

Water Infrastructure

FINANCING PROGRAMS

Drinking Water State Revolving Fund (DWSRF)

FFY2020 DWSRF Priority List Application

Basic information	
Water System Name: Town of Bristol	WSID Number: 5002
Water System Contact: Valerie Capels Telephone: (802) 453-2410	Title: Town Administrator Email: townadmin@bristolvt.org
Consulting Engineering Firm: Green Mountain Engineering, Inc. Consulting Engineer: Alan Huizenga, P.E. Telephone: (802) 862-5590 Email: ahuizenga@gmeinc.biz	
Estimated total project cost: \$ \$940,000	
Estimated DWSRF estimated loan request: \$ \$715,100	
Basis of estimate: Capital Improvement Plan - August 2014	
Project Title: Pine Street Water Line Replacement	
Project Description: Replacement of approximately 1,200 feet of 4-inch and 6-inch, circa 1905 cast iron main and 270 feet of 2-inch galvanized pipe of unknown age with new 8-inch main, as well as upgrades to all hydrants, services, curb stops, and associated eligible surface improvements.	
Describe any work already done on the project (feasibility studies, preliminary engineering, final design, source exploration): Capital Improvement Plan was completed in 2014 and an Asset Management Plan identifying the project was completed in 2016.	
Has a Preliminary Engineering Report (PER) for the proposed project been submitted to the Vermont Drinking Water and Groundwater Protection Division (DWGWP) for review and approval? Date submitted: projected May 2020 Date approved: TBD	
What is the average annual single-family home water bill (assuming 48,000 gallons/year used)? <i>This figure is used as program information only; it is not used as a basis for determining loan rates/terms.</i> \$360.32 – using the 48,000 gallons/year usage	
Information for preliminary loan rate determination	
What is the total number of residential units served by the water system? 677	
What is the total number of non-residential units served by the water system (annual amount of water used by non-residential connections (commercial, industrial, wholesale) divided by either 76,650 gal or 10,240 ft ³ or 290.15 m ³)? 63 users – 67.73646 annual usage	

Drinking Water State Revolving Fund (DWSRF)

Total estimated annual operations & maintenance budget post project (**does not include debt or reserve payments**): \$ **160,960**

Total water system **annual** debt payment: \$ **89,719**

Does any of this debt retire in the next 5 years? If yes, how much of the annual payment? **18,962**

Total water system annual **dedicated** reserve contribution: \$ **27,500**

Project Selection

Projects are evaluated and scored using the points-based system below and placed on the priority list in rank order. Only projects with a Preliminary Engineering Report submitted to DWGWPD for review and acceptance will be scored and ranked.

PLEASE CHECK ALL THAT APPLY. Points are only awarded for the deficiency corrected which addresses the highest health risk and compliance concern and represents a significant portion of the total project cost. Back-up documentation should be submitted where indicated and may be requested by the program to justify the ranking. All requests are verified against available documents including Permit to Operate, sanitary surveys, etc.

System facility deficiencies

- Microbial Contamination—120 points.** Project will address known microbial contamination by providing adequate treatment or eliminating the source(s) of contamination.
- Inadequate treatment for surface water or GWUDISW source(s)—120 points.** Project will address inadequate treatment systems supplied by surface water sources or sources determined to be groundwater under the direct influence of surface water (GWUDISW).
- Chemical Contaminants above Primary MCL or HAL—100 points.** Project will address water quality for a public water system that exceeds primary maximum contaminant levels (MCLs), Federal Lead and Copper action level, health advisory levels (HALs), established by Vermont Department of Health (DOH), or exceeding interim standards as directed by the Legislature, or water quality that requires treatment as directed by the Secretary.
- Chemical contamination above established action level or DOH and DEC levels of concern for ten chemicals—100 points.** Project will address water quality data obtained from a public water system that exceeds benzene; carbon tetrachloride; vinyl chloride; dibromochloropropane (DBCP); 1,2 dichloroethane; 1,2 dichloropropane; hexachlorobenzene; tetrachloroethylene; pentachlorophenol; and, trichloroethylene or other chemicals when DOH expresses a similar level of concern.

Drinking Water State Revolving Fund (DWSRF)

Inadequate disinfection facilities—100 points. Project will provide 4-log inactivation of viruses for a water system that does not currently have this capability, or it addresses documented inadequacies in disinfection treatment performance.

Lead and Copper control—90 points. Project will address documented water quality and/or infrastructure concerns related to lead and/or copper.

Inadequacy of critical components—80 points. Project will correct a significant deficiency or sanitary defect identified during a sanitary survey or Site Assessment(s). If not previously identified, please provide documentation of inadequacy. Project may include, but not limited to:

- ◆ Source (supply, intake structure, etc.)
- ◆ Treatment
- ◆ Pumping facilities
- ◆ Surface water crossings
- ◆ Storage
- ◆ Stand-by power
- ◆ SCADA
- ◆ Other, please describe

System vulnerable to contamination—70 points. Project will address vulnerabilities documented to exist for a water system including, but not limited to:

- ◆ Storage Tank—for example, inadequate roof, inadequate baffling/circulation
- ◆ Distribution system—for example, inadequate pressure during peak flow conditions (firefighting) or routine operation
- ◆ Source—for example, septic leachfield within 2-year time of travel; vulnerability determination of PFAS
- ◆ Other system vulnerabilities (must provide documentation)

Improvements to and/or redundancy of existing system components—50 points. Project will provide protection of or improvements to existing components, and/or construction of redundant facilities including, but not limited to:

- ◆ Source
- ◆ Treatment
- ◆ Pumping facilities
- ◆ Surface water crossings
- ◆ Storage
- ◆ Stand-by Power
- ◆ SCADA
- ◆ Meters
- ◆ Replacement of aged infrastructure
- ◆ Other, please describe

Inadequate cross-connection control—40 points. Project will correct existing or potential cross-connection problems or to make system improvements under an established cross-connection control plan.

Additive Points (may receive additive points for multiple categories, check all that apply):

Drinking Water State Revolving Fund (DWSRF)

- Project conforms with DWGWPD-approved Asset Management Plan – 50 points.** Water System has a DWGWPD-approved asset management plan (see [Guidance Document #26](#) for plan requirements) and the proposed project is identified in the current plan. *Please submit the “Funding Strategies” section of the current AM Plan as documentation.*
- Project benefits school or person-care facility—20 points.** Project directly benefits a non-profit school or non-profit person-care facility. The school or person-care facility does not necessarily need to be a regulated public water system.
- Permit to Construct—15 points.** A Permit to Construct for the project(s) has been issued by the Drinking DWGWPD before the end of the IUP public comment period.
- Voter Authorization to Incur Debt—15 points.** Project has the necessary voter authorization to incur debt before the end of the IUP public comment period. This does not include governing body authority to secure a planning or final design loan. **Date of voter authorization:** *Click or tap to enter a date.*
- Contamination below MCL or HAL—10 points.** Project will address treatment or elimination of a regulated contaminant present at concentrations below the MCL or HAL.
- Flood vulnerability—10 points.** Project will improve water system infrastructure documented to be vulnerable to adverse effects from floods.
- Meter project—5 points.** Project includes meter distribution and/or service. Meters can be new or replacement. The applicant does not need to install service meters on the entire system.

Signature

As Authorized Representative, I hereby certify that this information is true and correct to the best of my knowledge.



2/24/2020

Signature

Please return this application via email to anr.dwsrfplist@vermont.gov

Last revised 12/18/2019