	\$17,850,000	\$307,174,331
2015	\$17,738,000	\$324,912,331
2016	\$16,781,000	\$341,693,331
2017	\$16,637,000	\$358,330,331
2018	\$19,582,000	\$377,912,331

*The original grant amount is listed in this table. These grants were amended.

**This grant amount reflects the federal rescission.

Following is a summary of Drinking Water SRF binding commitments. The cumulative total of Drinking Water SRF binding commitments as of September 30, 2018, is \$467,574,693. The Drinking Water SRF has never had a recipient default on any loan.

Binding Commitment Summary	
Cumulative Binding Commitments	Amount
Leveraged Loans	\$250,735,000
Direct Loans (excludes Loans Paid with Leveraged Loans)	167,588,200
ARRA Grants	18,948,152
SRF Grants	30,303,341
Total Binding Commitments	\$467,574,693

III. 2018 Binding Commitments

The Department entered into four direct loan commitments as well as three grant commitments totaling \$5,689,099 during the reporting period.

Missouri chose to provide additional subsidization in the form of grants. Program funds were committed to eligible projects through a combination of up to 50 percent grant and the remaining portion as a loan with a maximum grant of \$2,000,000 per recipient. Disadvantaged communities were eligible for additional subsidization in an amount up to 75 percent of the project with a maximum grant of \$2,000,000 per recipient.

Drinking Water SRF Commitments During the 2018 Reporting Period					
Recipient	Total Amount	Loan Amount	Grant Amount	Date	Project ID
Clarksville*	\$ 201,225	\$ -	\$ 201,225	10/06/2017	DW291358-01
Campbell	2,194,460	625,000	1,569,460	10/26/2017	DW291333-01
Osage Co PWSD #3	598,000	598,000	-	10/30/2017	DW291216-02
Osage Co PWSD #1	1,695,414	1,111,000	584,414	11/07/2017	DW291361-01
Tri-County Water Auth	1,000,000	1,000,000	-	12/15/2017	DW291181-04
2018 Total	\$5,689,099	\$3,334,000	\$2,355,099		

*Received a Small Borrower Loan, which is not funded through the SRF Program.

IV. Cumulative Binding Commitments

Exhibit 1 provides a listing of the binding commitments since the inception of the program. The cumulative total Drinking Water SRF binding commitments on September 30, 2018, was \$467,574,693.

Since the inception of the Drinking Water SRF program, 200 binding commitments have been made. Of the 200 binding commitments entered into, 73 were leveraged loans, 74 were direct loans and 53 were grants. Three interim direct loans, which are not included in the binding

commitment totals, were repaid and replaced with a leveraged loan.

The innovative financing provided through the Drinking Water SRF program allows communities to save a considerable percentage of the interest cost of conventional loans. To date, Missouri’s Drinking Water SRF program has saved communities an estimated \$130,815,800 in lower interest compared to the higher interest rates of conventional financing. Additional subsidization through the Drinking Water SRF program has saved communities an estimated \$49,251,493.

V. Drinking Water SRF Applications and Loans Awarded

Below is a summary of the number of new and carryover Drinking Water SRF applications for the 2018 reporting period. This information was taken from the Intended Use Plan for FFY 2018.

Drinking Water SRF Applications	
Projects Accepted	2018 Reporting Period
Number of New Projects	5
Number of Carryover Projects	12
Total Number of Projects	17
Total Amount Requested of New Projects	\$12,606,455
Total Amount Requested of Carryover Projects	\$36,817,160
Total Amount Requested of Projects	\$49,423,615
Total Population Served for New Projects	11,347
Total Population Served for Carryover Projects	340,038
Total Population Served	351,385

The table below summarizes the number of projects approved, the amounts of the loans, grants and the total population served for those projects.

Drinking Water SRF Loan Projects Approved and Loans Awarded	2018 Reporting Period
Number of Projects Approved	5
Total Amount of Loans Closed	\$3,334,000
Total Amount of Grants Closed	\$2,355,099
Total Population Served	105,072

The following table shows the cumulative Drinking Water SRF leveraged loan closings since the beginning of the program.

Cumulative Drinking Water SRF Leveraged Loans				
Bond Pool	Number of Loans	Total Loan Amount	Average Subsidized Interest Rate + 0.5 Administration Fee	Cumulative Amount
1998A	2	\$28,795,000	3.58%	\$28,795,000
1999A	1	\$2,315,000	3.57%	\$31,110,000
1999B	2	\$4,320,000	4.07%	\$35,430,000
2000A	6	\$20,490,000	4.01%	\$55,920,000
2000B	4	\$6,810,000	3.87%	\$62,730,000
2001A	4	\$6,295,000	3.43%	\$69,025,000
2001C	7	\$23,400,000	3.95%	\$92,425,000
2002A	4	\$10,370,000	2.93%	\$102,795,000
2002B	4	\$26,705,000	2.93%	\$129,500,000
2003B	4	\$11,445,000	2.68%	\$140,945,000
2003C	5	\$11,290,000	2.20%	\$152,235,000
2004B	2	\$3,605,000	2.13%	\$155,840,000
2004C	5	\$9,720,000	2.13%	\$165,560,000
2005A	3	\$28,105,000	2.27%	\$193,665,000
2005C	4	\$29,780,000	1.84%	\$223,445,000
2006A	3	\$2,000,000	2.05%	\$225,445,000
2006B	1	\$2,295,000	2.08%	\$227,740,000
2007A	6	\$11,805,000	1.83%	\$239,545,000
2007B	1	\$385,000	2.01%	\$239,930,000
2008A	5	\$10,805,000	2.13%	\$250,735,000

The table below summarizes the cumulative Drinking Water SRF direct loans since the program moved to cash flow direct loans.

Cumulative Drinking Water SRF Cash Flow Direct Loans				
Period Ending	Number of Loans	Total Loan Amount	Average Subsidized Interest Rate + 0.5 Administration Fee	Cumulative Amount
June 30, 2008	1	\$4,163,000	1.90%	\$4,163,000
June 30, 2009	1	\$2,900,000	2.23%	\$7,063,000
June 30, 2010	21	\$24,426,700	1.99%	\$31,489,700
June 30, 2011	5	\$2,692,900	2.37%	\$34,182,600
June 20, 2012	6	\$12,344,000	2.24%	\$46,526,600
June 30, 2013	9	\$7,153,600	2.08%	\$53,680,200
Sept. 30, 2014	6	\$30,090,000	2.03%	\$83,770,200
Sept. 30, 2015	7	\$7,893,000	1.82%	\$91,663,200
Sept. 30, 2016	6	\$53,540,000	1.61%	\$145,203,200
Sept. 30, 2017	8	\$19,051,000	1.66%	\$164,254,200
Sept. 30, 2018	4	\$3,334,000	1.68%	\$167,588,200

VI. Objectives and Goals of the Drinking Water State Revolving Fund

Each year the Department evaluates the operations and the financial structures of the SRF program to gauge program effectiveness. Long term and short term objectives and goals were established with the purpose of improving program services and investment returns. An assessment of these goals is included in this report. The following sections present the current strategies for program improvements.

Long Term Objectives and Goals

In order to meet the long term objectives of improving the Drinking Water SRF's operations and services to its clients, the following goals were developed:

1. Protect public health by ensuring that all Missouri citizens have water that is safe to drink;
2. Provide below-market rate financial assistance while ensuring the perpetual nature of the program;
3. Encourage systems to choose projects with the most cost effective solutions;
4. Ensure the long term sustainability of existing and proposed water systems and encourage projects to consolidate or interconnect in a regional manner that would reduce public health risks or make more efficient use of source water capacity and treatment processes;

5. Protect source water for drinking water systems;
6. Promote coordination efforts both within and outside the Department of Natural Resources for the purpose of expediting the funding of projects; and
7. Continue to implement the Department's Capacity Development Program, which implements a strategy to improve the technical, managerial, and financial (TMF) capacity of Missouri's public water systems.

Short Term Objectives and Goals

In order to meet the short term objectives of improving the immediate operations and the availability of services to its clients, the following goals were developed:

1. Maximize the use and impact of available loan funds for eligible projects in accordance with the priorities and procedures described in this plan, using sound financial management;
2. Continue to assist water systems in meeting Safe Drinking Water Act requirements;
3. Secure source of state match for federal capitalization grants; and
4. Have the Drinking Water SRF priority point criteria and readiness to proceed criteria updated and approved by the Safe Drinking Water Commission at least 60 days prior to the initial application receipt deadline (February 15, 2018).

VII. Progress Toward Achieving Objectives and Goals

This section of the annual report discusses the progress that has been made in meeting those long and short term objectives and goals for the period from October 1, 2017 to September 30, 2018.

Progress Toward Meeting the Long Term Objectives and Goals

The objectives were developed to meet the long term (three to five years) goals of improving the Drinking Water SRF's operations and services to its clients.

Goal 1: Protect public health by ensuring that all Missouri citizens have water that is safe to drink.

The Department continues to meet this objective by providing affordable financing to public water systems to fund improvements to drinking water infrastructure. These improvements allow public water systems to continue providing safe, clean and abundant drinking water to the citizens of Missouri. The Department has made a concerted effort to assist projects in moving toward funding. During the reporting period, five projects entered into funding commitments.

The Department is engaged in an ongoing effort to evaluate and streamline processes associated with the Drinking Water SRF to reduce barriers to and improve ease of participation.

Implementation of many policy and procedure changes during FFY 2018 improved internal efficiency, consistency, process times, and enhanced customer service.

The Department hosted eight workshops on statewide infrastructure needs and funding opportunities for drinking water systems and wastewater treatment systems during FFY 2018. These workshops for local leaders describe how to plan, pay for, and build water infrastructure projects using financial assistance from state and federal agencies, and are expected to attract applicants.

The Department's Public Drinking Water Branch (PDWB) continues to provide oversight of all public water systems in the state to promote compliance with the Safe Drinking Water Act. The branch uses set-aside funding to assist public water systems with compliance and public health issues by implementing and administering activities described in Section VIII of this report.

Goal 2: Provide below-market rate financial assistance while ensuring the perpetual nature of the program.

The “cash flow direct loan program” provided loans at an average interest rate of 1.65% over the past three years. The Department continues to evaluate the program structure to ensure the program provides a stable source of funding for drinking water infrastructure projects well into the future.

Goal 3: Encourage systems to choose projects with the most cost effective solutions.

The Department coordinates with applicants throughout the process, thoroughly reviews the facility plans and scopes of work for each project, and provides input to encourage the most cost-effective solutions.

Goal 4: Ensure the long term sustainability of existing and proposed water systems and encourage projects to consolidate or interconnect in a regional manner that would reduce public health risks or make more efficient use of source water capacity and treatment processes.

SRF staff work with staff in the PDWB to identify small and struggling systems and encourage funding options that promote system consolidation.

The Department's priority point criteria awards points for projects that ensure long term system viability. This leads to the funding of these projects and progress toward accomplishing this goal. Staff evaluates each applicant's TMF capacity. As projects are developed, staff works with the applicants to ensure that TMF will be maintained.

Applicants are also encouraged to include more than one method of accomplishing the project's objective. Staff then works with the applicant to select the method that best addresses this and other goals.

Goal 5: Protect source water for drinking water systems.

The Department is actively involved with existing and future regional water systems. Each of these systems has protected long term sources of water.

The Department's priority point criteria also awards points for these types of projects. This increases the probability of the projects receiving funding. The Department uses set-asides to protect source water for public drinking water systems. Grants are made available to community water systems to develop source water protection plans, implement source water protection measures, and plug abandoned wells that pose a threat to the drinking water aquifer.

Goal 6: Promote coordination efforts both within and outside the Department of Natural Resources for the purpose of expediting the funding of projects.

Department staff collaborate with other state and federal agencies to expedite project development and to make the most efficient use of available funding from each agency. This takes place through the Missouri Water and Wastewater Review Committee, comprised of members from the Department of Natural Resources, the Missouri Department of Economic Development Community Development Block Grant Program, and the U.S. Department of Agriculture Rural Development Program. These relationships assist in maximizing the environmental and public health impact of the limited available funding.

Goal 7: Continue to implement the Department's Capacity Development Program, which implements a strategy to improve the technical, managerial, and financial (TMF) capacity of Missouri's public water systems.

The Department assists applicants on the review of their operations, financial stability, infrastructure needs, and ability to maintain or achieve compliance with Drinking Water Regulations.

The Public Drinking Water Branch (PDWB) uses set-aside funding to develop, update, and implement Missouri's Capacity Development Strategy, which is a comprehensive plan for assisting all public water systems with their TMF viability. The branch evaluates the TMF capacity of new community and nontransient noncommunity systems to ensure they can provide safe and adequate drinking water over the long term.

Progress Toward Meeting the Short Term Objectives and Goals

The objectives were developed to meet the short term (one to three years) goals of improving the Drinking Water SRF's immediate operations and the availability of services to its clients:

Goal 1: Maximize the use and impact of available loan funds for eligible projects in accordance with the priorities and procedures described in this plan, using sound financial management.

Program staff continue to work with applicants to achieve readiness-to-proceed status. The incorporation of readiness-to-proceed criteria in the review process has enabled projects to proceed to loan closing in a timely manner, thus enabling the program to maximize the use of available funds.

PDWB staff are also doing more one-on-one work with applicants to facilitate the projects moving through the process. This process has been successful in reenergizing projects that appeared to have been stalled.

Goal 2: Continue to assist water systems in meeting Safe Drinking Water Act requirements.

As Safe Drinking Water Act requirements increase, our staff work with systems to ensure that projects will result in meeting or exceeding the requirements in an affordable manner. Financial Assistance Center staff coordinate with staff in the Public Drinking Water Branch to ensure compliance. The Public Drinking Water Branch administers the Drinking Water SRF set-asides to provide technical and compliance assistance to public water systems.

Goal 3: Secure source of state match for federal capitalization grants.

The source of state match for the 2015, 2016, and 2017 capitalization grants was provided by administration fees transferred from the administration fee fund into the loan fund and subsequently disbursed as state match. During this reporting period, \$3,327,400 was disbursed as state match from the administration fee fund.

Goal 4: Have the Drinking Water SRF priority point criteria and readiness to proceed criteria updated and approved by the Missouri Safe Drinking Water Commission at least 60 days prior to the initial application receipt deadline (February 15, 2018).

This objective was accomplished on October 11, 2017.

VIII. Set-Aside Activities

When Congress established the Drinking Water SRF in 1996, it included special provisions called “set-asides” for the purpose of helping states better achieve the public health protection objectives of the Safe Drinking Water Act. The set-asides provide funding to enhance state public drinking water programs and assist systems with non-infrastructure needs.

The Safe Drinking Water Act establishes four categories of set-asides and sets limits on the maximum percent of the capitalization grant. States may reserve up to 31 percent of each year’s capitalization grant for set-aside activities. The Public Drinking Water Branch administers these set-asides. Each of the set-asides and the related activities the Department funded during this period are discussed below.

Administration and Technical Assistance Set-Aside (4 percent)

The Safe Drinking Water Act allows states to use up to 4 percent of each capitalization grant for administration of the programs established under Safe Drinking Water Act §1452 (Drinking Water SRF programs) and for technical assistance to public water systems of any size. The Department reserved the entire authorized 4 percent allowed for this set-aside and used it for costs of administering the loan program. Any unused amounts of the set-aside authority will be reserved for future set-aside expenditures.

Costs associated with administering the Drinking Water SRF loan program included paying salaries and associated expenses of program personnel administering the loan fund. In the time period covered by this report, staff used this set-aside to provide assistance to applicants and loan recipients, review projects, prioritize projects, issue loans, track repayments, and perform project inspections. The Department also uses this set-aside for all expense and equipment such as personal protective equipment, office supplies, training, etc. for the Drinking Water SRF loan program staff.

Small System Technical Assistance Set-Aside (2 percent)

The Safe Drinking Water Act allows states to use up to 2 percent of each capitalization grant for technical assistance to public water systems serving 10,000 people or less. The Department reserved the entire authorized 2 percent of the capitalization grant for this set-aside and used it to provide subawards to water systems for engineering reports and for previously awarded subawards for plans and specifications. Unused amounts of this set-aside authority will be reserved for future set-aside expenditures.

Engineering Report Services Grant Subawards

During the period covered by this report, the Department used this set-aside to provide subawards to small communities to hire engineers to perform evaluations, including possible regionalization or consolidation of the system, and to develop engineering reports. This is a first step toward implementing changes that will help the system achieve and maintain TMF capacity, including compliance with the National Primary Drinking Water Regulations and the Missouri Safe Drinking Water Law and regulations. Depending on the system's needs, recommended changes in these reports may include restructuring, regionalization, operational changes, treatment changes, infrastructure improvements, or other TMF improvements.

The Department funds up to 80 percent of the cost of the engineering report, up to a maximum amount of \$20,000. In the case of disadvantaged communities, the entire cost of the report may be funded up to a maximum amount of \$25,000. Applicants with the greatest need based on priority points are the first to be selected for award.

This program is eligible to communities with a population less than or equal to 3,300 or those with higher populations that will provide a benefit to another community with a population of less than or equal to 3,300. Solicitation for subawards is initiated on January 1 of each year, with a deadline of April 1 each year for submission of applications. Subawards will be awarded to 17 systems from the 2018 round of applications between October 2018 and December 2018, totaling \$282,224. The water system and the engineering firm have six months from the date the subawards were signed to develop the engineering report and submit it for review and approval to the Department. The deadlines for these reports will range from March 22, 2018 to May 31, 2019.

Many water systems have utilized these subawards as the initial step in a process ultimately leading to water system improvements, including TMF improvements and infrastructure construction projects. The following table shows TMF improvement and construction projects for systems that received Engineering Report Services Grant Subawards from calendar year 2008 through calendar year 2017.

Year	No. of Engineering Report Grant Subawards Awarded and Completed	No. of Construction TFMF Projects Initiated	Percent of Construction/TMF Projects Initiated
2008	26	18	69%
2009	18	7	39%
2009 ARRA	58	44	76%
2011	57	46	81%
2013	77	57	74%
2015	48	30	63%
2016	18	6	33%
2017	16	3	19%

Plans and Specifications Subawards

In an initiative started during SFY 2014, the Department provided subawards to community water systems serving populations of 10,000 or less to hire an engineer to develop plans and specifications for infrastructure improvements. This subaward helped these small systems move more quickly toward being “shovel ready” and included funding from three set-asides. The set-asides are 2 percent Small Systems Technical Assistance, 4 percent Administration and Technical Assistance, and 15 percent Local Assistance and Other State Programs, with the bulk of the funding coming from the latter.

The Department provided subawards for up to 45 percent of the cost of engineering plans and specifications. Systems that applied and were eligible for a Drinking Water SRF loan also qualified for an additional 45 percent subaward. No new subawards were awarded during the period covered by this report. The last funding provided for new projects was October 5, 2015; however, there are still two active subawards that will have funds disbursed from previously awarded subawards in future years.

Phase II Plans and Specification Subawards	Number Awarded	Subaward Amount
FFY 2014	7	\$909,245
FFY 2015	15	\$911,536
FFY 2016	2	\$186,791

Public Water System Supervision Program Management Set-Aside (10 percent)

States can use up to 10 percent of each capitalization grant for the Public Water System Supervision (PWSS) program. The Department reserved the entire 10 percent of this set-aside. The Department primarily uses this set-aside to support required primacy program activities, but it is also used to fund staff and activities for operator certification, capacity development, and source water protection. Capacity development activities and accomplishments are reported to EPA annually in the Department's annual State Capacity Development Program Implementation

Report. Operator certification activities and accomplishments are also reported to EPA in the Department's annual Operator Certification Report. Any unused amounts of the set-aside authority will be reserved for future set-aside expenditures.

Primacy Program

This set-aside provides funding critical for the administration, implementation and enforcement of the public drinking water primacy requirement. The Department uses this set-aside to support primacy program activities such as program administration, rule development, primacy applications, compliance and enforcement, inspections and sanitary surveys, information and data management, reports, record keeping and all other activities required of a primacy program. The Department also uses this set-aside to administer the following outside contracts:

Safe Drinking Water Information System (SDWIS)/State updates and maintenance for reporting to EPA; Comprehensive Performance Evaluation Training; and identify and evaluate impacts of emerging contaminants to help water systems prepare for new regulatory requirements.

Safe Drinking Water Information System

During the time period covered by this report, the Department used this set-aside to partially administer an outside contract for support for the following data management systems and tools:

- The Safe Water Environmental Permit Tracking system, which is an improved permit tracking system;
- The Safe Water Information Management Reporting Tool, which uses the Safe Drinking Water Information System (SDWIS) and other databases to create management reports and violation letters, as well as creating enforcement files for migration into SDWIS;
- The Safe Water Electronic Entry Tool, which is used to import Excel files from laboratories and convert them into a SDWIS formatted Extensible Markup Language file for migration;
- The Safe Water Information Field Tool, which is an electronic sanitary survey tool; and
- The Safe Water Consumer Confidence Reports (SWCCR), which creates annual Consumer Confidence Reports for community water systems. The reports are then hosted on the Department's website for water systems to adopt or modify to better facilitate electronic or other delivery to water customers.

Comprehensive Performance Evaluation Training

One of the activities funded by this set-aside includes comprehensive performance evaluation (CPE) trainings. A CPE is an intensive on-site evaluation of the treatment processes of a public water system performed by a team of trained engineers. CPEs should be completed when a water system is not functioning properly (possibly dispensing unsafe water) and/or if a water system desires to optimize their treatment processes. One CPE was performed during FFY2018.

Identify and Evaluate Impacts of Emerging Contaminants

This set-aside also provided funding for a cooperative agreement with the Missouri University of Science and Technology to address significant issues faced by the State of Missouri with respect

to drinking water quality and treatment. The agreement provides the state an important proactive approach to ensure Missouri public water systems provide safe drinking water to the public.

One of the objectives of this study was to conduct a comprehensive screening study of Harmful Algal Blooms and cyanotoxins in Missouri drinking water systems, including source water and drinking water. The significance of the screening study was to provide information of key cyanobacteria and corresponding algal toxins; if detected, the water system was provided with information on appropriate treatment.

Another deliverable of the project was the improvement of water quality for the water treatment facility involved in the study in regard to the formation of disinfection byproducts and possibly a benefit to other water facilities with the same or similar source water quality and treatment processes.

Local Assistance and Other State Programs Set-Aside (15 percent)

The Safe Drinking Water Act allows states to set aside up to 15 percent of the Drinking Water SRF capitalization grant for the following activities:

- Special loan programs for source water protection;
- Technical and financial assistance to public water systems as part of a capacity development strategy; and
- Establish and implement a wellhead protection program under Section 1428 of the Safe Drinking Water Act.

For the period covered by this report, the Department set aside 15 percent from the capitalization grant to support capacity development, wellhead protection, and source water protection activities. The Department has not established a loan program for source water protection.

Activities funded by the Department with this set-aside during the time period covered by this report include the following:

- Contracting for circuit riders to provide training and technical assistance to water systems;
- Contracting for training to water district board and city council members;
- Operator certification vouchers to water systems to pay operator's training and certification costs;
- Partially funding subawards to community water systems for engineering report services;
- Subawards to community water systems that use groundwater and plug abandoned wells that may threaten the aquifer;
- Cooperative agreement with the Missouri Geological Survey for vulnerability assessment activities, casing depth determinations for public wells and updates to SDWIS;
- Subawards to community water systems for source water protection;
- Contract with the University of Missouri for maintenance of public water system source water assessment and delineation information; and
- Studies to assist small community water systems with disinfection byproduct compliance issues.

Circuit Riders

The Department contracted with technical experts, known as circuit riders, to assist public drinking water systems with TMF capacity efforts. In FFY 2018, circuit riders provided assistance with water loss, rate studies, treatment, disinfection, asset management, and distribution mapping. Efforts were focused primarily on systems that have difficulty obtaining resources to achieve and maintain TMF capacity. During assistance visits, circuit riders often address more than one issue at a system.

During FFY 2018, circuit riders provided 341 assistance efforts to 177 systems. Requests for circuit rider assistance with water loss and rate studies continue to outpace all other TMF capacity requests.

Water Loss

Due to the high level of system interest and requests for leak detection, the Department provided more water loss and leak detection efforts than any other circuit rider assistance. Water loss and leak detection visits help systems identify nonrevenue water, including real or physical losses of water as well as apparent losses (water consumed but not accounted for). Identifying and reducing nonrevenue water is a major component to achieving and maintaining TMF capacity.

In FFY 2018, using specialized leak detection and water loss equipment, the circuit rider performed 153 assistance visits.

Rate Studies

In FFY 2018, 36 systems received rate assistance. Rate assistance helps water utility personnel and management understand the necessity of rate adjustment in order to ensure revenues cover the expenditures of the system. Systems assisted with rate studies are also advised on budgeting, asset inventory and management, and strategic planning.

Water Management Training Contract

The Department contracted with a training and technical assistance provider to present workshops to water district board and city council members and other community water system decision makers on the managerial and financial responsibilities of running a water system. Under this contract, two 4-hour water management training workshops and six 6-hour water management workshops were conducted. Workshop topics include basic water system operations, water system legal ownership and accountability, laws, regulations, rate setting, and other business best practices.

Operator Certification Vouchers

Since 2012 a significant use of this set-aside has been drinking water operator certification and training vouchers. This set-aside replaced EPA's Expense Reimbursement Grant, which had been funding the voucher program from 2004 to 2012. The Department issues drinking water training vouchers annually to nearly 1,500 community and nontransient noncommunity water systems serving 3,300 people or less. The vouchers can be used to pay for operator certification fees and eligible drinking water training fees. The water system determines which of its personnel can use the vouchers, giving the systems the flexibility to manage the vouchers in a manner that best meets its needs. Vouchers can be used for renewal training of existing operators or expenses related to a new person becoming certified.

Drinking water distribution systems receive \$625 and treatment systems receive \$950 in voucher funds. The amount of funds allocated to each system is determined by the system's classification (distribution or treatment). A system's specific classification is based on several factors, including population, complexity of treatment, and type of source water. The system classification also determines the level of certification required for the chief operator.

In the time period covered by this report, 846 certified operators representing 659 drinking water systems have used vouchers. Individuals also used vouchers for training in an effort to become certified. Vouchers received for processing totaled \$247,680, which may differ from the amount paid for the time period covered by this report. The average monthly amount processed in vouchers is \$20,640.

Wellhead and Source Water Protection

The Department continued funding wellhead and source water protection activities with set-asides in the time period covered by this report.

In 2008, the Department began awarding subawards to community water systems to plug abandoned wells that threaten or may threaten the water system's source of supply. Abandoned wells provide a conduit for contaminants to enter groundwater. Groundwater sources supply water for about 85 percent of Missouri's community water systems. Preventing contamination before it happens through proactive activities, like plugging abandoned wells, is more cost-effective than trying to clean up an aquifer after it has been contaminated or providing additional treatment at the system. During FFY 2018, the Department awarded three subawards to groundwater systems totaling over \$50,000 for the proper plugging of both domestic and public water wells.

The Department initiated a source water protection subaward program in 2006, with the first being awarded in 2007. Subawards provided through this program may be for groundwater protection or surface water protection. Surface water protection awards are made as part of the Department's capacity development strategy. Awards made to groundwater systems are part of the wellhead protection program. In FFY 2018, the Department awarded four subawards to community water systems for projects that included abandoned well plugging activities, development of source water protection plans, implementation of source water protection measures, development of brochures and signage to promote awareness of sensitive well recharge and watershed areas, and activities to identify and manage aquatic invasive species. Subawards totaling over \$79,000 were awarded to these projects.

Missouri Geological Survey

Improperly constructed or poorly sited water wells can result in unnecessary long term expenditures for a system and, in some cases, potential contamination of the aquifer. The Department's Missouri Geological Survey (MGS) provides well-specific construction details (i.e. estimated depth, estimated total depth, estimated yield, grout setting time, and geologic hazards) before any drilling costs are incurred. During the reporting period, MGS issued 24 estimated casing depth letters to community and nontransient noncommunity systems.

MGS also conducts vulnerability assessment activities, and completed the Vulnerability Assessment Report in December of 2017. This report allows the Department to reduce the monitoring frequency for eligible chemicals.

Center for Applied Research and Environmental Systems

The Department renewed its contract with the University of Missouri's Center for Applied Research and Environmental Systems (CARES) to maintain public water system source water assessment and delineation information and to refine and revise the susceptibility determination assessments, which water systems can use to improve protections for the source of its drinking water. CARES maintains a public website with maps of Missouri public water systems, showing source water locations, potential contamination sites, and other data. This information is used by public water system staff and the communities they serve as a foundation upon which they can develop and implement local, voluntary source water protection programs. Department staff use this information as a general reference with respect to water system facility locations and for other site-specific locational information.

Disinfection Byproduct Monitoring and Compliance Studies

Missouri still has a number of public water systems experiencing challenges in complying with the Stage 2 Disinfectants and Disinfection Byproduct Rule. The Department continued its contracts with the University of Missouri Research Center to explore the causes of disinfection byproduct formation at small community water systems with Stage 2 compliance issues, and to recommend solutions.

Civil and environmental engineering staff and students from the university visit each system multiple times. Utilizing a two-phase process of extensive testing and analysis they develop recommendations for reducing disinfection byproduct levels, which are unique to each participating water system. The first phase of the project, which lasts about one year, is a detailed evaluation of all aspects of the system's treatment process, including multiple testing events in various locations in the treatment process and in the distribution system. Next, research staff analyze the data and develop recommendations for each system. A final report is presented to the water system and may include recommendations for source water management techniques, changes in treatment chemicals, changes in chemical injection locations, more robust jar testing procedures, construction of additional treatment basins, and aeration in finished water storage facilities and converting free chlorine residuals to chloramines.

Since 2012, when this initiative began, there have been 15 surface water systems and six ground water systems that have completed disinfection byproduct monitoring and compliance studies. Currently, three systems are participating in the ongoing studies.

IX. Maintaining Drinking Water SRF Financial Assistance Programs

The Department operates a number of financial assistance programs for drinking water infrastructure.

Financial Assistance Programs

1. Direct Loans

The Drinking Water SRF Direct Loan program is the primary financial tool used by the Department to fund public drinking water improvements. For the 2018 reporting period, the Department reserved 69 percent of the annual capitalization grant for direct loans and grants (grants are discussed in the next paragraph). The subsidy rate for all loans awarded during this reporting period was 70 percent of the market interest rate. In this reporting period, the Department awarded \$3,334,000 in direct loans to four different drinking water systems. These loans all have a 20 year term.

2. Grants

For FFY 2018, the Drinking Water SRF capitalization grant requires that at least 20 percent of the capitalization grant be used to provide additional subsidization to eligible recipients. For this reporting period, the Department reserved \$3,916,400 of the capitalization grant for additional subsidies in the form of Drinking Water SRF grants. Drinking Water SRF grant funds were awarded to eligible, non-disadvantaged communities' projects through a combination of up to 50 percent grant and a direct loan for the remaining project amount, with a maximum grant of \$2 million per applicant. The Department offered a higher percentage grant for disadvantaged communities. A disadvantaged community is any community with a population of less than 3,300, whose user rates will be at or above 2 percent of the recipient median household income and the recipient median household income is at or below 75 percent of the state average as determined by the most recent decennial census. Projects for a disadvantaged community may be funded through a combination of up to 75 percent grant and 25 percent loan with a maximum grant of \$2 million per applicant. In this reporting period, the Department awarded \$2,355,099 of grants to three different drinking water systems.

Order of Priority for Distribution of Loan and Grant Funds

For this reporting period, the Department developed written criteria to prioritize the ranking of projects for loans and grants so that the most serious problems were given the highest priority. Consistent with the Federal Safe Drinking Water Act, priorities are based on protection of public health, compliance, and household affordability. The Missouri Safe Drinking Water Commission

approves the criteria after public review. Further, it is the Department's policy to prioritize financial assistance to communities that cannot otherwise afford conventional financing. To meet this goal, the Department uses the following criteria listed in order of priority:

1. Projects serving disadvantaged communities on any fundable list based on priority ranking in the order of highest ranking;
2. Projects on the Very Small Community 20 percent Reserve Fundable List based on priority ranking;
3. Projects on the Small Community 15 percent Reserve Fundable List based on priority ranking; and
4. Projects on the General Community 65 percent Reserve Fundable List based on priority ranking.

Available capitalization grant funds, state match revenues, interest earned and grant funds for this reporting period were allocated to projects according to priority ranking.

Project Reviews

The initial deadline date for receipt of new projects for Missouri's Drinking Water SRF Loan program for 2018 was February 15, 2017. To maximize the use of available funds, applications are accepted all year round.

The Department reviews all applications to determine if the proposed project is an eligible activity and the applicant meets the financial requirements. Eligible projects are then priority ranked as described above and included in the state's Intended Use Plan. Before loan closing, the Department will review the applicant's financial capacity, engineering documents, environmental documents, contracts and ordinances for compliance with state and federal requirements.

Section 640.107 of the Missouri Safe Drinking Water statute requires that eligible projects for Drinking Water SRF loans for systems serving less than 10,000 people shall be given priority consideration for no less than 35 percent of the available funds. The statute further states that eligible projects for loans for systems that serve 3,300 people or less are given priority consideration for at least 20 percent of the total available loan money.

The Department received its first Drinking Water SRF funds in FFY 1997. This included both the 1996 and 1997 capitalization grants, which were made available for applications received in SFY 1998. The subsidy rate for Drinking Water SRF loans has changed over the years from 33.3 percent during 1998 through 2001, 50 percent during 2002 through 2003 and has remained constant at 70 percent from 2004 through 2018. In this reporting period, the Department awarded four direct loans and three grants to five water systems for a total amount of \$5,689,099. Of the total amount for 2018, approximately 70 percent of the loan funds and 100 percent of the grant funds went to systems serving populations of less than 10,000.

As of the end of the 2018 reporting period, the Department has awarded a cumulative total of 147

drinking water loans and 53 grants to 117 different community public water supply systems for a total of \$467,574,693. Of the 200 loans and grants awarded, 113 loans and 48 grants were awarded to water systems serving populations of less than 10,000.

These 161 loans and grants totaled \$213,708,193, or approximately 46 percent of the total. Therefore, the amount of the SRF loan program funds awarded to systems serving less than 10,000 is above the minimum 35 percent required by the Missouri Safe Drinking Law, and well above the 15 percent minimum required by Federal Safe Drinking Water Act. Exhibit 1 summarizes the leveraged and direct loans awarded since the beginning of the program.

Each loan recipient is an eligible community water system. Projects included expenditures of a type that facilitate compliance with the Safe Drinking Water Act and advance the public health purposes of the Safe Drinking Water Act.

The following table summarizes the loans awarded in this reporting period, including the need category related to each project.

Drinking Water SRF Loans Awarded in the 2018 Reporting Period						
	Amount Awarded	Project Categories				
		Source	Treatment	Storage	Transmission/ Distribution	Other
Clarksville	Grant: \$201,225	X				
Campbell	Loan: \$625,000 Grant: \$1,569,460	X		X	X	
Osage Co PWSD #1	Loan: \$1,111,000 Grant: \$584,414	X		X	X	
Osage Co PWSD #3	Loan: \$598,000	X		X	X	
Tri-County Water Authority	Loan: \$1,000,000	X	X			
Total for 2018	Loan: \$3,334,000 Grant: \$2,355,099					

The following table provides a description of Drinking Water SRF projects awarded in this reporting period.

Drinking Water SRF Projects Approved in the 2018 Reporting Period	
Water System Name Award Amount	Project Description
Clarksville \$201,225	The project consists of the construction of a new well and the installation of approximately 1,100 feet of 4-inch polyvinyl chloride (PVC) pipe to connect the new well to the existing water treatment plant.
Campbell \$2,194,460	The project consists of three components: 1) Supply Improvements: Two new chlorination rooms with new liquid chlorine feed equipment will be added to the two existing well pump houses. In addition, an automatic smart valve will be replaced to prevent the 250,000 gallon water tower from overflowing. 2) Distribution Improvements: Approximately 24,000 feet of 2- to 8-inch PVC (polyvinyl chloride) pipe will be replaced and added to the System. 920 meters, 96 fire hydrants, valves and other appurtenances necessary for a fully-functional System will also be installed. 3) Storage Improvements: The existing 100,000 gallon and 250,000 gallon water towers will have their interior and exterior recoated. Minor repairs and security improvements will be made to both towers as well.
Osage Co PWSD #1 \$1,695,414	The project consists of three components: 1) Distribution Improvements: Approximately 31,000 linear feet of 2- to 8-inch Polyvinyl Chloride (PVC) waterline will be replaced or added to the System along with flush hydrants, gate valves, service reconnects, meters, fire hydrants and related appurtenances necessary for a fully-functional distribution system. 2) Storage Improvements: A new 200,000-gallon elevated storage tank will be installed; complete with a security fence, and all necessary electrical work. The elevated storage tank will be approximately 133 feet tall and have separate inlet and outlet pipes to support in-tank circulation. It will be located next to Well No. 1. The cost increase, in the amount of \$81,000, due to the larger 200,000-gallon water tower is an Ineligible Cost. 3) Supply Improvements: An 80-kilowatt liquid propane generator with an automatic transfer switch and necessary wiring and concrete work will be installed at Well No. 2. Piping and valves in both well houses will be replaced. Both well houses will have their floors and piping coated in epoxy and other minor repairs will be completed. A district-wide Supervisory Control and Data Acquisition (SCADA) system will also be installed to help monitor the System.

Water System Name Award Amount	Project Description
Osage Co PWSD #3 \$598,000	<p>The project consists of three components: 1) Distribution Improvements: Approximately 13,000 linear feet of 6- and 8-inch Polyvinyl Chloride (PVC) waterline will be replaced or added to the System along with flush hydrants, gate valves, service reconnects, fire hydrants and related appurtenances necessary for a fully-functional distribution system. The cost increase in the amount of \$22,895 due to the larger 8-inch waterline is an Ineligible Cost. 2) Supply Improvements: A 60-kilowatt liquid propane generator with an automatic transfer switch and necessary wiring and concrete work will be installed at Well No. 2. 3) Storage Improvements: The interior and exterior of the existing 50,000 gallon water tower will be sandblasted and recoated.</p>
Tri-County Water Authority \$1,000,000	<p>The project consists of:</p> <ol style="list-style-type: none"> 1) Increase Raw Water Capacity. These improvements include the construction of three vertical wells with an anticipated capacity of six million gallon per day (“mgd”), approximately 11,000 feet of 12- inch and 24- inch piping to transport the water from the wells field to the treatment plant, and all well structures, access road, electrical work, and other items necessary to complete this portion of the project. 2) Increase Water Treatment Capacity. These improvements will increase capacity of the water treatment plant by 10 mgd to 20.5 mgd. The improvements include new aerators, lime system and building, solids contact equipment and basins, chemical feed systems, recarbonation basins, filter building, chlorine contact basin, clearwell, high service pumps, decant and plant drain pump stations, piping, electrical service, instrumentation and controls, and site work. All equipment, structures, basins, yard piping, electrical work, and all other items necessary to complete this portion of the project are included as part of the project approval. 3) Supervisory Control and Data Acquisition. These improvements include updating the existing supervisory control and data acquisition system to accommodate the new well field and treatment addition. 4) Lime Residuals Management. These improvements include construction of spent lime residuals management facilities, including gravity thickening followed by mechanical dewatering, including pumping facilities, dual gravity thickening basins, a dewatering facility, a covered dewatered residuals storage facility, and all site work, piping, electrical, and controls necessary to complete this portion of the project.

X. EPA Recommendations on Performance Evaluation Report/Annual Program Review

Staff from EPA Region 7 conducted an on-site program evaluation of the FFY 2017 Drinking Water SRF program on June 12 through June 13, and July 10 through July 11, 2018. The final program evaluation report for the SRF program included the following recommendations and observations:

1. The Annual Report was received on February 15, 2018. This report is due on December 31 of each year. The Missouri DWSRF program is in compliance with all other rules, federal regulations, grant conditions and the Operating Agreement.
2. MoDNR showed substantial progress in addressing past staffing deficiencies. Staff is well trained. EPA saw continued improvements in MoDNR's program management, reporting timeliness, and communications.
3. A highlight of the review was hearing about a key MoDNR initiative "Improve Missouri's water infrastructure through increased water infrastructure loans." As part of this effort, MoDNR is offering statewide, face-to-face financial workshops, which should increase loan demand and therefore improve the financial indicators described in Section C.7. of the Performance Evaluation Report. EPA compliments MoDNR's continuing efforts to both market the SRF program and to improve SRF processes and we look forward to hearing more about these activities and any outcomes.
4. In follow-up from the previous PER recommendation, Missouri has made progress in addressing the timeliness of the audit reports. Sara Pringer has been diligent responding to audit questions. Missouri continues to receive unmodified opinions.
5. The discussion in the Annual Report on Set-Asides continues to be very good. The local assistance and other state programs section remains particularly effective in showing detailed accomplishments and outcomes. In future reports, we encourage this level of detail in all categories.
6. MoDNR's files continue to be well documented and no improper payments were found during the cash draw transaction testing.
7. EPA values MoDNR's continuing assistance with grant closeouts specific to the state's final disbursement of additional subsidy.

XI. Proposed Improvements

The Department's Financial Assistance Center intends to continue efforts to market and communicate the benefits of the Drinking Water SRF program. The Department will conduct LEAN events with internal and external stakeholders to create a culture of continuous improvement to streamline reviews, improve customer service, and make the SRF the preferred infrastructure financing mechanism in Missouri.

XII. Policy Summary

The Department has implemented regulations and policies to ensure the long term fiscal health of the Drinking Water SRF, attain and maintain compliance with the Safe Drinking Water Act, and carry out other provisions of the law. The Department protects the financial health of the Drinking Water SRF by reviewing the creditworthiness of applicants, attaining proper surety and cross-collateralization.

- Water Protection Program's Financial Assistance Center and the Environmental Improvement and Energy Resources Authority (EIERA) review the creditworthiness of applicants to make sure they can safely meet their obligations in the loan program.
- As a form of surety, publicly-owned entities must offer revenue or general obligation bonds. Privately-owned entities may offer other appropriate forms of surety. To date, the Department has not entered into loan agreements with privately-owned systems.
- The Drinking Water SRF is cross-collateralized with the Clean Water SRF as authorized by federal (P.L. 105-66) and state law (section 644.122, RSMo).

The Department attains and maintains compliance with the Safe Drinking Water Act by setting priorities and reviewing projects.

- As previously addressed, priorities for projects funded through the loan program are approved annually by the Safe Drinking Water Commission after public review. The resulting criteria express priorities as a point system by which the Department ranks loan applicants. The Department awards points to projects that address Safe Drinking Water Act compliance, public health, affordability on a per household basis, and security issues.
- The Department reviews all applicants for eligibility and assigns priority points before issuing its Intended Use Plan. Before loan closing, the Department reviews the applicant's engineering documents, environmental documents, contracts, creditworthiness, bond covenants, and ordinances for compliance with state and federal requirements.

The Department's review achieves other purposes of the law by providing technical assistance and coordinating with other funding programs.

- The funding order of projects may not be identical to the fundable priority ranking in the annual Intended Use Plan. Readiness to proceed is an important factor; however, the general order of project ranking will be followed to the extent a project progresses to a binding commitment. The Department encourages projects to proceed in a timely manner.
- The Department, with approval of the Safe Drinking Water Commission, may bypass any project on the fundable priority list that is not, in the opinion of the Department, making satisfactory progress toward satisfying requirements for Drinking Water SRF assistance. Rules governing bypass procedures appear in 10 CSR 60-13.020(3)(A).

- Any project on the fundable priority list may be bypassed if the applicant fails to submit the documents required for Drinking Water SRF assistance at least 60 days prior to the beginning of the quarter for which the assistance is anticipated. Furthermore, the Department may develop schedules to determine whether a Drinking Water SRF project is making satisfactory progress. A project may be bypassed for failure to meet the schedule.
- A project that is bypassed will be removed from the fundable priority list, and if the application is still valid, will be placed on a project list, in priority order, for funding consideration in the next FFY.
- The Department uses authorized set-asides to fund staff that provide technical assistance related to Safe Drinking Water Act compliance and the TMF capacity of water systems.
- The Department coordinates with other agencies that fund water system improvements including the Missouri Department of Economic Development, which operates the Community Development Block Grants Program, and the U.S. Department of Agriculture Rural Development. The Department is continuing to try to address the needs of disadvantaged communities by supplementing Drinking Water SRF loans with other sources of funding.

XIII. State Environmental Review Process

The Department has reviewed each project funded by a binding commitment during the reporting period according to the state environmental review process described in 10 CSR 60-13.030. It has issued a categorical exclusion or findings of no significant impact for each project.

XIV. State Match

In accordance with federal Safe Drinking Water statutes, states are required to provide a match equal to 20 percent of the total capitalization grant. Each state must deposit its match on or before the date of the grant payment. Further, it must make binding commitments equal to the grant minus set-asides plus match within one year of receiving the grant payment, except for the grant of FFY 1997. Through SFY 2003, the Department used general revenue funds to provide the required 20 percent match.

Beginning in SFY 2004, state match was provided through the proceeds of the sale of EIARA bonds. EIARA bonds are sold to generate 100 percent of the project costs and an appropriate percentage of those bonds are clearly identified as state match. The Department submitted to the EPA for approval an amendment to the Drinking Water SRF Operating Agreement (by and between the Department and the EPA, to allow the use of the state match bonds. The Department received approval for the change on October 28, 2003, and used this approach for providing state match in 2018.

In 2007 and 2012, the State of Missouri issued general obligation bonds for infrastructure projects to improve water quality throughout the state. Of this, \$7,085,242 was distributed as rural water grants for use as state match.

During this reporting period, \$3,327,400 in state match was provided from the administration fee fund and was disbursed through the pay request process.

XV. Details of Activities

Drinking Water SRF Regulations

The Department, through the Safe Drinking Water Commission, promulgated all necessary regulations for the Drinking Water SRF loan fund as of April 30, 1999. The rules were amended in 2001 and 2009 to include ARRA provisions.

Fund Financial Status

1. 2018 Binding Commitments

Exhibit 1 is a complete binding commitment list. The following table lists the projects that began construction during the 2018 reporting period.

2018 Project Construction Start Dates			
Name	Project #	Construction Start Date	Award Amount
Scotland County PWSD #1	DW291357-01	10/09/2017	\$2,193,000
Osage County PWSD #3	DW291216-02	10/12/2017	\$598,000
Clarksville	DW291358-01	10/29/2017	\$201,225
Campbell	DW291333-01	11/06/2017	\$2,194,460
Osage County PWSD #1	DW291361-01	11/30/2017	\$1,695,414

2. Cash Draw Ratio (Proportionality)

Missouri used “cash flow” direct loans for the Drinking Water SRF program during the 2018 reporting period. The federal capitalization grant was not used as security for the state match bonds. In this reporting period, the state match funds for the Drinking Water capitalization grant were utilized first before drawing any federal funds from that grant. Once state match funds were utilized, the cash draws were 100 percent federal funds. With taking the state match funds into consideration, the cash draw ratio was 83.33 percent federal funds and 16.67 percent state match. This process followed EPA memorandum, Clarification of Cash Draw Rules for Leveraged SRF programs (August 26, 2011).

3. Green Project Reserve

The costs associated with green project reserve components have been applied to the FFY 2010 and FFY 2011 capitalization grants; however, the FFY 2011 capitalization grant was the last year green project reserve was required, as shown in the following table. Green project reserve was not a grant requirement in subsequent capitalization grants.

Federal Fiscal Year	GPR Requirement	GPR Awarded
2010	\$5,246,800	\$5,246,800
2011	\$3,640,800	\$3,640,800

The following projects were identified to have green project reserve components and the associated costs were applied toward the FFY 2010 capitalization grant green project reserve requirement.

Project ID	Recipient Name	Loan Date	Loan Amount	GPR Amount	Water Efficiency
DW291228-01	Barry County PWSD #2	06/22/2011	\$ 564,000	\$ 419,925	\$ 419,925
DW291234-01	City of Clarksburg	10/05/2011	748,000	458,762	458,762
DW291308-01	City of Neosho	12/19/2011	9,425,000	2,030,200	2,030,200
DW295258-01	City of Desloge	09/27/2012	1,564,000	1,564,000	1,564,000
DW291293-01	City of Warsaw	11/28/2012	1,478,000	773,913	773,913
	Total		\$13,779,000	\$5,246,800	\$5,246,800

The following projects were identified to have green project reserve components and the associated costs were applied toward the FFY 2011 capitalization grant green project reserve requirement.

Project ID	Recipient Name	Loan Date	Loan Amount	GPR Amount	Water Efficiency
DW291293-01	City of Warsaw	11/28/2012	\$1,478,000	\$ 704,087	\$ 704,087
DW291322-01	Jefferson County PWSD #8	11/29/2012	520,000	520,000	520,000
DW291162-04	City of Linn	01/30/2013	2,260,620	943,128	943,128
DW291324-01	Jefferson County PWSD #12	05/22/2013	1,732,000	1,473,585	1,473,585
	Total		\$5,990,620	\$3,640,800	\$3,640,800

4. Additional Subsidy

The following table lists the additional subsidy requirements for each drinking water capitalization grant and the progress toward meeting the requirements.

Federal Fiscal Year	Minimum Required	Maximum Allowed	Planned Amount	Awarded	Fully Disbursed?
2010	\$5,430,438	\$18,101,460	\$7,870,200	\$7,870,200	Yes
2011	5,461,200	unspecified	5,461,200	5,461,200	Yes
2012	3,469,600	5,204,400	5,204,400	4,990,830	Yes
2013	3,255,400	4,883,100	4,883,100	4,694,571	Yes
2014	3,571,000	5,356,500	3,828,073	3,828,073	Yes
2015	3,547,600	5,321,400	3,547,600	3,056,368	No
2016	3,356,200	3,356,200	3,356,200	-	No
2017	3,327,400	3,327,400	3,327,400	-	No
2018	3,916,400	3,916,400	3,916,400	-	No
Total	\$35,335,238	\$49,466,860	\$41,394,573	\$29,901,242	

The Department has issued additional subsidization in an amount to meet the requirements of the FFY 2010 – 2014 capitalization grants. The following table lists the recipients who have been awarded additional subsidization, all in the form of grants.

Recipient	Amount Awarded	Award Date
Barry County PWSD #2	\$282,000	06/22/2011
Osage County PWSD #3	693,000	07/21/2011
Cass County PWSD #10	333,684	09/30/2011
City of Clarksburg	340,000	10/05/2011
Cass County PWSD #11	534,000	06/06/2012
Platte County PWSD #3	1,028,000	06/12/2012
City of Rogersville	559,113	08/24/2012
Jefferson County Water Authority	751,000	09/06/2012
City of Poplar Bluff	1,324,000	09/07/2012
City of Desloge	782,000	10/04/2012
Jefferson County PWSD #8	260,000	12/06/2012
City of Warsaw	739,000	12/20/2012
City of Linn	1,064,491	02/22/2013
Jefferson County PWSD #12	836,624	05/22/2013
City of Cameron	479,437	07/15/2013
Jackson County PWSD #16	1,500,000	08/15/2013
City of Monett	2,000,000	09/16/2013
DeKalb County PWSD #1	363,095	08/19/2014
Auxvasse	1,110,685	09/30/2014
Lathrop	1,154,796	10/08/2014
California	1,526,455	10/16/2014
Audrain PWSD #1	142,214	09/22/2015
Jackson County PWSD #16	632,541	09/28/2015
Platte County PWSD #1	647,946	10/15/2015
Bonne Terre	1,984,287	11/18/2015
Lathrop	930,710	12/01/2016
Sunrise Beach	860,240	12/19/2016
Birch Tree	1,856,325	01/24/2017
Reeds Spring	934,500	03/09/2017
Sparta	1,896,000	06/27/2017
Clarksville	201,225	10/06/2017
Campbell	1,569,460	10/26/2017
Osage County PWSD #1	584,414	11/07/2017
Total	\$29,901,242	

Two of the three communities who received grant funding in this reporting period were disadvantaged communities, and the project for the other community met the repair, replacement, and upgrade of infrastructure in the existing community's sustainability criteria, Federal Funding Accountability and Transparency Act (FFATA) and Equivalency.

5. Federal Funding Accountability and Transparency Act (FFATA) and Equivalency

The following tables list the grant awards that were reported in the Federal FFATA Sub-award Reporting System as of September 30, 2018, and these awards have been designated as fulfilling FFATA and equivalency requirements.

FFATA Subaward List			
Drinking Water CAP Grant Year	Project Number	Recipient	FFATA Subaward Obligation
FFY2010	ER12-DWSA-MO6010303	City of Gerald	\$42,300
FFY2010	ER12-DWSA-MO4010087	City of Bonne Terre	58,068
FFY2010	ER12-DWSA-MO2010344	City of Hannibal	58,068
FFY2010	ER12-DWSA-MO2020421	Village of Stoutsville	98,800
FFY2010	ER-12-DWSA-MO6010276	City of Festus	96,200
FFY2010	ER12-DWSA-MO1024118	City of Harrisonville PWSD No 9	25,110
FFY2010	ER12-DWSA-MO6010213	City of Desoto	36,750
FFY2010	ER12-DWSA-MO2021537	North Central Missouri-Milan	150,000
FFY2010	ER12-DWSA-MO6010801	City of Union	49,880
FFY2010	ER12-DWSA-MO4010404	City of Jackson	26,910
FFY2010	WS12-DWSA-MO4010501	City of Marquand	30,600
FFY2010	ER12-DWSA-MO4010710	City of Sainte Genevieve	104,300
FFY2010	ER12-DWSA-MO3024055	Consol. Public Water-Columbia	97,600
FFY2010	ER12-DWSA-MO1024156-1024154	City of Lathrop	46,085
FFY2010	DW291228-01	Barry County Water Supply Dist. 2	564,000
FFY2010	ER12-DWSA-MO2024572	PWSD 1 of Shelby County	50,600
FFY2010	ER12-DWSA-MO5024618	Vernon County PWSD 1	47,460
FFY2010	DW291243-01	Meadville	622,700
FFY2010	DW291245-02	City of Adrian	343,200
FFY2010	DW291233-01	City of Chilhowee	585,000
FFY2010	DW291282-02	City of Stockton	860,000
FFY2010	DW291249-02	Cass County PWSD 10	1,035,684
FFY2010	DW291234-01	City of Clarksburg	748,000
FFY2010	DW291308-01	City of Neosho	9,425,000
FFY2010	DW291313-01	Cass County PWSD 11	1,068,000
FFY2010	DW291315-01	Platte County PWSD 3	1,164,000
FFY2010	DW291310-01	Jefferson County Water Authority	1,502,000
FFY2010	DW291204-02	City of Poplar Bluff	1,256,571
FFY2010	DW291327-01	Monett	1,241,112
FFY2010 Award \$21,434,000			\$21,434,000

FFATA Subaward List			
Drinking Water CAP Grant Year	Project Number	Recipient	FFATA Subaward Obligation
FFY2011	ER14-DWSA-MO1010464	City of Lexington	\$73,500
FFY2011	ER14-DWSA-MO4021311	Wappapello PWS D 4	28,000
FFY2011	ER14-DWSA-MO3024052	Boone County PWS D 4	36,900
FFY2011	ER14-DWSA-MO5024228	Greene County PWS D 1	33,750
FFY2011	ER14-DWSA-MO5010331	City of Greenfield	27,000
FFY2011	ER14-DWSA-MO6024214	Franklin County PWS D 4	28,000
FFY2011	ER14-DWSA-MO30104411	City of Lake Ozark	43,200
FFY2011	ER14-DWSA-MO4010636	City of Perryville	72,100
FFY2011	ER14-DWSA-MO1024309	Warrensburg PWS D	41,200
FFY2011	ER14-DWSA-MO6071352	Jefferson County Water Authority	60,310
FFY2011	ER14-DWSA-MO6024213	Franklin County PWS D 3	32,500
FFY2011	ER14-DWSA-MO4021311	Wayne & Butler Counties	28,000
FFY2011	COOPERATIVE AGREEMENT	University of Missouri System	159,871
FFY2011	ER14-DWSA-MO2024594	Sullivan County PWS D 1	47,200
FFY2011	ER14-DWSA-MO5010331	City of Greenfield	27,000
FFY2011	ER14-DWSA-MO4021532	Cape Girardeau County	26,813
FFY2011	ER14-DWSA-MO6010659	City of Potosi	40,500
FFY2011	ER14-DWSA-MO2024565	Scotland County	28,000
FFY2011	DW291216-01	Osage Co PWS D 3	1,386,000
FFY2011	DW291204-02	City of Poplar Bluff	1,391,429
FFY2011	DW291276-01	Rogersville	1,241,113
FFY2011	DW295258-01	Desloge	1,564,000
FFY2011	DW291322-01	Jefferson Co PWS D 8	520,000
FFY2011	DW291293-01	Warsaw	1,478,000
FFY2011	DW291162-04	Linn	2,260,620
FFY2011	DW291324-01	Jefferson County PWS D 12	1,732,000
FFY2011	DW291331-01	Tipton	606,600
FFY2011	DW291193-04	City of Cameron	1,106,500
FFY2011	DW291319-01	Jackson Co PWS D 16	3,000,000
FFY2011	DW291327-01	Monett	1,009,497
FFY2011 Award \$18,129,603			\$18,129,603

FFY2012	SWPDI15-DWSA-MO4010853	City of West Plains Water Plant	\$25,000
FFY2012	SWPDI15-DWSA-MO3011367	City of Osage Beach	25,000
FFY2012	COOPERATIVE AGREEMENT	University of Missouri System	99,928
FFY2012	DW291327-01	Monett	6,641,557
FFY2012	DW291314-02	Belton	1,774,517
FFY2012	DW291341-01	Dekalb County PWS D	830,751
FFY2012	DW291222-03	Auxvasse	2,105,685
FFY2012	DW291328-01	California	3,202,000
FFY2012	DW291195-02	Lathrop	2,506,000
FFY2012	DW291315-02	Platte County PWS D 3	137,562
FFY2012 Award \$17,348,000			\$17,348,000

FFATA Subaward List			
Drinking Water CAP Grant Year	Project Number	Recipient	FFATA Subaward Obligation
FFY2013	DS14-DWSA-MO5010641	City of Pierce City	\$35,667
FFY2013	DS14-DWSA-MO4010072	City of Birch Tree	165,000
FFY2013	AWP16-DWSA-MO1010098	City of Braymer	49,000
FFY2013	DS14-DWSA-MO4010132	City of Campbell	53,500
FFY2013	DS14-DWSA-MO6010213	City of Desoto	27,677
FFY2013	DS14-DWSA-MO4010290	City of Fredericktown	159,320
FFY2013	COOPERATIVE AGREEMENT	University of Missouri System	121,062
FFY2013	ER15-DWSA-MO1021304	Oregon PWS	40,500
FFY2013	DS14-DWSA-MO2010097	City of Brashear	33,300
FFY2013	ER15-DWSA-MO1010682	City of Rich Hill	45,416
FFY2013	DS14-DWSA-MO2010097	City of Brashear	66,600
FFY2013	DS14-DWSA-MO4010290	City of Fredericktown	318,640
FFY2013	ER15-DWSA-MO5024423	Newton County PWS 1	36,000
FFY2013	DS14-DWSA-MO5024591	Mo-Ark Water Company	81,000
FFY2013	SWPD16-DWSA-MO5010754	City Utilities of Springfield	27,200
FFY2013	SWPDI15-DWSA-MO1010349	City of Harrisonville	25,000
FFY2013	DW291315-02	Platte County PWS 3	754,437
FFY2013	DW291304-02	Audrain PWS 1	327,028
FFY2013	DW291314-03	Belton	2,718,000
FFY2013	DW291319-03	Jackson Co PWS 16	1,413,750
FFY2013	DW291335-01	Platte County PWS 1	1,796,946
FFY2013	DW291343-01	Bonne Terre	3,969,287
FFY2013	DW291346-01	Fredericktown	2,983,000
FFY2013	DW291204-03	City of Poplar Bluff	1,029,670
FFY2013 Award \$16,277,000			\$16,277,000
FFY2014	DS14-DWSA-MO3010720	City of St. Robert	\$173,475
FFY2014	SWPD116-DWSA-MO5010754	City of Springfield	41,200
FFY2014	ER15-DWSA-MO2010796	City of Trenton	34,595
FFY2014	DS-DWSA-MO4010710	City of Sainte Genevieve	29,486
FFY2014	DW14-DWSA-MO4010132	City of Campbell	107,000
FFY2014	DW291017-02	Hannibal	12,960,000
FFY2014	DW291181-04	Tri-County Water Authority	4,502,914
FFY2014	DW291204-03	City of Poplar Bluff	1,330
FFY2014 Award \$17,850,000			\$17,850,000
FFY2015	ER16-DWSA-MO3024438/MO3024441	Osage County PWS 2	\$55,440
FFY2015	PDWB-CARES-FY17-FY18	University of Missouri System	60,000
FFY2015	DW291327-01	Monett	2,583,517
FFY2015	DW291280-12	St. Louis	9,500,000
FFY2015	DW291314-02	Belton	5,264,483
FFY2015	DW291181-04	Tri-County Water Authority	274,560
FFY2015 Award \$17,738,000			\$17,738,000

FFATA Subaward List			
Drinking Water CAP Grant Year	Project Number	Recipient	FFATA Subaward Obligation
FFY2016	DW291356-01	Harrisonville	\$9,544,000
FFY2016	DW291357-01	Scotland County PWSD #1	2,034,890
FFY2016	ER16-DWSA-MO1024009	Atchison Co. PWSD #1	35,550
FFY2016	ER16-DWSA-MO5010071	Billings	39,600
FFY2016	ER16-DWSA-MO4024097	Cape Girardeau Co. PWSD #2	39,600
FFY2016	ER16-DWSA-MO4010467	Licking	31,500
FFY2016	ER16-DWSA-MO5010697	Rockaway Beach	33,849
FFY2016	ER17-DWSA-MO2010389	Humphreys	25,000
FFY2016	ER17-DWSA-MO2010664	Princeton	25,000
FFY2016	ER17-DWSA-MO2024495	Putnam Co. PWSD #1	25,000
FFY2016	SWPDI-DWSA-MO5010754	City of Springfield	51,200
FFY2016	SWPDI-DWSA-MO2021537	North Central MO Reg Wtr Comm.	63,250
FFY2016 Award \$16,781,000			\$11,948,439
FFY2017	DW291195-03	Lathrop	\$931,000
FFY2017	DW291277-02	Sparta	1,896,000
FFY2017	DW291336-01	Jackson Co PWSD #13	3,000,000
FFY2017	DW291357-01	Scotland Co PWSD	158,110
FFY2017	DW291216-02	Osage Co PWSD #3	598,000
FFY2017	DW291361-01	Osage Co PWSD #1	1,111,000
FFY2017	DW291181-04	Tri-County Water Authority	3,785,420
FFY2017 Award \$16,637,000			\$11,479,530
Total FFATA Reported To Date			\$132,204,572

Assembled Necessary Staff

The Department has the necessary staff positions to implement the Drinking Water SRF. The Drinking Water SRF administrative, financial, and technical review staff for the Drinking Water loan program are primarily located in the Water Protection Program's Financial Assistance Center. Staff administering the programs and activities funded by the set-aside portion of the Drinking Water SRF capitalization grants are primarily located in the Water Protection Program's Public Drinking Water Branch. The Water Protection Program coordinates with the EIARA, a state environmental financing agency, to implement the direct loan program. Staff in the Department's regional offices provide assistance with Drinking Water SRF and primacy-related field activities.

Grant Conditions Compliance

The Department continues to comply with all grant conditions. The following sections address specific compliance issues.

- Lobbying: Lobbying by grant recipients is restricted by Section 607(A) of P.L. 96-74 and

by the Anti-Lobbying Act, Section 319 of P.L. 101-121. The Department has not engaged in illegal lobbying and has not used grant funds to support lobbying.

- **Debarment:** The Department has agreed to comply with EPA’s policy on debarment and suspension under assistance, loan, and benefit programs. The Department has not solicited subagreements from debarred or suspended parties and has included notice of this policy in solicitations as required.
- **Disadvantaged business enterprises:** The Department has agreed to comply with EPA’s Program for Utilization of Small, Minority, and Women’s Business Enterprises. It has agreed to negotiate fair share goals. The Department and all loan and grant recipients have included in their bid documents the fair share goals and followed the six affirmative steps stated in 40 CFR 31.36(e) and 40 CFR Part 33. The Department has submitted reports on disadvantaged business enterprise use as required based on the information provided from the loan recipients. MBE/WBE reports were submitted to EPA for the 2018 reporting period. The table below summarizes the MBE/WBE activity for Missouri’s Drinking Water SRF program for the reporting period.

Assistance Activity 2018 Reporting Period		
	MBE	WBE
Construction	\$53,021	\$198,726
Equipment	-	-
Services	178	4,189
Supplies	65	632
Total	\$53,264	\$203,547
Percent	0.3%	1.1%
Goal	10.0%	5.0%

- **Drinking Water SRF and Public Drinking Water Benefits Reporting System:** The Department has agreed to submit an annual report on the state of the Drinking Water SRF program. This report fulfills the requirement of the annual report. The Department has updated the Public Drinking Water Benefits Reporting System as required for each loan recipient.
- **Use of recycled paper:** The Department has agreed to submit required reports to EPA on recycled paper. This report is printed on recycled paper.
- **Indirect costs:** The Department has agreed to charge indirect costs in the year that they are expended and in accordance with the negotiated indirect cost agreement. The Department has complied with the agreement and charged indirect costs in the years they were expended.
- **Federal cross-cutters:** The Department has agreed to comply with all federal cross-cutters identified in Appendix A of the Drinking Water SRF Program Guidelines. While loan recipients do not always receive assistance directly from the capitalization grant, the

Department has ensured, by conditions in the loan agreements, that cross-cutting authority applies to projects equating to at least the amount of the capitalization grants.

SRF Binding Commitments

Fiscal Years 1997 through 2018

Project Name	Population		Amount	Closing Date
	Served	Project Number		
Funding Type: ARRA GRANT				
CAMERON**	2,950	DW291193-03G	\$1,390,500.00	10/22/2009
CLINTON COUNTY PWSD #3**	1,310	DW291227-01G	\$1,100,000.00	11/06/2009
AVA MUNICIPAL WATER SYSTEM**	3,021	DW291214-01G	\$1,445,400.00	11/10/2009
CLARENCE CANNON	42,000	DW291070-03G	\$2,000,000.00	11/17/2009
DREXEL**	1,115	DW291236-01G	\$2,000,000.00	11/17/2009
ROCKAWAY BEACH**	577	DW291230-01G	\$862,000.00	12/07/2009
MONROE COUNTY PWSD #2*	6,500	DW291213-01G	\$1,065,250.00	12/10/2009
ADRIAN*	4,420	DW291245-01G	\$473,800.00	12/21/2009
PILOT GROVE**	723	DW291232-01G	\$505,000.00	12/21/2009
WESTON**	1,631	DW291220-01G	\$2,033,300.00	12/21/2009
HARRY S TRUMAN PWSD #2*	6,000	DW291239-01G	\$1,172,000.00	12/22/2009
CAPE GIRARDEAU	36,472	DW291010-03G	\$1,000,000.00	12/28/2009
NEWBURG MUNICIPAL WATER SYSTEM**	474	DW291229-01G	\$162,200.00	12/29/2009
KING CITY**	1,500	DW291265-01G	\$597,300.00	12/30/2009
LINN CREEK**	280	DW291223-01G	\$916,100.00	01/08/2010
STE GENEVIEVE*	4,480	DW291281-01G	\$781,440.00	01/08/2010
CLAY COUNTY PWSD #8**	1,953	DW291235-01G	\$723,000.00	01/11/2010
COLE COUNTY PWSD #4**	1,100	DW291208-02G	\$324,000.00	01/15/2010
WARDSVILLE**	976	DW291218-01G	\$396,862.00	01/26/2010
	19		\$18,948,152.00	
Funding Type: ARRA LOAN				
CAMERON**	2,950	DW291193-03L	\$1,390,500.00	11/02/2009
AVA MUNICIPAL WATER SYSTEM**	3,021	DW291214-01L	\$1,445,400.00	11/17/2009
CLARENCE CANNON	42,000	DW291070-03L	\$2,390,000.00	11/23/2009
DREXEL**	1,115	DW291236-01L	\$2,368,000.00	11/23/2009
CLINTON COUNTY PWSD #3**	1,310	DW291227-01L	\$1,100,000.00	11/25/2009
ROCKAWAY BEACH**	577	DW291230-01L	\$862,000.00	12/09/2009
MONROE COUNTY PWSD #2*	6,500	DW291213-01L	\$1,065,200.00	12/14/2009
PILOT GROVE**	723	DW291232-01L	\$505,000.00	12/23/2009
ADRIAN*	4,420	DW291245-01L	\$473,800.00	12/29/2009
HARRY S TRUMAN PWSD #2*	6,000	DW291239-01L	\$1,172,000.00	12/29/2009
WESTON**	1,631	DW291220-01L	\$2,033,400.00	12/29/2009
KING CITY**	1,500	DW291265-01L	\$199,100.00	01/06/2010
LINN CREEK**	280	DW291223-01L	\$305,300.00	01/12/2010
STE GENEVIEVE*	4,480	DW291281-01L	\$781,300.00	01/12/2010
CLAY COUNTY PWSD #8**	1,953	DW291235-01L	\$723,000.00	01/14/2010
CAPE GIRARDEAU	36,472	DW291010-03L	\$1,000,000.00	01/15/2010
NEWBURG MUNICIPAL WATER SYSTEM**	474	DW291229-01L	\$162,200.00	01/19/2010
COLE COUNTY PWSD #4**	1,100	DW291208-02L	\$324,000.00	01/21/2010
WARDSVILLE**	976	DW291218-01L	\$396,700.00	01/28/2010
	19		\$18,696,900.00	
Funding Type: DIRECT FORTY % MATCH LOAN SRF				
GLASGOW, CITY OF**	1,263	DW291125-01	\$1,000,000.00	12/05/2002
MARSHFIELD, CITY OF*	5,720	DW291148-01	\$3,650,000.00	03/27/2003
TRI-COUNTY WATER AUTHORITY	19,000	DW291181-01	\$9,848,500.00	02/25/2005
	3		\$14,498,500.00	
Funding Type: DIRECT INTERIM LOAN SRF (Paid off by Leveraged Loan)				
GLASGOW, CITY OF**	1,263	DW291125-01	(\$1,000,000.00)	04/09/2003
MARSHFIELD, CITY OF*	5,720	DW291148-01	(\$3,650,000.00)	11/20/2003
TRI-COUNTY WATER AUTHORITY	19,000	DW291181-01	(\$9,848,500.00)	05/19/2005
	(3)		(\$14,498,500.00)	

SRF Binding Commitments

Fiscal Years 1997 through 2018

Project Name	Population		Amount	Closing Date
	Served	Project Number		
Funding Type: DIRECT LOAN SRF				
ADRIAN, CITY OF*	4,420	DW291107-01	\$4,163,000.00	12/03/2007
SULLIVAN COUNTY PWSD #1*	4,340	DW291212-01	\$2,900,000.00	04/14/2009
PLATTE COUNTY PWSD #8**	1,101	DW291273-01	\$444,800.00	11/17/2009
		3	\$7,507,800.00	
Funding Type: LEVERAGED LOAN SRF				
CAMERON, CITY OF	11,000	DW291008-01	\$3,300,000.00	12/02/1998
CAPE GIRARDEAU, CITY OF	38,509	DW291010-01	\$25,495,000.00	12/02/1998
LOUISIANA, CITY OF*	4,000	DW291025-01	2,315,000.00	06/03/1999
MOSCOW MILLS-NEW ELEVATED WATER TANK **	2,600	DW291032-01	365,000.00	12/02/1999
RAY COUNTY PWSD #2	16,000	DW291034-01	3,955,000.00	12/02/1999
BOONVILLE, CITY OF*	7,095	DW291003-01	5,110,000.00	04/12/2000
CAMDEN COUNTY PWSD #2**	691	DW291007-01	700,000.00	04/12/2000
HALLSVILLE, CITY OF**	1,200	DW291053-01	825,000.00	04/12/2000
JACKSON DIST. SYSTEM IMPROVEMENTS 01*	9,256	DW291020-01	995,000.00	04/12/2000
MARCELINE, CITY OF **	2,645	DW291026-01	4,000,000.00	04/12/2000
PERRYVILLE, CITY OF*	6,993	DW291062-01	8,860,000.00	04/12/2000
CLARENCE CANNON WHOLESALE WC*	4,172	DW291070-01	4,015,000.00	11/21/2000
JACKSON DIST. SYSTEM IMPROVEMENTS 02*	9,256	DW291020-02	1,895,000.00	11/21/2000
SWEET SPRINGS**	1,620	DW291040-01	445,000.00	11/21/2000
UNIONVILLE, CITY OF **	1,989	DW291041-01	455,000.00	11/21/2000
OZARK, CITY OF*	9,159	DW291089-01	975,000.00	04/18/2001
RAY COUNTY PWSD #2	16,000	DW291117-01	790,000.00	04/18/2001
RICHMOND*	6,675	DW291071-01	3,525,000.00	04/18/2001
VERNON COUNTY PWSD #2**	1,100	DW291069-01	1,005,000.00	04/18/2001
BUTLER, CITY OF*	8,555	DW291046-01	5,000,000.00	11/20/2001
DUNKLIN COUNTY PWSD#3**	1,764	DW291110-01	335,000.00	11/20/2001
FESTUS, CITY OF	10,470	DW291051-01	1,885,000.00	11/20/2001
GARDEN CITY**	1,390	DW291073-01	730,000.00	11/20/2001
JEFFERSON COUNTY WATER AUTHORITY	10,470	DW291121-01	10,435,000.00	11/20/2001
KEARNEY, CITY OF*	4,300	DW291082-01	2,645,000.00	11/20/2001
TRI-COUNTY WATER AUTHORITY	19,000	DW291068-01	2,370,000.00	11/20/2001
CAMDEN COUNTY PWSD #2**	2,280	DW291122-01	430,000.00	05/08/2002
CLEVER, CITY OF**	811	DW291109-01	410,000.00	05/08/2002
CRYSTAL CITY*	4,247	DW291050-01	1,300,000.00	05/08/2002
JEFFERSON COUNTY WATER AUTHORITY	10,470	DW291121-02	8,230,000.00	05/08/2002
ELSBERRY TREATMENT UPGRADE**	1,896	DW291099-01	500,000.00	11/07/2002
LAWSON, CITY OF**	2,357	DW291127-01	1,080,000.00	11/07/2002
OSAGE BEACH, REFINANCING AND NEW PROJECT	15,000	DW291150-01	24,585,000.00	11/07/2002
PUXICO, CITY OF**	1,145	DW291134-01	540,000.00	11/07/2002
CARL JUNCTION DW IMPROVEMENTS**	2,188	DW291123-01	1,760,000.00	04/09/2003
GLASGOW, CITY OF**	1,263	DW291125-02	2,210,000.00	04/09/2003
JASPER COUNTY PWSD #1**	1,873	DW291131-01	1,400,000.00	04/09/2003
OSAGE BEACH, REFINANCING AND NEW PROJECT	15,000	DW291150-02	6,075,000.00	04/09/2003
BOWLING GREEN*	5,166	DW291165-01	3,160,000.00	11/20/2003
CASS-BATES #12**	1,800	DW291151-01	330,000.00	11/20/2003
GREEN CITY**	688	DW291164-01	490,000.00	11/20/2003
KNOB NOSTER WATER IMPROVEMENTS**	2,462	DW291139-01	1,000,000.00	11/20/2003
MARSHFIELD, CITY OF*	5,720	DW291148-02	6,310,000.00	11/20/2003
BROOKFIELD*	4,769	DW291178-01	3,055,000.00	05/28/2004
PINEVILLE**	768	DW291141-01	550,000.00	05/28/2004
ADAIR COUNTY PWSD #1*	7,989	DW291155-01	395,000.00	12/09/2004

SRF Binding Commitments

Fiscal Years 1997 through 2018

Project Name	Population		Amount	Closing Date
	Served	Project Number		
KIRKSVILLE SOUTH PROJECT	16,988	DW291176-01	695,000.00	12/09/2004
LIVINGSTON COUNTY PWSD #1**	1,240	DW291161-01	1,230,000.00	12/09/2004
MOBERLY	13,741	DW291158-01	5,100,000.00	12/09/2004
PORTAGEVILLE*	3,600	DW291077-01	2,300,000.00	12/09/2004
FULTON, CITY OF	12,128	DW291124-01	4,500,000.00	05/19/2005
HUNTSVILLE**	1,600	DW291175-01	605,000.00	05/19/2005
TRI-COUNTY WATER AUTHORITY	27,000	DW291181-02	23,000,000.00	05/19/2005
CLARENCE CANNON WWC	42,000	DW291137-01	9,700,000.00	11/30/2005
KIRKSVILLE PHASE I	26,450	DW291183-01	1,805,000.00	11/30/2005
RUSSELLVILLE**	850	DW291172-01	650,000.00	11/30/2005
TRI-COUNTY WATER AUTHORITY	27,000	DW291181-03	17,625,000.00	11/30/2005
CAPE GIRARDEAU COUNTY PWSD #4**	692	DW291187-01	600,000.00	04/27/2006
CLARENCE CANNON WWC	42,000	DW291137-02	590,000.00	04/27/2006
SHELBY COUNTY PWSD #1**	1,205	DW291191-01	810,000.00	04/27/2006
CLAY COUNTY PWSD #3*	3,800	DW291196-01	2,295,000.00	11/16/2006
IRONTON**	1,539	DW291145-01	2,500,000.00	05/01/2007
KIRKSVILLE PHASE II & DOWNTOWN	26,450	DW291184-01	3,500,000.00	05/01/2007
OSAGE BEACH*	4,100	DW291150-03	2,550,000.00	05/01/2007
RICHLAND**	1,805	DW291202-01	1,000,000.00	05/01/2007
SENECA**	2,135	DW291157-01	835,000.00	05/01/2007
WASHBURN, CITY OF**	448	DW291171-01	1,420,000.00	05/01/2007
HAMILTON**	2,343	DW291207-01	385,000.00	11/15/2007
ASHLAND**	3,000	DW291043-02	1,240,000.00	10/30/2008
COLE COUNTY PWSD #4**	1,100	DW291208-01	2,045,000.00	10/30/2008
HOLCOMB**	840	DW291186-01	355,000.00	10/30/2008
LIVINGSTON COUNTY PWSD #3**	2,210	DW291201-01	970,000.00	10/30/2008
POPLAR BLUFF, CITY OF	16,651	DW291204-01	6,195,000.00	10/30/2008
		73	\$250,735,000.00	
Funding Type: SRF CASH FLOW DIRECT LOAN				
CLARENCE CANNON	42,000	DW291070-04	5,285,000.00	06/24/2010
MEADVILLE**	457	DW291243-01	622,700.00	10/26/2010
ADRIAN*	4,420	DW291245-02	343,200.00	12/22/2010
CHILHOWEE**	329	DW291233-01	585,000.00	12/22/2010
STOCKTON, CITY OF**	2,016	DW291282-02	860,000.00	05/26/2011
BARRY COUNTY PWSD #2 (CRESTWOOD WEST)**	182	DW291228-01L	282,000.00	06/22/2011
OSAGE COUNTY PWSD #3**	1,350	DW291216-01L	693,000.00	07/21/2011
CASS COUNTY PWSD #10**	2,610	DW291249-02L	702,000.00	09/28/2011
CLARKSBURG**	390	DW291234-01L	408,000.00	10/05/2011
NEOSHO	10,505	DW291308-01	9,425,000.00	12/19/2011
CASS COUNTY PWSD #11**	2,560	DW291313-01L	534,000.00	05/14/2012
PLATTE COUNTY PWSD #3**	1,200	DW291315-01L	582,000.00	06/19/2012
JEFFERSON COUNTY WATER AUTHORITY	14,005	DW291310-01L	751,000.00	07/25/2012
POPLAR BLUFF	16,651	DW291204-02L	1,324,000.00	07/31/2012
ROGERSVILLE**	3,047	DW291276-01L	682,000.00	08/14/2012
DESLOGE*	5,105	DW291258-01L	782,000.00	09/27/2012
WARSAW**	2,075	DW291293-01L	739,000.00	11/28/2012
JEFFERSON CO. PWSD #8*	3,500	DW291322-01L	260,000.00	11/29/2012
LINN**	1,430	DW291162-04L	1,143,000.00	01/30/2013
JEFFERSON CO. PWSD #12**	3,000	DW291324-01L	866,000.00	05/22/2013
TIPTON**	3,262	DW291331-01L	606,600.00	06/18/2013
CAMERON	14,000	DW291193-04L	616,000.00	07/17/2013
JACKSON COUNTY PWSD #16*	4,203	DW291319-01L	1,500,000.00	07/18/2013
MONETT*	8,835	DW291327-01L	11,012,000.00	09/09/2013
ST. LOUIS	319,294	DW291280-12L	9,500,000.00	11/13/2013

SRF Binding Commitments

Fiscal Years 1997 through 2018

Project Name	Population		Amount	Closing Date
	Served	Project Number		
BELTON PHASE I	24,802	DW291314-02L	7,039,000.00	03/27/2014
DEKALB COUNTY PWSO #1*	8,320	DW291341-01L	423,000.00	08/26/2014
AUXVASSE**	901	DW291222-03L	995,000.00	10/06/2014
CALIFORNIA*	4,278	DW291328-01L	1,601,000.00	10/16/2014
PLATTE COUNTY PWSO #3**	660	DW291315-02L	446,000.00	10/16/2014
LATHROP**	2,086	DW291195-02L	1,258,000.00	10/20/2014
BELTON PHASE II	24,802	DW291314-03	2,718,000.00	09/14/2015
AUDRAIN CO. PWSO #1**	1,700	DW291304-02L	164,000.00	09/28/2015
JACKSON COUNTY PWSO #16*	4,520	DW291319-03L	711,000.00	09/28/2015
HANNIBAL	17,606	DW291017-02	12,960,000.00	10/15/2015
PLATTE COUNTY CONSOLIDATED PWSO #1**	1,200	DW291335-01L	1,149,000.00	10/15/2015
BONNE TERRE*	4,187	DW291343-01L	1,985,000.00	11/18/2015
TRI-COUNTY WATER AUTHORITY	48,060	DW291181-04	33,432,000.00	01/25/2016
FREDERICKTOWN*	3,985	DW291346-01L	2,983,000.00	08/18/2016
POPLAR BLUFF	17,023	DW291204-03	1,031,000.00	08/22/2016
LATHROP PHASE II**	2,086	DW291195-03L	931,000.00	12/01/2016
SUNRISE BEACH PHASE I**	431	DW291219-02L	315,000.00	12/19/2016
HARRISONVILLE*	9,743	DW291356-01	9,544,000.00	01/17/2017
BIRCH TREE**	679	DW291350-01L	738,000.00	01/24/2017
REEDS SPRING**	913	DW291348-01L	434,000.00	03/09/2017
SPARTA, CITY OF**	1,752	DW291277-02L	1,896,000.00	06/27/2017
JACKSON COUNTY PWSO #13*	5,400	DW291336-01	3,000,000.00	07/27/2017
SCOTLAND CO. CONSOLIDATED PWSO #1**	2,668	DW291357-01	2,193,000.00	09/21/2017
CAMPBELL**	1,992	DW291333-01L	625,000.00	10/26/2017
OSAGE COUNTY PWSO #3**	1,400	DW291216-02	598,000.00	10/30/2017
OSAGE COUNTY PWSO #1**	1,200	DW291361-01L	1,111,000.00	11/07/2017
TRI-COUNTY WATER AUTHORITY	100,000	DW291181-04A	1,000,000.00	12/15/2017
		52	141,383,500.00	
Funding Type: SRF GRANT				
BARRY COUNTY PWSO #2 (CRESTWOOD WEST)**	182	DW291228-01G	282,000.00	06/22/2011
OSAGE COUNTY PWSO #3**	1,350	DW291216-01G	693,000.00	07/21/2011
CASS COUNTY PWSO #10**	2,610	DW291249-02G	333,684.00	09/30/2011
CLARKSBURG**	390	DW291234-01G	340,000.00	10/05/2011
CASS COUNTY PWSO #11**	2,560	DW291313-01G	534,000.00	06/06/2012
PLATTE COUNTY PWSO #3**	1,200	DW291315-01G	582,000.00	06/12/2012
ROGERSVILLE**	3,047	DW291276-01G	559,113.00	08/24/2012
JEFFERSON COUNTY WATER AUTHORITY	14,005	DW291310-01G	751,000.00	09/06/2012
POPLAR BLUFF	16,651	DW291204-02G	1,324,000.00	09/07/2012
DESLOGE*	5,105	DW291258-01G	782,000.00	10/04/2012
JEFFERSON CO. PWSO #8*	3,500	DW291322-01G	260,000.00	12/06/2012
WARSAW**	2,075	DW291293-01G	739,000.00	12/20/2012
LINN**	1,430	DW291162-04G	1,117,620.00	02/22/2013
JEFFERSON CO. PWSO #12**	3,000	DW291324-01G	866,000.00	05/22/2013
CAMERON	14,000	DW291193-04G	490,500.00	07/15/2013
JACKSON COUNTY PWSO #16*	4,203	DW291319-01G	1,500,000.00	08/15/2013
MONETT*	8,835	DW291327-01G	2,000,000.00	09/16/2013
DEKALB COUNTY PWSO #1*	8,320	DW291341-01G	407,751.00	08/19/2014
AUXVASSE**	901	DW291222-03G	1,110,685.00	10/01/2014
CALIFORNIA*	4,278	DW291328-01G	1,601,000.00	10/07/2014
LATHROP**	2,086	DW291195-02G	1,248,000.00	10/08/2014
PLATTE COUNTY PWSO #3**	660	DW291315-02G	446,000.00	10/15/2014
JACKSON COUNTY PWSO #16*	4,520	DW291319-03G	702,750.00	09/09/2015
AUDRAIN CO PWSO #1**	1,700	DW291304-02G	163,028.00	09/22/2015
PLATTE COUNTY CONSOLIDATED PWSO #1**	1,200	DW291335-01G	647,946.00	10/15/2015
BONNE TERRE*	4,187	DW291343-01G	1,984,287.00	11/18/2015
LATHROP PHASE II**	2,086	DW291195-03G	930,710.00	12/01/2016

SRF Binding Commitments

Fiscal Years 1997 through 2018

Project Name	Population		Amount	Closing Date
	Served	Project Number		
SUNRISE BEACH PHASE I**	431	DW291219-02G	865,343.00	12/19/2016
BIRCH TREE**	679	DW291350-01G	1,856,325.00	01/24/2017
REEDS SPRING**	913	DW291348-01G	934,500.00	03/09/2017
SPARTA, CITY OF**	1,752	DW291277-02G	1,896,000.00	06/21/2017
CLARKSVILLE**	480	DW291358-01G	201,225.00	10/06/2017
CAMPBELL**	1,992	DW291333-01G	1,569,460.00	10/13/2017
OSAGE COUNTY PWSD #1**	1,200	DW291361-01G	584,414.00	10/19/2017
		34	30,303,341.00	
Total Binding Commitments			467,574,693.00	

* Systems that serve <10,000 population

** Systems that serve 3,300 or less population

XVI. Management's Discussion and Analysis

The following is a discussion and analysis of the financial activities for the Missouri Department of Natural Resources' Drinking Water State Revolving Fund (SRF) for the year ended September 30, 2018. Readers are encouraged to consider the information presented here in conjunction with additional information that is furnished in the Notes to the Financial Statements.

Financial Highlights

The assets and deferred outflows of resources of the program exceeded liabilities and deferred inflows of resources at the close of the most recent reporting period by \$254,489,846 (net position). Net position, since inception of the program, consists of federal capitalization grant contributions of \$256,821,722, state match contributions of \$22,408,349, and a net loss of \$24,740,225. The net position of the program is all restricted. The program's enabling legislation and related regulations require that all money in the fund may be used only for purposes of the program.

Total assets decreased from \$358,890,497 at September 30, 2017, to \$354,890,475 at September 30, 2018. The assets of the enterprise funds decreased \$4,001,327 while the assets of the agency fund increased \$1,305. Explanations for these changes are detailed in the Financial Analysis section.

Total liabilities decreased \$17,143,323. The majority of the decrease was from a decrease in bonds payable. Bonds payable decreased \$17,589,943 because the program has changed from primarily a leveraged loan program to a direct loan program.

During the reporting period, the program's total net position increased \$12,416,177. Capital contributions from the Environmental Protection Agency (EPA) totaled \$13,191,347. The current period operating income is (\$775,170).

During the reporting period the Department transferred \$3,327,400 from the administration fee fund to the loan fund for state match of the 2017 capitalization grant.

Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the Department's Drinking Water SRF basic financial statements. The program's basic financial statements are comprised of two components: 1 proprietary and fiduciary fund financial statements, and 2 notes to the financial statements.

The proprietary and fiduciary fund financial statements include a Statement of Net Position, a Statement of Revenues, Expenses and Changes in Net Position, a Statement of Cash Flows, and a Statement of Fiduciary Net Position.

- The Statement of Net Position presents the assets, deferred outflows of resources, liabilities, deferred inflows of resources, and net position of the program. Assets consist

of cash and cash equivalents, investments, interest receivable from loans and investments, administration fees receivable, EPA set-aside grant funds receivable, and loans receivable. Deferred outflows of resources consist of the deferred charge on refunding and deferred outflows for pension and other post-employment benefits (OPEB). Liabilities include accounts payable, deferred revenue, bonds payable, bond interest payable, net pension, OPEB, and deferred inflows of resources. Net position is the federal capitalization grant contributions, the state match contributions, and the excess earnings of the program's operations since inception.

- The Statement of Revenues, Expenses and Changes in Net Position present information showing how the program's net position changed during the reporting period. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of the related cash flows.
- The Statement of Cash Flows is provided to identify the sources and the uses of cash during the reporting period and to demonstrate that the program has sufficient cash to meet its obligations.
- The Statement of Fiduciary Net Position provides information about the program's agency fund. The agency fund consists of the assets and liabilities related to the loan funds that are held at trustee banks on behalf of the loan participants.

The notes to the financial statements provide additional information that is essential to a full understanding of the data provided in the fund financial statements.

Financial Analysis

Loan Fund:

The following section displays the current and prior year financial statements of the loan fund and describes some of the major reasons for the changes.

Loan Fund Net Position

	2018	2017	Percent Change
Current assets	\$ 106,246,246	\$ 100,069,295	6%
Non-current assets	243,931,889	251,669,535	-3%
Total assets	350,178,135	351,738,830	0%
Deferred outflows	2,936,848	3,641,619	-19%
Total assets and deferred outflows	353,114,983	355,380,449	-1%
Current liabilities	15,080,088	18,844,331	-20%
Non-current liabilities	82,662,871	96,716,817	-15%
Total liabilities and deferred inflows	97,742,959	115,561,148	-15%
Net position	\$ 255,372,024	\$ 239,819,301	6%

The total net position of the loan fund increased by six percent. Current assets increased by

\$6,176,951 as cash on hand grew primarily for the following reasons:

- 1) A transfer of \$3,327,400 was made from the administration fee fund to the loan fund for state match for the 2017 capitalization grant.
- 2) Federal capitalization dollars and state match funds were primarily used for project disbursements allowing loan repayments to accrue in the loan fund which resulted in increased cash and cash equivalents.

Non-current assets decreased slightly, indicating that disbursements for direct loans were less than the decreases in receivables for leveraged and reserve loans. Total liabilities decreased by \$17,818,189 as bonds payable decreased.

Changes in Loan Fund Net Position

	2018	2017	Percent Change
Operating revenues	\$ 6,139,118	\$ 7,323,380	-16%
Operating expenses	4,548,669	5,032,138	-10%
Operating income	1,590,449	2,291,242	-31%
Non-operating revenues (expenses)	13,962,274	16,631,456	-16%
Increase in net position	15,552,723	18,922,698	-18%
Net position, beginning of year	239,819,301	220,896,603	9%
Net position, end of year	<u>\$ 255,372,024</u>	<u>\$ 239,819,301</u>	6%

The increase in net position of the loan fund in the 2018 reporting period was not as large as the previous year, due to a decrease in EPA capitalization grant revenue received.

Loan Fund Cash Flows

	2018	2017	Percent Change
Cash flows from operating activities	\$ 7,239,666	\$ (316,158)	2390%
Cash flows from non-capital financing activities	(4,434,095)	(662,870)	569%
Cash flows from investing activities	5,103,128	4,609,056	11%
Increase in cash and cash equivalents	7,908,699	3,630,028	118%
Cash and cash equivalents, beginning of year	68,879,302	65,249,274	6%
Cash and cash equivalents, end of year	<u>\$ 76,788,001</u>	<u>\$ 68,879,302</u>	11%

The change in the loan fund cash flow numbers between fiscal year 2017 and 2018 was primarily a result of an \$8,738,593 decrease in loan disbursements, which also resulted in a decrease to EPA grant funds received of \$3,756,485.

Administration Fee Fund:

The following section displays the current and prior year financial statements of the administration fee fund and describes some of the major reasons for the changes.

Administration Fee Fund Net Position

	2018	2017	Percent Change
Current assets	\$ 2,961,035	\$ 5,341,097	-45%
Total assets	2,961,035	5,341,097	-45%
Deferred outflows	25,672	25,672	0%
Total assets and deferred outflows	2,986,707	5,366,769	-44%
Current liabilities	38	-	100%
Non-current liabilities	82,339	82,339	0%
Total liabilities	82,377	82,339	0%
Deferred inflows	(60,255)	(60,255)	0%
Total liabilities and deferred inflows	22,122	22,084	0%
Net position	\$ 2,964,585	\$ 5,344,685	-45%

The forty-five percent decrease in the administration fee fund net position was primarily the result of a transfer for state match contribution for the 2017 capitalization grant.

Changes in Administration Fee Fund Net Position

	2018	2017	Percent Change
Operating revenues	\$ 1,029,974	\$ 964,747	7%
Operating expenses	110,700	-	100%
Operating income	919,274	964,747	-5%
Non-operating revenues (expenses)	(3,299,374)	(3,321,805)	-1%
Increase (decrease) in net position	(2,380,100)	(2,357,058)	1%
Net position, beginning of year	5,344,685	7,701,743	-31%
Net position, end of year	\$ 2,964,585	\$ 5,344,685	-45%

There was an increase of \$110,700 in administrative fee expense because no operating expenses were paid from administration fees in the previous reporting period. The decrease in non-operating expenses was due to the transfer of \$3,327,400 to the loan fund for the state match contribution, which is a reduction in the transfer amount from the previous reporting period.

Administration Fee Fund Cash Flows

	2018	2017	Percent Change
Cash flows from operating activities	\$ 928,128	\$ 942,566	-2%
Cash flows from capital and related financing activities	(3,327,400)	(3,356,200)	-1%
Cash flows from investing activities	28,877	34,974	-17%
Increase (decrease) in cash and cash equivalents	(2,370,395)	(2,378,660)	0%
Cash and cash equivalents, beginning of year	4,986,648	7,365,308	-32%
Cash and cash equivalents, end of year	<u>\$ 2,616,253</u>	<u>\$ 4,986,648</u>	<u>-48%</u>

Administration fee fund cash decreased \$2,370,395 during the year due to the state match contribution exceeding the administration fees received.

Set-aside Fund:

The following section displays the current and prior year financial statements of the set-aside fund and describes some of the major reasons for the changes:

Set-Aside Fund Net Position

	2018	2017	Percent Change
Current assets	\$ 815,869	\$ 875,824	-7%
Non-current assets	4,111	4,726	-13%
Total assets	819,980	880,550	-7%
Deferred outflows	1,824,401	1,789,723	2%
Total assets and deferred outflows	2,644,381	2,670,273	-1%
Current liabilities	827,356	887,311	-7%
Non-current liabilities	5,530,740	4,797,262	15%
Total liabilities	6,358,096	5,684,573	12%
Deferred inflows	133,048	76,017	75%
Total liabilities and deferred inflows	6,491,144	5,760,590	13%
Net position	<u>\$(3,846,763)</u>	<u>\$(3,090,317)</u>	<u>24%</u>

The net position of the set-aside fund decreased \$756,446 in the 2018 reporting period, which was primarily attributable to a \$730,554 increase in total liabilities and deferred inflows due to net pension and OPEB liability and changes in deferred revenue.

Changes in Set-Aside Fund Net Position

	2018	2017	Percent Change
Operating revenues	\$ 5,707,688	\$ 6,274,783	-9%
Operating expenses	6,323,956	6,711,712	-6%
Operating income (loss)	(616,268)	(436,929)	41%
Increase (decrease) in net position	(616,268)	(436,929)	41%
Net position, beginning of year	(3,090,317)	(2,653,388)	16%
Prior period adjustment	(140,178)	-	100%
Net position, end of year	\$ (3,846,763)	\$ (3,090,317)	24%

There was a \$567,095 decrease in operating revenues. Salaries and benefits expense increased \$139,173, indirect costs decreased by \$107,861, and other administrative expenses decreased \$415,990. These changes in operating expenses resulted in a corresponding decrease in EPA operating grant revenue.

Set-Aside Cash Flows:

Typically the set-aside fund does not have a cash balance, as any cash paid out is offset by cash coming in, resulting in the yearly cash provided by operating activities of \$0.

Agency Fund

The following section displays the current and prior year assets and liabilities of the agency fund:

Agency Fund Net Position	2018	2017	Percent Change
Assets	\$ 931,325	\$ 930,020	0%
Liabilities	931,325	930,020	0%
Net Position	\$ -	\$ -	0%

The agency fund assets and liabilities remained fairly static because the program continues to fund new loans on a payment by payment basis instead of placing one-hundred percent of the loan funds at a trustee bank at the time of the loan closing. The remaining agency funds consist of the applicant's unspent loan funds, debt service reserve funds, as well as the rebate funds held for arbitrage payments.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Statement of Net Position
September 30, 2018 - Unaudited
Exhibit 2

	Loan Fund	Administration Fee Fund	Set-Aside Fund	Total Enterprise Funds
Assets:				
Current assets:				
Cash and cash equivalents	\$ 76,788,001	\$ 2,616,253	\$ -	\$ 79,404,254
Restricted investments - current portion	438,828	-	-	438,828
Receivables:				
Loan interest	1,428,278	-	-	1,428,278
Investment interest	241,136	8,861	-	249,997
Administrative fees	-	335,921	-	335,921
Due from EPA	-	-	815,869	815,869
Current portion of loans receivable:				
Leveraged loans	13,020,000	-	-	13,020,000
Direct loans	7,419,435	-	-	7,419,435
Reserve loans	6,910,568	-	-	6,910,568
Total current assets	106,246,246	2,961,035	815,869	110,023,150
Non-current assets:				
Restricted investments	7,707,225	-	-	7,707,225
Loans receivable:				
Leveraged loans	67,000,000	-	-	67,000,000
Direct loans	127,197,978	-	-	127,197,978
Reserve loans	42,026,686	-	-	42,026,686
Capital assets	-	-	60,518	60,518
Less accumulated depreciation	-	-	(56,407)	(56,407)
Total non-current assets	243,931,889	-	4,111	243,936,000
Total assets	350,178,135	2,961,035	819,980	353,959,150
Deferred outflows of resources:				
Deferred amount due on refunding	2,936,848	-	-	2,936,848
Deferred outflows - pension and OPEB	-	25,672	1,824,401	1,850,073
Total deferred outflows	2,936,848	25,672	1,824,401	4,786,921
Liabilities:				
Current liabilities:				
Accounts payable	-	-	160,991	160,991
Salaries and benefits payable	-	38	163,056	163,094
Bond interest payable	1,075,387	-	-	1,075,387
Current portion of bonds payable	13,587,745	-	-	13,587,745
Current portion of unearned revenue	-	-	11,487	11,487
Due to State of Missouri	-	-	491,822	491,822
Other payables	416,956	-	-	416,956
Total current liabilities	15,080,088	38	827,356	15,907,482
Non-current liabilities:				
Deferred revenue	-	-	(7,376)	(7,376)
Bonds payable, net	82,662,871	-	-	82,662,871
Net pension liability	-	82,339	5,387,769	5,470,108
Net OPEB liability	-	-	150,347	150,347
Total non-current liabilities	82,662,871	82,339	5,530,740	88,275,950
Total liabilities	97,742,959	82,377	6,358,096	104,183,432
Deferred inflows:				
Deferred inflows - pension and OPEB	-	(60,255)	133,048	72,793
Total deferred inflows	-	(60,255)	133,048	72,793
Net position:				
Net investment in capital assets	-	-	4,111	4,111
Restricted for loans and debt service	255,372,024	2,964,585	(3,850,874)	254,485,735
Total net position	\$ 255,372,024	\$ 2,964,585	\$ (3,846,763)	\$ 254,489,846

See accompanying notes to the financial statements.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Statement of Revenues, Expenses and Changes in Net Position
Year Ended September 30, 2018 - Unaudited
Exhibit 3

	Loan Fund	Administration Fee Fund	Set-Aside Fund	Total Enterprise Funds
Operating revenues:				
Interest income on SRF loans	\$ 6,081,613	\$ -	\$ -	\$ 6,081,613
Administrative fees	-	1,029,974	-	1,029,974
EPA set-aside operating grants	-	-	5,707,688	5,707,688
Other	57,505	-	-	57,505
Total operating revenues	<u>6,139,118</u>	<u>1,029,974</u>	<u>5,707,688</u>	<u>12,876,780</u>
Operating expenses:				
Salaries and benefits	-	92,313	3,862,569	3,954,882
Travel	-	-	34,743	34,743
Other administrative expenses	-	-	1,285,663	1,285,663
Indirect costs	-	18,387	1,140,366	1,158,753
Depreciation expense	-	-	615	615
Grant payments	4,548,669	-	-	4,548,669
Total operating expenses	<u>4,548,669</u>	<u>110,700</u>	<u>6,323,956</u>	<u>10,983,325</u>
Operating income (loss)	<u>1,590,449</u>	<u>919,274</u>	<u>(616,268)</u>	<u>1,893,455</u>
Non-operating revenues (expenses):				
Environmental Protection Agency grants	13,191,347	-	-	13,191,347
Investment income	1,312,675	28,026	-	1,340,701
State of Missouri contribution	3,327,400	-	-	3,327,400
Bond issue expense	(800)	-	-	(800)
Interest expense on bonds payable	(3,868,348)	-	-	(3,868,348)
Transfer to Clean Water Program/State Match Contribution	-	(3,327,400)	-	(3,327,400)
Total non-operating revenues (expenses)	<u>13,962,274</u>	<u>(3,299,374)</u>	<u>-</u>	<u>10,662,900</u>
Increase (decrease) in net position	15,552,723	(2,380,100)	(616,268)	12,556,355
Net position, beginning of year as previously stated	239,819,301	5,344,685	(3,090,317)	242,073,669
Prior period adjustment	-	-	(140,178)	(140,178)
Net position, beginning of year as restated	<u>239,819,301</u>	<u>5,344,685</u>	<u>(3,230,495)</u>	<u>241,933,491</u>
Net position, end of year	<u>\$ 255,372,024</u>	<u>\$ 2,964,585</u>	<u>\$ (3,846,763)</u>	<u>\$ 254,489,846</u>

See accompanying notes to the financial statements.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Statement of Cash Flows
Year Ended September 30, 2018 - Unaudited
Exhibit 4

	Loan Fund	Administration Fee Fund	Set-Aside Fund	Total Enterprise Funds
Cash flows from operating activities:				
Grant disbursements	\$ (4,578,393)	\$ -	\$ -	\$ (4,578,393)
Loan disbursements	(20,671,388)	-	-	(20,671,388)
Repayments received on loans	26,219,022	-	-	26,219,022
Interest received on loans	6,212,921	-	-	6,212,921
Administrative fees	-	1,038,790	-	1,038,790
EPA set-aside grant	-	-	5,767,028	5,767,028
Payments to employees	-	(92,275)	(3,224,732)	(3,317,007)
Other administrative payments	-	(18,387)	(2,481,519)	(2,499,906)
Other	57,504	-	(60,777)	(3,273)
Net cash provided by operating activities	<u>7,239,666</u>	<u>928,128</u>	<u>-</u>	<u>8,167,794</u>
Cash flows from noncapital financing activities:				
Bond principal retired	(16,028,600)	-	-	(16,028,600)
Interest paid on bonds	(4,923,442)	-	-	(4,923,442)
Environmental Protection Agency grants	13,191,347	-	-	13,191,347
Bond issuance costs	(800)	-	-	(800)
State of Missouri contribution	3,327,400	-	-	3,327,400
Transfer to Clean Water Program\State Match Contribution	-	(3,327,400)	-	(3,327,400)
Net cash used by noncapital financing activities	<u>(4,434,095)</u>	<u>(3,327,400)</u>	<u>-</u>	<u>(7,761,495)</u>
Cash flows from investing activities:				
Proceeds from sales and investment maturities	3,850,176	-	-	3,850,176
Investment income	1,252,952	28,877	-	1,281,829
Net cash provided by investing activities	<u>5,103,128</u>	<u>28,877</u>	<u>-</u>	<u>5,132,005</u>
Increase (decrease) in cash and cash equivalents	7,908,699	(2,370,395)	-	5,538,304
Cash and cash equivalents, beginning of year	68,879,302	4,986,648	-	73,865,950
Cash and cash equivalents, end of year	<u>\$ 76,788,001</u>	<u>\$ 2,616,253</u>	<u>\$ -</u>	<u>\$ 79,404,254</u>
Cash and cash equivalents consisted of the following:				
Cash and cash equivalents	<u>\$ 76,788,001</u>	<u>\$ 2,616,253</u>	<u>\$ -</u>	<u>\$ 79,404,254</u>
Total cash and cash equivalents	<u>\$ 76,788,001</u>	<u>\$ 2,616,253</u>	<u>\$ -</u>	<u>\$ 79,404,254</u>
Reconciliation of operating income (loss) to net cash provided by operating activities:				
Operating income (loss)	\$ 1,590,450	\$ 919,273	\$ (616,269)	\$ 1,893,454
Adjustments to reconcile net operating income (loss) to net cash provided by operations:				
Depreciation expense	-	-	615	615
Increase in deferred outflows pension and OPEB	-	-	(34,678)	(34,678)
Increase in net pension liability	-	-	583,746	583,746
Increase in OPEB liability	-	-	10,169	10,169
Decrease in deferred inflows pension and OPEB	-	-	57,031	57,031
Changes in assets and liabilities:				
Decrease in loan interest receivable	131,307	-	-	131,307
Decrease in loans receivable	5,547,634	-	-	5,547,634
Decrease in other receivables	-	8,816	59,955	68,771
Increase (decrease) in accounts payable	(29,725)	39	(60,569)	(90,255)
Net cash provided by operating activities	<u>\$ 7,239,666</u>	<u>\$ 928,128</u>	<u>\$ -</u>	<u>\$ 8,167,794</u>

See accompanying notes to the financial statements.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Statement of Fiduciary Net Position
September 30, 2018
Exhibit 5

	Agency Fund
Assets:	
Cash and cash equivalents	\$ 930,740
Investment interest receivable	585
Total assets	931,325
Liabilities:	
Interest subsidies payable to communities	4
Due to other governments	515,021
Other payables	416,300
Total liabilities	931,325
Net position	\$ -

See accompanying notes to the financial statements.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 1: Summary of Significant Accounting Policies

Reporting Entity

The Missouri Department of Natural Resources Drinking Water SRF program was established pursuant to the Safe Drinking Water Act (SDWA) Amendments of 1996. Section 1452 of this act authorizes the administrator of the EPA to establish a Drinking Water SRF program to assist public water systems with financing the costs of infrastructure needed to achieve or maintain compliance with the SDWA requirements, to protect public health, and to allow states to carry out prevention programs.

The Drinking Water SRF was capitalized by the EPA through a series of grants starting in 1997. For most of the grants, states are required to provide an additional 20 percent of the federal capitalization grant as matching funds. As of September 30, 2018, Congress had authorized EPA to award \$377,912,331 in capitalization grants to the State of Missouri. The state is required to contribute \$68,010,066 in matching funds. This includes \$3,916,400 of state match that is due in the next reporting period.

The program is administered by the Department, the Missouri Environmental Improvement and Energy Resources Authority (EIERA), and the Missouri Safe Drinking Water Commission. The EIERA issues bonds or notes to finance qualified projects, and the Department receives the capitalization grants from the EPA. The program is comprised of four funds within the state and an agency fund that holds the construction loan funds. The state funds are:

- Water and Wastewater Loan Fund (Fund 0649) – receives the federal capitalization grant funds and uses those funds to make grants and loans;
- Water and Wastewater Loan Revolving Fund (Fund 0602) - receives loan repayments and uses those funds to make new loans;
- Water Pollution Permit Fee Fund (Fund 0568) - receives loan fees charged to borrowers and can be used to pay administration costs of the program; Fund 0568 includes a state match subaccount that funds federal capitalization grant state match; and
- Department of Natural Resources Federal Fund (Fund 0140) - receives federal capitalization grant funds that fund set-aside activities.

The agency fund accounts for the monies held at trustee banks on behalf of the loan participants, as well as the rebate funds held for arbitrage payments.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

Missouri's statewide Comprehensive Annual Financial Report includes the Drinking Water SRF program as a special revenue fund, which uses the modified accrual basis of accounting. Due to differences in reporting methods and periods, there may be differences between the amounts reported in these financial statements and the Comprehensive Annual Financial Report. One major difference between the amounts reported in these reports is that the agency fund is not included in the Comprehensive Annual Financial Report but is shown in these financial statements.

Program Operations

The program provides financing to participants using three main types of funding: leveraged and reserve loans, direct loans, and grants.

A. Leveraged and Reserve Loans

Prior to state fiscal year (SFY) 2010, the program's main type of financing was through the use of leveraged and reserve loans. Missouri leveraged federal and state matching funds by issuing revenue bonds to make loans to qualified communities and by using federal grant and state matching funds to create reserves for the loans. Interest earned on the reserves subsidized loan interest rates and enhanced the security of the loans, which are pledged to repay bond principal and interest. Borrowers, in essence, received two loans from the SRF: a market-rate loan funded by the revenue bond proceeds that equaled project construction costs, and a zero-rate loan funded by capitalization grants and state matching funds that funded the reserves for the bonds. Bond proceeds were deposited to the construction loan accounts, which were held by the trustee bank. As communities drew on these funds to pay construction costs, a percentage of that amount (33.33 percent for bonds issued prior to 2002, 50 percent for bonds issued from 2002-2003, and 70 percent for bonds issued after 2003) was transferred to a reserve account established for each borrower. For loans closed in SFY 2009, the reserve accounts were funded at closing rather than as construction funds were released. Earnings in the reserve account reduced the borrower's net interest payments on the bonds, resulting in the subsidized, blended interest rate on the project loan.

Beginning with bond series 2003C, a portion of the revenue bonds sold to fund the leveraged loans were state match bonds that will be repaid with interest earnings on the loans. The state match bond proceeds were used to fund a portion of the construction loan account, while the reserve account was funded with federal grant and recycled funds.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 1: Summary of Significant Accounting Policies (continued)

B. Direct Loans

Direct loans that were closed on prior to SFY 2010 were funded from the Water and Wastewater Loan Revolving Fund. Loan proceeds were deposited to the construction loan accounts, which were held by the trustee bank. As construction costs were incurred, funds were released from the trustee bank to the borrower. The borrower repaid the loan by making monthly principal and interest payments to the trustee bank. On the debt service due dates, the trustee bank makes the debt service payment to the program.

During SFY 2010, the program changed how it funds direct loans. Instead of funding the loan up front and holding the funds at a trustee bank, the loan is funded incrementally as construction costs are incurred and funds are requested by the loan recipient. The borrower repays the loan by making quarterly principal and interest payments to the trustee bank. These loans are funded with federal grant and/or recycled funds.

C. Grants

Missouri was awarded the American Recovery and Reinvestment Act (ARRA) capitalization grant during SFY 2010. The terms and conditions of the ARRA capitalization grant required that not less than 50 percent of assistance provided be in the form of additional loan subsidies, such as principal forgiveness, negative interest loans or grants. Missouri chose to provide the required additional subsidization through grants. ARRA projects were funded through a combination of 50 percent grant and 50 percent loan with a maximum grant of \$2,000,000 per applicant. Disadvantaged communities were eligible for a 75 percent grant with a 25 percent direct loan. Grant payments were made directly to the recipient as construction costs were incurred.

Terms and conditions of the following capitalization grants require that additional subsidization in the form of principal forgiveness, negative interest rate loans, or grants be provided. Missouri has chosen to provide the additional subsidization through grants. The following table lists the ranges at which additional subsidization is required.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 1: Summary of Significant Accounting Policies (continued)

Federal Fiscal Year	Drinking Water Capitalization Grant	State Fiscal Year Awarded	Minimum	Maximum
2010	FS997629-10	2011		30.00 percent
2011	FS997629-11	2012		30.00 percent
2012	FS997629-12	2013	20.00 percent	30.00 percent
2013	FS997629-13	2014	20.00 percent	30.00 percent
2014	FS997629-14	2014	20.00 percent	30.00 percent
2015	FS997629-15	2015	20.00 percent	30.00 percent
2016	FS997629-16	2016	20.00 percent	20.00 percent
2017	FS997629-17	2017	20.00 percent	20.00 percent
2018	FS997629-18	2018	20.00 percent	20.00 percent

Basis of Accounting

The financial statements include enterprise funds and a fiduciary fund. The loan, administration fee and set-aside funds are presented as enterprise funds and the agency fund is presented as a fiduciary fund. All funds are maintained on the accrual basis. The enterprise funds are accounted for using the flow of economic resources measurement focus. Under the accrual basis of accounting, revenues are recognized when earned and expenses are recorded at the time the liabilities are incurred.

All assets, deferred inflows and outflows of resources and liabilities associated with the operations of the enterprise funds are included on the Statement of Net Position. The assets and liabilities of the agency fund are included on the Statement of Fiduciary Net Position.

Drinking Water SRF reports the following major funds:

Loan Fund. The loan fund provides financial assistance to municipalities, counties, political subdivisions and instrumentalities of the state. Funding for these loan programs is generated from federal capitalization grants, proceeds of revenue bonds issued to provide required state matching monies, proceeds of revenue bonds issued for the leveraged program, and recycled monies.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

Administration Fee Fund. This fund accounts for the administration fees received on loans and the use of those fees to pay salaries, associated expenses of program personnel devoting time to the administration of the program and other eligible purposes. During the reporting period state match was transferred from the set-aside fund and was applied to certain grant payments.

Set-Aside Fund. The set-aside fund provides monies to establish and implement programs with emphasis on preventing contamination problems through source-water protection and encouraging better system operations. The Drinking Water SRF program allows states to reserve up to 31 percent of the capitalization grant to use towards administration and technical assistance, small system technical assistance, public water system supervision program management and local assistance and other state programs. In 2018, the Department reserved 31 percent of the federal fiscal year (FFY) 2018 grant for set-aside activities.

In addition, the program reports the following fund type:

Agency Fund. This fund accounts for monies held on behalf of municipalities, counties, political subdivisions, and instrumentalities of the state. This fund includes the funds generated by the sale of the bonds on behalf of loan participants, which are deposited with a trustee bank in the applicant's name. The agency fund also includes rebate funds held for arbitrage payments.

Cash, Cash Equivalents and Investments

A. Enterprise Funds

All monies in the state funds (Funds 0140, 0568, 0602, and 0649) are required to be deposited with the Missouri State Treasurer's Office, which is responsible for maintaining the deposits in accordance with state law. The program considers all such deposits to be cash. Investment interest earnings on these deposits are received by the program periodically throughout the month.

According to state law, the Treasurer is responsible for maintaining the cash balances and investing excess cash of the program, as further discussed in Note 2. Consequently, management of the program does not have any control over the investment of the excess cash. The statement of cash flows considers all funds deposited with the Treasurer to be cash or cash equivalents, regardless of actual maturities of the underlying investments.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

Monies of the enterprise funds that are held at the trustee bank are invested in either money market mutual funds, guaranteed investment contracts, or state and local government series securities by the trustee bank. The money market mutual funds are considered to be cash or cash equivalents. The securities are longer term investments and are stated at fair value. The contracts are stated at cost as they are not negotiable or transferable and are not affected by market fluctuations. The enterprise funds do not include monies held at trustee banks on behalf of the loan participants. Those monies are accounted for under the agency fund.

B. Agency Fund

The agency fund accounts for the monies held at trustee banks on behalf of the loan participants, as well as the rebate funds held for arbitrage payments. The program considers all highly liquid investments with original maturities of three months or less to be cash equivalents.

Operating Revenues and Expenses

Revenues and expenses as a result of providing loans and grants to participants are considered operating revenues and expenses. Operating revenues include interest earned on loans, administration fee revenue, and operating grants. Operating expenses include grant payments, salaries, benefits, other administrative expenses, and accruals.

The non-operating revenues and expenses of the program are investment income, EPA capitalization grant revenues and bond related expenses.

Administration Fees

The program charges an administration fee to borrowers to fund administrative costs of operating the program. The program's administrative expenses are currently paid with administration fees and grant set-aside funds. During the reporting period ending September 30, 2018, \$1,038,790 was collected for administration fees from borrowers and \$28,877 of investment interest was received. The cash balance of the administration fee fund was \$2,616,253 as of September 30, 2018.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

Pensions

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the Missouri State Employees' Retirement System (MOSERS) and additions to and deductions from MOSERS' fiduciary net position have been determined on the same basis as they are reported by MOSERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Bonds Payable

Bonds issued prior to 2010 are special limited obligations of EI ERA, payable from borrower loan repayments and a reserve account established for each borrower in accordance with a master trust agreement. Interest expense is reported on the accrual basis. Due to the flow-through effect of the bonds and related receivables, bond discounts, premiums and issuance costs are not reported by the program since they represent the costs of the borrowers.

Borrowers make monthly payments to debt service repayment accounts, which also earn interest that further subsidizes the interest rates. On bond payment dates, transfers are made from the repayment accounts to the debt service funds to make the semi-annual interest payments and annual bond principal payments. Interest earnings on the construction loan accounts and reserve accounts are also transferred to the debt service funds on the bond payment dates. These interest earnings reduce the amount that is needed from the repayment accounts.

As outstanding bond principal is reduced, a proportional amount is released from the reserve account. The released amounts flow to the master trust unallocated fund, and, if there are no defaults, are transferred to the Water and Wastewater Loan Revolving Fund to be used to make new loans.

Bonds issued since 2010 are different than previous issues. There is no longer a direct link between the bonds and the loans. Any premium or cost of issuing the bonds is no longer passed on to the loan borrower. Therefore, those amounts are reported on the program's financial statements.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

Deferred Outflows and Inflows of Resources

In addition to assets, the statement of net position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, *deferred outflows of resources*, represents a consumption of net position that applies to a future period and so will *not* be recognized as an outflow of resources (expense/expenditure) until then. The program has three items that qualify for reporting in this category. Those are the deferred charge on refunding, the deferred outflows for pension, and the deferred outflows for OPEB, which are reported in the statement of net position. The deferred charge on refunding results from the difference in the carrying value of refunded debt and its reacquisition price. This amount is deferred and amortized over the shorter life of the refunded or refunding debt.

In addition to liabilities, the statement of financial position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, *deferred inflows of resources*, represents an acquisition of net position that applies to a future period and so will not be recognized as an inflow of resources (revenue) until that time. The program has two items that qualify for reporting in this category, which are deferred inflows for pension and deferred inflows for OPEB.

Pending Governmental Accounting Standards Board Statements

GASB Statement No. 88

GASB Statement No. 88, *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements* was issued March 2018. The primary objective of this Statement is to improve the information that is disclosed in notes to government financial statements related to debt, including direct borrowings and direct placements. It also clarifies which liabilities governments should include when disclosing information related to debt. This Statement defines debt for purposes of disclosure in notes to financial statements as a liability that arises from a contractual obligation to pay cash (or other assets that may be used in lieu of cash) in one or more payments to settle an amount that is fixed at the date the contractual obligation is established. This Statement requires that additional essential information related to debt be disclosed in notes to financial statements, including unused lines of credit; assets pledged as collateral for the debt; and terms specified in debt agreements related to significant events of default with finance-related consequences, significant termination events with finance-related consequences, and significant subjective acceleration clauses. For notes to financial statements related to debt, this Statement also requires that existing and additional information be provided for direct borrowings and direct placements of debt separately from other debt. The requirements of this statement are effective for periods beginning after June 15, 2018.

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

GASB Statement No. 89

GASB Statement No. 89, Accounting for Interest Cost Incurred before the End of a Construction Period, was issued June 2018. The objectives of this Statement are (1) to enhance the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) to simplify accounting for interest cost incurred before the end of a construction period. This Statement establishes accounting requirements for interest cost incurred before the end of a construction period. Such interest cost includes all interest that previously was accounted for in accordance with the requirements of paragraphs 5–22 of Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*, which are superseded by this Statement. This Statement requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred for financial statements prepared using the economic resources measurement focus. As a result, interest cost incurred before the end of a construction period will not be included in the historical cost of a capital asset reported in a business-type activity or enterprise fund. This Statement also reiterates that in financial statements prepared using the current financial resources measurement focus, interest cost incurred before the end of a construction period should be recognized as an expenditure on a basis consistent with governmental fund accounting principles. The requirements of this statement are effective for periods beginning after December 15, 2019.

GASB Statement No. 90

GASB Statement No. 90, Majority Equity Interests—an amendment of GASB Statements No. 14 and No. 61, was issued August 2018. The primary objectives of this Statement are to improve the consistency and comparability of reporting a government’s majority equity interest in a legally separate organization and to improve the relevance of financial statement information for certain component units. It defines a majority equity interest and specifies that a majority equity interest in a legally separate organization should be reported as an investment if a government’s holding of the equity interest meets the definition of an investment. A majority equity interest that meets the definition of an investment should be measured using the equity method, unless it is held by a special-purpose government engaged only in fiduciary activities, a fiduciary fund, or an endowment (including permanent and term endowments) or permanent fund. Those governments and funds should measure the majority equity interest at fair value. For all other holdings of a majority equity interest in a legally separate organization, a government should report the legally separate organization as a component unit, and the government or fund that holds the equity interest should report an asset related to the majority equity interest using the equity method. This Statement establishes that ownership of a majority equity interest in a legally separate organization results in the government being financially accountable for the legally separate organization and, therefore, the government should report that organization as a component unit. This Statement also requires that a component unit in which a government has a 100 percent equity interest account for its assets, deferred outflows of resources, liabilities, and

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6

Note 1: Summary of Significant Accounting Policies (continued)

deferred inflows of resources at acquisition value at the date the government acquired a 100 percent equity interest in the component unit. Transactions presented in flows statements of the component unit in that circumstance should include only transactions that occurred subsequent to the acquisition. The requirements of this statement are effective for periods beginning after December 15, 2018.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Note 2: Cash, Cash Equivalents, and Investments

State Funds

All cash in the state funds (Funds 0140, 0568, 0602, and 0649) is required to be deposited with the State Treasurer, who is responsible for maintaining and investing the pooled cash balances in accordance with state laws. The Treasurer is required to maintain a mix of investments in order to allow funds to be withdrawn at any time to meet normal operating needs. The program's share of the investment income from the local government investment pool is based on the average daily balance for the period and is credited to the program periodically throughout the month.

The State Treasurer's Office (STO) has its own policies for custodial credit risk, interest rate risk, credit risk, concentration of credit risk and foreign currency risk. Details of the investments and risks can be obtained from the STO.

All cash and investments in the local investment pool are stated at cost, which approximates fair value. The investments in the local government investment pool are not exposed to custodial credit risk because their existence is not evidenced by securities that exist in physical or book entry form.

Trustee Bank Funds

All cash and investments held by trustee banks are invested in accordance with the trustee investment agreement and the bond indentures. Allowable investments include:

- Federal securities.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 2: Cash, Cash Equivalents, and Investments (continued)

- Direct and general obligations of the state which are pledged by the full faith and credit of the state and are rated in either of the two highest rating categories.
- Deposits at banks, trust companies or savings and loan associations which are fully insured by FDIC.
- Federal funds, unsecured certificates of deposit, time deposits and banker acceptances (having maturities of not more than 365 days) of any bank and which are rated in the highest short term rating category.
- Unsecured promissory notes of any bank, trust company, national banking association or bank holding company equal to such institution’s outstanding unsecured long term debt that is rated in the highest rating category.
- Tax exempt permitted investments.
- Any other investment agreement with a provider that is rated, or whose unsecured, long term obligations are rated at least “Aa2” or equivalent, or with a provider whose obligations are guaranteed by a guarantor which is rated, or whose unsecured, long term obligations are rated at least “Aa2” or equivalent.
- Commercial paper issued by domestic corporations rated in the second highest short term rating category.
- Shares in money market mutual funds rated in the highest applicable rating category.

A. Custodial credit risk. This is the risk that, in the event of the failure of the counterparty, the program will not be able to recover the value of its deposits or investments. There are no cash and cash equivalents held by the trustee banks that were exposed to custodial credit risk. Also, no cash and cash equivalents were invested in money market mutual funds.

As of September 30, 2018, the loan fund had the following investments:

Investment Type	Fair Value	Investment Maturities		
		<1 Year	1-5 Years	>5 Years
Gov’t Agency & State and Local	\$8,146,053	\$438,828	\$1,819,348	\$5,887,877

B. Interest rate risk. Interest rate risk is the risk that changes in interest rates may adversely affect the investment’s fair value. The program does not have a policy to address interest rate risk.

C. Credit risk. The trustee banks are responsible for monitoring credit risk as it relates to the types of investments that can be made in accordance with the trustee investment agreement. The program has no investment policy that further limits its investment choices.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
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Note 2: Cash, Cash Equivalents, and Investments (continued)

D. Concentration of credit risk. The program places no limit on the amount that may be invested with any one issuer. The program has no investments held by any providers as of September 30, 2018.

Note 3: Loans Receivable

Loans receivable consist of three types: leveraged loans, reserve loans, and direct loans. Leveraged loans are funded by the sale of revenue bonds, the proceeds of which are deposited to a construction loan fund. Borrowers are loaned funds from the construction loan fund to pay for construction costs incurred. The terms of the loans mirror the terms of the bonds in order to provide the funds to pay bond interest and principal according to the terms of the bonds. In conjunction with the leveraged loan that funds construction, a reserve loan is made to provide an interest subsidy to the borrower and to provide security for bond principal and interest.

With direct loans, there is no bond sale directly related to the loan. The loans are funded directly from the federal capitalization grant or recycled monies.

The following details the three types of loans as of September 30, 2018:

Loan Type	Loan Amount Authorized	Outstanding Balance
Leveraged	\$250,735,000	\$ 80,020,000
Direct	182,086,700	134,617,413
Reserve	133,403,148	48,937,254
Total	<u>\$566,224,848</u>	263,574,667
Less Current Maturities		27,350,003
Loans Receivable, Net of Current Portion		<u>\$236,224,664</u>

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
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Note 3: Loans Receivable (continued)

Loans receivable activity during the year ended September 30, 2018 is summarized as follows:

Type of Loan	Sept. 30, 2017			Sept. 30, 2018
	Balance	Disbursements	Repayments	Balance
Leveraged Loans	\$ 92,810,000	\$ -	\$(12,790,000)	\$ 80,020,000
Direct Loans	120,507,877	20,671,388	(6,561,852)	134,617,413
Reserve Loans	55,804,424	-	(6,867,170)	48,937,254
	<u>\$269,122,301</u>	<u>\$20,671,388</u>	<u>\$(26,219,022)</u>	<u>\$263,574,667</u>

Loan Maturities

The scheduled principal payments in subsequent years are as follows:

Year Ending Sept. 30	Leveraged	Direct	Reserve	Total
2019	\$13,020,000	\$7,419,435	\$6,910,568	\$27,350,003
2020	12,340,000	7,689,100	6,869,873	26,898,973
2021	11,455,000	7,834,200	6,560,010	25,849,210
2022	10,630,000	7,980,800	6,368,668	24,979,468
2023	9,390,000	8,130,700	5,965,493	23,486,193
2024-2028	22,490,000	42,904,000	15,776,142	81,170,142
2029-2033	695,000	39,037,126	486,500	40,218,626
2034-2038	-	13,622,052	-	13,622,052
Total	\$80,020,000	\$134,617,413	\$48,937,254	\$263,574,667

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 3: Loans Receivable (continued)

Loans to Major Local Recipients

As of September 30, 2018, the program had made loans to seven agencies that account for approximately 49 percent of the total loans receivable. The outstanding balances of the loans for these agencies are as follows:

Borrower	Original Amount	Outstanding Principal Balance	Outstanding Reserve Balance
Cape Girardeau	\$27,495,000	\$641,600	\$ -
Clarence Cannon WWC	23,980,000	10,637,900	3,698,404
Hannibal	12,960,000	11,094,002	-
Jefferson County Water Authority	20,167,000	7,920,200	3,050,615
Monett	13,012,000	8,663,600	-
Osage Beach	33,210,000	11,250,000	5,981,012
Tri-County Water Authority	77,427,000	50,483,086	14,446,719
Total	\$208,251,000	\$100,690,388	\$27,176,750

Missouri Department of Natural Resources
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Note 4: Bonds Payable

The Missouri Drinking Water SRF Program issues revenue bonds as well as using federal capitalization grants and state matching funds to finance qualified projects. Bonds payable and loans receivable are recorded in the loan fund. Cash and project costs payable are recorded in the agency fund. For bond series 2008A, the reserves were fully funded on the day of bond closing, rather than being funded incrementally as construction funds are released. Interest earned on the construction loan fund and the reserve fund subsidizes the interest on the borrower's loan. As borrowers repay the loans, the interest and principal serve as the source of funds to pay bond principal and interest.

Beginning with bond series 2004C, state match bonds were issued by the EI ERA in addition to leveraged bonds. Proceeds from both the state match bonds and the leveraged bonds are deposited into the borrowers' accounts at the trustee bank. The reserves for the leveraged bonds are then funded by federal capitalization grants or recycled funds.

In SFY 2011, revenue bond series 2010B was issued. Proceeds of this bond sale went to the recycled fund to provide additional funding for new loans. In SFY 2015, state match revenue bond series 2015A was issued by EI ERA. Proceeds from this bond sale were also deposited into the recycled fund to provide funding for new loans. These bond sales are different from previous bonds in that they were to provide additional funding that can be used to fund any loan being funded with recycled monies.

The principal and interest repayments on the program's direct loans have been pledged to make the principal and interest repayments on the bonds.

In addition to revenue bonds, there have been three state match general obligation bond issues. The state issued series A2002 to provide state match funding. In July 2010, the state issued series A2010, which partially refunded series A2002. In September 2012, the state issued series A2012 which refunded the rest of series A2002.

As of September 30, 2018, 25 separate revenue bond series remain outstanding, which have a total outstanding balance of \$89,445,000. The individual series, outstanding balances, and principal due included:

**Missouri Department of Natural Resources
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Note 4: Bonds Payable (continued)

Series	Amount Issued	Outstanding Balance	Current Portion	Effective Rate to Community
Revenue Bond Series 1998B interest of 3.45% to 5.25% due semi-annually, principal due annually to January 2019.	\$28,795,000	\$5,000	\$5,000	3.08
Revenue Bond Series 1999B interest of 4.125% to 5.75% due semi-annually, principal due annually to July 2020.	4,320,000	35,000	20,000	3.57
Revenue Bond Series 2000A interest of 4.6% to 5.75% due semi- annually, principal due annually to July 2020.	20,490,000	55,000	40,000	3.51
Revenue Bond Series 2000B interest of 4.5% to 5.625% due semi-annually, principal due annually to July 2021.	6,810,000	60,000	25,000	3.37
Revenue Bond Series 2001A interest of 4.0% to 5.0% due semi- annually, principal due annually to January 2022.	6,295,000	50,000	20,000	2.93
Revenue Bond Series 2001C interest of 3.0% to 5.375% due semi-annually, principal due annually to July 2023.	23,400,000	625,000	160,000	3.45
Revenue Bond Series 2002A interest of 2.0% to 5.375% due semi-annually, principal due annually to January 2023.	10,370,000	265,000	80,000	2.43
Revenue Bond Series 2002B interest of 2.0% to 5.5% due semi- annually, principal due annually to July 2023.	26,705,000	410,000	155,000	2.43
Revenue Bond Series 2003B interest of 2.0% to 5.125% due semi-annually, principal due annually to January 2024.	11,445,000	380,000	90,000	2.18
Revenue Bond Series 2003C interest of 2.0% to 5.0% due semi- annually, principal due annually to July 2023.	11,290,000	160,000	50,000	1.70
2003C Leveraged Portion	9,795,000	10,000	0	
2003C State Match Portion	1,495,000	150,000	50,000	
Revenue Bond Series 2004A interest of 2.0% to 5.0% due semi- annually, principal due annually to July 2021. (Refunding Bonds)	17,325,000	3,885,000	2,145,000	n/a

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
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Note 4: Bonds Payable (continued)

Series	Amount Issued	Outstanding Balance	Current Portion	Effective Rate to Community
Revenue Bond Series 2004B interest of 2.0% to 5.25% due semi- annually, principal due annually to January 2024.	3,605,000	1,760,000	270,000	1.63
2004B Leveraged Portion	2,950,000	1,635,000	240,000	
2004B State Match Portion	655,000	125,000	30,000	
Revenue Bond Series 2004C interest of 3.0% to 5.25% due semi- annually, principal due annually to January 2026.	9,720,000	1,680,000	630,000	1.63
2004C Leveraged Portion	7,865,000	1,360,000	555,000	
2004C State Match Portion	1,855,000	320,000	75,000	
Revenue Bond Series 2005A interest of 3.0% to 5.0% due semi- annually, principal due annually to July 2025.	28,105,000	1,430,000	320,000	1.77
2005A Leveraged Portion	22,745,000	335,000	75,000	
2005A State Match Portion	5,360,000	1,095,000	245,000	
Revenue Bond Series 2005C interest of 3.25% to 5.25% due semi-annually, principal due annually to July 2026.	29,780,000	4,135,000	1,280,000	1.34
2005C Leveraged Portion	23,930,000	2,595,000	1,000,000	
2005C State Match Portion	5,850,000	1,540,000	280,000	
Revenue Bond Series 2006A interest of 3.6% to 5.25% due semi- annually, principal due annually to July 2026.	2,000,000	200,000	105,000	1.55
2006A Leveraged Portion	1,610,000	125,000	90,000	
2006A State Match Portion	390,000	75,000	15,000	
Revenue Bond Series 2006B interest of 4.0% to 5.0% due semi- annually, principal due annually to July 2027.	2,295,000	165,000	30,000	1.58
2006B Leveraged Portion	1,960,000	65,000	10,000	
2006B State Match Portion	335,000	100,000	20,000	
Revenue Bond Series 2007B interest of 4.0% to 5.0% due semi- annually, principal due annually to January 2026.	385,000	30,000	-	1.51
Revenue Bond Series 2008A interest of 4.0% to 5.75% due semi- annually, principal due annually to January 2029.	10,805,000	1,620,000	520,000	1.63
2008A Leveraged Portion	9,255,000	1,000,000	430,000	
2008A State Match Portion	1,550,000	620,000	90,000	

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
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Note 4: Bonds Payable (continued)

Series	Amount Issued	Outstanding Balance	Current Portion	Effective Rate to Community
Revenue Bond Series 2010A interest of 2.0% to 5.0% due semi-annually, principal due annually to January 2024. (Refunding Bonds)	35,920,000	13,560,000	1,750,000	n/a
Revenue Bond Series 2010B interest of 2.0% to 5.0% due semi-annually, principal due annually to July 2030.	12,605,000	4,025,000	640,000	n/a
2010B Leveraged Portion	7,860,000	1,920,000	340,000	
2010B State Match Portion	4,745,000	2,105,000	300,000	
Revenue Bond Series 2011A interest of 2.0% to 5.0% due semi-annually, principal due annually to January 2024. (Refunding Bonds)	10,480,000	6,870,000	475,000	n/a
Revenue Bond Series 2013A interest of 2.0% to 5.0% due semi-annually, principal due annually to January 2027. (Refunding Bonds)	35,630,000	26,115,000	2,370,000	n/a
Revenue Bond Series 2015A interest of 1.5% to 5.0% due semi-annually, principal due semi-annually to January 2036. (State Match)	5,975,000	4,380,000	425,000	n/a
Revenue Bond Series 2015B interest of 3.5% to 5.0% due semi-annually, principal due annually to January 2030. (Refunding Bonds)	19,565,000	17,545,000	555,000	n/a
2015B Leveraged Portion	18,905,000	17,070,000	470,000	
2015B State Match Portion	660,000	475,000	85,000	
Total Revenue Bonds		<u>\$89,445,000</u>	<u>\$12,160,000</u>	

Series	Amount Issued	Outstanding Balance	Current Portion
Leveraged Bonds	\$345,245,000	\$78,460,000	\$10,545,000
State Match Bonds	28,870,000	10,985,000	1,615,000
Premium on Bonds	-	6,805,616	1,427,745
Total Revenue Bonds	<u>\$374,115,000</u>	<u>\$96,250,616</u>	<u>\$13,587,745</u>

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
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Note 4: Bonds Payable (continued)

Bond activity during the year ended September 30, 2018 is summarized as follows:

Series	Sept. 30, 2017			Sept. 30, 2018 Balance
	Balance	Repayments	New Issues	
Leveraged Bonds	\$92,808,600	\$(14,348,600)	\$ -	\$78,460,000
State Match Bonds	12,665,000	(1,680,000)	-	10,985,000
Premium on Bonds	8,366,959	(1,561,343)	-	6,805,616
Total Revenue Bonds	<u>\$113,840,559</u>	<u>\$(17,589,943)</u>	<u>\$ -</u>	<u>\$96,250,616</u>

The required annual payments, not including premium and deferred amounts, for all revenue bonds in subsequent fiscal years are as follows:

Leveraged Bonds

Year Ending Sept. 30	Principal	Interest	Total
2019	\$ 10,545,000	\$ 3,703,770	\$ 14,248,770
2020	11,555,000	3,142,246	14,697,246
2021	10,750,000	2,581,591	13,331,591
2022	10,725,000	2,048,518	12,773,518
2023	9,190,000	1,542,712	10,732,712
2024-2028	24,080,000	2,483,829	26,563,829
2029-2033	1,615,000	64,081	1,679,081
Leveraged Bonds Total	<u>\$ 78,460,000</u>	<u>\$ 15,566,747</u>	<u>\$ 94,026,747</u>

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
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Note 4: Bonds Payable (continued)

Match Bonds

Year Ending Sept. 30	Principal	Interest	Total
2019	\$ 1,615,000	\$ 493,479	\$ 2,108,479
2020	1,510,000	416,504	1,926,504
2021	1,390,000	350,445	1,740,445
2022	1,250,000	289,849	1,539,849
2023	1,110,000	231,386	1,341,386
2024-2028	3,110,000	527,829	3,637,829
2029-2033	870,000	85,238	955,238
2034-2036	130,000	5,906	135,906
Match Bonds Total	\$10,985,000	\$2,400,636	\$13,385,636

Advance Refundings

Five separate refunding bond series (Series 2004A, 2010A, 2011A, 2013A and 2015B) totaling \$118,920,000 have been issued to provide resources to purchase U.S. Government State and Local Government Series securities that were placed in irrevocable trusts for the purpose of generating resources for future debt service payments of \$125,717,450 of revenue bonds. As a result, the refunded bonds are considered to be defeased and the liability has been removed from the Statement of Net Position. As of September 30, 2018, the amount of refunded bonds that had yet to be called totaled \$9,290,000.

Note 5: Arbitrage Rebate

In accordance with Internal Revenue Code Section 148(f) relating to arbitrage restrictions on tax-exempt bonds, no arbitrage rebate payable has been recorded.

Note 6: Pension Plan

Plan Description

Benefit eligible employees of the Department are provided with pensions through Missouri State Employees' Plan (MSEP) - a cost-sharing multiple-employer defined benefit pension plan administered by MOSERS. The plans are referred to as MOSERS in the notes. Chapter 104.320 of the Revised Statutes of Missouri grants the authority to establish a defined benefit plan for eligible state and other related agency employees. MOSERS issues an annual Comprehensive Annual Financial Report (CAFR), a publicly available financial

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Note 6: Pension Plan (continued)

report that can be obtained at www.mosers.org.

Benefits Provided

MOSERS provides retirement, disability, and life insurance benefits to eligible employees. The base retirement benefits are calculated by multiplying the employee's final average pay by a specific factor multiplied by the years of credited service. The factor is based on the specific plan in which the employee participates, which is based on the employee's hire date. Information on the three plans administered by MOSERS (MSEP, MSEP 2000, and MSEP 2011 retirement plans) and how eligibility and the benefit amount is determined for each plan may be found in the Notes to the Financial Statements of MOSERS' CAFR starting on page 28.

Contributions

Per Chapter 104.436 of the Revised Statutes of Missouri, contribution requirements of the active employees and the participating employers are established and may be amended by the MOSERS Board. Employees in the MSEP 2011 Plan are required to contribute 4.0 percent of their annual pay. The Drinking Water SRF program's required contribution rate for the year ended June 30, 2018, was 19.45 percent of annual payroll, actuarially determined as an amount that, when combined with employee contributions, is expected to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability.

Contributions to the pension plan from the Drinking Water SRF program were \$375,047 for the fiscal year ended June 30, 2018.

Net Pension Liability

At June 30, 2018, a liability was reported of \$5,470,108 for the Drinking Water SRF program's proportionate share of the net pension liability. The net pension liability was measured as of June 30, 2017, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The total pension liability was offset by the fiduciary net position obtained from MOSERS CAFR as of June 30, 2017, to determine the net pension liability.

The Drinking Water SRF program's proportion of the net pension liability was based on the Department's actual share of contributions to the pension plan relative to the actual contributions of all participating employers for MOSERS plan year ended June 30, 2017. At the June 30, 2017, measurement date, the Drinking Water SRF program's proportion was 0.1281 percent, an increase from its proportion measured using 0.1136 percent as of June 30, 2016, measurement date.

**Missouri Department of Natural Resources
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Note 6: Pension Plan (continued)

During the MOSERS plan year ended June 30, 2017, there were no changes to MSEP 2011 benefit provisions that reduced the actuarial accrued liability. There were no other changes in benefit terms during the MOSERS plan year ended June 30, 2017, that affected the measurement of total pension liability.

Actuarial Assumptions

The total pension liability in the June 30, 2017, actuarial valuation, which is also the date of measurement for GASB 68 purposes, was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.5%
Salary Increases	3.25% to 8.75% including inflation
Wage Inflation	3.0%
Investment Rate of Return	7.5%, compounded annually, net after investment expenses and including inflation

The actuarial assumptions used in the June 30, 2017, valuation were based on the results of an actuarial experience study for the period July 1, 2010 to June 30, 2015. In addition, the Board reaffirmed its previous decision to reduce the investment return assumption from 7.65 percent to 7.5 percent for the June 30, 2017, valuation. There were no other changes in assumptions.

Mortality

Mortality rates for post-retirement mortality are based on the RP-2014 Healthy Annuitant mortality table, projected to 2026 with Scale MP-2015 and scaled by 120 percent. The pre-retirement mortality table used is the RP-2014 Employee mortality table, projected to 2026 with Scale MP-2015 and scaled by 95 percent for males and 90 percent for females.

Long-Term Investment Rate of Return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates rates of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of geometric real rates of return for each major asset class included in MOSERS target asset allocation as of June 30, 2017, are summarized in the following table:

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Note 6: Pension Plan (continued)

Asset Class	Policy Allocation	Long-term Expected Real Rate of Return*	Weighted Average Long-term Expected Real Rate of Return
Opportunistic global equity	38.0%	5.5%	2.1%
Nominal bonds	44.0%	1.0%	0.5%
Commodities	20.0%	4.5%	0.9%
Inflation-linked bonds	39.0%	0.8%	0.3%
Alternative beta	31.0%	4.5%	1.4%
Total	<u>172.0%</u>		<u>5.2%</u>

*Represent best estimates of geometric rates of return for each major asset class included.

Discount Rate

The discount rate used to measure the total pension liability was 7.5 percent. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that contributions from employers will be made at required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the Drinking Water SRF Program's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the Drinking Water SRF program's proportionate share of the net pension liability calculated using the discount rate of 7.5 percent, as well as what the Drinking Water SRF program's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (6.5 percent) or 1 percentage point higher (8.5 percent) than the current rate:

	1% Decrease (6.5%)	Current Discount Rate (7.5%)	1% Increase (8.5%)
Drinking Water SRF program's proportionate share of the net pension liability	\$7,042,891	\$5,470,108	\$4,147,208

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Note 6: Pension Plan (continued)

Pension Plan Fiduciary Net Position

Detailed information about the pension plan’s fiduciary net position is available in the separately issued MOSERS comprehensive annual financial report, which may be requested from Missouri State Employees' Retirement System, P.O. Box 209, Jefferson City, MO 65102-0209 or viewed on www.mosers.org.

Pension Expense

For the year ended June 30, 2018, the Drinking Water SRF program recognized pension expense of \$984,793.

Deferred Outflows of Resources and Deferred Inflows of Resources

At June 30, 2018, the Drinking Water SRF program reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 31,813	\$ (90,380)
Changes of assumptions	(46,930)	(11,173)
Net difference between projected and actual earnings on pension plan investments	963,867	32,096
Changes in proportion and differences between Drinking Water SRF program contributions and proportionate share of contributions	-	(3,052)
Drinking Water SRF program contributions subsequent to the measurement date of June 30, 2017	376,437	-
Total	\$1,325,187	\$ (72,509)

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Drinking Water State Revolving Fund
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Note 6: Pension Plan (continued)

\$376,437 Drinking Water SRF program amounts reported as deferred outflows of resources related to pensions resulting from Drinking Water SRF program contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ending June 30, 2019, of the Drinking Water SRF program’s financial statements. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense in the Drinking Water SRF program’s fiscal year following MOSERS’ fiscal year as follows:

Plan year ending June 30:

2019	\$286,847
2020	392,879
2021	150,419
2022	46,096
2023	-
Thereafter	-
Total	<u><u>\$876,241</u></u>

Payables to the Pension Plan

As of June 30, 2018, the Drinking Water SRF program had payables of \$21,965 to MOSERS because of benefits accrued for the September 16, 2018, payroll that were not paid until after this reporting period, but earned during the reporting period.

Note 7: Other Post-Employment Benefits Plan (OPEB)

Plan Description

Benefit eligible employees of the Department are provided through the Missouri Consolidated Health Care Plan (MCHCP or the Plan), which is a cost sharing multiple employer, defined benefit OPEB, the State Retiree Welfare Benefit Trust (SRWBT). Employees may participate at retirement if eligible to receive a monthly retirement benefit from either the Missouri Employees’ Retirement System (MOSERS) or another retirement system whose members are grandfathered for coverage under the Plan by law. The terms and conditions governing postemployment benefits, are vested with the MCHCP Board of Trustees within the authority granted under Chapter 103 of the Revised Statutes of Missouri (2000) as amended (“RSMo”) 103.003 through 103.178. MCHCP is considered a component unit of the State of Missouri reporting entity and is included in the state’s financial report. The Plan’s financial statements are available on MCHCP’s website at www.mchcp.org/aboutUs/annualReport.asp.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
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Note 7: Other Post-Employment Benefits Plan (continued)

Benefits Provided

The SRWBT was established and organized on June 27, 2008, pursuant to the Revised Statutes of Missouri (2000) as amended (“RSMo”) 103.003 through 103.178 to provide health and welfare benefits for the exclusive benefit of current and future retired employees of the state and their dependents who meet eligibility requirements except for those retired members covered by other OPEB plans of the state. MCHCP’s three medical plans offer the same, basic coverage such as preventative care, freedom to choose care from a nationwide network of primary care providers, specialists, pharmacies and hospitals, usually at a lower negotiated group discount and the same covered benefits for both medical and pharmacy. Benefits are the same in all three plans, other aspects differ such as premium, deductible and out of pocket costs. Retiree benefits are the same as for active employees. As of January 1, 2017, membership information consisted of the following:

Active employees – 41,836

Participants and Spouses in Payment Status – 20,060

Participants with a deferred benefit – 73

Disabled participants – 99

Note: Membership information for Drinking Water SRF program employees is not available.

Contributions

Contributions are established and may be amended by the MCHCP Board of Trustees with the authority granted under Chapter 103 of the Revised Statutes of Missouri (2000) as amended (“RSMo”) 103.003 through 103.178. For the fiscal year ended June 30, 2017, employers were required to contribute 4.26 percent for the period July 1, 2016 through December 31, 2016, and 4.02 percent for the period January 1, 2017, through June 30, 2017, of gross active employee payroll toward their required contributions.

Contributions to the OPEB plan from the Drinking Water SRF program were \$5,687 for the fiscal year ended June 30, 2018.

OPEB Liabilities, OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

At June 30, 2018, a liability was reported of \$150,347 for the Drinking Water SRF program’s proportionate share of the net OPEB liability. The net OPEB liability was measured as of June 30, 2017, and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation as of that date.

The Drinking Water SRF program’s proportion of the net OPEB liability was based on the Department's share of covered payroll in the OPEB plan relative to the covered payroll of all participating OPEB employers. At June 30, 2017, the Drinking Water SRF program’s

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Exhibit 6**

Note 7: Other Post-Employment Benefits Plan (continued)

proportion was 0.0086 percent.

For the year ended June 30, 2018, the Drinking Water SRF program recognized OPEB expense of \$10,449. At June 30, 2018, the Drinking Water SRF program reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ -	\$(270)
Changes of assumptions	-	-
Net difference between projected and actual earnings on OPEB plan investments	-	(15)
Changes in proportion and differences between employer contributions and proportionate share of contributions	5	-
Employer contributions subsequent to the measurement date	5,063	-
Total	<u>\$5,068</u>	<u>\$(285)</u>

\$5,063 reported as deferred outflows of resources related to OPEB resulting from Drinking Water SRF program contributions subsequent to the measurement date will be recognized as a reduction of the net OPEB liability in the year ended June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in future years' OPEB expense as follows:

Year ending June 30:

2019	\$(36)
2020	(36)
2021	(36)
2022	(36)
2023	(32)
Thereafter	(104)
Total	<u><u>\$(280)</u></u>

Actuarial Assumptions

Actuarial valuations for the SRWBT involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. The valuation to determine the SRWBT's total OPEB liability is required to be performed at least every two years. The SRWBT valuation is performed annually, but should the valuation not be

**Missouri Department of Natural Resources
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Note 7: Other Post-Employment Benefits Plan (continued)

performed as of the fiscal year end, the total OPEB liability is required to be rolled forward from the actuarial valuation date to the SRWBT plan’s fiscal year end. Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of the valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short term volatility in actuarial liabilities and the actuarial value of assets, consistent with the long term perspective of the calculations. The collective total OPEB liability for the June 30, 2018, measurement date was determined by an actuarial valuation as of January 1, 2017, with updated procedures used to roll forward the total OPEB liability to June 30, 2017. This actuarial valuation used the following actuarial assumptions:

Actuarial Assumptions	
Inflation rate	3.00%
Discount rate	5.71%
Projected payroll growth rate	4.00%
Actuarial cost method	Entry age normal, level percentage of payroll
Asset valuation method	Market value

Health care cost trend rate (Medical & prescription drugs combined): Non-Medicare is 6.5 percent for fiscal year 2017; the rate decreases by 0.25 percent per year to an ultimate rate of 5.0 percent in Fiscal 2023 and later. Medicare is 7.5 percent for fiscal year 2017; the rate decreases by 0.25 percent per year to an ultimate of 5.0 percent in fiscal year 2027 and after.

Mortality: RP-2016 for Employees/Annuitants without collar adjustments using Scale MP-2016. The last experience study was conducted for the period July 1, 2008, through June 30, 2012. The last independent actuarial review of the reasonableness and accuracy of actuarial assumptions, actuarial cost methods, and valuations was conducted as of June 30, 2016.

Long-Term Expected Rate of Return

The target allocation and best estimates of arithmetic real rate of returns for each major asset class are listed in the following table:

**Missouri Department of Natural Resources
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Note 7: Other Post-Employment Benefits Plan (continued)

Asset Class	Target Allocation	Expected Real Return
Large cap stocks	20.0%	5.7%
Mid cap stocks	10.0%	6.0%
Small cap stocks	10.0%	6.0%
High-yield bonds	10.0%	2.6%
BarCap Aggregate bonds	20.0%	1.0%
Long Government/Credit	25.0%	1.4%
Cash equivalents	5.0%	0.3%

Discount Rate

A discount rate of 5.71 percent was used to measure the total OPEB liabilities. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and the contributions from employers will be made at statutorily required rates, actuarially determined. This discount rate was determined as a blend of the best estimate of the expected return on plan assets and, the 20 year high quality municipal bond rate as of the measurement date. For years where expected benefit payments can be covered by projected trust assets, expected returns are used. For years where payments are not expected to be covered by trust assets, the municipal Bond Buyer 20-Bond General Obligation Index rate is utilized.

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

As required by GASB Statement No. 75, the following table presents the Drinking Water SRF program’s net OPEB liability, calculated using a discount rate of 5.71 percent, as well as what the net OPEB liability would be if it were calculated using a discount rate that is one percent lower or one percent higher:

	1% Decrease in Discount Rate (4.71%)	Current Discount Rate (5.71%)	1% Increase in Discount Rate (6.71%)
Net OPEB Liability	\$177,563	\$150,347	\$128,806

	1% Decrease in Trend Rates	Current Trend Rates	1% Increase in Trend Rates
Net OPEB Liability	\$128,148	\$150,347	\$178,462

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
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Note 8: Net Position

The net position of the program is all restricted. The program's enabling legislation and related regulations require that all money in the fund be used only for purposes of the program. The program is capitalized by grants from the EPA, authorized by Section 1452 of the Safe Drinking Water Act, and matching funds from the State of Missouri. As of September 30, 2017, the EPA has awarded capitalization grants totaling \$377,912,331 of which \$336,940,918 has been drawn. During 2013, \$18,500,000 of capitalization grant funds were transferred to the Clean Water SRF program. The in-kind amounts of \$1,444 on the FS997629-00, \$100,000 for each FS997629-06 and FS997629-08 grant, and \$74,397 for the FS997629-11 grant are not available to be drawn. The adjusted award amount after subtracting the transfer and in-kind amounts totaled \$359,136,490. Also, in 2014, \$5,000 was rescinded from the grant.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
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Note 8: Net Position (continued)

The following table summarizes the capitalization grants awarded, amounts drawn on each grant, and balances available:

Grant ID	Grant Amount*	Total Draws Sept. 30, 2017	2018 Draws	Total Draws Sept. 30, 2018	Available Sept. 30, 2018
FS997629-97	\$21,856,417	\$21,856,417	\$ -	\$21,856,417	\$ -
FS997629-98	9,572,970	9,572,970	-	9,572,970	-
FS997629-99	10,034,771	10,034,771	-	10,034,771	-
FS997629-00	10,428,256	10,428,256	-	10,428,256	-
FS997629-01	10,472,900	10,472,900	-	10,472,900	-
FS997629-02	11,702,600	11,702,600	-	11,702,600	-
FS997629-03	11,633,700	11,633,700	-	11,633,700	-
FS997629-04	12,066,800	12,066,800	-	12,066,800	-
FS997629-05	12,041,273	12,041,273	-	12,041,273	-
FS997629-06	15,878,200	15,878,200	-	15,878,200	-
FS997629-07	12,578,000	12,578,000	-	12,578,000	-
FS997629-08	10,616,000	10,616,000	-	10,616,000	-
FS997629-09	10,616,000	10,616,000	-	10,616,000	-
FS997629-10	21,434,000	21,434,000	-	21,434,000	-
2F977082-01	37,862,000	37,862,000	-	37,862,000	-
FS997629-11	18,129,603	18,129,603	-	18,129,603	-
FS997629-12	17,348,000	17,348,000	-	17,348,000	-
FS997629-13	16,277,000	16,277,000	-	16,277,000	-
FS997629-14	17,850,000	17,850,000	-	17,850,000	-
FS997629-15	17,738,000	17,736,136	1,864	17,738,000	-
FS997629-16	16,781,000	11,849,440	4,931,560	16,781,000	-
FS997629-17	16,637,000	-	14,023,428	14,023,428	2,613,572
FS997629-18	19,582,000	-	-	-	19,582,000
Total	\$359,136,490	\$317,984,066	\$18,956,852	\$336,940,918	\$22,195,572

*This table reflects adjusted grant amounts as detailed in the preceding paragraph.

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 8: Net Position (continued)

As of September 30, 2018, state matching contributions were as follows:

	Sept.30, 2017	2018 Contribution	Sept.30, 2018
State Appropriations	\$15,504,549	\$ -	\$15,504,549
State Match Bonds (sold by EI ERA)	31,273,200	-	31,273,200
State Match Administration Fee	6,903,800	3,327,400	10,231,200
Rural Water Grants	7,085,242	-	7,085,242
Total State Match	\$60,766,791	\$3,327,400	\$64,094,191

The state match bonds sold by EI ERA are being repaid with Drinking Water SRF interest earnings and are not contributions to fund equity. The state match provided by the Rural Water Grants are not contributions to fund equity as these grants were funded by proceeds from Missouri state bond sales prior to 2012. The state match from administration fees is a contribution to loan fund equity.

Note 9: Set-Aside Costs

The Federal Safe Drinking Water Act allows states to reserve, or “set aside” up to 31 percent of the capitalization grant to implement and maintain activities to help public water systems provide safe drinking water to the public. The Safe Drinking Water Act establishes four categories of set-asides and sets a maximum amount for each. In SFY 2018, the Department reserved 31 percent of the FFY 2018 grant for set-aside activities.

Set-Aside Capitalization Grant Balances

The following capitalization grants have balances available to draw for set-aside activities that are detailed by set-aside category of available funding.

Grant	Program Administration and Technical Assistance	Small System Technical Assistance	Public Water System Supervision	Local Assistance and Other State Programs	Total Funds Available
2017	\$ 308,246	\$248,552	\$862,183	\$1,194,591	\$2,613,572
2018	783,280	391,640	1,958,200	2,937,300	6,070,420
Total	\$1,091,526	\$640,192	\$2,820,383	\$4,131,891	\$8,683,992

**Missouri Department of Natural Resources
Drinking Water State Revolving Fund
Notes to the Financial Statements – Unaudited
Exhibit 6**

Note 9: Set-Aside costs (continued)

Set-Aside Federal Draws

The table below identifies the total amounts drawn from each of the capitalization grants for set-aside activities as of September 30, 2018:

Grant	Program Administration and Technical Assistance	Small Systems Technical Assistance	Public Water System Supervision	Local Assistance and Other State Programs	Total Set-Aside
1997	\$874,304	\$436,780	\$1,435,760	\$1,834,798	\$4,581,642
1998	382,996	191,227	956,241	-	1,530,464
1999	401,416	200,704	1,003,034	-	1,605,154
2000	350,092	207,835	1,043,573	-	1,601,500
2001	414,990	209,110	1,043,225	-	1,667,325
2002	133,446	110,994	826,088	443,559	1,514,087
2003	454,980	227,490	1,137,450	568,725	2,388,645
2004	482,672	241,336	1,206,680	603,340	2,534,028
2005	481,652	240,777	1,204,130	1,204,152	3,130,711
2006	539,128	319,564	1,297,820	1,397,820	3,554,332
2007	639,120	319,560	1,597,800	798,900	3,355,380
2008	632,640	316,320	1,581,600	1,581,600	4,112,160
2009	632,640	316,320	1,581,600	1,581,600	4,112,160
ARRA	700,000	757,240	-	-	1,457,240
2010	1,049,360	524,680	2,623,400	3,935,100	8,132,540
2011	728,160	364,080	1,820,400	2,730,600	5,643,240
2012	693,920	346,960	1,734,800	2,602,199	5,377,879
2013	651,080	325,540	1,627,700	2,441,550	5,045,870
2014	709,200	357,100	1,785,500	2,678,250	5,530,050
2015	709,520	352,896	1,773,800	2,660,700	5,496,916
2016	671,240	335,620	1,678,100	2,517,150	5,202,110
2017	357,234	84,188	801,518	1,300,959	2,543,899
2018	-	-	-	-	-
Total	\$12,689,790	\$6,786,321	\$29,760,219	\$30,881,002	\$80,117,332

Missouri Department of Natural Resources
Drinking Water State Revolving Fund
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Note 10: Contingencies

The program is exposed to various risks of loss related to torts, theft of assets, errors or omissions, injuries to state employees while performing program business, or acts of God. The program maintains insurance through the State of Missouri for all risks of loss, which is included in the indirect costs allocated to the program. There have not been any claims against the program since its inception in 1997.

Note 11: Subsequent Events

On October 18, 2018, the EI ERA issued bond series 2018A in the amount of \$31,610,000 in tax exempt revenue bonds for the Drinking Water and Clean Water SRF programs. The bond proceeds will be disbursed as state match to the Drinking Water and Clean Water capitalization grants. The proceeds will support approximately three years of capitalization grant state match requirements.

**Missouri Department of Natural Resources Drinking
Water State Revolving Fund
Required Supplementary Information – Pension
Exhibit 7 – Unaudited**

Schedule of Proportionate Share of the Net Pension Liability Last 10 Fiscal Years*

	June 30, 2015	June 30, 2016	June 30, 2017	June 30, 2018
Drinking Water SRF proportion of the net pension liability	0.0998%	0.1000%	0.1053%	0.1281%
Drinking Water SRF's proportionate share of the net pension liability	\$2,329,478	\$3,212,154	\$4,886,362	\$5,470,108
Drinking Water SRF's covered-employee payroll	\$1,910,240	\$2,017,167	\$2,260,253	\$2,210,056
Drinking Water SRF's proportionate share of the net pension liability as a percentage of its covered-employee payroll	120.95%	164.35%	216.19%	247.51%
Plan fiduciary net position as a percentage of the total pension liability	79.49%	72.62%	63.60%	60.41%

*Figures are based on a measurement date and actuarial valuation as of the end of the preceding fiscal year. This schedule is ultimately required to show information for ten years. Only the data for years currently available is displayed.

Schedule of Agency Contributions Last 10 Fiscal Years*

	June 30, 2015	June 30, 2016	June 30, 2017	June 30, 2018
Required contribution	\$318,628	\$342,111	\$383,339	\$375,047
Contributions in relation to the required contribution	\$318,628	\$342,111	\$383,339	\$375,047
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -
Drinking Water SRF program covered-employee payroll	\$1,910,240	\$2,017,167	\$2,260,253	\$2,210,056
Contributions as a percentage of covered-employee payroll	16.68%	16.96%	16.96%	16.97%

*Figures are based on a measurement date and actuarial valuation as of the end of the preceding fiscal year. This schedule is ultimately required to show information for ten years. Only the data for years currently available is displayed.

Notes to the Schedule:

Changes of benefit terms: Senate Bill 62 (SB 62), which contained changes to the benefit structure for MSEP 2011, was passed by the 2017 legislature. The provisions of the bill decreased vesting from ten to five years of service, but also included provisions that essentially offset the cost of the vesting change. As a result, SB 62 had no impact on the employer contribution rate and created a decrease to the UAAL of \$1.6 million.

Changes of assumptions: The board reduced the investment return assumption used in the June 30, 2017, valuation to 7.5 percent.

**Missouri Department of Natural Resources Drinking
Water State Revolving Fund
Required Supplementary Information – OPEB
Exhibit 8 – Unaudited**

Schedule of Proportionate Share of the Net OPEB Liability*

Missouri Consolidated Health Care Plan	2018*
Clean Water SRF proportion of the collective net OPEB liability	0.0086%
Clean Water SRF's proportionate share of the collective net OPEB liability	\$150,347
Clean Water SRF's covered payroll	\$33,512
Clean Water SRF's proportionate share of the collective net OPEB liability as a percentage of its covered payroll	448.64%
Plan fiduciary net position as a percentage of the total OPEB liability	60.41%

*Based on the end of the preceding fiscal year.

Note: This schedule is ultimately required to show information for ten years. However, until a full ten-year trend is compiled, only the years that information is available will be reported.

Changes of benefit terms: There was no changes in benefit terms.

Changes of assumptions: The discount rate went from 5.70 percent to 5.71 percent.

Drinking Water SRF Source and Distribution of Loan Administration Fees Fund 0568 For Reporting Period of October 1, 2017 through September 30, 2018					
	Program Income Earned During Grant Period	Program Income Earned After Grant Period	Non-Program Income	DW Capitalization Grant Match	Total
2018 Reporting Period Income					
FY18 Income	\$ 97,232	\$ 779,174	\$ 162,384	\$ -	\$ 1,038,790
FY18 Interest Earnings	\$ 23,618	\$ 4,245	\$ 1,014	\$ -	\$ 28,877
Subtotal	\$ 120,850	\$ 783,419	\$ 163,398	\$ -	\$ 1,067,667
State Fiscal Year Expenses					
FY18 Personnel Services	\$ (62,342)	\$ -	\$ -	\$ -	\$ (62,342)
FY18 Fringe	\$ (29,933)	\$ -	\$ -	\$ -	\$ (29,933)
FY18 PSD Expenditures	\$ -	\$ -	\$ -	\$ (3,327,400)	\$ (3,327,400)
FY18 DNR Transfers	\$ (9,798)	\$ -	\$ -	\$ -	\$ (9,798)
FY18 ITSD Transfers	\$ (8,340)	\$ -	\$ -	\$ -	\$ (8,340)
FY18 HB 13 Transfers	\$ (249)	\$ -	\$ -	\$ -	\$ (249)
	\$ (110,662)	\$ -	\$ -	\$ (3,327,400)	\$ (3,438,062)
Subtotal	\$ 10,188	\$ 783,419	\$ 163,398	\$ (3,327,400)	\$ (2,370,395)



Water Protection Program - Financial Assistance Center

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