

MAINE STATE LEGISLATURE

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Janet T. Mills
Governor

Jeanne M. Lambrew, Ph.D.
Commissioner



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July 16, 2021

Senator Ned Claxton, Chair
Representative Michele Meyer, Chair
Members, Joint Standing Committee on Health and Human Services
#100 State House Station
Augusta, ME 04330-0100

Dear Senator Claxton, Representative Meyer, and Members of the Joint Standing Committee on Health and Human Services:

Enclosed you will find the Maine CDC, Drinking Water Program's annual Drinking Water State Revolving Fund (DWSRF) report. This report highlights the water infrastructure projects that were funded by the DWSRF in 2020.

In 2020, DWSRF funding provided over \$22.6 million in loans and grants for construction projects at 14 public water systems serving 32 communities in Maine. Water systems from York County to Aroostook County benefited from the affordable financing available through the DWSRF to improve public health protection in their communities.

Please don't hesitate to contact Maine Drinking Water Program Director, Amy Lachance, at 207-557-2380 should you have any questions or comments on this report. We look forward to continued collaboration with you to help promote safe drinking water in Maine.

Sincerely,

A handwritten signature in blue ink that reads "Jeanne M. Lambrew".

Jeanne M. Lambrew, Ph.D.
Commissioner

JML/klv

Enclosure

DRINKING WATER STATE REVOLVING FUND
WORKING TOGETHER FOR SAFE DRINKING WATER

2020





Dear Reader:

The Drinking Water State Revolving Fund (DWSRF) continues to provide essential funding for drinking water infrastructure improvements in Maine. In 2020, the Maine CDC, Drinking Water Program (DWP) dedicated over \$22.6 million in loans and grants for construction projects at 14 public water systems serving 32 communities in Maine.

Since 1997, the DWSRF has invested more than \$325 million to support the drinking water industry in the continued effort to deliver safe drinking water to people in the State of Maine. These funds have been used to finance:

- Capital Improvement Programs (Infrastructure Projects) for drinking water utilities;
- DWSRF program administration;
- Technical Assistance to small systems throughout the State;
- Source Water Protection activities;
- Technical, Managerial and Financial Capacity Development;
- Emergency Preparedness; and
- Public Outreach and Education.

In 2020, the COVID-19 pandemic brought many new challenges for public drinking water systems in carrying out daily tasks associated with providing safe drinking water. I'm happy to report that most infrastructure improvement projects planned for

2020 were carried out on time and within budget despite the new obstacles. We continue to address concerns about emerging contaminants such as per- and polyfluoroalkyl substances (PFAS) and are beginning to prepare for new requirements under the federal Lead & Copper Rule Revisions (LCRR). Staying ahead of these water quality challenges through updates to testing, treatment technology, and infrastructure is essential to ensure continued delivery of safe drinking water to the public.

Safe, reliable, and affordable drinking water is fundamental to the wellbeing and economic prosperity of communities across the State. DWSRF financing of construction projects provides significant cost savings to water ratepayers, including residential customers, small and large businesses, manufacturing facilities, and government entities. These savings allow ratepayers to invest money in other activities, enabling further growth of the economy.

The success of the DWSRF stems from a wide array of individuals and organizations. The funding support provided through Congress and the Maine Legislature make this affordable financing possible. The staff at the DWP and the Maine Municipal Bond Bank (MMBB) work closely with public water systems, consultants, and contractors. Everyone involved contributes to the overall success of the DWSRF Program. We are grateful for the efforts of all who make this work possible!

On a personal note, I am proud to serve as the new Drinking Water Program Director for my home State of Maine, after many years working in the environmental and public health field in other states. I hope to enable the continued stewardship of Maine's drinking water systems into the future.

Yours for safe drinking water,

Amy Lachance
Director, Maine CDC - Drinking Water Program

3	ABOUT THE DWSRF	9	THE DWP'S DWSRF PROJECT ENGINEERS
4	CONSTRUCTION PROJECTS AT A GLANCE	10	2020 CONSTRUCTION PROJECTS
5	DWSRF PUBLIC CONSTRUCTION FUNDING MAP	15	PROJECTS FROM PRIOR YEARS
6	NON-CONSTRUCTION PROJECTS AT A GLANCE	18	DWSRF PERFORMANCE MEASURES
7	DWSRF PUBLIC NON-CONSTRUCTION FUNDING MAP	19	DWP CORE MESSAGE
8	FY 2022 DWSRF FUNDING GAP	20	2020 DWSRF NON-CONSTRUCTION PROJECTS



The 1996 Amendments to the Safe Drinking Water Act (SDWA) included allocations for the Drinking Water State Revolving Fund (DWSRF). The DWSRF is a State operated program that provides loans and other financial assistance for drinking water improvement projects. The SDWA requires that States match 20 percent of federal grant dollars to fund the DWSRF. This means that every dollar invested by the State of Maine secures five federal dollars. For 2020, Maine invested \$2,200,800, allowing the State to access \$11,004,000 in Federal funding. Combined with funds generated through repayment of prior year DWSRF loans, the Drinking Water Program offered approximately \$24 million in loans for drinking water improvement projects in Maine.

The DWSRF provides funding to public water systems throughout Maine to improve or replace water system pipes, treatment plants, storage tanks, and sources of water to ensure safe drinking water and provide essential public health protection. Funding for drinking water infrastructure improvement projects is available as low interest loans. Disadvantaged Community Water Systems may receive further assistance through principal forgiveness.

A portion of the DWSRF is used to fund non-construction projects that help improve and protect drinking water quality in Maine. These include Wellhead Protection Grants, Source Water Protection Grants, Capacity Development Grants, Very Small System Compliance Loans, System Consolidation Grants, and Land Acquisition Loans. These programs are designed to provide source water protection, technical assistance, system capacity development assistance, and land acquisition.

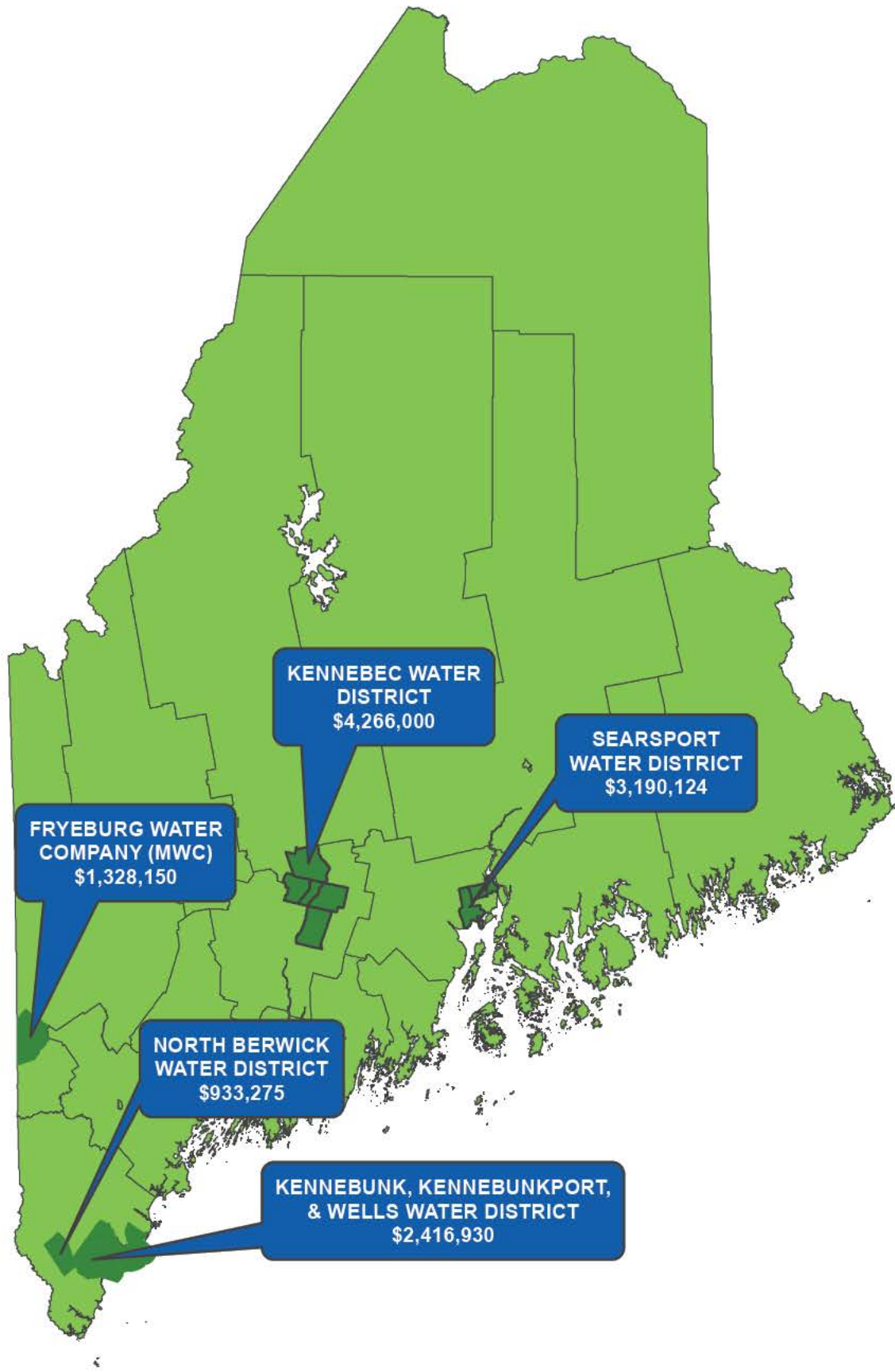
The Department of Health and Human Services (DHHS) and the Maine Municipal Bond Bank (MMBB) administer the DWSRF together. The Drinking Water Program is the Lead Administrator and is responsible for project management and technical support, as well as overseeing activities. The MMBB is the Financial Administrator and oversees the loan application process and tracks money to and from the fund.

Since 1997, the Maine DWSRF has provided over \$325 million to public water systems through low interest loans and grants for Capital Improvement Projects to comply with the SDWA.

2020 DWSRF COMPLETED CONSTRUCTION PROJECTS

WATER SYSTEM	TOWNS SERVED	SHORT PROJECT DESCRIPTION	2020 FUNDED AMOUNT
Fryeburg Water Company (MWC)	Fryeburg	Water Main Replacement	\$1,328,150
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Water Main Replacement	\$2,747,568
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Water Main Replacement	\$1,518,432
Kennebunk, Kennebunkport & Wells Water District	Kennebunk, Kennebunkport & Wells	Water Main Replacement	\$452,480
Kennebunk, Kennebunkport & Wells Water District	Kennebunk, Kennebunkport & Wells	Water Storage Tank Construction	\$1,964,450
North Berwick Water District	North Berwick	Water Main Replacement	\$933,275
Searsport Water District	Searsport, Prospect	Water Main Replacement	\$3,190,124





CAPACITY DEVELOPMENT GRANTS

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Auburn Water District	Auburn	\$14,250
Bangor Water District	Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie	\$15,000
Bath Water District	Bath, Brunswick, West Bath, Wiscasset, Woolwich	\$20,000
Ellsworth Water Department	Ellsworth	\$20,000
Farmington Village Water Department	Farmington	\$10,000
Five Rivers Regional Water Council	Bath, Boothbay, Bowdoinham, Brunswick, Damariscotta, Newcastle, Richmond, Topsham, West Bath, Wiscasset, Woolwich	\$5,000
Gardiner Water District	Gardiner	\$10,000
Guilford-Sangerville Water District	Abbot, Guilford, Parkman, Sangerville	\$10,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	\$13,500
Limerick Water District	Limerick	\$20,000
Lincoln Water District	Lincoln	\$10,000
Livermore Falls Water District	Livermore Falls	\$18,283
Orono-Veazie Water District	Orono, Veazie	\$20,000
Rangeley Water District	Dallas Plantation, Rangeley, Rangeley Plantation, Sandy River Plantation	\$5,953.50
Rumford Water District	Rumford	\$10,000
Southwest Harbor Water & Sewer District	Southwest Harbor	\$20,000

SOURCE WATER PROTECTION GRANTS

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Boothbay Region Water District	Boothbay	\$10,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	\$10,000
Sugarloaf Water Association	Carrabassett Valley	\$5,000
Wilton Water District	Wilton	\$10,000
York Water District	York	\$5,000

WELLHEAD PROTECTION GRANTS

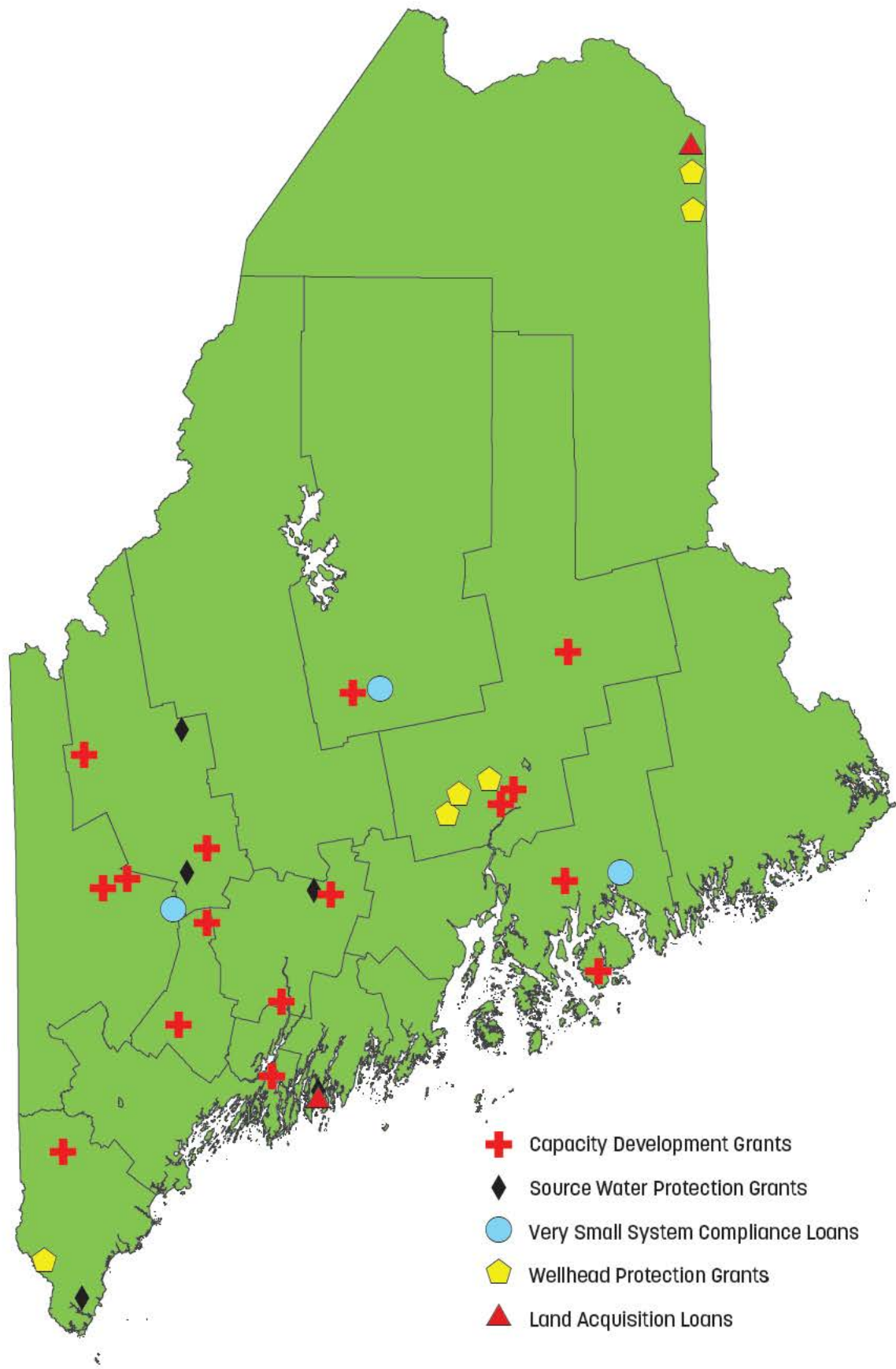
PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Fort Fairfield Utility District	Fort Fairfield	\$10,000
Grandeur Mobile Home Park	Carmel	\$10,000
Hingham Heights Mobile Home Park	Glenburn	\$10,000
Homestead Estates Mobile Home Park	Glenburn	\$10,000
Limestone Water and Sewer District	Limestone	\$5,000
South Slope Estates Mobile Home Park	Carmel	\$10,000
Sunrise Hill Estates	Berwick	\$10,000
Willow Brook Mobile Home Park	Levant	\$10,000

LAND ACQUISITION LOANS

PUBLIC WATER SYSTEM	TOWNS SERVED	ACRES PURCHASED & PROTECTED	LOAN AMOUNT
Boothbay Region Water District	Boothbay	22	\$145,000
Limestone Water & Sewer District	Limestone	2.5	\$103,000

VERY SMALL SYSTEM COMPLIANCE LOANS

PUBLIC WATER SYSTEM	TOWNS SERVED	COMPLIANCE ISSUE	GRANT AMOUNT
Canton Point Park	Canton	Inadequate water source; funding addition to cover engineering costs	\$10,000
Covered Bridge Apartments	Guilford	Lead Exceedance	\$60,000
Spinsfield Commons	Franklin	Radon Exceedance	\$60,000



The DWSRF will continue to play a critical role in Maine’s future by supporting the provision of safe drinking water for Mainers. Repayments from past DWSRF loans are currently returning over \$10.6 million per year, going on to provide loans for new projects. With the “revolving” nature of the DWSRF, that amount will continue to increase as the DWSRF loan pool continues to grow.

In 2021, new DWSRF Federal allocations combined with State match funds and repayment funds will allow \$21 million for new drinking water infrastructure projects. Although this is an impressive sum, it does not address increasing funding needs to update and replace aging drinking water infrastructure in the State of Maine.

Forty-seven (47) DWSRF applications, representing \$72.4 million in drinking water infrastructure improvements, were submitted for the 2020 DWSRF funding cycle. Unfortunately, available DWSRF project funds total approximately \$21 million, which will only provide financing assistance for about 29% of the requests.

This funding gap of \$51.4 million is only a part of the challenge for properly maintaining public water system infrastructure. The current aging infrastructure replacement rate is inadequate.

\$51.4 MILLION
FUNDING GAP FOR SAFE DRINKING WATER

Funding levels below demand levels is only one factor in the inadequate infrastructure replacement rate. Many water systems, to minimize rate increases on customers, are only replacing the most critical needs. Consequently, the true funding gap is much larger than is currently suggested by project requests. Local leaders will increasingly need to make difficult choices to ensure water systems remain viable into the future.

The maintenance and improvement of Maine’s infrastructure is vital to our economy, health, safety, security and to the environment.

Since 1997, the DWSRF has provided over \$325 million to public water systems through low interest loans and grants. Loan interest rates have averaged 0.79% and have been combined with a total of approximately \$66 million dollars in subsidies. Maine has contributed approximately \$41 million in State match, to access over \$225

million in Federal grants. Many communities have used these funds to address their infrastructure needs. In the 22 years since the DWSRF Program began, the following 15 utilities have utilized over half of the available construction funds revitalizing the aging infrastructure in their systems:

Bangor Water District \$25,616,000	Auburn Water District \$10,779,000	Calais Water Department \$6,689,000
Portland Water District \$20,148,000	Presque Isle Utilities District \$10,481,000	Gardiner Water District \$6,136,000
Passamaquoddy Water District \$14,890,000	Brunswick Topsham Water District \$8,583,000	Biddeford Saco Division - Maine Water Company \$9,352,000
Bath Water District \$13,251,000	Madawaska Water District \$7,259,000	Brewer Water Department \$2,628,000
Kennebunk, Kennebunkport, and Wells Water District \$15,277,000	Searsport Water District \$10,292,000	Old Town Water District \$5,491,000



MCKENZIE PARKER, P.E.

McKenzie Parker, P.E.

Originally from Augusta, McKenzie attended the University of Maine in Orono where she graduated with a bachelor's degree in Mechanical Engineering in 2011. After interning at the USGS Water Science Center, McKenzie accepted a position with the Drinking Water Program in 2012 as a community field inspector for Southern Maine. Since then, she has obtained her Professional Engineer license and been reassigned to the DWP's engineering group, where her primary duties include reviewing water system change applications and serving as a project manager for DWSRF projects in the southern half of the state.



"My favorite part about working at the DWP is that I am consistently exposed to a wide variety of projects. I could be working on a river crossing on Monday, a million-gallon standpipe on Tuesday, and a softener for a mom-and-pop restaurant the day after that. It's exciting to have had a hand in so many different projects that all share the same important goal providing safe, reliable drinking water to the people of Maine."

McKenzie currently lives in Westbrook with her husband, Chris, their daughter, Viola, and their beloved labradoodle, Calvin. In her free time, she enjoys traveling, crafting, and exploring the mountains and coasts of her beautiful home state.



LARRY GIRVAN, P.E.

Larry Girvan, P.E.

Larry grew up in a large family on a small farm in rural New Brunswick, Canada and emigrated to the United States in 1986. Larry has worked in the construction and engineering industry since 1977. Over the years he has served as a surveyor crew chief, a construction superintendent, an owner's construction inspector, a right-of-way agent, a plant engineer for a utility company, and a partner in an engineering firm. In 2000, he joined the Drinking Water Program as an engineer.



"The DWP has provided opportunities to work with all the various characteristics of water systems and operators and it has been great fun getting to know the systems, the people and the state."

Larry holds an engineering degree from the University of Maine, Orono and is a Maine licensed professional engineer. When he is not working, Larry enjoys spending as much time as he can with family. He also likes to cook, play music, travel, golf, and is looking forward to spending time at his cabin in Canada. Larry currently resides in the County with wife, Andrea and their dog, Cassie.

NORTH BERWICK WATER DISTRICT

TOWNS SERVED: North Berwick
DWSRF FUNDED AMOUNT: \$933,275
ENGINEER: A.E. Hodsdon Consulting Engineers
CONTRACTOR: Mick Construction



This project involved the replacement of approximately 2,610-feet of 6-inch lined ductile iron on Route 9 (Wells Street) between Main and Portland Streets.

FRYEBURG WATER COMPANY (MAINE WATER COMPANY)

TOWNS SERVED: Fryeburg
DWSRF FUNDED AMOUNT: \$1,328,150
ENGINEER: Wright-Pierce / Maine Water Company Staff Engineers
CONTRACTOR: Alvin J. Coleman & Sons, Inc.

This project replaced approximately 3,200-feet of 8-inch asbestos cement pipe with 12-inch PVC water main on Route 302 from Oxford Street to Bridgton Road in Fryeburg. This project was completed in conjunction with a MDOT roadway reconstruction project.



SEARSPORT WATER DISTRICT

TOWNS SERVED: Searsport, Prospect

DWSRF FUNDED AMOUNT: \$3,190,124

ENGINEER: A.E. Hodsdon Consulting Engineers

CONTRACTOR: Nitram Excavation & General Cont., Inc. / Lou Silver Construction Co.

This project consisted of replacing an old 8-inch, cast-iron water main with a new 12-inch, ductile iron main. This project will also include the installation of water main gate valves and hydrants for easier and quicker identification of problem areas without impacting service.



At this time I would like to thank all of you great folks at the Maine Drinking Water Program (MDWP) and the Maine Municipal Bond Bank (MMBB) for the fine work you have performed over the years with overseeing and funding the Searsport Water District's water main replacement projects. If it was not for the forgiveness funds that we have received throughout the years our customers would not have been able to afford the total costs associated with making these very critical distribution system upgrades as their water rates would have been astronomical and unaffordable for most. With MDOT's Route 1 revitalization project scheduled for 2022 we were able to stay ahead of their planned construction project and will finally have the entire portion of the Route 1 water main replacement project completed this year, just ahead of the MDOT project. The old 1906 and 1909 era 8-inch cast iron water main was in desperate need of replacement as it provided extremely low volumes of water for fire protection demands and barely met the peak demands of our existing customers. We can all sleep better at night knowing the new 12-inch ductile iron main is soon to be completed. And, we will also have many more water main gate valves and hydrants strategically located to allow for quicker isolation of problem areas without disrupting service to large areas of the system as we had to do in the past."

HERBERT KRONHOLM
Superintendent
Searsport Water District



COMPLETED 2020 FUNDED CONSTRUCTION PROJECTS

KENNEBUNK, KENNEBUNKPORT & WELLS WATER DISTRICT

TOWNS SERVED: Kennebunk, Kennebunkport & Wells

DWSRF FUNDED AMOUNT: \$452,480

ENGINEER: Kennebunk, Kennebunkport & Wells Engineers

CONTRACTOR: Kennebunk, Kennebunkport & Wells
(Force Account)

This project included replacing approximately 2,500-feet of 10-inch AC pipe with 16-inch PVC on Fletcher Street, from Gendron Lane to the intersection that crosses under I-95 in Kennebunk.



The District was able to replace ~2,500 feet of obsolete 10-inch AC pipe with 16-inch C909 PVC pipe in accordance with its Water System Master Plan. This project is being done in conjunction with the Town of Kennebunk's roadway reclamation/paving project resulting in an overall cost savings to both organizations. Local residents and the traveling public will also experience less impact on this primary arterial due to the consolidation of construction activities. District customers will benefit from fewer service interruptions due to main breaks, enhanced system hydraulic capacity and improved aesthetic water quality. In addition, all customer services within the Public R.O.W. were renewed along with the installation of new fire hydrants...We also expect lower distribution system flushing run times in that area with the new pipe. Yes, but at a higher borrowing cost for our ratepayers. The ability to use the Force Account method to design and install the new pipe using District personnel and equipment allowed for maximum efficiency both in terms of cost and production."

SCOTT MINOR, P.E.
Assistant Superintendent

TOWNS SERVED: Kennebunk, Kennebunkport & Wells
DWSRF FUNDED AMOUNT: \$1,964,450
ENGINEER: Kennebunk, Kennebunkport & Wells Engineers
CONTRACTOR: DN Tanks

The Kennebunk, Kennebunkport & Wells Water District used their 2020 DWSRF funds to construct a 1.5 million-gallon, prestressed concrete storage tank located off Founders Drive in Arundel. Contract work included site work, tank design, construction, and site restoration.



Despite the many challenges presented by the COVID pandemic, the District was able to safely and successfully complete construction of its new 1.5MG concrete storage tank project in Arundel. The District's Engineering team worked closely with DN Tanks throughout the project to overcome several challenges that made for less-than-ideal site conditions. The District's late discovery of a nearby vernal pool significantly reduced the work area, requiring the creative positioning of the wall and roof panel casting beds. Significant quantities of exceptionally hard bedrock also made the installation of the 16-inch influent/effluent piping and flow control/meter vault more difficult and costly."

SCOTT MINOR, P.E.
 Assistant Superintendent



KENNEBEC WATER DISTRICT

TOWNS SERVED: Fairfield, Oakland, Vassalboro, Waterville, Winslow

DWSRF FUNDED AMOUNT: \$2,747,568

ENGINEER: Wright-Pierce

CONTRACTOR: Ranger Construction

This DWSRF project consisted of funding the replacement of the down-town water main.



TOWNS SERVED: Fairfield, Oakland, Vassalboro, Waterville, Winslow

DWSRF FUNDED AMOUNT: \$1,518,432

ENGINEER: Kennebec Water District Staff Engineers

CONTRACTOR: Nitram Excavation & General Cont., Inc.

This project involved replacing a section of 8-inch cast iron main that services an industrial facility, to loop a dead-end section of main that has had water quality issues, and transfer services from a pre-1903 main to a newer, larger main.



BANGOR WATER DISTRICT

TOWNS SERVED: Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie

DWSRF FUNDED AMOUNT: \$344,410

ENGINEER: Woodard & Curran, Inc.

CONTRACTOR: Sargent

The Bangor Water District completed Phase I of the Butler Ozone facility upgrade. This project included the installation of new ozone generators along with associated electrical and control upgrades.



The Bangor Water District completed Phase II of the Butler Ozone Facility. This portion of the project upgraded certain components such as LOX storage facilities, side stream injection equipment, new destruction equipment, and associated electrical and control updates.

TOWNS SERVED: Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie

DWSRF FUNDED AMOUNT: \$1,810,390

ENGINEER: Bangor Water District

CONTRACTOR: Eastwood Contractors

In 2018, the Bangor Water District also replaced approximately 3,600 feet of 6-inch unlined cast iron water main with new 16-inch ductile iron water main. This upgrade provides increased flows through the feed along Main Street and through eliminating cast iron mains will improve chlorine residuals and decrease nitrification.



PROJECTS FROM PRIOR YEARS COMPLETED IN 2020 15

BAILEYVILLE UTILITIES DISTRICT

TOWNS SERVED: Baileyville
 DWSRF FUNDED AMOUNT: \$193,000
 ENGINEER: Olver Associates Inc.
 CONTRACTOR: T. Buck Construction

Emergency pump station waterline replacement.



BATH WATER DISTRICT

TOWNS SERVED: Bath
 DWSRF FUNDED AMOUNT: \$3,600,650
 ENGINEER: Wright-Pierce
 CONTRACTOR: T. Buck Construction

The Bath Water District successfully completed its 2019 DWSRF project to build a 30-foot by 54-foot addition on the west side of the water treatment facility in order to house a third 2.0 MGD WestTech Trident filtration treatment unit and an expanded baffled clearwell. Additional work included process piping, blower replacement, HVAC, electrical, instrumentation and controls, new access road with associated grading, and perimeter fencing with access gate.



GARDINER WATER DISTRICT

TOWNS SERVED: Gardiner

DWSRF FUNDED AMOUNT: \$467,000

ENGINEER: Wright-Pierce

CONTRACTOR: Reed and Reed, Inc. / McGee Construction

DWSRF funding supported the Gardiner Water District's project to replace the water main on the Bridge Street bridge and Maine Avenue bridge with 12-inch, insulated and restrained ductile iron water main. This project is associated with Maine Department of Transportation's replacement of the bridges and included replacement of buried water mains on each side of the two bridges.



KENNEBUNK, KENNEBUNKPORT, AND WELLS WATER DISTRICT

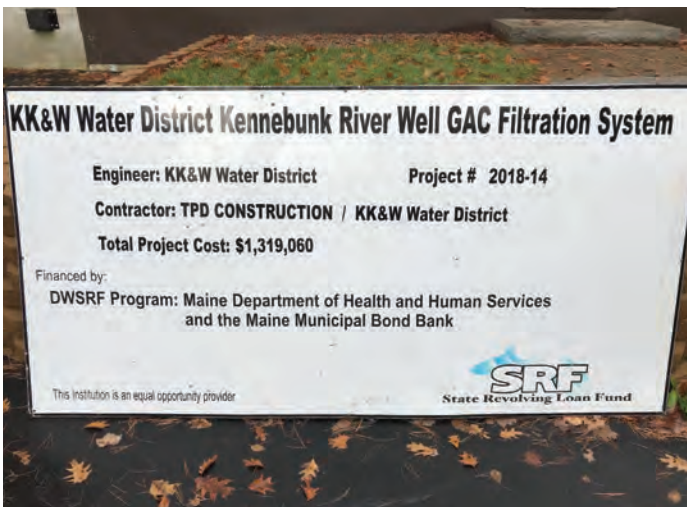
TOWNS SERVED: Kennebunk, Kennebunkport, and Wells

DWSRF FUNDED AMOUNT: \$1,319,060

ENGINEER: Kennebunk, Kennebunkport, and Wells Staff Engineers

CONTRACTOR: TDP Construction Co./Force Account

2018 DWSRF funding supported Kennebunk Kennebunkport and Wells Water District in constructing a 2,500-square foot facility to house PFAS treatment for their Kennebunk River Well source. Treatment consists of three 12-foot diameter pressure filters: a pretreatment sand filter and two granular activated carbon filters. The foundation includes a 71,000-gallon holding tank used to capture and hold water generated from backwashing the pressure filters.



PROJECTS FROM PRIOR YEARS COMPLETED IN 2020

PERCENTAGE OF PROJECT APPLICATIONS FUNDED

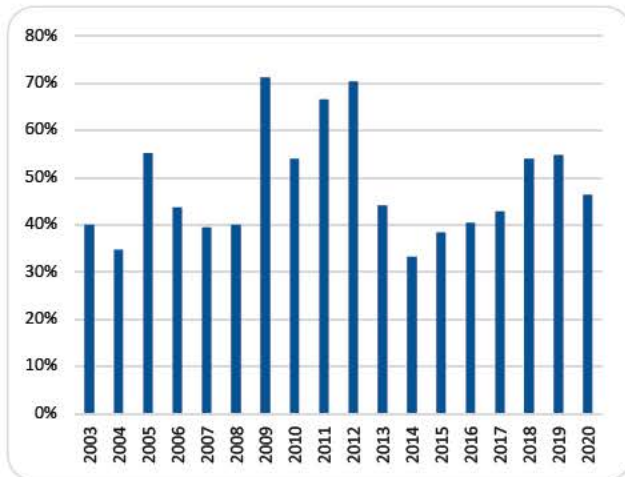


Figure 1.

Public water system requests to fund projects continue to exceed available money through the DWSRF, highlighting the ongoing and continued need for water systems to make improvements to their infrastructure.

DWSRF LOAN FORGIVENESS

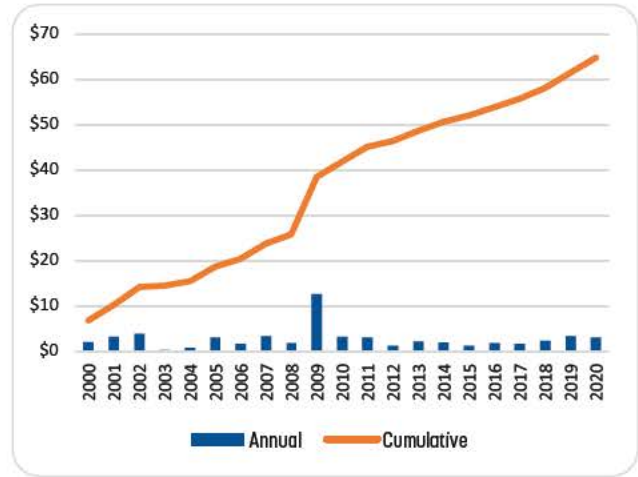


Figure 2.

Economically disadvantaged water systems may have a portion of the loan principal forgiven if a water system's existing rates exceed a "water rate goal" based on the Median Household Income of the community. The year 2009 is an outlier because of the requirement of the American Recovery and Reinvestment Act that each protect receive at least 30% "principal forgiveness".

DWSRF LOAN COMMITMENTS

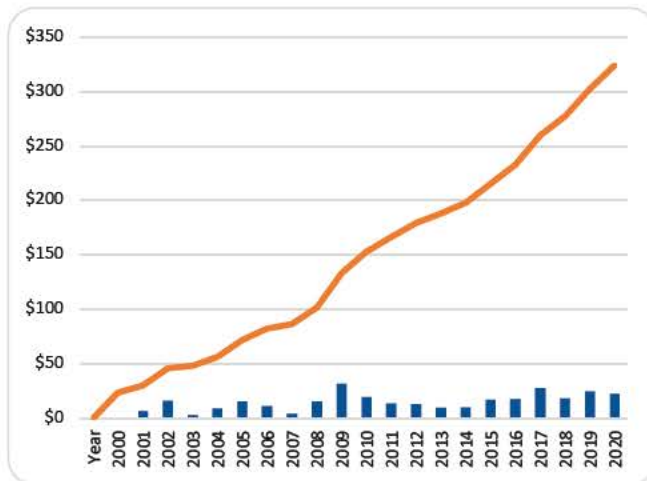


Figure 3.

Since 1997, the DWSRF has provided more than \$325 million in funding to public water systems for infrastructure improvement projects at Maine's public water systems.

DWSRF LOAN REPAYMENTS

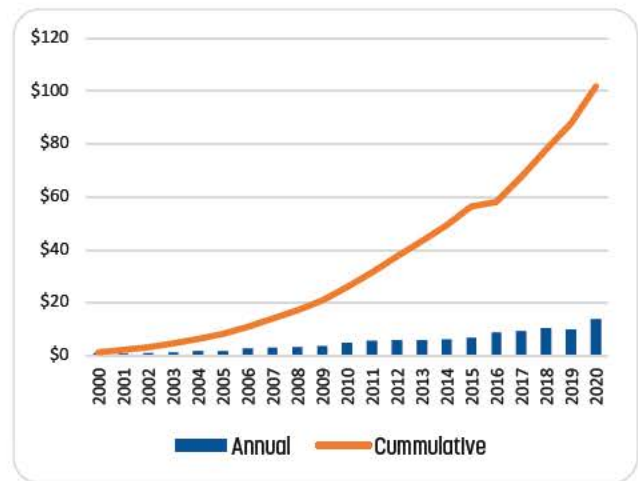


Figure 4.

The DWSRF annual repayment stream is currently about \$10.6 million per year and will continue to increase each year.

FROM SOURCE
TO TAP
**THE DWSRF HELPS
WATER SYSTEMS
DELIVER SAFE WATER**

The Drinking Water Program’s core message revolves around the belief that water systems should continually work to identify, reduce, and eliminate risks and vulnerabilities to ensure the provision of safe drinking water. The DWSRF plays an integral role in carrying out the DWP’s core message, as it enables public water systems to make improvements to their system in each of these fundamental areas. As a result, investments made by public water systems through the DWSRF support their continued ability to provide safe drinking water.

PROTECT YOUR SOURCE

The most important part of any public water system is their drinking water source. A high quality, well-protected source can provide cost-effective and safe drinking water. The DWSRF provides funding, both for the construction and development of new and backup drinking water sources and for source protection projects, including purchasing land integral for drinking water protection.

TAKE YOUR SAMPLES

Not only is drinking water sampling a requirement of all public water systems, it also provides the assurance that water is safe to drink. The DWSRF provides funding for water system grants, technical assistance providers, and operator training to assist water systems in developing and implementing plans for sample collection, data management, and reporting.

INSPECT YOUR PIPES AND TANKS

Storage tanks and a network of piping (also known as a distribution system) are an important part of a public water system’s ability to provide safe, clean water to consumers. If not regularly inspected and properly maintained, pipes and tanks can introduce contaminants or result in pressure too low to deliver water to each tap. The number of funding requests to the DWSRF for storage tank and water main rehabilitation or replacement projects is growing. This trend is expected to continue, as public water systems continue efforts with maintaining aging water storage infrastructure.

MAINTAIN YOUR TREATMENT

Treatment systems are an important part of delivering safe drinking water for many public water systems throughout the State. The DWSRF enables public water systems, large and small, to invest in the proper treatment to remove, reduce, or inactivate contaminants from their drinking water systems.



SOURCE WATER PROTECTION GRANTS

The Source Water Protection Grant Program awards grants to community and non-profit, non-community public water systems for projects that will help to protect their surface water source from contamination. Specifically, grants are

awarded for projects that demonstrate a commitment to the ongoing protection of a drinking water source. Grants are awarded up to \$5,000 per project. A few grants of \$10,000 may be available depending on the scope of the project.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Boothbay Region Water District	Boothbay	Remediate non-point source pollution and develop a watershed conservation collaborative	\$10,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Educational material development for KWD customers and residents focused on source water protection around China Lake	\$10,000
Sugarloaf Water Association	Carrabassett Valley	Replace chain link fence, post, gates and install a security camera at the facility	\$5,000
Wilton Water District	Wilton	Address source water protection priorities through education, monitoring projects, and NPS pollution sites	\$10,000
York Water District	York	Install an access gate on new access point	\$5,000

YORK WATER DISTRICT 2020 SOURCE WATER PROTECTION PROJECT NEW ACCESS ROAD GATE ON MOUNTAIN ROAD IN YORK.



Location of the new Mountain Road access road and gate before any work is done.



Trees removed from the entrance.



Grubbing and culvert installation.



Entrance roughed in and holes for gate posts dug.



Fill for the access road was brought in and the posts set.



Gate was fabricated off site and hung by the welders. The District built 1/2 mile of access road.



The gate is complete, painted and the rules of use sign and gate number attached.

WELLHEAD PROTECTION GRANTS

The Wellhead Protection Grant Program awards grants to community and non-profit, non-community public water systems for projects that will help to protect their groundwater source from contamination. Specifically, grants are awarded

for projects that demonstrate a commitment to the ongoing protection of a drinking water source. Grants are awarded up to \$5,000 per project. A few grants of \$10,000 may be available depending on the scope of the project.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Fort Fairfield Utility District	Fort Fairfield	Replace submersible pump to help prevent future infiltration during spring flooding	\$10,000
Grandeur Mobile Home Park	Carmel	Replace existing 4-5 oil furnaces with propane	\$10,000
Hingham Heights Mobile Home Park	Glenburn	Remove oil fired furnaces and replace with propane furnaces	\$10,000
Homestead Estates Mobile Home Park	Glenburn	Remove oil fired furnaces and replace with propane furnaces	\$10,000
Limestone Water and Sewer District	Limestone	Order test kits and water conservation materials for classroom hands-on learning	\$5,000
South Slope Estates Mobile Home Park	Carmel	Replace 4-5 existing oil furnaces with propane	\$10,000
Sunrise Hill Estates	Berwick	Convert the last mobile home in the park to propane heat	\$10,000
Willow Brook Mobile Home Park	Levant	Convert kerosene burning furnaces to propane	\$10,000



Photos from various projects around the state.

CAPACITY DEVELOPMENT GRANTS

Capacity Development Grants aid public water systems for the preparation of documents that will assist them in the maintenance or enhancement of water quality, by identifying possible improvements in systems' technical, financial,

and managerial operations (capacity development). Water systems can receive grants for 50% of the document cost, up to a maximum grant amount of \$20,000.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Auburn Water District	Auburn	Risk and Resilience Assessment & Emergency Response Plan	\$14,250
Bangor Water District	Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazle	Risk and Resilience Assessment & Emergency Response Plan	\$15,000
Bath Water District	Bath, Brunswick, West Bath, Wiscasset, Woolwich	Risk and Resilience Assessment & engineering study	\$20,000
Ellsworth Water Department	Ellsworth	Water Treatment System Evaluation	\$20,000
Farmington Village Water Department	Farmington	Risk and Resilience Assessment & Emergency Response Plan	\$10,000
Five Rivers Regional Water Council	Bath, Boothbay, Bowdoinham, Brunswick, Damariscotta, Newcastle, Richmond, Topsham, West Bath, Wiscasset, Woolwich	Standardize construction standards, water system materials, and terms & conditions for all 7 water systems	\$5,000
Gardiner Water District	Gardiner	Leak Survey	\$10,000
Gulford-Sangerville Water District	Abbot, Gullford, Parkman, Sangerville	Comprehensive System Facilities Plan	\$10,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Risk and Resilience Assessment & Emergency Response Plan	\$13,500
Limerick Water District	Limerick	Hydrogeologic Study for a new well	\$20,000
Lincoln Water District	Lincoln	Risk and Resilience Assessment & Emergency Response Plan	\$10,000
Livermore Falls Water District	Livermore Falls	Disinfection Byproducts Study	\$18,283
Orono-Veazle Water District	Orono, Veazle	Hydrogeological Study for replacement wells	\$20,000
Rangeley Water District	Dallas Plantation, Rangeley, Rangeley Plantation, Sandy River Plantation	Capital Improvement Plan update	\$5,953.50
Rumford Water District	Rumford	Risk and Resilience Assessment & Emergency Response Plan	\$10,000
Southwest Harbor Water & Sewer District	Southwest Harbor	Pilot/bench scale study for reduction of Trihalomethanes	\$20,000

WATER SYSTEM CONSOLIDATION GRANTS

Water System Consolidation Grants provide partial funding to join two water systems. The public water system applying for consolidation must have a technical, managerial, or financial capacity issue that will be addressed by the consolidation with the more viable public water system. The more viable, receiving public water system must not show technical, managerial, or financial capacity issues.

Finally, the consolidation cannot result in system capacity issues. The Consolidation Grant funds up to 50% of the cost of the water system consolidation for for-profit facilities and up to 75% of the cost of a water system consolidation for not-for-profit facilities, up to a maximum of a \$100,000 reimbursement.

VERY SMALL SYSTEM COMPLIANCE LOAN

The Very Small System Compliance Loan Program was established in 2010 for very small systems. Eligible systems include all community systems not regulated by the Public Utilities Commission with a population of 100 or less and all not-for-profit, non-transient, non-community water systems. Examples include mobile home parks, apartment buildings, nursing homes, and schools.

This loan program provides 100% principal forgiveness (up to \$50,000) for water treatment improvements required to achieve compliance with a current or future Safe Drinking Water Act requirement, excluding the Revised Total Coliform

Rule. Examples of eligible projects include but are not limited to: treatment systems to resolve compliance issues with lead, copper, radon, arsenic, or antimony levels.

To date, 38 Very Small System Compliance Loans with 100% principal forgiveness have been awarded to resolve compliance issues. The total project expense of \$778,831 has improved water quality for 4154 users at a cost of \$187 per user. Nine water treatment systems were installed for removal of arsenic, 17 for radon/uranium removal, and nine for corrosion control to address lead and copper compliance.

PUBLIC WATER SYSTEM	TOWNS SERVED	COMPLIANCE ISSUE	GRANT AMOUNT
Canton Point Park	Canton	Inadequate water source; funding addition to cover engineering costs	\$10,000
Covered Bridge Apartments	Gulford	Lead Exceedance	\$60,000
Spinsfield Commons	Franklin	Radon Exceedance	\$60,000

LAND ACQUISITION LOANS

The Land Acquisition Loan Program provides low interest loans to community and non-profit non-community public water systems for the purchase or legal control of land in drinking water source protection areas. Land acquisition is a key component of safe and secure drinking water and the protection of public health. Shoreline and direct watershed land use and development have a major impact on the quality of water available to a water system and control of those land uses is an extremely cost-effective way of managing future water treatment costs.

The 1996 Amendments to the federal Safe Drinking Water Act stress the importance of preventing drinking water contamination through source water protection and water system management. In Source Water Protection: Best Management Practices and Other Measures for Protecting

Drinking Water Supplies, the EPA notes that “the best way to control activities within sensitive areas is to purchase land and/or development rights to that land.”

Land Acquisition Loans continue to be made available to any water system that is presented with the opportunity to purchase land integral to the protection of their drinking water system. Land acquisition loans have ranged from a purchase of 2.3 acres all the way up to nearly 1,200 acres.

In 2019, the Drinking Water Program updated the Land Acquisition Loan Program. To further encourage systems to invest in protecting their source of drinking water, low-interest loans under the Land Acquisition Loan Program will now be eligible for 50% principal forgiveness up to \$50,000 for the purchase of land and/or conservation easement in a drinking water source protection area.

PUBLIC WATER SYSTEM	TOWNS SERVED	ACRES PURCHASED & PROTECTED	LOAN AMOUNT
Boothbay Region Water District	Boothbay	22	\$145,000
Limestone Water & Sewer District	Limestone	2.5	\$103,000



MAINE CDC DRINKING WATER PROGRAM

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DRINKING WATER STATE REVOLVING FUND
WORKING TOGETHER FOR SAFE DRINKING WATER

2020