

**Commonwealth of Virginia
Drinking Water State Revolving Fund Program
Intended Use Plan
For the DWSRF FY2018 Capitalization Grant**

DRAFT
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I. Summary

In accordance with the federal Safe Drinking Water Act Amendments (SDWA) of 1996 (P.L.104 - 182), which established a Drinking Water State Revolving Fund (DWSRF) Program to eligible states through a capitalization grant, the Virginia Department of Health (VDH) Office of Drinking Water (ODW) is making application for federal funding under this program. This funding application is made in accordance with and under the agreements established in the Operating Agreement executed between the EPA and the Commonwealth of Virginia that provides the framework for the DWSRF Program in Virginia. The Commonwealth of Virginia expects to have a total of approximately \$25 million available for utilization under the FY 2018 DWSRF grant program.

II. Introduction

The VDH has primary enforcement responsibility (primacy) for the Virginia's drinking water programs, and as such, is the designated agency to apply for and administer the capitalization grant for the DWSRF Program and related state funds.

This Draft Intended Use Plan (IUP) includes the Project Priority List and the Comprehensive Project List and the Construction Project Equivalency List. The most current version of the *Virginia Drinking Water State Revolving Fund Program - Program Design Manual*, (available upon request) is part of the IUP and outlines the Program's overall goals, the set-aside and construction aspects of the Program, entities eligible for funding, interest rates and terms, and criteria used to establish a Project Priority List.

In compliance with the requirement in SDWA sec. 1452(b)(1), the IUP undergoes public review and comment through a combination of mailings, internet postings, and a public meeting that is held in Richmond, Virginia. The IUP cover letter and announcement is also placed in the General Notices section of the Virginia Register.

III. DWSRF Program Goals

VDH is committed to using the capitalization grant for which it is applying to provide assistance to water systems through set-asides and for capital improvement projects that will further the public health protection objectives of the Safe Drinking Water Act. VDH intends to award all assistance available under this capitalization grant in full conformance with the DWSRF program and the terms and conditions of the capitalization grant award.

The Virginia DWSRF Program activity incorporates the federal, state match, program revenue and repayments, and miscellaneous additional funds to implement the statewide programs to ensure adequate and safe drinking water to citizens. The construction loan and grant funds, in conjunction with the set-aside funds, provide funding sources for infrastructure projects, planning projects, sample testing, capacity development initiatives, state administrative costs, training, technical assistance, wellhead and source water protection, and other activities designed to enhance the state's water programs.

The Project Priority List (PPL) (Attachment 1) details the construction projects being funded, in priority order, and other relevant project information. The Comprehensive Project List (Attachment 1) details all eligible projects submitted during this state application process, and provides additional projects to be funded in priority order, should funding become available.

The set-aside funds are used to maintain and advance waterworks support initiatives that contribute to the sustainability of safe drinking water. The set-aside funds are made available to assist waterworks owners in protecting water supplies, ensuring the reliable operation of water systems, preparing for future waterworks challenges, and developing their technical, financial, and managerial capacity (TMF - Capacity Development). Although the waterworks and their consumers are the direct benefactors of these funding efforts, the initiatives may originate with any number of concerned parties and may be used in cooperative efforts with other entities to maximize the outcome. The set-aside uses are outlined later in this document.

A. Long Term and Short Term Goals

VDH is committed to promoting and protecting the health of Virginians. That mission is supported by a number of critical functions including activities implemented by the ODW. ODW supports the mission through regulatory, technical, and financial programs designed to enhance the quality of water provided to the citizens of the Commonwealth. The DWSRF program provides VDH with the means to achieve these goals.

VDH has a goal to utilize the DWSRF resources to implement a long-term, sustainable program focused on providing technical, financial, and managerial resources to waterworks owners. VDH accomplishes this through an integrated assistance program to provide technical and financial resources targeted to waterworks that exhibit a specific need for assistance. VDH established the following priorities for the DWSRF program:

Long Term

- Protect the public health and welfare by supporting activities that ensure adequate water quantity and quality are provided to users of waterworks.
- Ensure the sustainability of the DWSRF program and related funding to benefit Virginians over the greatest number of years.
- Assist waterworks owners in complying with federal and state mandated drinking water regulations through programmatic, technical, and construction assistance.
- Assist waterworks owners to develop long term strategies for sustainable infrastructure (managerial, technical, and financial capability) to provide safe drinking water.
- Assist waterworks owners in the protection of their source waters by supporting source water protection programs.
- Make technical and financial assistance available to waterworks owners and consumers through effective outreach programs.

Short Term

- Allocate DWSRF Program funds efficiently so Virginians may realize a prompt benefit.
- Assist waterworks owners through innovative and effective technical assistance programs.
- Promote consolidation and regionalization of water supplies and waterworks through both programmatic and construction assistance.
- Provide a source of low cost financing for drinking water needs.
- Require that all new Community and Nontransient Noncommunity water systems beginning operation after October 1, 1999, demonstrate the technical, financial, and managerial capacity required to operate a waterworks.
- Ensure that state operator certification regulations meeting EPA national requirements are applied and ensure that training courses are provided that meet the needs of the lower classifications of licensed operators at the smaller waterworks.

- Demonstrate compliance with the capacity development authority, capacity development strategy and operator certification program provisions in order to avoid withholdings.
- Apply for the full amount of the DWSRF Grant in the first year of Congressional appropriation.
- Maintain unliquidated obligations (ULOs) at or below the national average of 10%. The ULO is the unexpended balance remaining from the amount of federal funds EPA obligated to an individual state/recipient which has not yet been “drawn down”.
- Maintain program pace at or above the national average of 89%. Program pace is a ratio of the dollar value of closed loans/binding commitments to the total dollars available for projects in the Fund. VDH will use 89% for a pace target for this fiscal year.
- Enter into binding commitments for projects which will proceed to construction or award of construction contracts within twelve months of initial offers of assistance.

IV. Program Implementation

The DWSRF Program is managed to maximize benefits available to waterworks owners and Virginians. VDH frequently reviews the Program effectiveness and makes necessary revisions to ensure continued financial sustainability, integration with the Public Water System Supervision Program (PWSS), and success operation.

A. Important Program Changes

VDH is noting the following important changes that have or will be implemented in the Program:

For simplicity the upper target rate tier of 1.25% of MHI has been eliminated. Henceforth VDH will use only the 1% of MHI as a determinant for target rates. Disadvantaged criteria has been modified as follows: Disadvantaged waterworks are those who meet the following criteria: Currently have or will have after project completion user rates that meet or exceed the target rate.

B. Coordination with Enforcement

VDH coordinates efforts between the Capacity Development Program, the Financial and Construction Assistance Program (FCAP), the ODW Field Office staff and the ODW Enforcement section utilizing EPA’s Enforcement Targeting Tool (ETT) to identify noncompliant waterworks with health-based violations. Owners with violations for monitoring, operator certification, or other non-construction related issues are typically not included. These waterworks are directly notified by letter of available DWSRF opportunities approximately one month before the application deadlines and encouraged to apply. Additional points are awarded for those owners that apply for construction funds that will resolve ETT related issues. Projects with higher ETT scores get higher priority.

C. Demonstration Project for the Commonwealth of Virginia

The SDWA authorizes Virginia to establish a special demonstration project to loan funds to a regional endowment for “...financing new drinking water facilities...” in an area of Southwest Virginia encompassing Planning Districts 1 and 2. This endowment was established to assist in meeting the special needs of Southwest Virginia. In the funding years 1997 through 2000, VDH elected to provide a total of \$10 million from its capitalization grants as loans to the endowment. That goal has been reached and no additional funding is provided.

D. Financial Health

The financial health of the program is reflected in both the active non-construction activities and in funding opportunities. Both areas are integrated and affect the other's success, i.e. activities promoting or enhancing delivery of a safe drinking water reduce the demand on the loan area by ensuring the long-term wellbeing of the waterworks. The DWSRF (the Fund) will be maintained in perpetuity for providing financial assistance as authorized and limited by the SDWA. The Fund includes state match, interest earnings, Federal grant dollars, and repayments of principal and interest on loans received.

E. Program Coordination

By coordinating the two areas of non-construction and project loans, the overall long-term financial health of the program will be maintained for the maximum benefit of Virginians. This coordination will be done by the strategic coupling of programmatic considerations with the results of a planning model that examines the aggregate effects of altering financial parameters of the program. Procedures will be revised or implemented, as needed, based on the results of the annual assessment.

F. Disadvantaged Program

In the Disadvantaged Program as described in VDH's *Program Design Manual*, loan subsidies (in the form of below market rate loans and principal forgiveness loans) will decrease the loan funds available; however, principal forgiveness coupled with a waterworks business operations plan and a requirement to implement rate adjustments will reduce the demand on the principal forgiveness/grant funds by ensuring the long term financial well-being of the waterworks. The waterworks business operations plan is used by VDH to ensure a new (or struggling) owner has the managerial, technical, and financial capacity to provide for the long-term operation of the waterworks. These initiatives allow waterworks to undertake projects they could not otherwise construct and, therefore, protect the public health. This strategy is one of the strong themes encouraged by Congress.

G. Coalfield Water Development Fund (CWDF) Program

A unique feature of the Virginia DWSRF Program is the federal statutory language allowing a pilot demonstration project in Southwest Virginia. The Commonwealth has made loans to a regional endowment, and such loans will be repaid with terms and conditions in the same manner as all other project loans. These loan funds are invested and investment proceeds are used to assist communities in Southwest Virginia in correcting water problems.

V. Sources and Uses of Funds

VDH is applying for a DWSRF capitalization grant in the amount of approximately \$14,000,000. VDH is anticipating that this is the approximate amount that Virginia is eligible to receive under the DWSRF FY2018 appropriation. The final funding amount will be determined by Federal Appropriation.

A. Sources of Funds

Virginia expects to have approximately \$25 million available for utilization under this program. This total includes approximately \$8 million in repayment funds and \$3 million in the required 20% state match.

Virginia's required 20% state match for the capitalization grant is deposited into a dedicated state loan fund, the *Virginia Water Supply Revolving Fund* (§62.1-233 et seq.), established under the *Code of Virginia*. Also specified in the *Code of Virginia*, and in conjunction a VDH Memorandum of

Understanding, are roles and responsibilities for the Virginia Resources Authority (VRA) pertaining to individual construction loans and processes.

EPA allows for states to charge a reasonable fee to administer the DWSRF Program. VDH reserves the right to apply a \$6,000 loan closing fee on select projects that can be added to the principal of the loan. Part of the interest on a loan (from zero to 1.5%) may be designated by VDH as an administration fee and used by VDH for the administration of the program. Except for the origination and admin fee all other repayments funds will be returned to the Fund for use on future construction or refinance projects. Fees collected are deposited in separate, non-project accounts and are used only for administration of the DWSRF Program.

B. Construction Projects

VDH intends to provide approximately \$22 million in DWSRF construction funds (from the cap grant, state match, and repaid interest and principal – see Attachment 4). The PPL (Attachment 1) identifies the VDH construction projects to receive dollars for funding in priority order (VDH has offered funding to Projects 1 through 47), with funding breakdowns and other relevant project information. The \$22 million in funding currently represents priority projects 1 through 47. The current PPL reflects \$73 million in funding assistance offered; however, this total will be adjusted by VDH based on EPA funding, applicant responses, project readiness in accordance with DWSRF criteria, changes in project scope, and/or actual construction bid results. VDH will utilize available SRF funds from prior year grant awards, repayment funds, make phased awards should any additional funds be required. The Comprehensive Project List (Attachment 1-Projects 1 through 47) represents approximately \$73 million in total funding requested and details all projects submitted during this state application process and the current status of the project.

The EPA established certain requirements and goals for use of the DWSRF funds for water infrastructure construction. The VDH has captured the funds provided in support of these requirements and goals in Attachment 2.

1. Loan Terms and Fees

Under the DWSRF Program, the repayment period for loans is 20 years at an interest rate equal to one percent below the prevailing “AA” market rate at loan closing. Recent loan closings have been between 1.5% and 3.0% interest.

Principal forgiveness, lower interest rates, and 30-year term loans may also be provided for those recipients whose projects qualify as “disadvantaged”. See the DWSRF Program Design Manual for details and the proposed changes above.

2. Additional Subsidization

The DWSRF requires that no less than 20% of the cap grant amount and no more than an optional additional 30% of the cap grant amount be provided in the form of additional subsidies. These may be negative interest rates, principal forgiveness, grants, or any combination of these. The VDH does not intend to provide any funding as negative interest rates or grants; however, principal forgiveness will be provided for eligible projects. The fundable range of the PPL demonstrates the percent of the capitalization grant that will be provided via principal forgiveness loans. Any subsequent revision to this PPL will likewise demonstrate that between 20% and 50% of the capitalization grant will be provided via principal forgiveness loans.

3. Green Infrastructure

Currently funds provided under the DWSRF for water efficiency, energy efficiency, green infrastructure, or other environmentally innovative activities are optional. VDH's attempts to meet EPA's goal of 20% is reflected in Attachment 2.

4. Assistance to Small Communities

All states are required to provide, to the extent possible, a minimum of fifteen percent (15%) of funds available annually for loans to small systems. Small systems are those that serve fewer than 10,000 persons. Based on the projects in the fundable range of the PPL, VDH should be able to provide approximately 85% of the funds available to small systems (see Attachment 2).

5. Emergency Projects

One or more projects identified in this IUP may be bypassed to provide funding for an emergency project where an imminent and severe public health or water quality problem exists, that requires the immediate construction of facilities to eliminate an existing potentially hazardous condition. Emergency projects are described in the DWSRF Program Design Manual. A project not on the current PPL may be funded only if it meets the emergency criteria. Emergency projects are expected meet requirements for technical, financial, and managerial capacity, environmental review, and other cross-cutting Federal authorities as applicable prior to funds being disbursed.

6. Project Requirements

All projects are expected meet requirements for adequate technical, financial, and managerial (T, M, F) capacity, federal cross-cutting authorities, Davis-Bacon Wage Act, American Iron and Steel provisions, DWSRF program requirements, environmental and other reviews prior to funds being disbursed. VDH reviews each project to ensure requirements are met.

7. Project By-passes

In order to meet the established goals, conditions, and requirements of the DWSRF capitalization grant, VDH reserves the right to bypass higher ranked projects identified in the PPL. Projects may be by-passed in accordance with the DWSRF Program Design Manual and in compliance with EPA requirements due to the owner's inability to meet Program requirements in a timely manner. Any project previously identified on an IUP that is bypassed will be given consideration for future SRF loan funding.

8. Revisions to the Project Priority List

During any subsequent revisions to the PPL VDH will attempt to meet all EPA requirements including overall grant award conditions.

C. SET-ASIDES:

The set-asides are four categories of non-project funds that are "set side" and used for specified purposes up to a maximum amount allowable by federal statute. VDH determines the level of set aside funding each based on the activities and projects proposed by VDH staff, waterworks owners, and public input under each funding year. Attachment 3 to this IUP lists the suggested uses of set-aside funds proposed during the solicitation or public input phase of IUP development. An overview of major funding initiatives for the set-aside funds is given below. VDH reserves the right to utilize any unrequested available funds out of the 4, 2, and 10 percent set-asides in future years if needed.

1. Administration and Technical Assistance:

The entire 4% available and allowed for the current year will be requested.

a. Administration – These funds will support the administrative functions of the DWSRF Program, including the DWSRF Project Officer, the Financial and Construction Assistance Program (FCAP) Division Director, DWSRF Fiscal Accountant position, and the DWSRF Project Supervisor. Other administrative costs pertain to the review of applications and selected projects, application workshops, environmental reviews, analysis of applicants' ability to repay loans, and VDH travel to meetings sponsored by EPA, CIFA, and others.

From this grant set aside, VDH funds a portion of the Virginia Resources Authority (VRA) for credit analysis summaries for each project, project loan closings, funding disbursements, accounting tasks, compliance review of closed loans, and annual audit of the construction loan fund. VDH intends to fund any additional costs from through the use of administration fees charged to DWSRF loan recipients.

Funds are also provided for legal assistance in contract renewals/commitments, proportional lease payments, insurance costs, and audit services.

b. Technical Assistance – No activity.

2. Small System Technical Assistance:

Virginia will request the full 2% available and allowed of the Small System Technical Assistance funding.

- a. Funding is provided to support six part-time data entry positions and three inspector positions to cover transient non-community waterworks.
- b. Funding is provided for routine travel and for lab equipment and supplies for training classes.

3. State Program Management:

Virginia will request the entire 10% available and allowed set-aside funding for the current year.

a. Public Water System Supervision

- Fund four Project Engineers to facilitate technical and administrative project reviews.
- Fund one part-time Engineering Consultant in the Central Office as a policy analyst and advisor to the Director on matters pertaining to field office management, liaison actions with other state agencies, and EPA.
- Fund the Employee Training and Development Coordinator to facilitate technical and administrative training, and address continuity development.
- Fund six Environmental Inspector positions.
- Fund one paralegal position to assist in preparing and processing enforcement actions and monitor compliance for enforcement targeting tool (ETT) and violations reporting.
- Fund the HR/Personnel Analyst to address ODW hiring, retention, continuity planning, and supervisory development.
- Fund the Database Administrator and database development/maintenance.
- Fund the SDWIS development, upgrades, and transition to cloud computing.
- Funding the Special Projects Engineer (at 70%).

- Fund Training and Development Coordinator Senior to conduct training events for employees and waterworks staff
 - Fund Statistical Analyst supporting State Environmental Review Program, Source Water Protection Program and other ODW program support functions.
 - Fund the SRF Accountant Senior position.
 - Continue funding for technical training, web casts, travel, conferences, on-line training, and meetings for ODW staff.
 - Continue vehicle maintenance for field work.
 - Continue funding for replacement copy machines, fax machines, printers, GPS systems, cell phones, pressure recorders, test gauges, and colorimeters.
 - Continue lease payments for central and field offices.
- b. Source Water, Capacity Development, and Operator Programs
- Activities funded under 15% set-aside.

4. Local Assistance and other State Programs:

Virginia is requesting all of the 15% of the available and allowed Local Assistance and other State Program funds, with no more than 10% in a category. Initiatives funded upon prior year grants, as well as newly-established initiatives, will continue in this grant performance period.

- a. Loan for Land and Protection Measures – No new money is added this year.
- b. Assistance Under Capacity Development:
- Funding the Capacity Development Manager, three Sustainability Coordinators, and one part-time position to develop and oversee all capacity development programs, data collection, and reporting. Expenditures also include travel related to program development, workshops, conferences, and data collection.
 - Funding the Training and Development Manager and the Security Officer.
 - Funding the Special Projects Engineer (at 30%) and fund the Office Specialist (wage position) for tasks related to source water and well head protection.
 - Funding the Environmental Review Technician, for conducting environmental reviews related to the State Environmental Review Program and reviews of federal and state environmental impacts related to SRF construction funded projects.
 - Partial funding of the Office of Drinking Water Director and Deputy Director positions based on hourly tracking of time spent with Capacity Development/Source Water Protection issues.
 - Funding 50% Environmental Health Specialist (GIS) position for working related to Source Water Protection and Capacity Development implementation.
 - Technical Assistance – continuation of funds for capacity development and project planning grants, to include both construction and non-construction planning. Non-construction planning grants are; as examples: Rate and Financial Studies, Asset Management, Climate Change Mitigation, and Sustainability/Reliability Studies.
 - Technical Assistance - Engineering Services Contract(s). VDH has entered into contracts for engineering services through consulting engineering firm(s) to provide small scope (less than \$10,000 each) project engineering directly to small water systems that do not have the financial, technical and or managerial capacity to retain an engineer. These projects shall address compliance and/or capacity issues of small public community systems serving less than 10,000 persons. (approx. \$150,000).

- Receivership Program – no funding is requested.
- Direct Technical Assistance - Training to Waterworks:
 - “*Management, Methods and Money, Understanding Concepts in Capacity Development*” provides waterworks decision-makers with the basics of operating a sustainable waterworks.
 - “*Establishing a Successful and Sustainable Waterworks: Revenues, Rates, and Funding Short Course*” will assist in full-cost pricing, staffing, and business plan development. “*Distribution System Operators*” Course provides operators with a week-long course devoted to all aspects of effective operation and maintenance of distribution systems.
 - “*Hands-on Training at a Full Scale Water Plant*” at a full-scale water plant to provide activities related to the full-scale, conventional plant and operator water quality control.
 - “*Contaminants of Concern*” provides operators and waterworks decision makers with information regarding identification and treatment of new emerging contaminants.
 - “*Year 4*” Short School provides funds for Virginia Tech to introduce a new added year of training to its Water Operator Short School. Year 4 will focus on advanced treatment techniques and supervisory “soft skills”; needed to make the transition from operator to supervisory functions. Distance learning website funding to support the Mountain Empire Community College program.
 - *Small System Applied Math*.
 - Provide specialty seminars and training events for waterworks owners/operators on various topics. Virginia Tech was awarded contracts to conduct training and to provide scholarships to training courses for disadvantaged operators/owners.
- Funds are also provided for legal assistance in contract renewals/commitments, proportional lease payments, insurance costs, and audit services.
- Travel costs for Capacity Development Staff and other ODW staff instructors
- Travel costs associated with the training events conducted for waterworks.
- Virginia Tech’s Water Operators Short School Instructors travel *costs*

c. Delineate Source Water Areas

- No activity funded under this category.

d. Wellhead Protection

- Funding for additional staff time directed toward wellhead protection activities by positions funded by other set-asides.
- GIS Source Water Assessment maintenance.
- Funds for use in supplementing existing state efforts to further protect source water.
- Contractual – contracts have been issued to CHA, Golder Associates and TetraTech to continue the Source Water Protection Program services that were provided under a single previous contract.

V. Public Review and Comment

In compliance with the requirement in SDWA sec. 1452(b)(1) to provide for public review and comment, the IUP undergoes public comment via mailings, internet, and a public meeting. The IUP cover letter is also placed in the General Notices section of the Virginia Register. VDH will consider all meaningful public input and comments and make revisions to the IUP and project priority lists if necessary.

The VDH posted this Intended Use Plan under the Financial & Construction Assistance Programs at <http://www.vdh.virginia.gov/drinking-water/> for a 60 day public comment period beginning July 10, 2017. The VDH also provided notice by email of the availability of the IUP to all organizations and individuals on its distribution list.

The VDH will hold a public meeting to solicit comments and recommendations regarding this IUP on Thursday, July 27, 2017 at the VDH's Office of Drinking Water, 6th floor library, 109 Governor Street, VA 23219. September 10, 2017 is the close of the public comment period.

Attachment 1

Project Priority List/Comprehensive Project List

(Also available at <http://www.vdh.virginia.gov/drinking-water/>)

Attachment 1

| Priority | City / County | Owner Information | Project Name | Project Description | Service Population | Point Total | Designation | Program Type Code | Principal Forgiveness | Project Cost | SRF Amount for this IUP | Cumulative SRF Amount | Notes |
|----------|---------------|----------------------------|--|---|--------------------|-------------|-------------|-------------------|-----------------------|--------------|-------------------------|-----------------------|-------|
| 1 | Amherst | Amherst, Town of | WTP Sedimentation Basins improvement | The project will provide for a mid-point chlorination system in the sedimentation basins and sludge removal equipment in the sedimentation basins. | 2470 | 49 | H:C | VWSRF | \$150,000 | \$150,000 | \$150,000 | \$ 150,000 | 1 |
| 2 | Dinwiddie | Azzie Manor Home | Azzie Manor Uranium/Radon compliance | A PER to evaluate alternatives, design of selected alternative, and construction of alternative to resolve compliance issue. | 36 | 45 | H:P | SRF | \$0 | \$150,000 | \$0 | \$ 150,000 | 1 |
| 3 | Charlotte | Phenix, Town of | Water System Improvements | Replacement/installation of 20,000 LF of new 6 and 8 inch water lines throughout the water distribution system, and the construction of a new 5,000 hydro pneumatic water tank. | 260 | 55 | H:P | VWSRF | \$158,000 | \$1,668,000 | \$ 1,668,000 | \$ 1,818,000 | 1 |
| 4 | Smyth | Thomas Bridge Water Corp | Water System Improvements | The project construction includes 8,130 ft. of 6", 380 ft. of 4" and 380 ft. of 2 inch water lines and appurtenances; a booster pump station; a new 250,000 gallon water storage tank with 2,750 ft. of 8 inch water line and | 3,749 | 39 | H:P | VWSRF | \$406,000 | \$1,563,000 | \$ 1,563,000 | \$ 3,381,000 | 1 |
| 5 | Wise | City of Norton | Josephine WL Replacement - PH I | Replacement of approximately 1,300 lf of 2 inch waterline with 6 inch waterline; replacement of approximately 1,220 lf of 2 inch waterline with 2 inch waterline; replacement of approximately 340 lf of 3/4 inch service | 40 | 48 | H:P | VWSRF | \$114,459 | \$114,459 | \$ 114,459 | \$ 3,495,459 | 1 |
| 6 | Wise | City of Norton | Clear Creek WL Replacement - PH I | Replacement of approximately 1,550 lf of 4 inch waterline with 6 inch waterline; replacement of approximately 350 lf of 3/4 inch service line; reconnect 17 residential connections; installation of one (1) fire hydrant | 38 | 48 | H:P | VWSRF | \$102,990 | \$102,990 | \$ 102,990 | \$ 3,598,449 | 1 |
| 7 | Lee | Dryden Water Authority | Bill Jessee Road WL Replacement - PH I | Replacement of approximately 1,200 LF of 4 and 6 inch waterline, replacement of approximately 30 LF of 3/4 inch service line, reconnect 1 residential connection, provide water service to approximately 15 | 37 | 36 | H:P | VWSRF | \$101,021 | \$101,021 | \$ 101,021 | \$ 3,699,470 | 1 |
| 8 | Lee | Dryden Water Authority | Wolfe Gilbert Road WL Replacement - | Replacement/extension of approximately 440 LF of 6 inch waterline and 450 LF of 2 inch waterline; replacement of approximately 650 LF of 3/4 inch service line; reconnect 6 residential connections; installation of one | 15 | 35 | H:P | VWSRF | \$95,760 | \$95,760 | \$ 95,760 | \$ 3,795,230 | 1 |
| 9 | Wise | Appalachia, Town of, | Water Meter Replacement -Phase 1 | Replacing 250 3/4 inch meters, twenty (20) 1 inch, five (5) 2 inch, one (1) 3 inch, three (3) 4 inch, three (3) 6 inch, two (2) 8 inch and one (1) zone meter plus appurtenances. | 563 | 53 | H:P | VWSRF | \$173,894 | \$173,894 | \$ 173,894 | \$ 3,969,124 | 1 |
| 10 | Smyth | Saltville, Town of | System Improvements - PH I | A radio-read metering system including 1,020 3/4" service meters; thirty-two (32) 2" service meters; radio-read equipment and software; 30,600 LF of 3/4" service line; 700 LF of 2" service line; 700 LF of 2" water main; one | 2,407 | 51 | H:P | VWSRF | \$247,000 | \$1,644,656 | \$ 1,644,656 | \$ 5,613,780 | 1 |
| 11 | Wise | Big Stone Gap, Town of | Shelby Ave WL Replacement - PH I | Replacement of approximately 1,100 lf of 2 inch waterline with 6 inch waterline; replacement of approximately 200 lf of 3/4 inch service line; reconnect 8 residential connections; installation of one (1) fire hydrant | 19 | 34 | H:P | VWSRF | \$100,143 | \$100,143 | \$ 100,143 | \$ 5,713,923 | 1 |
| 12 | Wise | Big Stone Gap, Town of | Fishers Rd WL Replacement - PH I | Replacement of approximately 1,250 lf of 4 inch waterline with 6 inch waterline; replacement of approximately 200 lf of 3/4 inch service line; reconnect 6 residential connections; installation of one (1) fire hydrant | 14 | 34 | H:P | VWSRF | \$100,710 | \$100,710 | \$ 100,710 | \$ 5,814,633 | 1 |
| 13 | Montgomery | NRV Regional Water Author | WTP Modernization | Installation of four 4.0 MGD vertical turbine pumps and a new wet well; dosing equipment and chemical storage for permanganate and PAC; construction of six flocculator basins; installation of plate settlers near the | 54,388 | 32 | H:P | VWSRF | \$0 | \$27,760,000 | \$ 27,760,000 | \$ 33,574,633 | 1 |
| 14 | Montgomery | New River Water | Water Improvements | Replace the treatment systems and tanks at the three locations (Dry Valley, Walton Farms and Twin Boulders) with a similar design to include a new well pump building with all new piping, new well pump, new | 273 | 27 | H:P | VWSRF | \$186,000 | \$792,000 | \$ - | \$ 33,574,633 | 1 |
| 15 | Smyth | Marion, Town of, | WL Replacement PH III | Design and construction of water line replacement which includes 9,310 feet of 6", 810 feet of 8" water line and appurtenances on the following Terrace Street, Catron Street, Broad Street, Cherry Street, Clark Street | 0 | 48 | H:P | VWSRF | \$108,000 | \$657,000 | \$ - | \$ 33,574,633 | 1 |
| 16 | Smyth | Marion, Town of, | WL Replacement PH IV | Design and construction of water line replacement including 4,065 feet of 6", 10" and 3,810 feet of 2 inch water line and appurtenances for the following Copenhaver Street, Cemetery Street, Culbert Drive, Greer | 0 | 48 | H:P | VWSRF | \$119,000 | \$719,000 | \$ - | \$ 33,574,633 | 1 |
| 17 | Smyth | Rye Valley Water Authority | Dickeys Creek WL Replacement | Construction of approximately 3,500 LF of 6" water line, relocation/reconnection of 13 +/- existing service meters, and replacement of approximately 2,900 LF of 2" and 1" mains that will create a loop within | 28 | 42 | H:P | VWSRF | \$100,000 | \$100,000 | \$ - | \$ 33,574,633 | 1 |
| 18 | Pittsylvania | City of Danville | WTP Improvements | Installation of solids removal equipment in three of four existing sedimentation basins and concrete repair to the basins as well as the associated flocculation basins and filters. | 42,082 | 40 | H:P | VWSRF | \$270,000 | \$2,000,000 | \$ - | \$ 33,574,633 | 1 |
| 19 | Lee | Lee Co PSA | Blue Springs Water Treatment Plant Improvements - PH I | Installation of a computer work station, software, PLC master control panel, UPS back-up system, turbidimeters, flow meters and pneumatic valve actuators. | 8,728 | 39 | H:P | VWSRF | \$144,000 | \$144,000 | \$ - | \$ 33,574,633 | 1 |
| 20 | Loudoun | Hillsboro, Town of, | Safe Water Project | The project includes 2,100 LF of 3 inch PVC or HDPE pipe in the roadway with pavement restoration over the trench only; 11 service lines, meter boxes, and 5/8 inch meters; 11 3/4 inch hose bib vacuum breakers; one | 115 | 25 | H:P | VWSRF | \$213,000 | \$927,000 | \$ - | \$ 33,574,633 | 1 |
| 21 | Pulaski | Pulaski County PSA | Raw Water Intake | Extend each of the existing 24 inch diameter intake pipes approximately 30-40 feet further out of the cove, and install screens on the ends of each pipe along with an air-burst system to help clean the screens. No | 10,483 | 25 | H:P | VWSRF | \$208,000 | \$923,000 | \$ - | \$ 33,574,633 | 1 |
| 22 | Tazewell | Tazewell Co PSA | Capital Improvements Plan - PH 1 | Rehabilitation of eight pump stations, replacement of approximately 350 service meters, upgrade of office billing and computer software, and the replacement of approximately 4,571 LF of water line. | 16,195 | 31 | H:P | VWSRF | \$394,000 | \$3,428,870 | \$ - | \$ 33,574,633 | 1 |
| 23 | Lee | Woodway Water Authority | State Route 641 WL Rreplacement - P | Replacement of approximately 1,100 lf of 2 inch waterline with 6 inch waterline; replacement of approximately 150 lf of 3/4 inch service line; reconnect 6 residential connections; installation of two (2) fire hydrant | 14 | 37 | H:P | VWSRF | \$102,915 | \$102,915 | \$ - | \$ 33,574,633 | 1 |
| 24 | Lee | Woodway Water Authority | State Route 932 WL Replacement - PH | Replacement of approximately 1,250 LF of 4" and 2" waterline with 6" and 4" waterline; replacement of approximately 100 lf of 3/4 inch service line; reconnect 5 residential connections; installation of one (1) fire hydrant | 12 | 37 | H:P | VWSRF | \$101,025 | \$101,025 | \$ - | \$ 33,574,633 | 1 |
| 25 | Wise | Coeburn, Town of | Town-wide Water Meter Replacement | Replace approximately 488 of the town's residential 3/4 inch meters. | 1,181 | 45 | H:P | VWSRF | \$150,078 | \$150,078 | \$ - | \$ 33,574,633 | 1 |

2018 PROJECT PRIORITY LIST (Projects 1 through 47)
2018 COMPREHENSIVE PROJECT LIST (Projects 1 through 47)

| Priority | City / County | Owner Information | Project Name | Project Description | Service Population | Point Total | Designation | Program Type Code | Principal Forgiveness | Project Cost | SRF Amount for this IUP | Cumulative SRF Amount | Notes |
|----------|------------------|---------------------------------|--|---|--------------------|-------------|-------------|-------------------|-----------------------|--------------|-------------------------|-----------------------|-------|
| 26 | Henry | Henry County PSA | Fieldale Lead Service Line Replacement | Replacement of approximately 3,500 LF of existing lead jointed cast iron and galvanized steel water mains with new 6" line and replacement of existing lead and/or galvanized steel service lines with new 3/4" HDPE | 142 | 35 | H:P | WSAG | \$500,000 | \$500,000 | \$ - | \$ 33,574,633 | 1 |
| 27 | Tappahannock | Essex MHP, General Partner | Essex Mobile Home Park WL Ext. | Extension of existing water mains from the adjacent Town of Tappahannock water system including a distribution system plan as well as specifications for installing individual meters to the existing site and | 130 | 37 | H:P | VWSRF | \$278,000 | \$278,000 | \$ - | \$ 33,574,633 | 1 |
| 28 | Lee | Lee Co PSA | Frog Level Community Water - PH II | Approximately 12,300 lf of 8 inch waterline; approximately 7,845 lf of 6 inch waterline; approximately 2,300 lf of 3/4 inch service line; providing water service to approximately 53 residential connections; 75,000 gallon | 122 | 37 | H:P | VWSRF | \$308,000 | \$373,680 | \$ - | \$ 33,574,633 | 1 |
| 29 | Russell | Russell Co PSA | Glade Hollow/Glade Hill | Replace the old 2 inch galvanized line with 3,700 LF of 6 inch and 3,150 LF of 8 inch water line, add approximately 3 new residents, extend new service to approximately 20 residents in the Glade Hill Subdivision | 95 | 37 | H:P | VWSRF | \$523,000 | \$941,700 | \$ - | \$ 33,574,633 | 1 |
| 30 | Scott | Scott Co PSA | Robinette Valley/Hunters Valley West | Installation of approximately 2,100 LF of 2" diameter water mains.; 8,200 LF of 6" diameter water mains; 21,500 LF of 8" diameter water mains; and related appurtenances for extending public water service to the residents | 186 | 36 | H:P | VWSRF | \$315,000 | \$1,855,720 | \$ - | \$ 33,574,633 | 1 |
| 31 | Wise | Coeburn, Town of | Star Branch Rd WL Ext | Installation of approximately 909 lf of 4 inch and 300 lf of 2 inch waterline; installation of approximately 200 lf of 3/4 inch service line; installation of seven (7) water service meters; and associated appurtenances. | 16 | 34 | H:P | VWSRF | \$107,888 | \$107,888 | \$ - | \$ 33,574,633 | 1 |
| 32 | Washington | Washington Co Service Authority | Rattle Creek Road WL Ext | Approximately 6,000 LF of 8 inch diameter waterline and related appurtenances, and the installation of fire hydrants. | 27 | 25 | H:P | VWSRF | \$59,000 | \$223,780 | \$ - | \$ 33,574,633 | 1 |
| 33 | City of Richmond | City of Richmond | Lead Service Line Replacement | Replacement of lead service lines downstream (customer side) of the water meter from the main to the meter. The Utility proposes to complete up to 200 main-to-meter-to-house LSL replacements. | 204,214 | 24 | H:P | WSAG | \$0 | \$500,000 | \$ - | \$ 33,574,633 | 1 |
| 34 | Alexandria | VA American Water Co. | Lead Service Line Replacement | Replace the lead service lines in full to include the portion in the public right of way and on to the customers private property. The replacement work will include only the water service line from the water main to the first | 255 | 19 | H:P | WSAG | \$0 | \$425,000 | \$ - | \$ 33,574,633 | 1 |
| 35 | Lee | Pennington Gap, Town of | Town-wide Water Meter Replacement - PH I | Replacing 400 3/4 inch meters, six (6) 1 inch, fifteen (15) 2 inch, one (1) 4 inch, two (2) 6 inch and the High School 6 inch meter and vault. | 874 | 34 | O | VWSRF | \$218,591 | \$218,591 | \$ - | \$ 33,574,633 | 1 |
| 36 | Tazewell | Bluefield, Town of | WTP Upgrade/WL Replacement | WTP upgrade/expansion from 1.5 MGD to 2.0, water line replacement on Rt. 102 which includes 2,100 LF of 8-inch water line, 3 each 8-inch gate valves, 2 each air release valves, 3 each fire hydrants, 100 LF 8-inch water | 5,400 | 28 | O | VWSRF | \$256,000 | \$1,969,674 | \$ - | \$ 33,574,633 | 1 |
| 37 | Montgomery | NRV Regional Water Authority | Plum Creek Transmission Main (Phase 1) | Approximately 9,034 lf of 20 inch ductile iron pipe that connects into the existing main near the Scattergood Pump Station south of the railroad, runs along the perimeter of the Meadows Golf & Country Club to Barringer | 48,655 | 24 | O | VWSRF | \$0 | \$3,031,000 | \$ - | \$ 33,574,633 | 1 |
| 38 | Montgomery | NRV Regional Water Authority | Plum Creek Transmission Main (Phase 2) | Approximately 18,566 lf of 20 inch ductile iron pipe that connects into the existing dual 16 inch transition mains along Prices Fork Road, runs along Vicker's Switch Road, Spaulding Road, connect to the Phase I project | 48,655 | 24 | O | VWSRF | \$0 | \$6,137,000 | \$ - | \$ 33,574,633 | 1 |
| 39 | Wise | Wise County PSA | WCPSA Flocculator Replacement | Replacing three flocculators, replacing 8 slide gates, replacing four 14 inch mud valves, adding two 14 inch mud valves, and installing up to 76 additional ports in each stiling wall. | 10,464 | 22 | O | VWSRF | \$217,000 | \$264,600 | \$ - | \$ 33,574,633 | 1 |
| 40 | Washington | Washington Co Service Authority | Hidden Valley Road WL Ext - PH II | Installation of over 9,000 LF of 4 and 2 inch water line, installation of 2 pump stations, and a 6,000 gallon storage tank. | 62 | 21 | O | VWSRF | \$67,000 | \$253,212 | \$ - | \$ 33,574,633 | 1 |
| 41 | Washington | Washington Co Service Authority | Rich Valley Road WL Ext | Approximately 56,000 LF of 8 inch and 12 inch water line, installation of fire hydrants, and the replacement of smaller and older line along Route 19. | 112 | 19 | O | VWSRF | \$0 | \$3,163,900 | \$ - | \$ 33,574,633 | 1 |
| 42 | Washington | Washington Co Service Authority | Chip Ridge Road WL Ext | Approximately 2,861 LF of 4-inch diameter water line and related appurtenances. | 10 | 19 | O | VWSRF | \$125,000 | \$125,000 | \$ - | \$ 33,574,633 | 1 |
| 43 | Washington | Washington Co Service Authority | Sugar Cove Road WL Ext | Approximately 5,100 LF of 4 and 6 inch diameter waterline and related appurtenances, one (1) fire hydrant on the 6" line, a pump station and hydropneumatic tanks. | 30 | 19 | O | VWSRF | \$118,000 | \$444,840 | \$ - | \$ 33,574,633 | 1 |
| 44 | Wise | Wise Co PSA | Rock Switch Road WL Replacement | Replace a section of the existing 6 inch water line on Rock Switch Road with 700 LF of 8 inch water line and 100 LF of 8 inch water line, railroad and stream crossing and appurtenances which include valves, tees and | 0 | 27 | O | VWSRF | \$137,000 | \$137,000 | \$ - | \$ 33,574,633 | 1 |
| 45 | Northumberland | E. L. Goddard, Inc | Spriggs Landing | Installation of a 5,000 gallon nominal storage tank with two booster pumps, one chlorination feed system and the installation of 18 water meters with all appurtenances. | 22 | 14 | O | VWSRF | \$125,000 | \$125,000 | \$ - | \$ 33,574,633 | 1 |
| 46 | Middlesex | Middlesex Water Authority | Eastern Middlesex County Water System | The project includes two existing ground water wells, two new well pumps, a chlorine feed system, a 100,000 gallon ground storage tank, two booster pumps, a 10,000 gallon hydropneumatic tank, two booster | 1,148 | 12 | O | VWSRF | \$0 | \$8,133,122 | \$ - | \$ 33,574,633 | 1 |
| 47 | Northumberland | E. L. Goddard, Inc | Jettys Reach - PH III | Installation of a 5,000 gallon nominal storage tank with two booster pumps with controls, chlorination feed system to the existing well house, a distribution system plan, and installation of individual meters on the 15 | 26 | 9 | O | VWSRF | \$125,000 | \$125,000 | \$ - | \$ 33,574,633 | 1 |

NOTES:

1. VDH expects to have about \$20,500,000 for SRF project funding. VDH offered funding to projects 1 through 47. Additional projects may be funded in priority order if funds become available.

2. VDH reserves the right to switch funding sources to meet the needs of the SRF Program and EPA grant requirements.

3. All funded projects receiving principal forgiveness shall have the remainder of the project funded with a 30 year 2.5% loan.

4. All core term offer projects shall be funded with a 20 year loan with the rate set at closing (historically between 1.5% and 3% interest).

5. All eligible acute, chronic health/SDWA compliance or public health projects are designated as Health (Designation H).

6. Designation H projects are funded in descending order of acute, chronic health/SDWA compliance and then public health projects.

Designation Codes:

H - Health (A-Acute, C-Chronic, P-Public)

O - Other Eligible Project

I - Incomplete Application

N - Not Eligible, N/A - Not Applicable

Attachment 2

| DWSRF Project Number | CTY/CNTY | OWNER | Project | SRF Funding Amount | GPR | Assistance to Small Systems | SRF Loan Amount | SRF Principal Forgiveness |
|----------------------|--------------|---------------------------|--|---------------------|--------------------|-----------------------------|---------------------|---------------------------|
| 020 | Russell | Russell Co PSA | Glade Hollow/Glade Hill | \$ 941,700 | \$ 483,074 | \$ 941,700 | \$ 418,700 | \$ 523,000 |
| 022 | Henry | Henry County PSA | Fieldale Lead Service Line Replacement | \$ 500,000 | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 028 | Smyth | Thomas Bridge Water Corp | Water System Improvements | \$ 1,563,000 | \$ 549,540 | \$ 1,563,000 | \$ 1,157,000 | \$ 406,000 |
| 024 | Tazewell | Tazewell Co PSA | Capital Improvements Plan - PH 1 | \$ 3,428,870 | \$ - | \$ - | \$ 3,034,870 | \$ 394,000 |
| 026 | Scott | Scott Co PSA | Robinette Valley/Hunters Valley West | \$ 1,855,720 | \$ - | \$ 1,855,720 | \$ 1,540,720 | \$ 315,000 |
| 040 | Lee | Lee Co PSA | Frog Level Community Water - PH II | \$ 373,680 | \$ - | \$ 373,680 | \$ 65,680 | \$ 308,000 |
| 011 | Tappahannoc | Essex MHP, General Partne | Essex Mobile Home Park WL Ext. | \$ 278,000 | \$ 278,000 | \$ 278,000 | \$ - | \$ 278,000 |
| 016 | Pittsylvania | City of Danville | WTP Improvements | \$ 2,000,000 | \$ - | \$ - | \$ 1,730,000 | \$ 270,000 |
| 021 | Middlesex | Wise County PSA | WCPSA Flocculator Replacement | \$ 8,133,122 | \$ - | \$ 8,133,122 | \$ 8,133,122 | \$ - |
| | | | Total ----> | \$19,074,092 | \$1,310,614 | \$13,645,222 | \$16,080,092 | \$2,994,000 |
| | Estimated-> | SRF Cap Grant Amount = | \$ 13,800,000 | 138% | 9% | | | 21.7% |
| | Estimated-> | Total SRF Project Funds = | \$ 20,000,000 | | | 68% | | |

W, E Represents a Water (W) and/or an Energy (E) Efficiency Project.

Attachment 3

DWSRF Set-Aside Suggested Use Schedule

The Virginia Department of Health received these suggestions during the solicitation / public input phase of developing the Intended Use Plan, and considered them in the development of the set-aside portion of the Intended Use Plan.

| Item | Name | Suggested Amount | Activity Description | Funded Yes/No | Amount |
|-------------|-----------------------------------|-------------------------|---|----------------------|------------------|
| 1 | Mountain Empire Community College | \$83,938 | To continue development of the on-line distance learning Water Degree Program which provides training, education and certification for drinking water operators. | Yes | \$83,938 |
| 2 | Virginia Tech | \$516,300 | Continuation of all courses for operators and owners of waterworks that have already been developed and deployed. | Yes | \$516,300 |
| 3 | Virginia Tech | \$73,500 | Continuations of administrative services for ODW through Virginia Tech CPE including ongoing communications to waterworks operators, survey administration, committee meeting organization, creation of marketing materials, and providing documentation. | Yes | \$73,500 |
| | <i>TOTAL</i> | \$673,738 | | | \$673,738 |

Notes:

Items 1 through 3 are continuations of past suggestions.

Attachment 4

FY2018 Intended Use Plan - Funding Summary with Set-Aside

I. SOURCES

| | | |
|---|---------------------|---------------------|
| Federal DWSRF Grant Allocation = | \$14,000,000 | |
| State's General Fund - 20% match required = | <u>\$2,800,000</u> | |
| <i>SUBTOTAL 1</i> | \$16,800,000 | \$16,800,000 |
| Other sources = | | |
| Interest earned (0945) | \$2,470 | |
| Interest earned (VWSRF) | \$119,524 | |
| Repaid principal to 6-30 | \$6,916,822 | |
| Repaid interest to 6-30 | <u>\$1,511,120</u> | |
| | \$8,549,936 | |
| <i>SUBTOTAL 2</i> | | \$8,549,936 |
| <i>Grand Total Funds Available =</i> | | \$25,349,936 |

II. USE for Set-asides

| Category | Maximum % and Name | Percent chosen | Current Grant Amount |
|-----------|--|----------------|----------------------|
| 1 | 2% Small System Technical Assistance | 2.00% | \$ 280,000 |
| 2 | 4% DWSRF Administration and Technical Assistance | 4.00% | \$ 560,000 |
| 3 | 10% State Program Management | 10.00% | \$ 1,400,000 |
| 4 | 15% Local Assistance and other State Programs | 15.00% | \$ 2,100,000 |
| Sub-total | | 29.00% | \$ 4,060,000 |

III

USE for Loan funds

| | | |
|---|--------------------|-------------------------|
| Federal Allocation = | \$14,000,000 | |
| minus set asides | <u>\$4,217,047</u> | |
| Federal loan funds | \$9,782,953 | 69.88% of federal grant |
| plus 20% match required = | <u>\$2,800,000</u> | |
| SUBTOTAL | | \$12,582,953 |
| plus other sources = | \$8,549,936 | |
| SUBTOTAL | | \$21,132,888 |
| TOTAL Amount available | | \$21,132,888 |
| Amount available after subtracting Set-asides = | | \$ 21,132,888 |
| Balance available for individual project loan and subsidies = | | \$ 21,132,888 |