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FINAL 2022 INTENDED USE PLAN

For the

DRINKING WATER STATE REVOLVING

FUND

May 9, 2022



This information is available in alternate format. Contact Glynis Bugg at 617-348-4040.

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EXECUTIVE SUMMARY

The Massachusetts Department of Environmental Protection (MassDEP) is pleased to present the Final Calendar Year 2022 Intended Use Plan (IUP), which lists the projects, borrowers, and amounts that are being offered financing through the Drinking Water State Revolving Fund (DWSRF) loan program. The DWSRF is a joint federal-state financing program that provides subsidized loans to protect public health by improving water supply infrastructure systems and protect drinking water in the Commonwealth.

Massachusetts is offering approximately \$363 million to finance drinking water projects across the Commonwealth. As noted in Table 1, approximately \$319 million is being offered to finance 43 new construction projects, an additional \$29 million will be allocated to finance 6 previously approved multi-year projects, and approximately \$10 million is allocated towards the 12 planning projects. An additional \$5 million has been allocated to the emergency set-aside account.

Seven proposals, totaling \$1.4 million, as noted in Table 2, have been selected to receive financial assistance for their Asset Management Planning (AMP) projects. Communities will receive 60% of the project cost, up to \$150,000, as a grant from the Massachusetts Clean Water Trust (Trust), totaling \$761,040. The balance of the cost can be made up of local contributions of cash and/or in-kind services. All or part of the local contribution may be borrowed from the Trust at the standard 2% interest rate with a term of up to five years.

2022 Highlights

- On November 15, 2021, President Biden signed into law the Bipartisan Infrastructure Law (BIL). The BIL provides three new federal grants through the Drinking Water State Revolving Fund DWSRF:
 1. Supplemental Drinking Water State Revolving Fund Grant
 2. Lead Service Line Replacement Grant
 3. Emerging Contaminants Grant

These grants will be provided annually over the next five years. For fiscal year 2022, Massachusetts expects to receive \$41.7 million for the Supplemental DWSRF Grant, \$65.8 million for the Lead Service Line Grant and \$17.5 million for the Emerging Contaminants Grant focusing on PFAS. Each of these grants requires that Massachusetts provide a portion of the funding as loan forgiveness. The Supplemental DWSRF Grant requires that \$20.5 million, or 49% of the total grant, be provided as loan forgiveness to Disadvantaged Communities. The Lead Service Line Grant requires that \$32.2 million, or 49% of the total grant, be provided as loan forgiveness to Disadvantaged Communities. The Emerging Contaminants Grant requires that the full amount of the grant be provided as loan forgiveness and that at least 25% of the grant be directed to Disadvantaged Communities.

Using supplemental funds, Massachusetts anticipates being able to offer fixed percentages of additional loan forgiveness for eligible projects on the 2022 IUP. These fixed percentages are anticipated to be consistently applied to the future IUPs covered under these new BIL

federal grants subject to funds availability. MassDEP, in consultation with the Massachusetts Clean Water Trust, may amend this IUP as necessary given that the United States Environmental Protection Agency (USEPA) continues to issue guidance to states on the implementation of the expanded SRF program. The large increase in the 2022 IUP capacity is evidence of the additional BIL funding being put to use in the state, and Massachusetts looks forward to financing more projects at a lower cost to communities throughout the Commonwealth.

Some of the key provisions of BIL include amendments to the Safe Drinking Water Act (DWSRF Base Program of SDWA):

American Iron and Steel - BIL makes the American Iron and Steel (AIS) procurement requirement permanent for *all* DWSRF construction projects going forward.

Build America, Buy America (BABA) Act – BIL also expands domestic sourcing requirements with the inclusion of the Build America, Buy America Act (BABA). Starting on **May 14, 2022**, all steel, iron, manufactured products, non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber, and drywall used in infrastructure projects for federal financial assistance programs must be produced in the United States. The Made in America Office at the Office of Management and Budget (OMB) has developed initial overarching implementation guidance: <https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>. The USEPA will be issuing SRF specific implementation guidance.

BIL raised the minimum Safe Drinking Water Act requirement for Additional Subsidy to Disadvantaged Communities from 6% to 12%, establishing an additional subsidy range of 12% to 35% for the annual DWSRF capitalization grants.

- Congress requires that states use 14% of the annual DWSRF grant for additional subsidy. Massachusetts expects an award of \$16.5 million in 2022. Additional subsidy will be provided in the form of loan forgiveness for communities that might otherwise be unable to afford to undertake a project. MassDEP and the Trust will continue to provide additional subsidy as a fixed percentage of principal. Further details may be found in section II(A) of this IUP. Information about the Trust's Affordability Calculation may be found on the following webpage: <https://www.mass.gov/info-details/the-disadvantaged-community-program#the-affordability-calculation>.
- On October 4, 2019, the Water Infrastructure Funding Transfer Act (WIFTA) was signed into law. This statute temporarily expands the authority to transfer funds from the Clean Water State Revolving Fund (CWSRF) to the DWSRF specifically to address a threat to public health because of heightened exposure to lead in drinking water. This temporary authority allows the Commonwealth to transfer up to 5% of the cumulative CWSRF federal grants to the DWSRF. Massachusetts has transferred \$30 million from the CWSRF to the DWSRF and the funding will be used to provide financial support in the form of loan forgiveness. This

authority is in addition to the existing transfer authority under the Safe Drinking Water Act. Further details may be found in section V(E) of this IUP.

- BIL allows states the flexibility to move funds between the CWSRF and the Drinking Water State Revolving Fund (DWSRF) programs. Due to great demand for PFAS remediation in drinking water, Massachusetts will transfer \$3.17 million of CWSRF Emerging Contaminant supplemental funds to the DWSRF Emerging Contaminant program (100% of the grant amount). Further details may be found in section V(E) of this IUP.
- During the 2022 calendar year, PFAS remediation projects will continue to be eligible to receive additional subsidy in the form of a 0% interest rate loans contingent on the availability of funds.
- MassDEP is also offering additional subsidy for all projects with a renewable energy component.
- The United States Environmental Protection Agency (USEPA) requires that 15% of total IUP assistance be directed toward Small Systems, those serving populations less than 10,000. Thirteen of the 2022 Small System applicants are being recommended for financing from the 2022 IUP with projects totaling approximately \$94 million. Since financing for small systems exceeds 15% of \$363 million, or \$54.5 million, Massachusetts expects to meet this requirement.

MassDEP appreciates the efforts that proponents have invested in the development of applications and recognizes their efforts to enhance and protect the public health of the Commonwealth.

TABLE 1
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2022 DWSRF Intended Use Plan

NEW PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	2022 IUP Cost
547	BOSTON WATER AND SEWER COMMISSION (H)(L)(LR)	7185	Elimination of Lead Water Services in Boston	\$28,039,539	\$15,000,000
546 *	LEICESTER WATER SUPPLY DISTRICT (PF)	7051	Water System Interconnection with Worcester	\$4,800,000	\$4,800,000
545 *	PALMER (PF)	6958	Water Storage Tanks Mitigation and Restoration	\$1,500,000	\$1,500,000
541	SCITUATE (S)	6985	Stearn's Meadow Water Treatment Plant	\$35,000,000	\$15,000,000
540	AMHERST (BC)(PF)(H)#	7036	Centennial Water Treatment Plant Replacement	\$14,000,000	\$14,000,000
535	SOMERSET (PF)	7134	Booster Pump Station & High Service Area Rehab	\$3,300,000	\$3,300,000
535	NEW BEDFORD (PF)(L)(LR)	7168	Lead Service Line Replacement Program	\$16,170,000	\$5,000,000
529 *	BLANDFORD (PF)	6975	Water Treatment Plant Upgrade	\$350,000	\$350,000
529	CONCORD (S)	7059	Nagog Pond Water Treatment Plant	\$28,037,000	\$15,000,000
527	NORTH ATTLEBOROUGH (PF)(H)(EC)	6956	McKeon WTF PFAS Treatment Facility	\$9,250,000	\$9,250,000
527	LOWELL (PF)(H)(L)(LR)	7106	Lead Services Replacement Project	\$3,930,929	\$3,930,929
525	MANSFIELD (PF)(H)(EC)	7040	Walsh Well PFAS Treatment System and Well Upgrades	\$6,740,000	\$6,740,000
525	ABINGTON-ROCKLAND JOINT WATER WORKS (PF)(EC)	7152	Hannigan and Myers Avenue WTP PFAS Treatment	\$26,672,000	\$15,000,000
525	BURLINGTON (H)(EC)	7245	Mill Pond Water Treatment Plant - PFAS	\$15,000,000	\$15,000,000
525	SHARON (EC)	6942	Production Well 4 PFAS Treatment	\$15,800,000	\$15,000,000
520 *	TOWNSEND (PF)(EC)	6964	PFAS Water Treatment Improvements	\$14,090,000	\$14,090,000
520 *	COHASSET (EC)	7169	GAC Treatment and Chlorine System Upgrades	\$4,035,000	\$4,035,000
519 *	EASTHAM (BC)(PF)	7047	Eastham Water System - Phase 2E	\$15,624,375	\$15,000,000
517	SUDBURY (H)(EC)	7156	Raymond Road Water Treatment Plant PFAS Treatment	\$6,438,600	\$6,438,600
516 *	HOPEDALE (PF)(EC)	7201	Greene Street WTP PFAS Treatment	\$3,523,100	\$3,523,100
516 *	BARNSTABLE FIRE DISTRICT (PF)(H)(EC)	7128	Water Filtration Plant Construction - Wells 2 & 5	\$16,350,000	\$15,000,000
514 *	MEDWAY (H)(S)	7196	Medway - Populatic St. Water Treatment Plant	\$21,412,000	\$15,000,000
513	NANTUCKET (H)(EC)	7011	Water System Expansion West of Nantucket Airport	\$7,800,000	\$7,800,000
449	NEW BEDFORD (PF)(S)#	7172	Quittacas Water Treatment Plant Upgrades	\$23,637,500	\$5,000,000
445	NEW BEDFORD (PF)	7173	Highway Bridge Crossing Replacement Project	\$6,300,000	\$5,000,000

444	FITCHBURG (PF)	7001 Oak Hill Water Storage Tank Replacement	\$2,750,000	\$2,750,000
443	SPRINGFIELD WATER AND SEWER COMMISSION (PF)	6998 42 inch Raw Water Conduit Repair	\$7,908,700	\$7,908,700
440	TAUNTON (PF)(H)	7179 Assawompset Pumping Station Improvements	\$1,220,000	\$1,220,000
439	FALL RIVER (PF)(H)	7093 WTP Redundant Pipeline	\$4,647,500	\$4,647,500
436	BROCKTON (PF)(H)	7189 Transmission Main Replacement Project	\$11,000,000	\$11,000,000
432	LOWELL (PF)(H)	6957 Lowell High Pressure Zone Interconnection	\$4,435,000	\$4,435,000
430	FALL RIVER (PF)(H)	6988 Wilson Road Booster Pumping Station	\$2,167,000	\$2,167,000
427	HAVERHILL (PF)(H)	7144 Phase 3B - Transmission Main Improvements	\$5,810,000	\$5,810,000
427	MASSACHUSETTS WATER RESOURCES AUTHORITY	7218 Section 23, 24, 47 Water Mains Rehab	\$14,700,000	\$6,000,000
425	ANDOVER (H)	6978 Phase 1 Water Transmission Main Improvements	\$9,229,440	\$9,229,440
425 *	BELCHERTOWN (PF)(H)	7183 Pine Valley Plantation Water System Replacement	\$4,543,000	\$4,543,000
423	WINTHROP (PF)	7102 Revere Street PRV Station Improvements	\$1,633,750	\$1,633,750
423	LAWRENCE (PF)(H)	7209 Tower Hill Transmission Main Redundancy	\$1,628,000	\$1,628,000
421 *	EAST BROOKFIELD (PF)	6965 Water Storage Improvements	\$9,545,000	\$9,545,000
413 *	ESSEX	7178 Town of Essex's Water Treatment Plant Upgrade	\$2,640,800	\$2,640,800
321	TEWKSBURY (PF)(H)(L)(LR)	7043 Tewksbury AC Water Main Replacement Project	\$6,468,000	\$6,468,000
237	FALL RIVER (PF)(H)(L)(LR)	6989 Water Main Improvements - Phase 22	\$4,715,250	\$4,715,250
205	WINTHROP (PF)(L)(LR)	7062 Revere,Crest,& Grovers Ave. St. Dist. Improvements	\$2,912,000	\$2,912,000
TOTAL OF NEW PROJECTS			\$425,753,483	\$319,011,069

(Count: 43)

(Average Rating: 470.72)

* - Small System

(BC) - Base Capitalization

(D) - Dropped by Applicant

(EC) - DWSRF Emerging Contaminants

(H) - Housing Choice Communities

(L) - Water Infrastructure Funding Transfer Act (WIFTA) Projects

(LR) - DWSRF Lead Service Line Replacement

(PF) - Disadvantaged Community

(RE) - Potential Renewable Energy Projects

(S) - DWSRF Supplemental

- Projects contains Energy Efficiency, Renewable Energy and/or meets EPA's definition of a Green Project (<https://www.epa.gov/greeningepa/energy-and-emissions-epa>)

MassDEP PRIORITY PROJECTS

Applicant	SRF ID Project	Project Cost	2022IUP Cost
EMERGENCY SRF SET-A-SIDE	2978	\$5,000,000	\$5,000,000
TOTAL OF MassDEP PRIORITY PROJECTS		\$5,000,000	\$5,000,000

(Count: 1)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	SRF ID Project	Project Cost	2022IUP Cost
BRAINTREE #(RE)(PF)(EC)	7258 Tri-Town Regional Water Treatment Plant	\$25,000,000	\$10,000,000
HOLBROOK #(RE)(PF)(EC)	7259 Tri-Town Regional Water Treatment Plant	\$25,000,000	\$6,800,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	4119 SEH Redundancy and Storage	\$49,297,289	\$2,000,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	4564 Weston Aqueduct Supply Main Rehabilitation	\$19,382,850	\$6,000,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	6691 Northern Intermediate High Section 89 Replacement	\$32,619,000	\$1,000,000
RANDOLPH #(RE)(PF)(EC)	7260 Tri-Town Regional Water Treatment Plant	\$25,000,000	\$3,200,000
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS		\$176,299,139	\$29,000,000

(Count: 6)

PLANNING PROJECTS

Applicant	SRF ID Project	Project Cost	2022IUP Cost
BILLERICA (H)	6938 Raw Water Intake/Transmission Main Study	\$500,000	\$500,000
BILLERICA (H)	6947 Treble Cove Booster Pump Station Study	\$100,000	\$100,000
BLANDFORD	7076 Water System Capital Improvement Plan	\$44,500	\$44,500
BLANDFORD	7204 Water Main Replacement & Storage Evaluation	\$75,000	\$75,000
BROCKTON (H)(L)(LR)	7187 Lead Service Line Replacement Program - Phase I	\$600,000	\$600,000
LEICESTER	7008 Moose Hill Reservoir—DEP New Source Approval	\$636,000	\$636,000
LEICESTER WATER SUPPLY DISTRICT	7115 Groundwater Source Investigations	\$200,000	\$200,000
MILLIS (L)(LR)	7082 Millis Lead Service Inventory & Replacement Plan	\$139,000	\$139,000
NEW BEDFORD	7240 Phase 5 - Transmission Main Inspection Program	\$7,050,000	\$7,050,000
NEW BEDFORD (L)(LR)	7181 Lime to Caustic Evaluation	\$200,000	\$200,000
ROCKPORT (L)(LR)	7159 Lead Services Inventory & Replacement Plan	\$176,600	\$176,600
WAYLAND (L)(LR)	7174 Lead Service Line Inventory and Replacement Plan	\$139,200	\$139,200
TOTAL OF PLANNING PROJECTS		\$9,860,300	\$9,860,300

(Count: 12)

TOTAL OF INTENDED USE PLAN	\$616,912,922	\$362,871,369
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TABLE 2
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2022 DWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	Grant Amount
98	TEMPLETON	7071	Templeton Municipal Light & Water Plant AMP	\$120,000	\$72,000
92	TAUNTON (H)	7222	Taunton Water Asset Management Plan	\$194,264	\$116,558
90	FALL RIVER (H)	7170	Water System Geodatabase and Mapping	\$250,000	\$150,000
90*	LINCOLN (H)	7073	Lincoln Water Asset Management Plan	\$111,250	\$66,750
76	CHELMSFORD WATER DISTRICT	7010	Horizontal Asset Management Program	\$412,575	\$150,000
73	ABINGTON-ROCKLAND JOINT WATER WORKS	7131	ARJWW Asset Management	\$93,750	\$56,250
70*	AVON	7057	Avon Cybersecurity and Continuity Asset Management	\$249,277	\$149,482
TOTAL OF ASSET MANAGEMENT PLANNING PROJECTS				\$1,431,116	\$761,040

(Count: 7)

* - Small System

TOTAL OF PROJECT PRIORITY LIST	\$1,431,116	\$761,040
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I. BACKGROUND

The Federal Safe Drinking Water Act Amendments of 1996 authorized the award of capitalization grants to the States to create individual Drinking Water State Revolving Fund (DWSRF) loan programs. These programs provide state-administered subsidized loans to finance publicly and privately owned community water supply projects. Under the DWSRF program, states provide a 20% match to the federal capitalization grant to create the loan fund. Projects to be financed are selected using a priority ranking system based upon protection of the public health and improved compliance together with affordability.

The DWSRF is jointly administered by the Massachusetts Department of Environmental Protection (MassDEP) and the Massachusetts Clean Water Trust (Trust). MassDEP manages the technical aspects of project development while the Trust manages the disbursement of funds and the sale of bonds to provide capital to the program.

Pursuant to the applicable provisions of the Federal Safe Drinking Water Act Amendments of 1996, Chapter 78 of the Acts of 1998, and 310 CMR 45.00, MassDEP has developed its Calendar Year 2022 Intended Use Plan/Project Priority List (IUP/PPL), with its attendant ranking of drinking water projects, as noted in Table 3. A project must appear on the PPL and the IUP Project Listing to receive financial assistance under the State Revolving Fund (SRF) Loan program.

This Final IUP includes \$363 million in financing and describes Massachusetts' intended uses for all funds available in the DWSRF program for calendar year 2022. It includes the projects that Massachusetts expects to provide financial assistance to and an overview of how the state will comply with federally mandated requirements. To ensure communities continue to protect the health of our citizens while maintaining low costs for consumers, the Commonwealth is pleased to offer subsidized financing to our water suppliers for projects in this Intended Use Plan that remove PFAS from drinking water. In doing so, the Commonwealth reserves its rights to assert claims and causes of action to recover funds from third parties, including product manufacturers, otherwise responsible for the PFAS contamination impacting the Commonwealth's drinking water, groundwater, surface waters or environment in any manner

This Final IUP contains 7 Asset Management Planning (AMP) projects, totaling \$1.4 million. These communities will receive 60% of the project cost, up to \$150,000, as a grant from the Trust, totaling \$761,040. The remaining project costs are to be funded by local contributions of cash and/or in-kind services. All or part of the local contribution may also consist of a loan from the Trust at the standard 2% interest rate with a term of up to five years.

All new projects receiving financial assistance from the DWSRF will be eligible for loans at 2% or, in certain instances, below 2%. The Commonwealth subsidizes these loans, funding the spread between market interest rates and the awarded rate. This subsidy will continue to be allotted to the SRF programs in this and upcoming budget cycles. Certain priority projects, with the primary purpose of PFAS mitigation, may be eligible for 0% interest loans. Prior to committing

to permanent financing, MassDEP will review all submitted information to determine a project's eligibility for the reduced interest rate. The standard term for construction loans is 20 years.

To be considered for financing priority, communities must have appropriated the necessary local project funds or have committed to a schedule to obtain those funds by **June 30, 2022**.

Completed applications must be submitted to MassDEP at the earliest possible time, but not later than **October 14, 2022**. A complete application must contain the local funding authorization and the required supporting documentation. Any project not meeting these deadlines will be removed from the IUP Project Listing. Projects offered financing that do not advance, may be replaced by the highest ranked project on the Project Priority List that is ready to proceed. Following receipt of a complete loan application package, MassDEP must issue a Project Approval Certificate to the Trust no later than December 31, 2022, certifying the total costs of the project determined to be eligible for financial assistance. The Trust then proceeds to execute loan commitments.

All SRF related documents, including this IUP, the priority ranking system, loan application forms, regulations, and IUPs from the previous year, may be found on the MassDEP web site at: <https://www.mass.gov/state-revolving-fund-srf-loan-program>.

II. CALENDAR YEAR 2022 PROJECT FINANCING

In 2022, MassDEP expects to finance 43 new construction projects, 6 carryover projects, and 12 planning projects totaling approximately \$363 million. Included in this amount is a \$5 million emergency reserve to finance unanticipated problems of acute public health concern that may arise during the year. Table 1 is the list of projects being offered financing for 2022 and Table 3 is the extended PPL. Tables 2 and 4 list the projects that have been selected to receive grants from the Trust for their Asset Management Planning projects.

Massachusetts expects to receive \$16.5 million, plus a combined \$128 million in supplemental funds, from the United States Environmental Protection Agency (USEPA) to fund the DWSRF for 2022. Following are some of the more notable DWSRF program components and requirements:

A. Additional Subsidy

Eligible construction projects appearing on the 2022 IUP will receive additional subsidy, to the extent that funds are available, in the form of loan forgiveness, based on the affordability tier system described below and provided as a set percentage based on the community's tier ranking.

Massachusetts has established an affordability criteria to calculate and distribute loan forgiveness. The assignment of communities to an affordability tier is based on an adjusted per capita income (APCI) calculation. Tier rankings are calculated annually by comparing a

community's APCI as a percentage of the Commonwealth's APCI. See the following table for the tier breakdown.

Tier	Percent of State APCI	Minimum Loan Forgiveness
1	Greater than 80%, but less than 100%	6.6%
2	Greater than 60%, but less than 80%	13.2%
3	Less than 60%	19.8%

With the establishment of the Disadvantaged Communities program, all projects that are eligible for additional subsidy on the 2022 DWSRF IUP and PPL are now considered Disadvantaged Communities (DC) and will be reported as such. The establishment of a formal DWSRF DC program does not change the distribution of loan forgiveness and does not require any additional actions from eligible communities beyond the requirements already in place for loan forgiveness.

Projects that have a renewable energy component will qualify as a Tier 1 community and receive loan forgiveness for the portion of the loan that is financing the renewable energy component.

*Loan forgiveness will be disbursed over construction contracts that are executed by **June 30, 2023**, and may be limited to the lesser of the executed contracts or the IUP cost. Planning projects are not eligible for loan forgiveness.*

In addition to meeting the affordability criteria, under Chapter 259 of the Acts of 2014, *An Act Improving Drinking Water and Wastewater Infrastructure*, applicants for additional subsidy are required to:

- a. establish water enterprise funds (or equivalent separate restricted accounts); and
- b. not have made any transfers from such enterprise fund in the last 5 years to fund the community's general operating budget.

B. Housing Choice Initiative

Communities that have earned the Housing Choice designation at the time of the SRF project solicitation are eligible to have their loan's interest rate reduced by 0.5% (for example from 2% to 1.5% for a standard term loan). However, under no circumstance can the interest rate fall below 0%. For example, if a community qualifies for a 0% interest loan for a PFAS mitigation project, it cannot receive an added discount through the Housing Choice designation. Housing Choice initiative communities must also certify to the enterprise account requirements noted above.

C. Applicant Cap

The Massachusetts SRF regulations (310 CMR 45) place a limit on any one proponent receiving any more than 25% of the available financing each year. Because of the shortfall of available funds relative to the number of worthwhile projects, and to extend financial assistance to as many highly ranked projects as possible, MassDEP is implementing an applicant cap of \$15 million for the 2022 financing period. MassDEP reserves the right to waive the applicant cap limitation if MassDEP determines that one or more projects on the IUP Project Listing are not ready to proceed. If the applicant cap is waived, communities may see an increase in financing for projects not fully financed on the IUP listing.

D. Small Systems

Congress requires that 15% of the total amount of DWSRF funds be dedicated towards Small Systems, i.e., drinking water systems serving fewer than 10,000 customers. The total DWSRF funds expected to be available for 2022 is \$363 million. Fifteen percent of that amount is \$54.5 million. The IUP list contains thirteen small system projects totaling approximately \$118 million, which exceeds the 15% requirement. Therefore, Massachusetts expects to meet this requirement.

E. Set-Aside Activities

Congress allows states to apply set-asides from the DWSRF grant, and the supplemental BIL grants, to provide management of the program and technical assistance to Public Water Suppliers. MassDEP's objectives for DWSRF set-aside activities are included as Appendix A. For 2022, these set-aside activities include funds that will be earmarked for issues involving small water supply systems, local assistance for wellhead protection, capacity implementation, and program management and administration. Appendix A details how MassDEP intends to utilize these set-aside funds in FY 2022 to implement the federal SDWA.

III. SHORT- AND LONG-TERM GOALS

The following are the goals that Massachusetts has set for its DWSRF:

Short-Term Goals

- Finance highly ranked, construction ready, drinking water improvement projects.
- Prioritize projects that undertake full replacements of lead service lines.
- Prioritize projects that remediate PFAS in drinking water.
- Promote the asset management planning and cybersecurity best management practices by providing grants through the Trust's asset management planning grant program.
- Finance eligible projects addressing unanticipated problems of acute public health concern that arise during the year and constitute an imminent public health threat.

- Provide targeted outreach and engage with communities across the Commonwealth about SRF program benefits, priorities, and opportunities to improve water quality and reduce project costs.

Long-Term Goals

- Ensure that the DWSRF program remains accessible to assist communities across the Commonwealth to maintain compliance with the Safe Drinking Water Act, particularly communities with small systems.
- Identify and prioritize additional subsidy for projects in the IUP that serve Disadvantaged Communities.
- Ensure that water treatment projects financed through the SRF fully consider cost-effective energy efficiency measures and/or renewable energy strategies.
- Assist public water suppliers to finance projects to address the impact of climate change and resiliency concerns on the safe and continuous operation of the utility.
- Promote systematic Asset Management Planning for drinking water utilities to achieve long-term sustainability and deliver consistent service in a cost-efficient manner.
- Establish and efficiently manage a permanent source of financing for drinking water infrastructure to enhance and protect public health.
- Promote public engagement and program transparency by publishing informative and readily accessible program materials and reports.

IV. ALLOCATION OF FUNDS

A. Criteria and Method for Distribution of Funds

Massachusetts rates projects using the Commonwealth's priority ranking system. The criteria used to rank potential projects can be found on the MassDEP website at <http://www.mass.gov/eea/agencies/massdep/water/grants/state-revolving-fund.html>. The ranking system is reviewed annually to reflect changing priorities at MassDEP. The criteria emphasize the nature of the public health problem that the project will address, compliance with the Safe Drinking Water Act, project affordability, the extent to which the project is consistent with regional or watershed wide plans and the extent to which the project qualifies as a green project, a project that minimizes greenhouse gas emissions and energy use.

Once all projects have been rated and ranked, the PPL is developed (Table 3). With input from the Trust, MassDEP identifies all the sources of funds and spending limits and develops the IUP Project Listing (Table 1).

To be considered for financing, projects must meet State and Federal eligibility requirements, must be ready to proceed during the financing period, must have appropriated local funds necessary to finance the entire project, and have a MassDEP approved planning element. An approvable planning element can be a Project Evaluation Report, Integrated Water Resource Management Plan, or other MassDEP sanctioned planning document. Projects proposing to

replace lead service lines must ensure that lines will be replaced to the users' meters to preserve priority ranking. Furthermore, no community can receive financial assistance unless it can demonstrate that it has adequate technical, financial, and managerial capacity, as approved by MassDEP. Eligibility includes consistency with the assurances described in this document and the requirements contained within MassDEP's financial assistance regulations.

B. Project Bypass Procedure

A project on the IUP Project Listing may be bypassed if MassDEP determines that the bypassed project will not be ready to proceed during the financing period. Project(s) bypassed may be replaced by the highest ranked priority project(s) on the PPL that are ready to proceed, or the funds may be used to provide emergency financing, or for project cost increases to other projects approved previously. If complete loan applications are not received by MassDEP by **October 14, 2022**, the project will be automatically considered for bypassing.

The Trust and MassDEP will not add projects to the PPL/IUP beyond those that may qualify for emergency assistance. MassDEP, considering any material program change that would require amendments to this IUP, will provide public notice and an appropriate comment period before issuing an amended IUP.

C. Types of Projects to be Financed and Financing Rates

Any drinking water project of an eligible borrower is eligible to receive financial assistance from the Trust. Such eligible projects include, but are not limited to:

- Projects to address or prevent violation of public health standards, including projects to come into or maintain compliance.
- Projects to replace aging infrastructure, if such projects are needed to maintain compliance or further public health goals and requirements, including projects to rehabilitate or develop sources to replace contaminated sources, install or upgrade treatment or storage facilities, and install or replace transmission and distribution pipes to prevent contamination or improve water pressure to safe levels.
- Projects to consolidate and/or restructure a public water system.
- Planning and/or design of any eligible project.

Costs of construction that MassDEP determines as being necessary for the completion of the project are eligible for financing in the loan and to receive a subsidy under the loan, subject to the applicant cap. Costs for planning projects are eligible for financing during the 2022 financing period. Although costs for design are eligible, they will not be financed during this funding period due to the high demand for construction financing.

All projects on the IUP are eligible for 2% interest rate loans. Certain projects that are primarily for PFAS mitigation are eligible for 0% interest loans. A determination will be made as to the eligibility for 0% interest loans before the loan is permanently financed.

V. FINANCIAL MANAGEMENT

A. Source of State Match

Based on the anticipated 2022 DWSRF grant of \$16.5 million from USEPA, the required 20% state match equals \$3.3 million. In addition, it is estimated that for 2022, Massachusetts will receive \$41.7 million for the DWSRF Supplemental Grant. The required 10% state match equals \$4.17 million. These state match funds are provided to the Trust from the Commonwealth's Capital Plan.

B. Fee Income

The Trust charges an amount not to exceed \$5.50 per \$1,000 as a loan origination fee to offset the costs incurred during its bond issuances. Recipients of SRF loans are charged an annual administrative fee of 0.15% (15 basis points) against the outstanding loan principal to fund salaries and expenses of the Trust and MassDEP related to SRF project development and loan management. As of June 30, 2021, the Trust has a balance approximately \$51.5 million in its Administrative Account. The Trust's Administrative Account funds the 10% state management set-aside. Use of those funds is detailed in the attached Set-Aside plan (Appendix A).

C. Program Administration

The Commonwealth of Massachusetts intends to use the full 4% of the federal capitalization and supplemental BIL grant funds for administrative support of activities related to the DWSRF. Use of those funds is detailed in the DWSRF Grant Application that the Trust files each year with the USEPA and in the attached Set-Aside plan (Appendix A).

D. Anticipated Cash Draw Ratio

Massachusetts will draw 100% of the state match funds before drawing federal funds. This will ensure that Massachusetts remains in compliance with the required cash draw ratios.

E. Transfer of Funds Between CWSRF and DWSRF

Section 302 of the 1996 Safe Drinking Water Act Amendments allows states the flexibility to move funds between the Clean and the Drinking Water SRF programs, to better address specific state priorities. The USEPA allows an equivalent of up to 33% of the Drinking Water grant to be transferred between the CWSRF and DWSRF.

The CWSRF IUP capacity frequently allows Massachusetts to finance all the requested projects each year. Generally, half to a third of requested DWSRF construction projects go unfinanced. The level of federal grant funding of the DWSRF is insufficient to meet the need

for project financing. Transferring a limited amount of funds from the CWSRF to the DWSRF this year and in the future will help increase the overall capacity of the DWSRF and reduce the number of unfinanced projects without any impacts to the CWSRF IUP. Massachusetts will transfer non-federal funds from the CWSRF to the DWSRF program in the amount of \$19.2 million (33% of the 2022 DWSRF capitalization grant amount of \$16.5 million and the supplemental grant amount of \$41.7 million). Furthermore, Massachusetts reserves authority of future transfers of Supplemental BIL funds.

Furthermore, on September 30, 2020, under WIFTA's transfer authority, the Trust transferred \$30 million from the CWSRF to the DWSRF. The transfer will be used to provide added subsidies for eligible projects in the 2021, 2022, and possibly the 2023 DWSRF IUPs. Project activities eligible for this lead abatement loan forgiveness include planning and construction for lead removal, corrosion control capital improvements, and full replacements of lead service lines. WIFTA funds must be drawn down within 5 years of the date of the WIFTA transfer. The Trust evaluated the financial impact that the transfer will have on the CWSRF and determined it will not adversely impact the Trust's ability to finance high priority CWSRF projects.

BIL allows states the flexibility to move funds between the CWSRF and the DWSRF programs. Due to great demand for PFAS remediation in drinking water projects, Massachusetts will transfer \$3.17 million of CWSRF Emerging Contaminant supplemental funds to the DWSRF Emerging Contaminant program (100% of the grant amount). This transfer will not adversely impact the CWSRF project financing in the 2022 IUP.

F. Estimated Sources and Uses

The sources of funds available to the Massachusetts DWSRF include the federal capitalization grant, the federal supplemental BIL grants, state match and borrower loan repayments. The Trust may leverage these funds up to 3 times. Under this authority, the Trust will finance approximately \$363 million of DWSRF eligible projects.

G. Additional Subsidy and the Disadvantaged Communities Program

As required in federal law applicable to the 2022 DWSRF capitalization grant, a minimum of 26% additional subsidy shall be provided, and no less than 12% of the grant and no more than 35%, to Disadvantaged Communities, provided eligible applicants exist. In the 2022 DWSRF IUP, Massachusetts intends to disburse a minimum of \$4.3 million of the capitalization grant in additional subsidy to eligible projects. In addition, Massachusetts expects to receive \$41.7 million for the Supplemental DWSRF Grant, \$65.8 million for the Lead Service Line Grant and \$20.7 million for the Emerging Contaminants Grant focusing on PFAS. Each of these grants requires that Massachusetts provide a portion of the funding as loan forgiveness. The Supplemental DWSRF Grant requires that \$20.5 million, or 49% of the total grant, be provided as loan forgiveness to Disadvantaged Communities. The Lead Service Line Grant requires that \$32.2 million, or 49% of the total grant, be provided as loan forgiveness to Disadvantaged Communities. The Emerging Contaminants Grant requires

that the full amount, \$20.7 million, net of set asides taken, of the grant be provided as loan forgiveness and that at least 25% of the grant be directed to Disadvantaged Communities.

VI. Program Management

A. Assurances and Special Conditions

MassDEP and the Trust have provided the required assurances and certifications as part of the Operating Agreement (OA) between Massachusetts and the USEPA. The OA describes the mutual obligations among USEPA, MassDEP and the Trust. The purpose of the OA is to provide a framework of procedures to be followed in the management and administration of the DWSRF.

Title XIV of the Federal Safe Drinking Water Act amendments of 1996 and subsequent regulations and guidance require that the Commonwealth certify compliance with or acceptance of a number of conditions. These include compliance with the applicable provisions of s. 1452, State Revolving Loan Fund, as follows:

- **Environmental Reviews:** DWSRF borrowers are required to meet the standards of the National Environmental Policy Act (NEPA) or a State equivalent. Some projects, owing to their relatively minor environmental impacts, if any, do not trip the threshold of the Massachusetts Environmental Policy Act (MEPA) and are therefore not subject to the rigorous environmental review process set forth in MEPA. The Commonwealth reasons that these projects are categorically exempt from the NEPA review process as well. A planning level review of each of the eligible projects concludes that since these projects almost uniformly are the upgrade or rehabilitation of existing infrastructure, most will not usually require MEPA review. A final determination of project relevancy under MEPA cannot be made until the preliminary design phase of work is complete on each project.
- **Binding Commitments:** The DWSRF will enter binding commitments for 120 percent of each quarterly grant payment within one year of receipt of the payment.
- **Expeditious and Timely Expenditures:** The DWSRF will expend all funds in the DWSRF in a timely manner.
- **Set-Aside Programs.** The Commonwealth will conduct set-aside activities consistent with the plan provided as Appendix A to this document.

B. Federal Requirements

A number of federal requirements apply to DWSRF projects in an amount equal to the capitalization grant including:

- Single Audit Act (2 CFR 200 Subpart F)
- Federal Funding Accountability and Transparency Act (FFATA) reporting
- Disadvantaged Business Enterprise compliance (all projects)
- Federal environmental crosscutters (all projects)
- Project signage to enhance the public awareness
- Ineligible Costs: any costs that are prohibited including but not limited to: 2 CFR

200.216, Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment.

MassDEP and the Trust will identify the group of projects that must comply with these requirements in the USEPA grant application. Frequently, the group of projects changes as projects move towards construction, usually due to attrition. If changes are made to the group of projects, appropriate amendments to the grant application will be made.

In addition, the SDWA requires that states meet specific mandates or risk losing a portion of their federal grant. Failure to implement a Capacity Development Program and/or Operator Certification Program that are at least as stringent as the federal guidelines will result in a state losing up to 20% of their Capitalization Grant each year. MassDEP will comply with the capacity development authority, capacity development strategy, and operator certification program provisions.

C. Davis-Bacon Wage Rates

The USEPA's FY2022 Appropriations bill requires the application of Davis-Bacon prevailing wage rates to all drinking water projects funded in whole or in part by the DWSRF. MassDEP ensures that the required Davis-Bacon language is included in contracts and conducts field verifications of project compliance with the wage rate requirements.

D. American Iron and Steel and the Build America, Buy America Act

On November 15, 2021, the Bipartisan Infrastructure Law made the American Iron and Steel (AIS) procurement requirement permanent for *all* DWSRF construction projects going forward. Furthermore, BIL extends this procurement requirement to *all* DWSRF construction projects going forward with the inclusion of the **Build America, Buy America Act (BABA)**. Starting on May 14, 2022, all steel, iron, manufactured products, non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber, and drywall used in infrastructure projects for federal financial assistance programs must be produced in the United States. MassDEP ensures that the required procurement language is included in contracts and conducts field verifications of project compliance. Appropriate AIS and BABA language has also been included in the Project Regulatory Agreement and the Financing Agreement.

E. Audits and Reporting

MassDEP and the Trust will comply with all the auditing and reporting requirements of the USEPA. A single audit is conducted annually and reporting to the USEPA is done through the Office of Water State Revolving Fund (OWSRF) data system, Biennial Report and FFATA reporting.

VII. Public Review and Comment

Notice of the availability of the Draft Calendar Year 2022 IUP/PPL was be made on February 18, 2022. Pursuant to the provisions for adequate alternative public access to agency hearings, set forth in Section 20 of Chapter 20 of the Acts of 2021, an Act Extending Certain COVID-19 Measures Adopted During the State of Emergency, a public hearing on the Draft IUP took place virtually on March 22, 2022. Records of the testimony received will be maintained in MassDEP's files. MassDEP took into consideration the testimony received to finalize this IUP.

TABLE 3
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2022 DWSRF Project Priority List

NEW PROJECTS

Rating	Applicant	PWSID	Pop.	SRF ID	Project	Project Cost
547	BOSTON WATER AND SEWER COMMISSION (H)(L)(LR)	3035000	617594	7185	Elimination of Lead Water Services in Boston	\$28,039,539
546 *	LEICESTER WATER SUPPLY DISTRICT (PF)	2151000	3200	7051	Water System Interconnection with Worcester	\$4,800,000
545 *	PALMER (PF)	1227003	3258	6958	Water Storage Tanks Mitigation and Restoration	\$1,500,000
541	SCITUATE (S)	4264000	19760	6985	Stearn's Meadow Water Treatment Plant	\$35,000,000
540	AMHERST (BC)(PF)(H)#	1008000	37819	7036	Centennial Water Treatment Plant Replacement	\$14,000,000
535	SOMERSET (PF)	4273000	18165	7134	Booster Pump Station & High Service Area Rehab	\$3,300,000
535	NEW BEDFORD (PF)(L)(LR)	4201000	95072	7168	Lead Service Line Replacement Program	\$16,170,000
529 *	BLANDFORD (PF)	1033000	874	6975	Water Treatment Plant Upgrade	\$350,000
529	CONCORD (S)	3067000	16605	7059	Nagog Pond Water Treatment Plant	\$28,037,000
527	LOWELL (PF)(H)(L)(LR)	3160000	106519	7106	Lead Services Replacement Project	\$3,930,929
527	NORTH ATTLEBOROUGH (PF)(H)(EC)	4211000	28712	6956	McKeon WTF PFAS Treatment Facility	\$9,250,000
525	BURLINGTON (H)(EC)	3048000	26444	7245	Mill Pond Water Treatment Plant - PFAS	\$15,000,000
525	ABINGTON-ROCKLAND JOINT WATER WORKS (PF)(EC)	4001000	33404	7152	Hannigan and Myers Avenue WTP PFAS Treatment	\$26,672,000
525	SHARON (EC)	4266000	16528	6942	Production Well 4 PFAS Treatment	\$15,800,000
525	MANSFIELD (PF)(H)(EC)	4167000	24113	7040	Walsh Well PFAS Treatment System and Well Upgrades	\$6,740,000
520 *	TOWNSEND (PF)(EC)	2299000	6500	6964	PFAS Water Treatment Improvements	\$14,090,000
520 *	COHASSET (EC)	4065000	7622	7169	GAC Treatment and Chlorine System Upgrades	\$4,035,000
519 *	EASTHAM (BC)(PF)	4086095	4904	7047	Eastham Water System - Phase 2E	\$15,624,375
517	SUDBURY (H)(EC)	3288000	18563	7156	Raymond Road Water Treatment Plant PFAS Treatment	\$6,438,600
516 *	BARNSTABLE FIRE DISTRICT (PF)(H)(EC)	4020000	5236	7128	Water Filtration Plant Construction - Wells 2 & 5	\$16,350,000
516 *	HOPEDALE (PF)(EC)	2138000	5966	7201	Greene Street WTP PFAS Treatment	\$3,523,100
514 *	MEDWAY (H)(S)	2177000	9654	7196	Medway - Populatic St. Water Treatment Plant	\$21,412,000
513	NANTUCKET (H)(EC)	4197000	27703	7011	Water System Expansion West of Nantucket Airport	\$7,800,000
449	NEW BEDFORD (PF)(S)#	4201000	95072	7172	Quittacas Water Treatment Plant Upgrades	\$23,637,500

445	NEW BEDFORD (PF)	4201000	95072	7173 Highway Bridge Crossing Replacement Project	\$6,300,000
444	FITCHBURG (PF)	2097000	40545	7001 Oak Hill Water Storage Tank Replacement	\$2,750,000
443	SPRINGFIELD WATER AND SEWER COMMISSION (PF)	1281000	228554	6998 42 inch Raw Water Conduit Repair	\$7,908,700
440	TAUNTON (PF)(H)	4293000	58088	7179 Assawompset Pumping Station Improvements	\$1,220,000
439	FALL RIVER (PF)(H)	4095000	89541	7093 WTP Redundant Pipeline	\$4,647,500
436	BROCKTON (PF)(H)	4044000	95594	7189 Transmission Main Replacement Project	\$11,000,000
432	LOWELL (PF)(H)	3160000	106519	6957 Lowell High Pressure Zone Interconnection	\$4,435,000
430	FALL RIVER (PF)(H)	4095000	89541	6988 Wilson Road Booster Pumping Station	\$2,167,000
427	HAVERHILL (PF)(H)	3128000	60769	7144 Phase 3B - Transmission Main Improvements	\$5,810,000
427	MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	7218 Section 23, 24, 47 Water Mains Rehab	\$14,700,000
425 *	BELCHERTOWN (PF)(H)	1024002	600	7183 Pine Valley Plantation Water System Replacement	\$4,543,000
425	ANDOVER (H)	3009000	33201	6978 Phase 1 Water Transmission Main Improvements	\$9,229,440
423	WINTHROP (PF)	3346000	17497	7102 Revere Street PRV Station Improvements	\$1,633,750
423	LAWRENCE (PF)(H)	3149000	80162	7209 Tower Hill Transmission Main Redundancy	\$1,628,000
421 *	EAST BROOKFIELD (PF)	2084000	1526	6965 Water Storage Improvements	\$9,545,000
418 *	GEORGETOWN (D)	3105000	8766	6966 Water Treatment System Improvements	\$0
413 *	ESSEX	3092000	3200	7178 Town of Essex's Water Treatment Plant Upgrade	\$2,640,800
321	BILLERICA (PF)(H)	3031000	43367	6949 Phase 1 Water Main Replacement	\$9,325,000
321	TEWKSBURY (PF)(H)(L)(LR)	3295000	31044	7043 Tewksbury AC Water Main Replacement Project	\$6,468,000
318	CHICOPEE (PF)	1061000	55126	6976 South Fairview Water Main Replacement - Phase A	\$5,156,000
315 *	WEST BOYLSTON (PF)	2321000	7524	7182 Lee St Water Main Replacement	\$837,000
313	AGAWAM (PF)	1005000	28613	7094 Belvidere & Brookline Water Main Replacement	\$2,060,000
313 *	AVON (PF)	4018000	4292	7098 Phase 1B Water Main Improvements Project	\$1,238,000
313	AGAWAM (PF)	1005000	28613	7113 Northeast Area Water Main Replacement	\$6,178,000
313 *	LINCOLN (H)	3157000	5640	7120 Water Main Replacement	\$3,388,000
244	FITCHBURG (PF)	2097000	40545	7146 Meetinghouse Gatehouse Rehabilitation	\$2,000,000
240	TAUNTON (PF)(H)	4293000	58088	7151 Water Meter Replacement Project	\$8,000,000
237	LOWELL (PF)(H)	3160000	106519	6983 Lowell Regional Water Utility Lagoon Construction	\$4,020,500
237	FALL RIVER (PF)(H)(L)(LR)	4095000	89541	6989 Water Main Improvements - Phase 22	\$4,715,250
236	TAUNTON (PF)(H)	4293000	58088	7224 Prospect Hill New Storage Tanks	\$14,950,000

236	TAUNTON (PF)(H)	4293000	58088	7186 Prospect Hill Reservoir Cover Replacement	\$2,400,000
235	NEW BEDFORD (PF)	4201000	95072	7164 Hathaway Road HSA Improvements	\$25,760,000
231	ANDOVER (H)	3009000	33201	7215 Water Treatment Plant Upgrades	\$14,868,500
229 *	ADAMS FIRE DISTRICT (PF)	1004000	8100	7028 Well 3 PS Upgrade	\$1,625,000
228	LAWRENCE (PF)(H)	3149000	80162	7192 Water Treatment Plant & Source Improvements	\$4,647,819
227	HAVERHILL (PF)(H)	3128000	60769	7026 Booster Pump Station Improvements	\$3,075,000
227	BOSTON WATER AND SEWER COMMISSION (H)	3035000	617594	7080 2022 Water Works Improvements City-wide	\$42,251,400
227	ANDOVER (H)	3009000	33201	7149 North Reading Transmission Main Improvements	\$5,237,100
227	HAVERHILL (PF)(H)	3128000	60769	7166 Haverhill Fixed Network Meter	\$13,749,800
227	MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	7242 Clean & Line Sect 47, 59 & 60 - CP-3	\$11,500,161
225	MATTAPOISETT RIVER VALLEY WATER DISTRICT	4173001	29600	7068 Water Treatment Plant Ultrafiltration System	\$3,877,500
225	FRANKLIN (H)	2110000	10925	7092 Hillside Tanks No. 1 and No. 2 Replacement	\$7,343,000
225	MANSFIELD (PF)(H)	4167000	24113	7065 Dustin-Prescott Replacement Wells & Water Main Int	\$3,580,000
223	KINGSTON (PF)	4145000	14131	7228 New Well Source - Kelleher Property	\$2,465,000
222	ANDOVER (H)	3009000	33201	7109 Chandler Road Water Main Improvements	\$2,372,220
221	BILLERICA (PF)(H)	3031000	43367	6948 Crosby Hill Tank Replacement Project	\$2,242,500
220 *	DIGHTON WATER DISTRICT (PF)	4076000	4912	6968 Brook Street Well Acquisition	\$6,000,000
220 *	HOPEDALE (PF)	2138000	5966	7157 Hopedale Water Storage Tank	\$2,660,000
219	METHUEN (PF)(H)	3181000	50706	7101 Granite Street Pump Station & Emergency Upgrades	\$5,663,000
218 *	AVON (PF)	4018000	4292	7027 Interconnection Pump Station	\$1,564,000
217	ANDOVER (H)	3009000	33201	6980 Water Main Improvements - Columbia Gas Recovery	\$6,371,000
217	METHUEN (PF)(H)	3181000	50706	7006 Forest Street Tank Rehabilitation	\$3,145,000
216	LAWRENCE (PF)(H)	3149000	80162	7060 Lawrence Water Main Improvement	\$7,037,255
215 *	MILLIS (PF)	2187000	8729	7197 Walnut St Booster Station & Water Main Replacement	\$1,418,133
213	KINGSTON (PF)	4145000	14131	7211 Main Street Water Main Replacement	\$1,612,000
213 *	PLAINVILLE (H)	4238000	9230	7213 Downtown Distribution System Improvements	\$6,868,745
213 *	AVON (PF)	4018000	4292	7095 Phase 1A Water Main Improvements Project	\$2,003,000
211	MILTON	3189000	27003	7031 Water Main Replacement	\$2,030,000
210 *	DOUGLAS (PF)	2077000	3855	6991 Water Main Replacement	\$7,430,290

207	METHUEN (PF)(H)	3181000	50706	7052 Arlington Neighborhood Water Main Replacement	\$9,072,000
205	SAUGUS (PF)	3262000	23757	7045 Oceanview Avenue Water Booster Station	\$390,000
205	WINTHROP (PF)(L)(LR)	3346000	17497	7062 Revere,Crest,& Grovers Ave. St. Dist. Improvements	\$2,912,000
205 *	PAXTON (PF)	2228000	4092	7154 West Street Water Main	\$2,313,500
150	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(RE)	1281000	228554	7077 WTP Electrical Upgrade & Hydropower	\$16,765,000
127	ANDOVER (H)	3009000	33201	6996 SCADA Upgrades	\$1,680,800
TOTAL OF NEW PROJECTS					\$713,924,706

(Count: 89)

(Average Rating: 350.03)

* - Small System

(BC) - Base Capitalization

(D) - Dropped by Applicant

(EC) - DWSRF Emerging Contaminants

(H) - Housing Choice Communities

(L) - Water Infrastructure Funding Transfer Act (WIFTA) Projects

(LR) - DWSRF Lead Service Line Replacement

(PF) - Disadvantaged Community

(RE) - Potential Renewable Energy Projects

(S) - DWSRF Supplemental

- Projects contains Energy Efficiency, Renewable Energy and/or meets EPA's definition of a Green Project (<https://www.epa.gov/greeningepa/energy-and-emissions-epa>)

MassDEP PRIORITY PROJECTS

Applicant	SRF ID	Project	Project Cost
EMERGENCY SRF SET-A-SIDE	2978		\$5,000,000
TOTAL OF MassDEP PRIORITY PROJECTS			\$5,000,000

(Count: 1)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	PWSID	Pop.	SRF ID	Project	Project Cost
BRAINTREE #(RE)(PF)(EC)	4040002	25	7258	Tri-Town Regional Water Treatment Plant	\$25,000,000
HOLBROOK #(RE)(PF)(EC)	4040002	25	7259	Tri-Town Regional Water Treatment Plant	\$25,000,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	4119	SEH Redundancy and Storage	\$49,297,289
MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	4564	Weston Aqueduct Supply Main Rehabilitation	\$19,382,850
MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	6691	Northern Intermediate High Section 89 Replacement	\$32,619,000
RANDOLPH #(RE)(PF)(EC)	4040002	25	7260	Tri-Town Regional Water Treatment Plant	\$25,000,000
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS					\$176,299,139

(Count: 6)

PLANNING PROJECTS

Applicant	SRF ID	Project	Project Cost
BILLERICA (H)	6938	Raw Water Intake/Transmission Main Study	\$500,000
BILLERICA (H)	6947	Treble Cove Booster Pump Station Study	\$100,000
BLANDFORD	7076	Water System Capital Improvement Plan	\$44,500
BLANDFORD	7204	Water Main Replacement & Storage Evaluation	\$75,000
BROCKTON (H)(L)(LR)	7187	Lead Service Line Replacement Program - Phase I	\$600,000
LEICESTER	7008	Moose Hill Reservoir—DEP New Source Approval	\$636,000
LEICESTER WATER SUPPLY DISTRICT	7115	Groundwater Source Investigations	\$200,000
MILLIS (L)(LR)	7082	Millis Lead Service Inventory & Replacement Plan	\$139,000
NEW BEDFORD	7240	Phase 5 - Transmission Main Inspection Program	\$7,050,000
NEW BEDFORD (L)(LR)	7181	Lime to Caustic Evaluation	\$200,000
ROCKPORT (L)(LR)	7159	Lead Services Inventory & Replacement Plan	\$176,600
WAYLAND (L)(LR)	7174	Lead Service Line Inventory and Replacement Plan	\$139,200
TOTAL OF PLANNING PROJECTS			\$9,860,300

(Count: 12)

TOTAL OF PROJECT PRIORITY LIST **\$905,084,145**

TABLE 4
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2022 DWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost
98	TEMPLETON	7071	Templeton Municipal Light & Water Plant AMP	\$120,000
92	TAUNTON (H)	7222	Taunton Water Asset Management Plan	\$194,264
90	FALL RIVER (H)	7170	Water System Geodatabase and Mapping	\$250,000
90*	LINCOLN (H)	7073	Lincoln Water Asset Management Plan	\$111,250
76	CHELMSFORD WATER DISTRICT	7010	Horizontal Asset Management Program	\$412,575
73	ABINGTON-ROCKLAND JOINT WATER WORKS	7131	ARJWW Asset Management	\$93,750
70*	AVON	7057	Avon Cybersecurity and Continuity Asset Management	\$249,277

TOTAL OF ASSET MANAGEMENT PLANNING PROJECTS

\$1,431,116

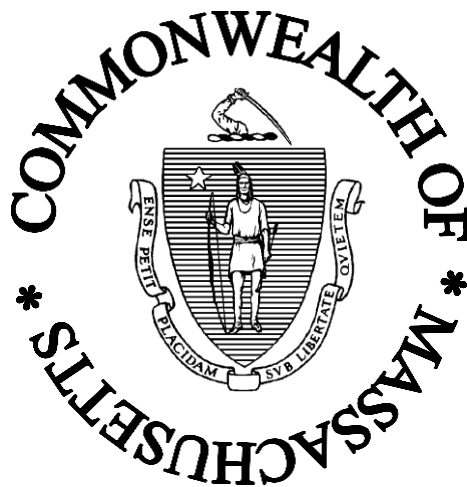
(Count: 7)

* - Small System

TOTAL OF PROJECT PRIORITY LIST

\$1,431,116

APPENDIX A



DRINKING WATER STATE REVOLVING FUND (DWSRF)

Intended Use Plan - Fiscal Year 2022 Set-aside

Funds Authorized Under the Federal
Safe Drinking Water Act

Information on Set-asides

The State of Massachusetts plans to set aside \$7,917,620 (31% of \$25,550,000 - FY2021 Amended Amount) of the Capitalization Grant for various non-construction related activities that are authorized in the Safe Drinking Water Act Amendments of 1996. These activities are often vital to water systems so that they can develop and maintain the financial, technical, and managerial capacity to run their system effectively. A portion of the set-aside money will be used to develop and implement programs within state government necessary to implement the DWSRF and the SDWA Amendments of 1996.

The SDWA provides guidance for a variety of uses of the set-aside money. The set-aside money will be placed in separate accounts outside the Project Fund. The SDWA allows for transfers between the set-aside accounts and are the current best estimates of the funds required to complete the programs and projects described in the IUP. Transfers of funds between accounts and projects in accordance with EPA requirements will be made as necessary to accomplish the programs and projects described and efficiently and effectively use the available funds. The SDWA limits the percentage of the capitalization grant that can be used in each of these set-asides and whether the set-aside funds can be “banked” or reserved for future use.

I. 4% DWSRF ADMINISTRATION – 5 FTEs

MassDEP anticipates applying for the full 4% (\$1,021,040) from FY 2021 SRF Capitalization Grant for DWSRF Program Administration. These funds will be combined with any remaining prior year funds in order to provide comprehensive DWSRF program assistance. Duties may include (but not be limited to):

A. MANAGE DWSRF COORDINATION of projects and liaison with the Massachusetts Water Pollution Abatement Trust.

B. OVERSEE ADMINISTRATION AND MANAGEMENT of the DWSRF Priority List/Intended Use Plan process and fiscal administrative aspects of the set-asides, such as grant application and fiscal reporting, and coordinate with the Drinking Water Program in regard to the set-asides.

C. SUPPORT, CONDUCT, AND ANALYZE SRF PROJECT APPLICATIONS AND PROJECT REVIEWS

4% Set-Aside Deliverables

Coordination of all DWP Source Protection and Technical Services Activities

Set-Aside IUP and Work Plan Sections that Reflect Drinking Water Program Needs and Priorities

Oversight of DWSRF Loans and Grants

4% Set-Aside Measures of Success

Drinking Water Source Protection and Technical Services Section activities that support Drinking Water Program goals and priorities and are coordinated with the DWSRF

Set-Aside activities achieve stated deliverables and measures of success that are consonant with Drinking Water Program objectives.

Award of loans and grants in a timely manner

II. 2% FOR SMALL SYSTEMS SET-ASIDE- (3 FTEs)

MassDEP anticipates applying for the full 2% (\$511,000) from FY 2021 SRF Capitalization Grant for small systems technical assistance. These funds will be combined with any remaining prior year funds in order to provide comprehensive technical assistance to small public water systems. Duties may include (but not be limited to):

A. STAFFING TO SUPPORT SAFE DRINKING WATER ACT COMPLIANCE (3 FTEs)

In providing technical assistance in support of Small System Capacity Development. FTEs will continue to be provided in the region to follow up with individual small systems on specific compliance issues and other system operation issues.

B. CONTRACTED SERVICES –TECHNICAL ASSISTANCE:

MassDEP will fund a contractor (s) to provide a variety of direct technical, financial and managerial assistance to small drinking water system. Priority given to disadvantaged communities. Activities will focus on the Safe Drinking Water Act requirements and Massachusetts Drinking Water Regulations and creating an environment of transparency with the DWP Data. The proposed activities may include (but not be limited to): Asset management planning, engineering assistance and evaluations, loan application assistance, emergency response, cyber security, leak detection and well identification. Trainings may include Very Small System Operator Training, Cyber Security, Annual Statistical Reporting, Emerging Contaminants, Cross Connection Control, Opening and Closing a Seasonal System, Regulatory Updates, pump and motor maintenance, rate setting, disinfection, sampling, and exam review. Trainings must meet the requirements established by Division of Licensure (DOL) and can include classroom, self-guided and on-line. Funds may be combined with Contracted Services identified in 15% set aside.

All activities are subject to change and are dependent upon the availability of funding.

2% Set-Aside Deliverables:

- On-site training and support to Public Water Suppliers.
- Perform TNC compliance assistance sanitary surveys and provide Groundwater Under the Influence evaluations.
- Technical assistance given to targeted systems that have specific SDWA treatment compliance issues
- Technical assistance to public water systems on GWR.
- Reviews of technical reports related to water supply technology and analysis.
- Technical reviews of state initiatives such as disinfection byproduct treatment or groundwater disinfection.
- Supervision of technical staff and training programs for suppliers.
- Technical reviews of major water quality projects and public health data.
- Information for the public and for water suppliers on major water quality problems.
- Seminars on SDWA Topics.
- Establishment and operation of mentoring groups.
- Training sessions (with credits) providing Certified Operator Training.

2% Set-Aside Measures of Success:

- Compliance issues are successfully addressed in the targeted systems.
- Completion of planned capacity sanitary survey visits.
- Effective technical assistance given as scheduled.
- Each group seminar will be followed by an evaluation form to be filled out by participants to assess the efficacy of the seminar. Evaluation of the results will be considered as part of the contract assistance, and provided to the MassDEP staff responsible for implementing

training initiatives and reporting on Capacity Development, for their assessment and future planning. Evaluation of all training and assistance will consider the success of recruiting recalcitrant and high-priority systems.

- Reports reviewed as scheduled.

III. 10% FOR STATE PROGRAM MANAGEMENT – 8.5 FTEs

MassDEP anticipates applying for the full 10% (\$2,552,600) from FY 2021 SRF Capitalization Grant for Program Management. The State Program Management Set-aside is used to fund: A) Administrative assistance to the PWSS program; B) Technical assistance for source water protection activities; C) Assistance for capacity development initiatives; D) support for state operator certification program; E) Public Water System data management; F) Technical assistance for emerging contaminants and Rules. G. Indirect charges

A. PWSS SUPPORT – 4.5 FTEs

The money will provide funding for approximately 4.5 FTEs and their associated operating costs. Duties of the FTEs include capacity development, consumer confidence report assistance, adoption and implementation of new regulations, implementation of new and existing federal rules, source water assessments and protection, planning, outreach, data management, engineering and construction supervision, compliance supervision and other drinking water program activities.

B. SOURCE PROTECTION SUPPORT – 1 FTEs

The Source Protection function has been integrated into the general drinking water program activities. MassDEP is still funding 3 FTEs worth of this work from the 10% set-aside, but the source protection tasks are now distributed among more individuals and reaching more PWS. It also includes implementing the chemical monitoring waiver program which provides incentive to do source protection as well as promoting preparedness and sustainability.

C. CAPACITY DEVELOPMENT SUPPORT – 2.0 FTEs

MassDEP has designated specific regional staff as capacity development specialists. The Drinking Water Program has discerned that it is more productive to train all staff that do Sanitary Surveys in the elements of Capacity Development. The Drinking Water Program will focus on promoting the following four elements during the coming year;

1. Asset Management
2. Cyber Security
3. Water Quality
4. Emerging Contaminants

D. OPERATOR CERTIFICATION SUPPORT – 1 FTEs

The MassDEP has a very active operator certification program. The program activities have been integrated into daily activities of staff. Program activities range from chairing the Board of Certification of Drinking Water Operators to providing general and specialized training of and guidance for drinking water operators at all levels.

E. CONTRACT SERVICES- PUBLIC WATER SYSTEM INFORMATION MANAGEMENT

MassDEP will fund Information Technology (IT) staff to assist with data management support for programs related to public water systems and implementation of the Safe Drinking Water Act. Key activities include reporting and database maintenance and improvement. All activities are dependent upon the availability of funding.

F. CONTRACTED SERVICES – PUBLIC WATER SYSTEM TECHNICAL ASSISTANCE:

MassDEP will fund a third-party contractor to provide technical assistance support to the DWP and PWS. Activities will focus on the Safe Drinking Water Act requirements and Massachusetts Drinking Water Regulations and support for electronic submission of data to DWP. The proposed activities may include (but not be limited to) the following: Supporting PWS and DEP in submittal of Annual Statistical Report and Water Quality Monitoring Reports. Development of training programs to support DWP staff and PWS in the proper submission of electronic data.

G. MASSDEP INDIRECT CHARGES ON MATCH FOR 10% PROGRAM MANAGEMENT ACTIVITIES

The Commonwealth intends to completely meet the one-to-one match required through in-kind services incurred by MassDEP through the administration costs that were incurred during the periods of fiscal years 1993 and 2018. Detailed documentation will be provided upon request.

IV. 15% -SOURCE WATER PROTECTION AND CAPACITY DEVELOPMENT – 24.7 FTEs

MassDEP anticipates applying for the full 15% (\$3,832,350) from FY 2021 SRF Capitalization Grant for Source Water Protection and Capacity Development. The authorized activities under this set-aside can include; land acquisition and conservation easement program, source water protection, wellhead protection and technical and financial capacity implementation. (24.7) FTE's and contracted services.

A. WELLHEAD PROTECTION AND CAPACITY IMPLEMENTATION-21 FTEs

1. Assist with source protection program activities related to groundwater sources, as well as operation of the UIC program (a.k.a. "Underground Source Water Protection Program"). Ensure consistency of this work among regions; coordinate with GIS and Internet programs; coordinate with other MassDEP programs; investigate available data for usefulness to groundwater protection; and develop relevant policies and procedures.
2. Develop and maintain spatial data related to public water sources and potential contamination threats. Work with regional staff and resources to locate regulated facilities including locating information in files and making site visits to collect location information. Assist with GIS management.
3. Assist in Zone II delineation (and re-delineation as needed) and other wellhead protection-related work.
4. Provide technical assistance on source protection to public water suppliers and local officials, and assist with the source water assessment program and with protection of groundwater sources from contamination by septic systems. This includes providing system-specific protection recommendations.

5. In accordance with the Capacity Strategy, provide technical assistance in implementing capacity development, including the ability to provide adequate quantities of source water. Provide Capacity Outreach.
6. Provide assistance, primarily with protection of groundwater sources.

B. CONTRACTED SERVICES –TECHNICAL ASSISTANCE:

MassDEP will fund a contractor (s) to provide a variety of direct technical, financial and managerial assistance to public water systems. Priority given to disadvantaged communities. Activities will focus on the Safe Drinking Water Act requirements and Massachusetts Drinking Water Regulations.

The proposed activities may include (but not be limited to): Lead and Copper Rule Revisions (LCRR) Unregulated contaminants, water quality reports review, including PFAS/PFOA, Total Coliform Rule (RTCR), Disinfection By Products reduction, compliance,

Contractor may provide trainings that may include Very Small System Operator Training, Cyber Security, Annual Statistical Reporting, Emerging Contaminants, Cross Connection Control, Opening and Closing a Seasonal System, Regulatory Updates, pump and motor maintenance, rate setting, , disinfection, sampling and exam review. Trainings must meet the requirements established by Division of Licensure (DOL) and can include classroom, self-guided and on-line. Regulatory Updates, Sampling sites review. Funds may be combined with Contracted Services identified in 2% set aside.

C. CONTRACTED SERVICES – Statewide Well Location Parcel Matching

MassDEP will fund a contractor(s) to continue work associated with well completion report parcel matching and spatial data improvements to well locations in Massachusetts. Activities will focus on the Safe Drinking Water Act requirements and Massachusetts Drinking Water Regulations in protecting the groundwater quality in the Commonwealth by acquiring as many accurate locations as possible for the 200,000+ wells currently housed in the Well Driller database. All activities are subject to change and are dependent upon the availability of funding.

D. CONTRACTED SERVICES – Hydrogeological Services

MassDEP will fund a contractor(s) to continue work associated with assisting the Drinking Water Program with SDWA source approval/ hydrogeologic reviews. Activities will focus on the Safe Drinking Water Act requirements and Massachusetts Drinking Water Regulations in protecting the groundwater quality and quantity in the Commonwealth by reviewing the hydrogeologic components of New Source Approvals, Zone II delineations, Groundwater Discharge Permits near Public Water Supplies, and potential contamination threats to Public Water Supplies. All activities are subject to change and are dependent upon the availability of funding.

All activities are subject to change and are dependent upon the availability of funding.

15% Set-Aside Deliverables

- UIC program operating under State Primacy
- Spatial data, maps.
- Zone II Reviews
- On-Site training and support to water suppliers
- UIC tracking and reports
- Outreach materials, technical assistance meetings, training for regions, and bylaw reviews.

- Implementation of water conservation capacity improvement grant program.
- Implementation of Capacity Development program.
- Implementation of the Source Water Protection program.
- Plan for implementation of the Lead and Copper Rule Revisions (LCRR)

15% Set-Aside Measures of Success:

- Improved source protection for ground water sources at state and local levels
- GIS databases are properly reviewed and maintained
- Reviews are conducted in a timely manner
- Contract oversight is effective
- Technical Assistance is appropriate and timely and leads to improved source and aquifer protection in the systems visited
- Methods to assure capacity to deliver adequate quantities of drinking water are developed
- Program goals meet MassDEP objectives
- Improved protection at the local level

IUP SET ASIDE BUDGET

Administrative Set Aside 4%

Source of Funds	
Unexpended Prior Years	\$876,230
Current Year - SFY22	\$144,810
	\$1,021,040

Expenses	
Salary	\$1,008,256
Equipment	\$6,500
Travel	\$2,000
Supplies	\$4,284
Total Requested	\$1,021,040

Small Systems 2%

Source of Funds	
Unexpended Prior Years	\$189,811
Current Year - SFY22	\$510,980
	\$700,791

Expenses	
Salaries	\$574,391
Contracts	\$115,000
Travel	\$2,500
Supplies	\$8,900
Total requested	\$700,791

State Program Management Set-Asides 10%

Source of Funds	
Unexpended Prior Years	\$0
Current Year - SFY22	\$2,552,600
	\$2,552,600

Expenses	
Salaries	\$1,549,538
Contracts	\$540,000
Travel	\$2,000
Supplies	\$12,977
Unprogrammed	\$448,085
Total Requested	\$2,552,600

Local Assistance Set-Aside 15%

Source of Funds	
Unexpended Prior Years	\$946,701
Current Year - SFY22	\$3,832,350
	\$4,779,051

Expenses	
Salaries	\$4,332,810
Contracts	\$435,307
Travel	\$3,934
Supplies	\$7,000
Total Requested	\$4,779,051

TOTAL FUNDS

Unexpended Prior Years	\$2,012,742
Current Year - SFY22	\$7,040,740
	\$9,053,482

TOTAL EXPENSES

Salaries	\$7,464,995
Contracts/Equipment	\$1,096,807
Travel	\$10,434
Supplies	\$33,161
Unprogrammed	\$448,085
Total Requested	\$9,053,482