

**BOARD OF WATER & WASTEWATER COMMISSIONER'S
MEETING AGENDA***
Harwich Water Department, 196 Chatham Road, Harwich MA
Thursday, January 26, 2023
11:30 a.m.

**As required by Open Meeting Law, you are hereby informed that the Town will be video and audio taping as well as broadcasting this public meeting. In addition, anyone in the audience who plans to video or audio tape this meeting must notify the Chairman prior to the start of the meeting.*

- I. CALL TO ORDER
- II. EXECUTIVE SESSION
- III. PUBLIC COMMENTS / ANNOUNCEMENTS
- IV. CONSENT AGENDA
 - A. Minutes
 - 1. November 30, 2022
 - 2. December 14, 2022
- V. ABATEMENTS
 - A. Q2 Internal Adjustments
 - B. 108 Uncle Venies Rd
 - B. 1022 Queen Anne Rd
- VI. OLD BUSINESS
 - A. Well #4 Cleaning & Redevelopment Update
 - B. Well #10 Update
 - C. FY24 Water & Wastewater Budget
 - D. 2022 Water Restrictions Hearings
 - E. Water Restrictions Bylaw & Special Legislation
- VII. NEW BUSINESS
 - A. 2023 Draft SRF Intended Use Plan
 - B. Procurement Update
 - C. Billing Update
- VIII. SUPERINTENDENT'S REPORT
- IX. COMMISSIONER'S REPORT
- X. CORRESPONDENCE / ANY OTHER BUSINESS
- XI. NEXT MEETING: TBD
- XII. ADJOURNMENT

**Per the Attorney General's Office: The Board of Water Commissioners may hold an open session for topics not reasonably anticipated by the Chair 48 hours in advance of the meeting following "New Business."
If you are deaf or hard of hearing or are a person with a disability who requires an accommodation, contact the Water Department Office at 508-432-0304 x.0 or by email at customerservice@harwichwater.com.*

Authorized Posting Officer:

Tracey Alves | Board Secretary

Town Posting Date: _____

_____ | Town Clerk

IV. CONSENT AGENDA

A. Minutes

1. November 30, 2022
2. December 14, 2022

MINUTES
HARWICH WATER DEPARTMENT
BOARD OF WATER/WASTEWATER COMMISSIONERS
Wednesday, November 30th, 2022
11:30 a.m.

WATER COMMISSIONER'S PRESENT: Chair Gary Carreiro, Vice Chair Allin Thompson, Clerk Noreen Donahue, Commissioner Judith Underwood, Commissioner John Gough

OTHERS PRESENT: Superintendent Dan Pelletier, Administrative Assistant Tracey Alves, Town Administrator Joe Powers, Harwich resident

CALL TO ORDER

Chair Carreiro called the meeting to order at 11:30 a.m.

CONSENT AGENDA

- A. Minutes
 - 1. October 26, 2022
 - 2. November 9, 2022

Chair Carreiro motioned to approve the Consent Agenda. Vice Chair Thompson moved the motion. Clerk Donahue seconded the motion; 5-0-0.

ABATEMENTS

- A. 186 Main St

The Board reviewed an abatement request for 186 Main St. Commissioner Underwood motioned to deny the abatement request. Clerk Donahue seconded the motion; 5-0-0.

OLD/UNFINISHED BUSINESS

- A. Town Charter/ Bylaws Discussion

Superintendent Pelletier discussed the options with the Board regarding the potential revisions to the Town Charter/Bylaws regarding water restrictions and water ban violations.

NEW BUSINESS

- A. Wastewater Funding Sources & Uses- Discussion

Superintendent Pelletier relayed that with Phase 3 wastewater coming and wastewater operations now on-line we're trying to gather consensus as to appropriate wastewater funding and usage.

Town Administrator Powers relayed that anything he says today has not yet gone to the Board of Selectmen.

Chair Carreiro began with, the Sewer Enterprise Fund is solely for existing sewer, to maintain the infrastructure of the Sewer Department. Town Administrator Powers understands that the Sewer Enterprise Fund use is for the operations.

For future construction and design, those funds would come out of the CWMP with additional sources, such as general fund and the wastewater special purpose stabilization fund. WIIF (Water Infrastructure Investment fund) is a concept right now. Harwich has not adopted a WIIF yet.

Clerk Donahue emphasized that in the fourth column under Sewer Enterprise Fund and that's including retained earnings for the sewer, where it says on the first line "Capital expenses" it was emphasized that it is for "Capital expenses for completed and connected phases only. It could be capital for existing or adding onto existing, such as a generator." This should be added to the chart for further clarification in the future.

Clerk Donahue also wanted clarification about Town Administrator Powers saying that the Wastewater Special Purpose Stabilization would begin in January of 2023. Town Administrator Powers did recall saying that, however, he has since evaluated it and it was a misstatement by him.

Draft Wastewater Funding Sources & Uses			
Selectboard	Selectboard	Selectboard	Board of Water & Wastewater Commissioners
General Fund (Free Cash/Debt Exclusion)	Wastewater Special Purpose Stabilization Fund	Water Infrastructure Investment Fund (WIIF)	Sewer Enterprise Fund
CWMP Related Expenses	Wastewater Debt	Not yet established	Capital expenses for existing WW Facilities
Land Acquisition	CWMP Related Expenses	Wastewater Debt	Purchase/replacement of WW equipment
Design Expenses		CWMP Related Expenses	Collections system repairs/upgrades
Legal Expenses			Expenses related to existing WW infrastructure
IMA/Capacity Purchasing			
Wastewater Debt			
WW Construction			

Clerk Donahue wants to be really clear about one thing, as we go on to May. What brought this to our discussion table, back in August with the Special Town Meeting, there was some talk about the easements for West Harwich, Route 28 business, to be paid out of sewer retained earnings and that's what got us discussing this because that's not an expense of the Sewer Enterprise fund.

The easements for future construction would be part of what comes out of any of these other three funds. Those easements are for Phase 4 maybe, we don't even know what phase those will be but it's certainly not Phase 2. Right now, the only thing that is covered under the Sewer Enterprise Fund, including retained earnings, is Phase 2. The Town Administrator agreed. Clerk Donahue said that would have effectively voted us into deficit.

To finish the loop, the BOS had a desire to take the funds used from the generation of the correction of the Monomoy status. There was discussion about having an article in May to return those funds to the tax rate of the people. The Town Administrator said that is correct, that is on the list of draft articles, he doesn't know that action would be a return so the concept is relief and that it is very much a directive of the Board. Clerk Donahue relayed that when you go to do that, do not include that \$70,000 that you contemplated as coming from our retained earnings from that because that never should have gone, it would all have to be from free cash. The Town Administrator agreed.

Everyone was on the same page regarding wastewater funding sources and uses.

SUPERINTENDENT'S REPORT

The Well contractor will be out this week.

The small well M2 has a small issue. The submersible motor seems to be the issue. We should have a new motor on Monday.

COMMISSIONERS REPORT

Commissioner Underwood commented that the Words on Water Poetry, Playwriting and Prose writing contest, 5th year, submissions are due by December 28, 2022. If you know any writers or aspiring writers, please check out: blueinstitute.org

MMA is coming up on January 20th and 21st.

Comments are due for Watershed permit and Title V regulation changes on December 16, 2022.

The Board would like to get the staff Dunkin Donuts gift cards for Christmas!

NEXT MEETING

The next Board meeting will be held on Wednesday, December 14, 2022 at 11:30am.

ADJOURNMENT

Chair Carreiro motioned to adjourn at 12:25 p.m. Vice Chair Thompson moved the motion and Commissioner Underwood seconded. All in favor; 5-0-0.

Gary Carreiro, Chairman

Dan Pelletier, Superintendent

Allin P. Thompson, Vice Chair

Tracey Alves, Board Secretary

Noreen Donahue, Clerk

Judith Underwood

John Gough

MINUTES
HARWICH WATER DEPARTMENT
BOARD OF WATER/WASTEWATER COMMISSIONERS
Wednesday, December 14, 2022
11:30 a.m.

WATER COMMISSIONER'S PRESENT: Chair Gary Carreiro, Vice Chair Allin Thompson, Clerk Noreen Donahue, Commissioner Judith Underwood

OTHERS PRESENT: Superintendent Dan Pelletier, Administrative Assistant Tracey Alves

CALL TO ORDER

Chair Carreiro called the meeting to order at 11:34 a.m.

CONSENT AGENDA

- A. Minutes
 - 1. November 30, 2022

The Consent Agenda will hold off until the next meeting.

OLD/UNFINISHED BUSINESS

- A. Water Restrictions ByLaw

Superintendent Pelletier provided the Board with an update on water restrictions.

Cape Cod & the Islands are still presently at a level 2 drought. We are trending upwards but well below where we were last year and certainly below historic median for this time of the year.

We had met with attorney Giorgio and he was going to be preparing draft language for a special legislation for a home-rule petition article to adopt water restriction bylaws that allow us to assess violation fines to water user accounts.

Where that is a multi-year process likely, we were also looking to update current/existing violation and penalties section of the bylaw to be more reflective and consistent with what is in our Rules & Regulations.

This would be looking to amend the existing language which says, no fine, written warning is first offense, \$50 first violation and \$100 for second and subsequent. We are linking that up with our Rules & Regulations which is no fine, written warning first offense, \$100 second offense and \$300 for third violation and subsequent.

- B. Well Rehab Update

Superintendent Pelletier provided the Board with a well rehab update.

Well M2 has had a new motor installed. It will be flushed and tested before being brought on-line. Well 4 is being cleaned and will need the pump and motor installed. Superintendent

Pelletier has signed the contract for the vertical turbine engine for Well 7 and work on this should begin soon.

NEW BUSINESS

A. DEP Sanitary Survey

Superintendent Pelletier updated the Board of the outcome of the DEP Sanitary Survey report. There were a few recommendations made and overall DEP had a lot of positive and nice paragraphs throughout the report.

B. Glyphosate Study

Superintendent Pelletier has volunteered to have a glyphosates study done on Harwich water. The first round of testing has been done and we are still awaiting the results.

SUPERINTENDENT'S REPORT

Superintendent Pelletier did submit the comments on the Watershed Permit and Title V Regulations. The BOS reviewed and gave their blessing on the final draft. Superintendent Pelletier had previously submitted the Water Management Act comments and is just gearing up for another year.

COMMISSIONERS REPORT

Clerk Donahue relayed that whenever the budget needs to be submitted just do it. Superintendent Pelletier commented that if the Board wants to change the Budget after the fact they are able to.

MMA is January 19, 20 and 21st.

NEXT MEETING

The next Board meeting will be held on Wednesday, January 18, 2023 at 11:30am.

ADJOURNMENT

Chair Carreiro motioned to adjourn at 12:10 p.m. Vice Chair Thompson moved the motion and Commissioner Underwood seconded. All in favor; 4-0-0.

Gary Carreiro, Chairman

Dan Pelletier, Superintendent

Allin P. Thompson, Vice Chair

Tracey Alves, Board Secretary

Noreen Donahue, Clerk

Judith Underwood

John Gough

V. ABATEMENTS

A. Q2 Internal Adjustments

Water & Wastewater Department
FY23 Q2 INTERNAL A/R ADJUSTMENTS

Total -\$8,323.46
 Meeting Date 01/17/23

Board of Water & Wastewater Commissioners

Gary Carreiro _____
 Judith Underwood _____
 Allin Thompson _____
 Noreen Donahue _____
 John Gough _____

EFF DATE	ADJTYPE	SRC	JOURNAL	PER	REF1	AMOUNT
10/03/22	1WATER	UBM	14	4	100322	647.48
10/03/22	1WATER	UBM	4	4	06902	-4.34
10/05/22	1WATER	UBM	24	4	10522	-2.84
10/12/22	1WATER	UBM	90	4	101222	-400.68
10/13/22	1WATER	UBM	116	4	101322	-51.34
10/14/22	1WATER	UBM	138	4	101422	-8.70
10/18/22	3SEASN	UBM	167	4	101822	-250.00
10/18/22	3STIP	UBM	167	4	101822	-51.00
10/18/22	FINE	UBM	167	4	101822	-500.00
10/18/22	NOTICE	UBM	167	4	101822	-10.00
10/20/22	1WATER	UBM	189	4	102022	82.03
10/20/22	1WATER	UBM	188	4	102022	1,326.83
10/20/22	1WATER	UBM	187	4	102022	-435.39
10/21/22	NSF	UBM	216	4	102122	25.00
10/21/22	1WATER	UBM	201	4	102122	-49.38
10/21/22	1WATER	UBM	200	4	102122	-569.63
10/25/22	1WATER	UBM	264	4	122522	-201.92
10/25/22	1WATER	UBM	263	4	102522	-69.60
10/28/22	APPFEE	UBM	296	4	102822	-90.00
10/31/22	1WATER	UBM	322	4	103122	-13.05
10/31/22	FINE	UBM	320	4	103122	-200.00
10/31/22	NOTICE	UBM	320	4	103122	-20.00
11/02/22	1WATER	UBM	33	5	110222	-194.94
11/02/22	1WATER	UBM	26	5	110222	-121.18
11/02/22	1WATER	UBM	23	5	11222	-164.06
11/03/22	1WATER	UBM	43	5	110322	-13.58
11/03/22	1WATER	UBM	41	5	11322	-21.75
11/04/22	NSF	UBM	58	5	110422	25.00
11/04/22	1WATER	UBM	57	5	11422	-13.11
11/07/22	NSF	UBM	62	5	11722	25.00
11/07/22	1WATER	UBM	61	5	11722	-8.52
11/14/22	1WATER	UBM	125	5	111422	-37.86
11/16/22	1WATER	UBM	173	5	111622	95.32
11/16/22	1WATER	UBM	169	5	111622	129.46
11/16/22	1WATER	UBM	162	5	111622	-230.84
11/16/22	1WATER	UBM	161	5	111622	-63.94
11/22/22	1WATER	UBM	232	5	112222	-13.05
12/06/22	MKOUT	UBM	41	6	120622	-25.00
12/09/22	1WATER	UBM	91	6	12922	97.08
12/14/22	1WATER	UBM	151	6	121422	-8.76

EFF DATE	ADJTYPE	SRC	JOURNAL	PER	REF1	AMOUNT
12/14/22	APPFEE	UBM	141	6	121422	50.00
12/27/22	1WATER	UBM	256	6	122722	-79.79
12/27/22	1WATER	UBM	255	6	122722	-201.92
12/27/22	1WATER	UBM	254	6	122722	-34.80
12/27/22	1WATER	UBM	250	6	122722	-1.42
12/27/22	1WATER	UBM	247	6	122722	-239.78
12/27/22	1WATER	UBM	246	6	122722	-151.44
12/27/22	1WATER	UBM	245	6	122722	-126.39
12/28/22	1WATER	UBM	275	6	122822	-1.35
12/28/22	1WATER	UBM	274	6	122822	-1.35
12/28/22	1WATER	UBM	272	6	122822	-4.05
12/30/22	3SEASN	UBM	296	6	123022	-600.00
12/30/22	APPFEE	UBM	296	6	123022	-100.00
12/30/22	INSLAB	UBM	296	6	123022	-2,220.00
12/30/22	INSMAT	UBM	296	6	123022	-2,240.51
12/30/22	MATERL	UBM	296	6	123022	-176.56
12/30/22	SVCLAB	UBM	296	6	123022	-50.00
12/30/22	SYSFEE	UBM	296	6	123022	-500.00
12/30/22	1WATER	UBM	295	6	123022	-2.84
TOTAL SERVICE ADJUSTMENTS						-8,073.46

DATE	TYPE	TYPE2	ACCT	ADDRESS	AMOUNT
10/18/22	1XLFEE	1XLFEE	04126	20 DRIFTWOOD LN	-25.00
10/18/22	1XLFEE	1XLFEE	06996	2 ENGLEWOOD A5	-25.00
10/20/22	LFEE	LFEE	09673	1150 QUEEN ANNE RD	-25.00
10/24/22	LFEE	LFEE	06812	23 CODY LN	-25.00
10/27/22	LFEE	LFEE	02705	17 SOUND VIEW RD	-25.00
11/02/22	LFEE	LFEE	03227	7 LOUIS WAY	-25.00
11/08/22	LFEE	LFEE	00087	38 OCEAN AVE	-25.00
11/22/22	LFEE	LFEE	10250	30 LOWER COUNTY RD	-25.00
12/06/22	1XLFEE	1XLFEE	08313	3 MCCRACKEN RD	-25.00
12/30/22	LFEE	LFEE	06405	103 BELMONT RD	-25.00
TOTAL LATE FEES					-250.00

V. ABATEMENTS

B. 108 Uncle Venies Rd

MUST BE FILED WITH THE HARWICH BOARD OF WATER COMMISSIONERS
NO LATER THAN THE DUE DATE WHICH THE WATER CHARGE BECAME A PART

65112

TOWN OF HARWICH
WATER DEPARTMENT
APPLICATION FOR ABATEMENT

RECEIVED: 1/4/23
ACCOUNT: 08352

To the Board of Water Commissioners:

NAME OF APPLICANT: [Signature] hereby applies for abatement.

PROPERTY OWNER: [Signature]

PROPERTY LOCATION: 108 VANCE VENUES RD

EMAIL ADDRESS: [Signature] @ G-MAIL .COM

PHONE: 508-400-0000 MOBILE: SAME

TOTAL BILL AMOUNT: \$90.12 WATER BILL #: 465835

AMOUNT REQUESTED: \$25.00

REASON FOR ABATEMENT REQUEST (attach additional sheet if necessary)

I thought I paid the Bill but I saw the bell under a stack of papers ^{AFTER CHRISTMAS} AND when I called the office, I WAS TOLD the Bill had not been paid AND A \$25.00 LATE FEE WAS ASSESSED. I respectfully request the LATE FEE be WAIVED

SIGNATURE OF APPLICANT: [Signature] DATE: 1/4/23

SUBMIT THIS FORM TO THE HARWICH WATER DEPT. 196 CHATHAM ROAD, HARWICH, MA 02645
ATTN: BOARD OF WATER COMMISSIONERS OR FAX TO (888) 774-3557.

BOARD OF WATER COMMISSIONERS

APPROVED DENIED

NOTES:

DATE

SIGNATURE

SEE REVERSE SIDE (PAGE 2) FOR RELATED REGULATIONS & APPEAL PROCESS

01/04/2023 15:39
talves

TOWN OF HARWICH - LIVE DATA
ACCOUNT SUMMARY



P 1
ubachst

AR Category: 60

Form Type: A ACCOUNT DETAIL

Account # Location	Customer Name	Date	Bill#	P	Service #	Type	Parcel	Interest Due Curr Read # Usage	Ending Balance Amount	Total Due
08352 108	UNCLE VENIES RD	307907								
					SH MA 02645		25/W1-8-R	.00	90.12	90.12
		12/13/2022	465835		LFEE -001	Penlty			25.00	
		09/26/2022	465835		1WATER-001	Charge			65.12	
		07/18/2022	455174		1WATER-001	Pmt Pr	CHECK	431000 11000	65.12	
		06/30/2022	455174		1WATER-001	Charge		Chk/Ref # 544120	-66.92	
		05/31/2022	444573		1WATER-001	Pmt Pr	CHECK	420000 12000	66.92	
		03/31/2022	444573		1WATER-001	Charge		Chk/Ref # 961441	-58.58	
		01/19/2022	434216		1WATER-001	Pmt Pr	CHECK	408000 9000	58.58	
		12/30/2021	434216		1WATER-001	Charge		Chk/Ref # 006870	-61.36	
		10/18/2021	423765		1WATER-001	Pmt Pr	CHECK	399000 10000	61.36	
		10/01/2021	423765		1WATER-001	Charge		Chk/Ref # 488055	-75.26	
		07/19/2021	413317		1WATER-001	Pmt Pr	CHECK	389000 15000	75.26	
		06/29/2021	413317		1WATER-001	Charge		Chk/Ref # 173671	-61.22	
		04/14/2021	402767		1WATER-001	Pmt Pr	CHECK	374000 14000	61.22	
		04/02/2021	402767		1WATER-001	Charge		Chk/Ref # 963606	-55.92	
		01/26/2021	392314		1WATER-001	Pmt Pr	CHECK	360000 12000	55.92	
		12/31/2020	392314		1WATER-001	Charge		Chk/Ref # 773610	-61.22	
		10/23/2020	381417		1WATER-001	Pmt Pr	CHECK	348000 14000	61.22	
		09/30/2020	381417		1WATER-001	Charge		Chk/Ref # 561530	-79.67	
		07/20/2020	370989		1WATER-001	Pmt Pr	CHECK	334000 19000	79.67	
		06/26/2020	370989		1WATER-001	Charge		Chk/Ref # 500531	-61.22	
		05/11/2020	360732		1WATER-001	Pmt Pr	CHECK	315000 14000	61.22	
		04/17/2020	360732		1WATER-001	Charge		Chk/Ref # 226683	-58.57	
		02/28/2020	350418		1WATER-001	Pmt Pr	CHECK	301000 13000	58.57	
		01/30/2020	350418		1WATER-001	Charge		Chk/Ref # 975862	-25.00	
		01/09/2020	350418		1WATER-001	Pmt Pr	CHECK	288000 14000	25.00	
		02/28/2020	339963		LFEE -001	Charge			61.22	
		02/03/2020	339963		LFEE -001	App Cr			25.00	
		01/30/2020	339963		LFEE -001	Adj			25.00	
		01/30/2020	339963		1WATER-001	Pmt Pr	CHECK	Chk/Ref # 975862	-25.00	
		12/17/2019	339963		1WATER-001	Pmt Pr	CHECK	Chk/Ref # 975862	-25.00	
		10/04/2019	339963		LFEE -001	Penlty			-75.72	
		10/04/2019	339963		LFEE -001	Charge			25.00	
		10/04/2019	339963		1WATER-001	Charge			00	
		07/11/2019	329595		1WATER-001	Pmt Pr	CHECK	274000 18000	75.72	
		06/28/2019	329595		1WATER-001	Charge		Chk/Ref # 470042	-61.22	
		04/22/2019	319070		1WATER-001	Pmt Pr	CHECK	256000 14000	61.22	
		04/09/2019	319070		1WATER-001	Charge		Chk/Ref # 983383	-58.57	
		01/28/2019	308730		1WATER-001	Pmt Pr	CHECK	242000 13000	58.57	
		01/10/2019	308730		1WATER-001	Charge		Chk/Ref # 757097	-58.57	
								229000 13000	58.57	

** END OF REPORT - Generated by Tracey **



Accounts

Account: 08352

1/22/20** 108 UNCLE VENIES RD. **ONE-TIME LATE FEE REMOVAL PROCESSED

1/4/23 OWNER CALLED ABOUT PAST DUE BILL \$65.12 + \$25.00 LATE FEE= \$90.12. HIS BILL HAD BEEN HIDDEN UNDER A STACK OF PAPERS, HE REQUESTED A LATE FEE REMOVAL BUT WAS TOLD THAT THE OFFICE IS ONLY ALLOWED TO PROCESS A "ONE-TIME LATE FEE REMOVAL" AND WE HAD ALREADY DONE THIS FOR HIM ON 1/22/20. HE WILL APPLY FOR AN ABATEMENT WITH THE BOWWC TO SEE IF HE CAN GET THE NEW LATE FEE WAIVED.

1/22/20 ONE-TIME LATE FEE REMOVAL PROCESSED.

5/30/14 METER WAS UPGRADED TO 3/4" TO INCREASE FLOW. 180244. WM
5/28/14 OWNER CAME IN TO RELAY HIS PRESSURE IS LOWER IN THE UPSTAIRS THAN THE DOWNSTAIRS AND IS INTERESTED IN HAVING METER C/O ALSO. APPT. SET. TA
3/14/11 INSTALLED RADIO 165300
3/3/09 FINAL READ 1542 KS
3/2/09 REQUESTED FINAL WATER READ, SCHEDULED FOR 3/3/09 WILL DROP OFF TRANSFER CHECK TODAY KS

DATE	CODE	READING	USAGE	AMOUNT	BALANCE
04/27/2005	1			67.50-	.00
04/14/2005	10	1055000	25000	67.50	67.50
10/26/2004	1			497.75-	.00
10/14/2004	10	1030000	152000	497.75	497.75
04/21/2004	1			64.00-	.00
04/08/2004	10	878000	23000	64.00	64.00
10/29/2003	1			340.25-	.00
10/22/2003	10	855000	110000	340.25	340.25
05/06/2003	1			40.75-	.00
04/28/2003	10	745000	24000	40.75	40.75
11/12/2002	1			208.25-	.00
11/01/2002	10	721000	105000	208.25	208.25
06/11/2002	1			65.30-	.00
06/03/2002	10	616000	37000	65.30	65.30
02/07/2002	1			246.95-	.00
01/29/2002	10	579000	123000	246.95	246.95
03/14/2001	1			82.40-	.00
02/13/2001	10	456000	46000	82.40	82.40
08/28/2000	1			40.75-	.00
08/03/2000	10	410000	24000	40.75	40.75
05/05/2000	1			229.75-	.00
04/21/2000	10	386000	115000	229.75	229.75
10/23/1999	100			.00	.00

V. ABATEMENTS

C. 1022 Queen Anne Rd

1022 Queen Anne Rd

Form Name: Abatement Application

Date of Water Use Charge: 2 December 2022

Name of Person Assessed (Owner):

Location and Description of Property: 1022 Queen Anne Road

Total Amount Assessed: 2088.07

Total Amount Requested: 2088.07

If request is for another reason, what is the requested amount?: 2088.07

Reason For Abatement Request: The property owner is requesting abatement regarding an invoice for the installation of a new water line at their property that was not originally proposed by the Town after installation of an approved sewer line. Attached letter sent to Water Dept.

SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY: 19 December 2022

AGREE?: Checked

Office Use Only	
Board of Water & Wastewater Commissioners:	
Meeting Date: _____	
Approved / Denied	Approved Amount: _____
Signatures:	
x)	x)
x)	x)
x)	Notes:

JAMES E. TASHJIAN LLC
COUNSELOR AT LAW
225 WEST MAIN STREET
WESTBOROUGH, MASSACHUSETTS 01581

JAMES E. TASHJIAN

TELEPHONE (508) 366-5558
EMAIL: jetashjian@tashsim.com

EDWARD D. SIMSARIAN
(1956-2018)

November 4, 2022

Mr. Daniel R. Pelletier, Superintendent
Town of Harwich
Water & Wastewater Department
196 Chatham Road
Harwich, MA 02645

Re: _____
1022 Queen Anne Road
Account No. 02921
Invoice No. 467750

Dear Mr. Pelletier:

I have been asked to contact you by Mr. and Mrs. _____ regarding the recent invoice submitted to them for installation of a new water line at their property.

It is my understanding that after the installation of wastewater line, an inspection by the Town prior to closing the trench revealed that it was installed at least in part in the same line as the existing water line servicing the residence, which the Board of Health inspector advised was a violation and needed to be remedied.

As a result, the Town ordered the relocation of the water line to an entirely new location and constructed a new line from the street to the residence building, avoiding the newly installed sewer line.

The Town has now invoiced Mr. and Mrs. _____ for the cost of installation of the new water line in the amount of \$2,088.07.

They believe that this charge is inappropriate for the following reasons.

First, the Town records should have identified the existing water line location prior to construction and approval of the plan, so that the water line could then be avoided at the time of installation of the sewer line, so that a new relocated water line would not be required to be installed.

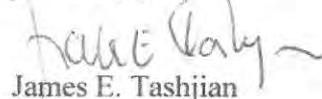
Second, and alternatively, if the water line was required to be relocated, it appears that a minor readjustment of the location where the line enters the dwelling would have minimized the cost of connecting an entirely new line from the street.

Third, and alternatively, if it is the position of the Town that the proposed location of the sewer line as reflected on the sewer connection plan submitted to the Town would require the installation of a new water line, then the proposed sewer construction should not have been approved and the property owner should have been advised of this fact before construction started and given the opportunity to present an alternative plan of installation.

The family would also like you to be aware that, in addition to the charges submitted by the Town, they have informed me that they have incurred an additional cost of approximately \$1,800.00 paid to a private plumber for relocation of the line and meter inside the residence. At this time they are not requesting a reimbursement of that additional expense

I shall appreciate it if you would review this project in light of the information outlined above and consider an abatement of the billing presented. I would be happy to review any of these comments with you and provide any additional information you may request.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "James E. Tashjian", with a horizontal flourish at the end.

James E. Tashjian



TOWN OF HARWICH
 WATER DEPARTMENT
 732 MAIN ST
 HARWICH MA 02645

WATER / SEWER BILL

To pay your bill,
 scan this QR code



ACCOUNT NO.	LOCATION	AMOUNT DUE	DUE DATE	BILL NUMBER
02921	1022 QUEEN ANNE RD	\$2,088.07	12/02/2022	467750

DITULLIO JESSICA LYNNE
 48 CHURCH ST,
 WESTBOROUGH, MA 01581

CUSTOMER PORTION

DESCRIPTION	METER READ DATES		METER READINGS		READ CODE	USAGES		CHARGE	
	PREVIOUS	CURRENT	PREVIOUS	CURRENT		REPLACED	TOTAL		
APPFEE			0	0			0	\$50.00	
DETAIL								\$488.00	
INSLAB								1,110.00	
INSMAT								\$440.07	
A = ACTUAL E = ESTIMATED IF ESTIMATED, CALL 508-432-0304			Payments received after the due date are subject to a \$25.00 delinquent penalty.		BAL FORWARD		CURRENT CHARGES		AMOUNT DUE
					\$0.00		\$2,088.07		\$2,088.07

ONLINE BILL PAY:
 HARWICHWATER.COM
 PHONE PAYMENTS: 844-953-0665

Frozen pipes can cause considerable water damage.
 Ask us about our seasonal protection service!
 Call 508-432-0304 or visit www.harwichwater.com

YOUR CANCELLED CHECK IS YOUR RECEIPT. Please write your Account No. on your check.

WATER / SEWER BILL

BILL NUMBER

467750

ACCOUNT NO.	LOCATION	NAME
02921	1022 QUEEN ANNE RD	

PAYMENT COUPON

Service Tight Protection Plan
 please see back of bill for registration

Payments made WITH this coupon remit to:

Make Checks Payable : TOWN OF HARWICH
 COLLECTOR OF TAXES
 732 MAIN STREET
 HARWICH MA 02645

AMOUNT DUE	\$2,088.07
DUE DATE	12/02/2022

THE COMMONWEALTH OF MASSACHUSETTS

TOWN OF HARWICH BOARD OF HEALTH

APPLICATION FOR SEWER CONNECTION PERMIT

Application is hereby made for a Permit to Construct or Repair a sewer line at:

Location/Address: 1022 Queen Anne Road

MAR 04 2022

Property Owner:

Installer: Robert B. Ourco Inc

Designer: Clark Engineering LLC

Installer address: 24 Great Western Rd Harwich

Installer phone: 508-432-0530

Installer email: SWilliams@a1robertour.com

TYPE OF BUILDING

Dwelling -# of Bedrooms: 3
 Grease Traps (Outdoor #) _____
 Gallons Per Day: _____
 Vacant Lot SF: _____

Other - Type of Building: _____
 Retail Space Square Footage: _____
 Office Space Square Footage: _____
 Other design flow: _____

Plan date: 02/10/22

Number of sheets: 3

Revision Date:

Type of system: Gravity Pump Other

Description of work:

ON-SITE SANITARY SEWAGE SYSTEM

The existing sanitary sewage system will or will not be abandoned in accordance with 310 CMR 15.000 The State Environmental Code, Title 5 as part of this permit.


AGREEMENT

The undersigned agrees to ensure the construction of the sewer line is in conformance with all Town of Harwich Regulations, laws, rules and ordinances. The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by this Board of Health.

Signed: 

Date: 3/18/22

FOR OFFICE USE ONLY:

Application Approved by: 

Date: 3/18/2022

Application Disapproved for the following reason:

PERMIT EXPIRES ONE YEAR FROM DATE OF ISSUE

PERMIT NUMBER:

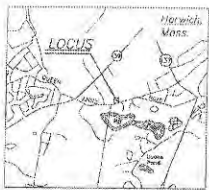
SS 22-3

FEE: n/a

CHECK #: n/a



PERMIT # 8522-3



Assessors' Map 75, Parcel W2-1-0

Deed Book 33413, Page 71
Plan Book 682, Page 90, Lot 1

Approximate Location of Existing Cesspools per the Inspection form on file with the Norwich Board of Health to be Pumped & Filled



Existing Barn
Existing 3 Bedroom Dwelling
1st Fl. E1 = 70.3
1st Fl. E2 = 69.8

Approximate Location of Existing Gas Service
Approximate Location of Existing Water Service
Approximate Location of Existing Underground Utilities

LOT 1
Record Area = 43,581 S.F. ±
or = 1.00 Ac. ±

LEGEND

- Existing Contour
- Proposed Contour
- Existing Spot Grade
- Proposed Spot Grade
- Water Service
- Overhead Utility Line(s)
- Underground Utility Line(s)
- Gas Line
- Concrete Bound (Ct)
- Septic Tank
- Utility Pole
- Catch Basin
- Fire Hydrant
- Tree or Hedge Line



SEWER CONNECTION PLAN

DATE	
REVISION	

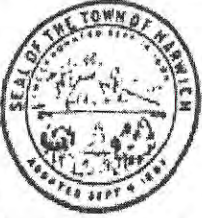
15002 Queen Anne Road, Norwich, MA
CLARK ENGINEERING LLC
125 Brown Road, Suite B, Durham, MA 01923
Tel: (508) 848-5404, Fax: (508) 848-5405

Date: 04/10/2012
Scale: 1" = 30'
Drawing No: 125001104
Sheet No: 1 of 3

QUEEN ANNE ROAD
(Undefined)
County Way

CAUTION:
Overhead Utilities





Commonwealth of Massachusetts
Board of Health, Harwich, MA.
DISPOSAL SYSTEM CONSTRUCTION PERMIT

Fee
\$0.00

Permission is hereby granted to; ROBERT B OUR COMPANY INC. Address: PO BOX 1539
HARWICH, MA 02645

To perform: Removal - Abandon an individual sewage disposal system.

Owner: 1

Location: 1022 QUEEN ANNE RD, Harwich, MA

Disposal System Construction Permit No.: BOHDC-22-0875 , Dated: 03/18/2022

This permit is valid for 12 months from the date of issuance.

Conditions

3 Bedroom Maximum

THIS PERMIT IS FOR ABANDONMENT ONLY

Abandonment of system shall comply with 310 CMR 15.354

Kathleen O'Neill, Sc. D., R.S
Health Director

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

Customer Service - Harwich Water

From: Customer Service - Harwich Water
Sent: Friday, April 1, 2022 11:55 AM
To: Sandra Sieger
Subject: FW: 1022 Queen Anna Rd Sewer Service
Attachments: 02921 - 1022 Queen Anne Rd WS approved Sewer Connection.pdf

From: Dan Pelletier <dpelletier@harwichwater.com>
Sent: Friday, April 1, 2022 10:48 AM
To: david@clarkeng.net
Cc: Kathleen O'neill <koneill@town.harwich.ma.us>; Customer Service - Harwich Water <customerservice@harwichwater.com>
Subject: 1022 Queen Anna Rd Sewer Service

Hi David,

We received an application to construct a sewer service at 1022 Queen Anne Road and will need some revisions before it can be approved. The water/sewer crossing will require a sleeve as it does not appear to meet the minimum horizontal/vertical separation and based on the depth of pipe in the profile the new service should receive rigid insulation to prevent freezing. Please reach out with any questions.

Thank you,

Dan Pelletier | Superintendent of Water & Wastewater
o. (508) 432-0304 x.110 | c. (774) 722-7963 | e. dpelletier@harwichwater.com
196 Chatham Road Harwich, MA 02645 | <http://harwichwater.com>



* The Commonwealth of Massachusetts Secretary of State has determined that e-mail is a public record

Customer Service - Harwich Water

From: Customer Service - Harwich Water
Sent: Friday, April 1, 2022 11:55 AM
To: Sandra Sieger
Subject: FW: 1022 Queen Anna Rd Sewer Service

From: David Clark <david@clarkeng.net>
Sent: Friday, April 1, 2022 11:07 AM
To: Dan Pelletier <dpelletier@harwichwater.com>
Cc: Kathleen O'neill <koneill@town.harwich.ma.us>; Customer Service - Harwich Water <customerservice@harwichwater.com>
Subject: RE: 1022 Queen Anna Rd Sewer Service

Dan

We were not proposing any changes to the existing piping under the deck. That portion of the sewer pipe is within 10 ft. of the building and it is our understanding that it is within the purview of the plumbing code.

David Clark
Clark Engineering LLC
156 Crowell Road, Unit B
Chatham, MA 02633

508-945-5454

From: Dan Pelletier
Sent: Friday, April 1, 2022 10:48 AM
To: david@clarkeng.net
Cc: Kathleen O'neill; Customer Service - Harwich Water
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196 Chatham Road Harwich, MA 02645 | <http://harwichwater.com>

Customer Service - Harwich Water

From: Customer Service - Harwich Water
Sent: Friday, April 1, 2022 1:37 PM
To: Sandra Sieger; Wellesley Marsh
Subject: FW: 1022 Queen Anna Rd Sewer Service

From: Dan Pelletier <dpelletier@harwichwater.com>
Sent: Friday, April 1, 2022 12:21 PM
To: David Clark <david@clarkeng.net>
Cc: Kathleen O'Neill <koneill@town.harwich.ma.us>; Customer Service - Harwich Water <customerservice@harwichwater.com>
Subject: RE: 1022 Queen Anna Rd Sewer Service

Hi Dave,

I understand you weren't proposing to make any changes under the deck and that inside 10' from foundation wall is plumbing code, that said, where it is a sewer service it needs to conform to the sewer regulations as well. Section 20 of the sewer regs refers to protection of water supplies and can be found here: <https://www.harwichwater.com/about-us/sewer-use-regulations-2/appendix-a-design-of-sewers.html>

Thank you,

Dan Pelletier | Superintendent of Water & Wastewater
o. (508) 432-0304 x.110 | c. (774) 722-7963 | e. dpelletier@harwichwater.com
196 Chatham Road Harwich, MA 02645 | <http://harwichwater.com>



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Sent: Friday, April 1, 2022 11:07 AM
To: Dan Pelletier <dpelletier@harwichwater.com>
Cc: Kathleen O'Neill <koneill@town.harwich.ma.us>; Customer Service - Harwich Water <customerservice@harwichwater.com>
Subject: RE: 1022 Queen Anna Rd Sewer Service

Dan

We were not proposing any changes to the existing piping under the deck. That portion of the sewer pipe is within 10 ft. of the building and it is our understanding that it is within the purview of the plumbing code.

Sewer Use Regulations

Appendix A. Design of Sewers

Section 20. Protection of Water Supplies

Cross Connections

No physical connection shall exist between a public or private potable water supply system and a sewer or any appurtenance that would permit the passage of wastewater or polluted water into the potable supply. No sewer shall come into contact with a water pipe and no water pipe shall pass through any part of a sewer manhole or any part of the sewer system.

Relation to Water Works Structures

Sewers shall be located as far as possible from public water supply wells or other potable water supply sources and structures.

Engineering plans shall show all existing waterworks units, such as treatment facilities, basins, pipes, wells, or other waterworks units that are within 50 feet of the proposed sewer or to within the minimum distances required by the Director.

Water Mains' Relation

Horizontal Separation

Whenever possible, lay out sewers at least 10 feet (3.0 m) from any existing or proposed water main. If local conditions prevent a lateral separation of 10 feet, the Director may make an exception on a case-by-case basis when supported by data from the design engineer. Such an exception may allow the sewer to be installed closer than 10 feet to a water main, provided that it is laid out in a separate trench with the top (crown) of the sewer at least 18 inches (46 cm) below the bottom (invert) of the water main or is encased in a water tight sleeve.

Vertical Separation

Whenever sewers must cross water mains, lay out the sewer so that the top of the sewer is at least 18 inches (46 cm) below the bottom of the water main. The sewer joints should be equidistant and located as far away as possible from the water main joints. When the sewer cannot meet the above requirements, relocate the water main to provide for this separation or reconstruct it with mechanical-joint pipe for a distance of 10 feet (3.0 m) on each side of the sewer. One full-length (twenty feet) water main pipe shall be centered over the sewer so that both joints will be as far from the sewer as possible.

Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade.

When it is impossible to achieve horizontal and/or vertical separation as stipulated above, both the water main and sewer shall be constructed of mechanical-joint cement-lined ductile iron pipe or another equivalent that is watertight and structurally sound. Both pipes shall be pressure tested to 150 psi to ensure that they are watertight, and one of the pipes shall be installed in a water tight sleeve for a horizontal perpendicular distance of 10 feet (3.0) on each side of the other pipe. Any joints in the watertight sleeve shall be as far as possible from the water main's intersection with the sewer.

Dan Pelletier

From: Dan Pelletier
Sent: Friday, December 2, 2022 12:25 PM
To: James Tashjian
Subject: RE: [REDACTED] - 1022 Queen Anne Road - Account No. 02921 - Invoice No. 467750
Attachments: RE: 1022 Queen Anna Rd Sewer Service

Hi James,

Just wanted to circle back and put in writing what transpired, unfortunately the sewer service at 1022 Queen Anne was installed without a sewer construction permit due to, in my opinion, an honest misunderstanding on the contractor as they thought they had the correct permit to move forward. In short, there are 2 permits issued when a septic system is being replaced with a sewer service, 1 for the septic abandonment issued by the board of health and 1 for the sewer service construction issued by the wastewater department, at the time the sewer service was installed only the septic abandonment permit had been issued. The design plans submitted by the contractor were flagged during our technical review on April 1st due to the proximity of the water/sewer lines. At that time I had reached out to the design engineer David Clark(email chain attached) advising that the water or sewer line would need to be sleeved, the engineer replied advising that they would look into having the water service relocated. This message was also relayed to the contractor by my office. This was the last correspondence with the engineer/contractor until we received a call to have the new sewer service inspected. With the title V system abandoned and new sewer service already installed I didn't feel it appropriate to force the owner/contractor to disconnect the sewer service and reconnect the septic system which is when we met with the property owner to discuss the new water service.

Feel free to reach out with any questions.

Thank you,

Dan Pelletier | Superintendent of Water & Wastewater
o. (508) 432-0304 x.110 | c. (774) 722-7963 | e. dpelletier@harwichwater.com
196 Chatham Road Harwich, MA 02645 | <http://harwichwater.com>



* The Commonwealth of Massachusetts Secretary of State has determined that e-mail is a public record

From: James Tashjian <jetashjian@tashsim.com>
Sent: Monday, November 7, 2022 9:48 AM
To: Dan Pelletier <dpelletier@harwichwater.com>
Subject: [REDACTED] - 1022 Queen Anne Road - Account No. 02921 - Invoice No. 467750

Mr. Pelletier,

David and Jessica DiTullio have asked me to contact you regarding the recent water connection, and resulting invoice, to their property. Please see my attached letter. They would appreciate your consideration of their request.

James E. Tashjian, Esq.

James E. Tashjian LLC
225 West Main Street
Westborough, MA 01581
(tel) 508-366-5558
(cell) 508-572-8276
(email) jetashjian@tashsim.com

The information contained in this email and any attachments is intended for the confidential use of the above-named recipient. If the reader of this message is not the intended recipient or person responsible for delivering it to the intended recipient, you have received this communication in error, and any review, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this in error, please notify the sender immediately and destroy this message.

Accounts

Account: 02921

1022 QUEEN ANNE RD.
<<SEWER ACTIVE>>

12/20/22 ABATEMENT REQUEST RECEIVED. RESPONDED THAT BOWWC WILL REVIEW AT 1/18/23 MEETING

11/18/22 RECEIVED AN EMAIL FROM A MR. TASHJIAN ESQ ON BEHALF OF THE OWNERS WHO ARE LOOKING FOR AN ADJUSTMENT TO THE INSTALL FEE. REPLIED THAT DP WILL BE BACK ON 11/28 AND COPIED DP FOR A REPLY WHEN HE RETURNS. WM

10/28/22 ADJUSTED APP FEE FROM \$140 TO \$50.

9/27/22 RENEWAL PRICES WILL STAND FROM 6/2022 ESTIMATE PER SUPERINTENDENT VIA TA.

9/13/22 RENEWED SERVICE FROM MAIN TO HOUSE. MOVED SERVICE CLOSER TO FRONT AND AWAY FROM SEWER. DID NOT RETAP.

9/13/22 COMPLETED SEWER DEDUCT METER FORM RECEIVED AND 3/4" METER PICKED UP (SERIAL# 11622731, RADIO ID# 1569807508)

8/31/22 OWNER EMAILED AN INCOMPLETE SEWER DEDUCT METER FORM. RELAYED THAT WE NEED THE FORM FILLED OUT ENTIRETY BEFORE WE RELEASE THE DEDUCT METER TO THE PLUMBER.

6/29/22 PRORATED 2,000 OFF JULY BILL FOR SEWER.

6/14/22 ESTIMATE RELEASED FOR SIGNATURE.

5/23/22 RELEASED CERTIFICATE OF COMPLIANCE AND EMAILED TO HOMEOWNER. SET REMINDER IN CALENDAR ON 8/24 TO SCHEDULE RENEWAL SERVICE TO GO IN 9/8-9/15. FOLDER IS IN LOWER FRONT DESK INBOX.

5/20/22 OWNER CAME IN AND FILLED OUT PAPERWORK FOR WATER SERVICE RENEWAL, WEEK OF 9/8-9/15. WANTS DP TO CONTACT HIM RE: RELEASE OF CERTIFICATE OF COMPLIANCE SO FUNDS CAN BE RELEASED FROM HIS ESCROW ACCT. 508-958-4833 / 1022QUEENANNEROAD@GMAIL.COM

5/19/22 SITE VISIT SET FOR 3:30PM FOR DP AND JE TO MEET WITH OWNER RE: LOCATION OF WATER SERVICE. CREATED FOLDER FOR JE

5/19/22 COMPLETED SEWER TIE RECEIVED.

5/18/22 READ FOR SEWER- 01053979

5/18/22 ROBERT OUR CALLED TO SEE HOW TO GO ABOUT HAVING THE SEWER LINE INSPECTED? ASKED FOR PLAN OF WHAT THEY DID BECAUSE ORIGINAL ENGINEERED PLAN WAS DENIED BY DP AND PROJECT IS STILL ON HOLD, ROBERT OUR HAD BEEN NOTIFIED OF THIS..?

NO CONSTRUCTION PERMIT ISSUED (PERMISSION TO PROCEED) YET THEY STILL PROCEEDED WITH THE INSTALL ANYWAYS.. / RELAYED INFO TO DP. / PROVIDED ROBERT OUR CO WITH INSPECTORS PHONE NUMBER SINCE THE TRENCH IS OPEN. PASSED INSPECTION BY W&S, HOWEVER..

* INCOMPLETE SEWER TIE SUBMITTED BY ROBERT OUR / EMAILED ROBERT OUR FOR COMPLETED TIE TO INCLUDE "SEWER SERVICE PROFILE"

* BECAUSE ENGINEERED PLAN DESIGN WAS NOT CORRECTED (BY CLARKE ENGINEERING) PER REQUEST, THIS PROPERTY WILL HAVE TO HAVE THE WATER SERVICE RELOCATED.

* CERTIFICATE OF COMPLIANCE IS TO BE HELD UNTIL FURTHER NOTICE.

3/30/22 SEWER PLAN OK'D BY W&S BUT IS STILL UNDER REVIEW BY DP. PLAN HAS SEWER AND WATER LINES CROSSING AND NEITHER HAVE A SLEEVE. DP REACHED OUT TO CLARK ENGINEERING RE: PLAN. / CONTACT ON SEWER APP (S. WILLIAMS) AT ROBERT OUR WAS

ALSO NOTIFIED THAT PROJECT IS ON HOLD UNTIL PLAN IS CORRECTED BY CLARK ENGINEERING.

3/28/22 SEWER APP EMAILED TO W&S FOR REVIEW

3/24/22 WASTEWATER APPLICATION AND PLAN ARRIVED AT WATER DEPT FROM TOWN HALL, HAVE BEEN SCANNED AND WILL BE SENT TO WESTON AND SAMPSON FOR REVIEW.

2/8/22 SENT CERTIFIED WASTEWATER LETTER TO CONNECT PACKET.

10/19/20 FINAL READ & C/o meter, 0403260 This is no longer a pit, meter in basement.



01/17/2023 15:34
talves

TOWN OF HARWICH - LIVE DATA
ACCOUNT SUMMARY

P 1
ubactht

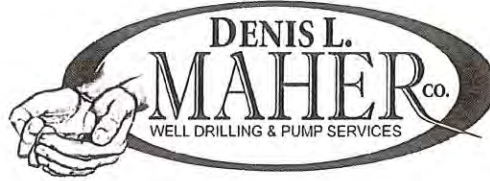
AR Category: 60

Form Type: A ACCOUNT DETAIL

Account # Location	Customer Name	Date	Bill#	P	Service #	Type	Parcel	Interest Due Curr Read #	Usage	Ending Balance Amount	Total Due	
02921 1022	QUEEN ANNE RD 119629					HA MA 02645	74/W2-R			.00	2409.93	2409.93
		12/30/2022	470832		1WATER-002	Charge		16000	16000	81.15		
		12/30/2022	470832		1WATER-001	Charge		189000	20000	98.55		
		12/30/2022	470832		1SEWER-001	Charge				142.16		
		10/28/2022	467750		APPFEE-001	Adj				-90.00		
		10/27/2022	467750		INSMAT-001	Charge				440.07		
		10/27/2022	467750		INSLAB-001	Charge				1110.00		
		10/27/2022	467750		DETAIL-001	Charge				488.00		
		10/27/2022	467750		APPFEE-001	Charge				140.00		
		10/03/2022	460415		1WATER-001	Pmt Pr	BANK XFER			-172.50		
		10/03/2022	460415		1SEWER-001	Pmt Pr	BANK XFER			-241.27		
		09/26/2022	460415		1WATER-001	Charge		169000	37000	172.50		
		09/26/2022	460415		1SEWER-001	Charge				241.27		
		10/03/2022	457477		MATERL-001	Pmt Pr	BANK XFER			-524.08		
		09/23/2022	457477		MATERL-001	Charge				524.08		
		07/17/2022	449754		1WATER-001	Pmt Pr	BANK XFER			-133.36		
		07/17/2022	449754		1SEWER-001	Pmt Pr	BANK XFER			-182.97		
		06/30/2022	449754		1WATER-001	Charge		132000	29000	133.36		
		06/30/2022	449754		1SEWER-001	Charge				182.97		
		04/19/2022	439151		1WATER-001	Pmt Pr	BANK XFER			-47.70		
		03/31/2022	439151		1WATER-001	Charge		103000	2000	47.70		
		01/19/2022	428794		1WATER-001	Pmt Pr	BANK XFER			-69.70		
		12/30/2021	428794		1WATER-001	Charge		101000	13000	69.70		
		10/13/2021	418343		1WATER-001	Pmt Pr	BANK XFER			-221.08		
		10/01/2021	418343		1WATER-001	Charge		88000	47000	221.08		
		07/14/2021	407901		1WATER-001	Pmt Pr	BANK XFER			-131.02		
		06/29/2021	407901		1WATER-001	Charge		41000	32000	131.02		
		04/07/2021	397355		1WATER-001	Pmt Pr	BANK XFER			-37.58		
		04/02/2021	397355		1WATER-001	Charge		9000	2000	37.58		
		01/15/2021	386901		1WATER-001	Pmt Pr	BANK XFER			-5.16		
		12/31/2020	386901		1WATER-001	App Cr				-38.87		
		12/31/2020	386901		1WATER-001	Charge		7000	7000	44.03		
		12/31/2020	383786		1WATER-001	App Cr				38.87		
		11/10/2020	383786		TRANSF-001	Pmt Pr	CHECK	Chk/Ref # 186827		-60.00		
		11/10/2020	383786		1WATER-001	Pmt Pr	CHECK	Chk/Ref # 186827		-320.93		
		10/19/2020	383786		TRANSF-001	Charge			67000	60.00		
		10/19/2020	383786		1WATER-001	Charge				282.06		
		10/20/2020	376003		1WATER-001	Pmt Pr	BANK XFER			-38.87		
		09/30/2020	376003		1WATER-001	Charge		336000	3000	38.87		
		07/21/2020	365577		1WATER-001	Pmt Pr	BANK XFER			-95.47		
		06/26/2020	365577		1WATER-001	Charge		333000	23000	95.47		
		05/07/2020	355320		1WATER-001	Pmt Pr	BANK XFER			-47.97		
		04/17/2020	355320		1WATER-001	Charge		310000	9000	47.97		
		01/24/2020	345008		1WATER-001	Pmt Pr	BANK XFER			-42.74		
		01/09/2020	345008		1WATER-001	Charge		301000	6000	42.74		
		10/29/2019	334551		1WATER-001	Pmt Pr	BANK XFER			-53.27		
		10/04/2019	334551		1WATER-001	Charge		295000	11000	53.27		
		07/17/2019	324182		1WATER-001	Pmt Pr	BANK XFER			-38.87		
		06/28/2019	324182		1WATER-001	Charge		284000	3000	38.87		
		06/14/2019	321036		SVCLAB-001	Pmt Pr	BANK XFER			-50.00		

VI. OLD BUSINESS

A. Well #4 Cleaning & Redevelopment Update



December 21, 2022

Mr. Dan Pelletier
Harwich Water Department
196 Chatham Rd.
Harwich, MA 02645

Office: 508-432-0304
Cell: 774-722-7963
email: dpelletier@harwichwater.com

RE: Emergency Reline of Well #4 - 24" x 86' deep with 10' of Shutter Screen

Dan,

Per your request, please find pricing below for the emergency relining of Well #4. The relining is needed as the casing/screen joint is failing. Please see the attached picture.

1.)	Mobilization / Demobilization	\$1,450.00
2.)	Labor to reline well	\$2,950.00
3.)	10' of 120 slot hi flow 18" diameter screen	\$3,960.00
4.)	76' of 18" diameter 3/8 wall casing @ \$180.00/foot	\$13,680.00
5.)	70' of 1/4 x 1/8 gravel pack, 175 bags @ \$22.00/bag	\$3,850.00
6.)	Set up and tear down surging rig and equipment	\$1,850.00
7.)	Estimated Development time to fluff out gravel pack, 4 hrs @ \$170.00/hr	\$680.00
	ESTIMATED TOTAL:	\$28,420.00

If you have any questions please let us know.

Very truly yours,
Denis L. Maher Company


Owen Murray
Director of Operations

Accepted and Agreed

Company _____

By _____
(Signature)

Name _____
(Please Print)

Title _____
(Please Print)

Date _____

NO WORK ON THE PROJECT WILL COMMENCE UNTIL DENIS L. MAHER COMPANY RECEIVES AND ACCEPTS THE SIGNED PROPOSAL/LETTER AGREEMENT. IF ACCEPTED, AN EXECUTED COPY WILL BE RETURNED TO YOU.

ACCEPTED

Denis L. Maher Company

By _____

Title _____

Date _____

VI. OLD BUSINESS

B. Well #10 Update



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

Maura T. Healey
Governor

Kimberley Driscoll
Lieutenant Governor

Rebecca L. Tepper
Secretary

Gary Moran
Acting Commissioner

January 10, 2023

Dan Pelletier, Director
Harwich Water & Sewer Department
196 Chatham Road
Harwich, MA 02645

RE: HARWICH—Public Water Supply
Harwich Water & Sewer Department
PWS ID #4126000
BRP WS17- Pumping Test Proposal
Transmittal Number 22-WS17-0003

Dear Mr. Pelletier:

Attached please find the Massachusetts Department of Environmental Protection's (the "Department") review of the pumping test proposal for the installation and testing of a new source well at the Town of Harwich's existing GPW-10 well site location.

The signature on this cover letter indicates formal issuance of the attached document. If you have any questions concerning this document, please contact Michelle Regon at (508) 946-2836 or via email at michelle.regon@mass.gov.

Sincerely,

Jim McLaughlin, Chief
Drinking Water Program
Bureau of Water Resources

JM/MR

Y:\DWP Archive\SERO\Harwich-4126000-System Modifications-2023-01-10

cc: Dan Pelletier, Harwich W&SD: dpelletier@harwichwater.com
Duane LeVangie, MassDEP-OWM: duane.levangie@mass.gov
Catherine Hamilton, MassDEP-DWP: catherine.sarafinas@mass.gov
Bruce Bouck, MassDEP-DWP: bruce.bouck@mass.gov
Giliane Tardieu, MassDEP-DWP: giliane.tardieu@mass.gov
Thomas Sexton, GZA: Thomas.Sexton@gza.com
Dan Tinkham, GZA: Daniel.Tinkham@gza.com
Sarah Dignard, GZA: Sarah.Dignard@gza.com
James Emery, GZA: James.Emery@gza.com
Town of Harwich-BOH: health@town.harwich.ma.us

This information is available in alternate format. Please contact Melixza Esenyie at 617-626-1282.

TTY# MassRelay Service 1-800-439-2370
MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

Harwich Water & Sewer Department
Harwich, Massachusetts
PWS ID #4126000
BRP WS 17- Pumping Test Proposal
ePlace Number 22-WS17-0003
Proposed New Source Well

The Massachusetts Department of Environmental Protection (the “Department”) received a BRP WS 17 application on November 11, 2022, for the installation and testing of a proposed new source well near the existing GPW-10 (4126000-11G) site in Harwich, Massachusetts. The permit application, pumping test proposal, and supporting materials were prepared and submitted on behalf of the Town of Harwich (“the PWS”) by its consultant Thomas Sexton, a Professional Engineer (Massachusetts PE license number 34967) with GZA GeoEnvironmental, Inc. The proposed new source well will be located 600 feet northeast of the existing GPW-10 east of Squantum Path in Harwich, Massachusetts. The proposed new source well will be tested at a withdrawal rate of 400-500 GPM and will be permitted at the pumping rate the well is tested at.

BACKGROUND

The PWS requires a new source well to add to the capacity and redundancy of its distribution system. The PWS will construct the new source production well and test for capacity and water quality. Based on a preliminary water quality assessment it is likely that treatment will likely be required for Iron and Manganese removal. A land use survey was also included in this pumping test proposal.

At this location there exists two distinct aquifers in the overburden above the bedrock. Varying sands and fines layers extend from ground surface to a semi confining layer of clay and silt at approximately 80 to 90-feet below land surface (bls). This layer continues to approximately 130ft bls, where there is another layer of water-producing sands. It’s this layer that the PWS is targeting for production (Cross sections are included in the pumping test proposal from GZA)

NEW SOURCE WELL DESIGN

The new source well will be sited 600 feet from the existing GPW-10. A 4-inch exploratory well (GZ-3-21) was installed at the site, developed, and tested for preliminary water quality and quantity measurements. The exploratory well was constructed with 10 feet of steel screen across an interval of 155-165 FT BLS, a depth of 165 FT BLS. A natural gravel pack was utilized during construction in the annular area.

The test well will be constructed next as an 8-inch diameter well bore with screening in the bottom of the well, depth and screen length and location to be determined from natural variability in the formation during drilling. A natural gravel pack will be utilized during construction in the annular space. The test well will utilize a submersible pump for testing.

Additional monitoring will be provided by: Observations wells – GZ-3-OBS-S-21, GZ-3-OBS-D-21, OW-1-22, OW-2-22, 1-03, GZ-4-21, 4-03, GZ-1-21, GPW-10, 3-03, 2-03, 2-73, 1-73, 16-87, two piezometer pairs, one in Herring Brook (up and down gradient) and one in Robbins Pond and Hickleys Pond, Ambient Wells GZ-1-21, 1-73, and a rain gage.

ZONE I

The proposed new source well site is compliant with current Zone I requirements. The PWS owns and controls the land in the 400 ft radius protection zone. The PWS is following an Aquifer Protection Zoning by-law that

meets the requirements of 310 CMR 22:21 and was drafted following the MassDEP Model Aquifer Protection By-Law. There are no contamination or land use concerns in the Zone I.

ZONE II

Once the 5- day pumping test is concluded the water level and pumping data will be utilized to delineate a new Zone II area of zoning protection. Please refer to Chapter 4 for conformance to Zone II delineation standards. There is a known Ground Water Discharge in the Zone II at the Harwich WWTP- Wingate GW Discharge. This area of infiltration is cross gradient to the pumping well and should not pose a contamination risk to the future water quality at the new source production well. Further water quality monitoring might be necessary if influence from the GW discharge is found.

PROPOSED PUMPING TESTS

5-Day pumping tests will be conducted at an anticipated rate of 400-500 GPM based upon the calculated approvable yield. This is determined by the specific capacity multiplied by the available water column (well depth to the screen, subtracting static water level and a safety factor of 5 feet). Based on figures in the BRP WS 17, the discharged water will be directed 1400 feet to the west and released into stilling basins flowing onto the land surface. During the pumping tests, water levels will be recorded in the pumping well and observation wells. There will be no surface water monitoring as there is no nearby surface water.

WATER QUALITY SAMPLING

During the new source well pumping test, temperature, pH, and specific conductance will be measured in the field one hour after startup of the tests, at the midpoint, and just prior to shutdown of the tests. Water quality testing parameters for this 5-day test can be found in Appendix A of the Department's *Guidelines for Public Water Systems*. Water quality samples for laboratory analysis will be collected for secondary contaminants one hour after startup of the tests, at the midpoint, and just prior to shutdown of the tests. Samples for volatile organic compounds (EPA Method 524.2) and Per- and Polyfluoroalkyl Substances (PFAS) will also be collected at the end of the tests. Samples will be submitted to a State certified laboratory under a chain of custody for analysis.

Per- and polyfluoroalkyl substances (PFAS) sampling is required for all New Sources, including production sources, utilizing analytical methodology EPA Method 537 or 537.1 in accordance with 310 CMR 22.07G(12)(a) and (b). Laboratories used should be listed by EPA <https://www.epa.gov/sites/production/files/2016-10/documents/ucmr3-lab-approval.pdf> or approved by the Department. Method 537 can be used to analyze drinking water for fourteen (14) PFAS compounds. Method 537.1 can be used to analyze drinking water for (18) PFAS compounds. The PWS shall require reporting limits of 2 parts per trillion (ppt) or lower for each of the following (6) PFAS:

- Perfluorooctanoic acid (PFOA)
- Perfluorooctanesulfonate (PFOS)
- Perfluorononanoic acid (PFNA)
- Perfluorohexanesulfonic acid (PFHxS)
- Perfluoroheptanoic acid (PFHpA)
- Perfluorodecanoic acid (PFDA)

All other PFAS contaminants must be reported at this level or, if not achievable, at the lowest feasible Minimum Reporting Level (MRL).

The proposed production well is to be located over 150 feet from the nearest surface water feature, Robbins Pond to the south. The well will be constructed with a sanitary seal. The proposed location and construction meet the exemption criteria for Groundwater Under Direct Influence of Surface Water (GWUDI). The new source well will not be subject to Microparticulate Analysis testing (MPA) or the Surface Water Treatment Rule (SWTR).

CONCLUSION

Following completion of the pumping tests, a source final report, permit category BRP WS 19, shall be submitted to the Department using the online ePlace application portal. The report shall include a qualitative and quantitative evaluation of the data gathered during the pumping tests, and a surveyed site plan showing the location and elevation of the new source well with a clear depiction of the Zone 1. Please contact the Department to determine if a hard copy of the report, figures, design plans and/or appendices should be submitted to the Department's SERO office. Please contact Department staff prior to submitting the pumping test report for instructions on how to submit the materials if you have questions. Please note, addition of a proposed new source well may require authorization under the Massachusetts Environmental Policy Act (MEPA) and a new Water Management Act (WMA) permit application.

Either following or simultaneously with the source final report, the PWS will need to submit an application for a BRP WS 20 – Approval to Construct a Source 70 Gallons per Minute or Greater. The application package shall include: a surveyed site plan showing the location and elevation of the wellfield and the extent of the Zone I; profile of each well; design plans and specifications for construction of the finished wellfield, any associated pumping station upgrades, and conveyance to a water treatment plant.

The new source well may not be used for public water supply until the Department has granted its written final approval to do so. The Department will issue a public water supply source identification number upon final approval.

This approval pertains only to the water supply aspects of the proposal and therefore does not negate the responsibility of the owners or operators to comply with other applicable Federal, State or local laws, and/or regulations. For the purpose of the application BRP WS17 (ePlace No. 22-WS17-0003) the Technical Review has been completed.

VI. OLD BUSINESS

C. FY24 Water & Wastewater Budget

Water Enterprise Fund

V.011723

FY 2024 BUDGET

1/27/23

ORG/OBJ	DESCRIPTION	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
1320	WATER ENTERPRISE FUND				
596000	OFUS / INDIRECTS	\$730,290	\$727,304	\$759,277	\$818,913
	WATER ENTERPRISE FUND	\$730,290	\$727,304	\$759,277	\$818,913
13204501	WATER ENTERP SALARIES & WAGES	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
511100	SALARIES ELECTED OFFICIALS	\$3,167	\$5,000	\$5,000	\$5,000
511900	SALARIES & WAGES	\$929,095	\$949,016	\$993,386	\$1,016,066
512000	SEASONAL S&W	\$14,201	\$4,141	\$33,946	\$35,654
512500	COMPENSATORY TIME	\$1,953	\$1,416	\$0	\$0
512501	STIPEND	\$0	\$0	\$0	\$0
513000	OVERTIME	\$231,946	\$234,945	\$206,020	\$278,396
513060	FLUSHING OT	\$0	\$0	\$31,185	\$0
514000	LONGEVITY	\$28,306	\$11,753	\$26,050	\$33,665
515000	VACATION SALARIES & WAGES	\$0	\$0	\$0	\$0
515005	SICK LEAVE BUY-BACK@RETIREMENT	\$8,299	\$10,818	\$0	\$0
515007	SICK LEAVE BONUS PER CONTRACT	\$1,675	\$1,700	\$3,325	\$3,325
516000	ENHANCEMENT OF SERVICES	\$0	\$0	\$0	\$21,044
	WATER ENTERP SALARIES	\$1,218,643	\$1,218,789	\$1,298,912	\$1,393,151
					7.26%
13204502	WATER ENTERPRISE FUND EXPENSES	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
517900	OTHER FRINGE BENEFITS	\$7,530	\$9,971	\$8,800	\$11,000
521100	ELECTRIC UTILITY	\$361,269	\$341,499	\$366,427	\$407,176
521200	GAS UTILITY	\$5,855	\$7,534	\$8,000	\$8,000
524140	VEHICLE/EQUIPMENT MAINTENANCE	\$69,965	\$51,637	\$71,000	\$52,000
524160	BUILDING & GROUNDS MAINTENANCE	\$32,134	\$51,735	\$130,983	\$52,000
525000	TECHNICAL SUPPORT AGREEMENTS	\$23,755	\$34,933	\$43,540	\$43,540
526000	BUILDING MAINT AGREEMENTS	\$9,865	\$4,137	\$22,750	\$22,750
530800	LABORATORY SERVICES	\$35,314	\$12,278	\$35,314	\$35,314
530820	PROFESSIONAL SERVICES	\$106,456	\$86,353	\$60,000	\$85,000
530875	PRINTING SERVICES & SUPPLIES	\$8,932	\$9,147	\$10,000	\$10,000
534100	ADVERTISING	\$2,730	\$2,491	\$1,500	\$2,500
534300	POSTAGE	\$17,017	\$18,094	\$17,500	\$18,500
534400	TELEPHONE	\$7,391	\$7,453	\$7,700	\$7,700
534430	COMMUNICATION SERVICES	\$17,789	\$16,430	\$19,000	\$19,000
541100	PROPANE UTILITY	\$14,250	\$16,067	\$18,944	\$16,100
542000	OFFICE SUPPLIES	\$6,284	\$4,582	\$6,300	\$6,300
542013	HARDWARE/SOFTWARE/OFFICE	\$12,721	\$6,042	\$25,924	\$25,924
548100	BULK FUEL	\$15,280	\$26,658	\$24,165	\$27,000
548200	TREATMENT SUPPLIES	\$42,986	\$14,380	\$27,500	\$18,000
548250	TREATMENT CHEMICALS	\$157,042	\$165,877	\$165,000	\$247,850
553000	PUBLIC WORKS SUPPLIES	\$27,799	\$14,751	\$27,800	\$27,800

Water Enterprise Fund

V.011723

FY 2024 BUDGET

1/27/23

ORG/OBJ	DESCRIPTION	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
553100	METERS/READ DEVICES & SUPPLIES	\$108,908	\$115,987	\$180,000	\$180,000
553200	SERVICE INSTALLATION SUPPLIES	\$48,668	\$77,125	\$48,700	\$77,000
553300	PIPES, VALVES & FITTINGS	\$72,452	\$110,394	\$90,000	\$110,500
553350	WATER MAIN REPLACEMENT	\$98,093	\$31,083	\$35,000	\$85,000
553500	POLICE DETAILS	\$27,906	\$27,413	\$35,000	\$27,500
553600	ROAD REPAIRS	\$34,476	\$16,401	\$34,500	\$16,500
553900	MECHANICAL TANK MAINT & INSP	\$6,930	\$12,495	\$10,000	\$13,000
554200	GENERATOR MAINT	\$13,809	\$29,634	\$14,000	\$29,700
554300	WELL REHAB	\$5,711	\$0	\$45,000	\$45,000
558100	UNIFORMS AND SAFETY SUPPLIES	\$2,543	\$3,819	\$17,280	\$10,000
573000	DUES/SUBSCRIPTIONS/TRAVEL	\$12,954	\$8,474	\$13,000	\$13,000
573200	WATER MGMT PERMIT	\$7,340	\$6,934	\$8,500	\$8,500
575070	OPEB	\$50,000	\$50,000	\$50,000	\$50,000
591000	MATURE PRINCIPAL LONGTERM DEBT	\$547,671	\$549,467	\$396,438	\$398,317
591500	INTEREST ON LONG TERM DEBT	\$171,150	\$152,510	\$138,115	\$127,983
591550	ADMIN FEE LT DEBT	\$2,343	\$2,219	\$2,095	\$1,966
	WATER ENTERP EXPENSES	\$2,193,318	\$2,096,003	\$2,215,775	\$2,337,420
					5.49%
13204504	WATER ENTERP FUND REVENUE	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
414600	WATER LIENS COLLECTED	\$26,326	\$14,539	\$20,915	\$17,422
417008	PEN & INT WATER LIENS	\$3,115	\$1,641	\$3,116	\$2,457
421100	WATER RATES & SERVICES	\$4,356,298	\$4,298,718	\$4,420,975	\$4,419,575
421200	METERS & SUPPLIES	\$5,325	\$15,564	\$7,252	\$9,151
421300	ADMINISTRATIVE FEES	\$700	\$1,236	\$1,645	\$1,332
421400	SERVICE INSTALLATIONS	\$238,410	\$173,601	\$190,659	\$183,693
421450	MARKOUT SERVICES	\$26,627	\$13,734	\$16,753	\$20,181
421550	PROPERTY TRANSFER SERVICES	\$24,593	\$20,922	\$23,681	\$22,757
421600	WIRELESS COMMUNICATION LEASE	\$130,164	\$135,483	\$143,903	\$148,220
421650	SOLAR REVENUE WATER	\$94,541	\$169,592	\$70,562	\$132,022
431100	WATER SERVICE TIGHT PLAN	\$88,015	\$91,728	\$96,016	\$98,056
433007	LATE FEE	\$52,982	\$57,019	\$47,065	\$49,815
441100	ELECTRICAL SERVICES	\$3,200	\$1,200	\$0	\$0
451100	BACKFLOW INSPECTIONS	\$19,472	\$37,464	\$20,366	\$21,838
482001	INVESTMENT REVENUE	\$9,144	\$797	\$21,200	\$11,676
484099	MISCELLANEOUS REVENUE	\$60,923	\$55,437	\$54,331	\$52,700
	WATER ENTERP REVENUE	\$5,139,837	\$5,088,676	\$5,138,439	\$5,190,896
					1.02%
		FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
	TOTAL REVENUE	\$5,139,837	\$5,088,676	\$5,138,439	\$5,190,896
	TOTAL EXPENSES	\$4,142,250	\$4,042,096	\$4,273,964	\$4,549,484
	<i>Delta</i>	<i>\$997,587</i>	<i>\$1,046,580</i>	<i>\$864,475</i>	<i>\$641,412</i>
					6.45%

Wastewater Enterprise Fund

V.011723

FY 2024 BUDGET

1/27/23

ORG/OBJ	DESCRIPTION	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
1330	WASTEWATER ENTERPRISE FUND				
596000	OFUS	\$0	\$31,446	\$31,687	\$34,930
	WASTEWATER ENTERPRISE FUND	\$0	\$31,446	\$31,687	\$34,930
13304401	WASTEWATER ENTERP SALARIES & WAGES	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
511900	SALARIES & WAGES	\$77,968	\$78,997	\$80,848	\$93,882
516000	ENHANCEMENT OF SERVICES				\$38,301
	WASTEWATER ENTERP SALARIES	\$77,968	\$78,997	\$80,848	\$132,183
13304402	WATER ENTERPRISE FUND EXPENSES	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
521100	ELECTRIC UTILITY	\$0	\$3,836	\$20,000	\$20,000
521200	GAS UTILITY	\$0	\$562	\$600	\$600
530820	PROF/ARCHITECT/ENG SERVICES	\$125,249	\$174,036	\$381,160	\$391,679
530875	PRINTING SERVICES & POSTAGE	\$0	\$3,000	\$650	\$3,000
554200	GENERATOR MAINT	\$0	\$285	\$2,250	\$2,250
554210	COLLECTIONS SYSTEM MAINTENANCE	\$0	\$0	\$20,000	\$20,000
	WASTEWATER ENTERP EXPENSES	\$125,249	\$181,719	\$424,660	\$437,529
13304404	WASTEWATER ENTERP FUND REVENUE	FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
422000	WASTEWATER USER FEES	\$0	\$305	\$0	\$15,000
482001	INVESTMENT REVENUE	\$1,298	\$288	\$0	
483000	CONTRIBUTIONS DONATIONS	\$0	\$989	\$0	
	WASTEWATER ENTERP REVENUE	\$1,298	\$1,582	\$0	\$15,000
		FY 2021 ACTUALS	FY 2022 ACTUALS	FY 2023 BUDGET	FY 2024 BUDGET
	TOTAL REVENUE	\$1,298	\$1,582	\$0	\$15,000
	TOTAL EXPENSES	\$203,217	\$292,162	\$537,196	\$604,642
		-\$201,918	-\$290,580	-\$537,196	-\$589,642
					12.56%

VI. OLD BUSINESS

D. Water Restrictions Bylaw & Special Legislation

§ 300 Water Conservation Bylaw.

§300.1: Authority. This bylaw is adopted by the Town under its police powers pursuant to the Home Rule Amendment of the Massachusetts Constitution, Article LXXXIX, to protect public health and welfare and pursuant to its powers under M.G.L. c. 40, §§ 21 et seq. and implements the Town's authority to regulate water use pursuant to M.G.L. c. 41, § 69B. This by-law also implements the Town's authority under M.G.L. c. 40, § 41A, conditioned upon a declaration of water supply emergency issued by the Department of Environmental Protection under G.L. c. 21G, §§ 15-17. This by-law is also intended to implement other water conservation requirements of M.G.L. c. 21G, the "Massachusetts Water Management Act" and its regulations promulgated at 310 CMR 36.00. **The Water and Wastewater Commission is hereby authorized to enact regulations to carry out the purposes of this bylaw.**

§300.2: Purpose.

The purpose of this bylaw is to protect, preserve and maintain the public health, safety, welfare and the environment whenever there is in force a "State of Water Supply Conservation", a "State of Drought" or a "State of Water Supply Emergency" by ensuring an adequate supply of water for drinking and fire protection and to protect the quality and quantity of water in local aquatic habitats such as ponds, rivers and wetlands. This purpose will be accomplished by providing for the imposition and enforcement of any duly implemented restrictions, requirements, provisions, or conditions on water use imposed by the Town in accordance with this by-law and/or by the Department of Environmental Protection under its state law authorities.

§300.3: Applicability.

All Town customers of the public water supply system and private well users shall be subject to this by-law. This by-law shall be in effect year-round, or for such periods of time as the water and wastewater Commission may designated by regulation.

§300.4: Definitions.

As used in this article, the following terms shall have the meanings indicated.

"Agriculture" shall mean farming in all its branches as defined at M.G.L. c. 128, § 1A.1.¹

¹ This statutory definition includes cultivation of the soil, dairying and the production, cultivation, growing and harvesting of agricultural, aquacultural, floricultural or horticultural commodities as well as forest harvesting, raising livestock inclusive of bees and fur-bearing animals and forestry, lumbering, preparation for market, delivery to storage or market or to carriers to market incidental to an agricultural operation.

“Automatic irrigation system, including sprinklers” shall mean any system for watering vegetation other than a hand-held hose, a bucket or a drip-irrigation system outside the hours of 9:00 am to 5:00 pm.

“Nonessential outdoor water use” shall mean those uses that are not required:

1. for health or safety reasons;
2. by regulation;
3. for the production of food and fiber;
4. for the maintenance of livestock; or
5. to meet the core functions of a business.

Nonessential outdoor water uses that are subject to mandatory restrictions include:

- irrigation of lawns, shrubs or gardens via sprinklers or automatic irrigation systems;
- washing of vehicles, except in a commercial car wash or as necessary for operator safety or to prevent damage and/or maintain performance of agricultural or construction vehicles or equipment; and
- washing of exterior building surfaces, parking lots, driveways or sidewalks, except as necessary to apply paint, preservatives, stucco, pavement or cement.

Exceptions to nonessential outdoor water uses may irrigation of lawns, gardens, flowers and ornamental plants by means of a hand-held hose controlled by a nozzle or a drip-irrigation system outside the hours of 9:00 am to 5:00 pm; and irrigation with harvested and stored storm-water runoff, or such other exceptions as may be determined by the Water and Waste Water Commission by regulation.

The following outdoor water uses are subject to review and approval by the Town, through its Water and Wastewater Commission or its designee:

- irrigation of public parks and recreation fields outside the hours of 9 AM to 5 PM.
- irrigation to establish replanted or re-sodded lawn or plantings during the months of May and September;
- irrigation of newly planted lawns (seeded or sodded) in the current calendar year for homes or businesses newly constructed in the previous twelve months; and
- filling of privately owned outdoor pools.

“Person” shall mean any individual, corporation, trust, partnership, association, agency or authority, or other entity and any officer, employee, group or agent of such persons.

“State of Drought” shall mean a Drought Advisory, Watch, Warning or Emergency declared by the Secretary of Energy and Environmental Affairs in consultation with the Massachusetts Drought Management Task Force.

“State of Water Supply Emergency” shall mean a State of Water Supply Emergency declared by the Department of Environmental Protection under M.G.L. c. 21G, §§ 15-17.

“State of Water Supply Conservation” shall mean a State of Water Supply Conservation declared by the Town pursuant to §300.5 of this by-law.

“Water Customers” shall mean all persons using the public water supply regardless of that person’s responsibility for payment for use of the water.

“Water Users” shall mean all persons using the public water supply or using privately-owned wells within the Town boundaries, including privately-owned wells used for irrigation.

§ 300.5: Declaration of a State of Water Supply Conservation.

The Town, through its Water and Wastewater Commission or its designee authorized to act as such:

- a) may declare a State of Water Supply Conservation upon a determination that conservation measures are appropriate to ensure an adequate supply of water for drinking and fire protection, to protect the quality and quantity of water in local aquatic habitats such as ponds, rivers, and wetlands; and
- b) shall declare a State of Water Supply Conservation as necessary to ensure compliance with the Water Management Act.

Upon notification to the public that a State of Water Supply Conservation has been declared, no water customer shall violate any provision, restriction, requirement, or condition of the declaration. The Water and Wastewater Commission may designate the Water Department Superintendent, Town Administrator, or DPW Director to declare a State of Water Supply Conservation at any time that conditions warrant. Public notice of a State of Water Supply Conservation shall be given under §300.9 of this bylaw before it may be enforced. The applicable restrictions, conditions or requirements shall be included in the public notice.

§ 300.6: State of Drought.

Upon notification to the public that a State of Drought has been declared, no water user shall violate any provision, restriction, requirement, or condition of the Town’s water use restrictions. Public notice of a State of Drought shall be given under §300.9 of this bylaw before it may be enforced. The applicable restrictions, conditions, or requirements shall be included in the public notice.

§ 300.7: Declaration of a State of Water Supply Emergency.

Upon notification to the public that a declaration of a State of Water Supply Emergency has been issued by the Department of Environmental Protection, no person shall violate any provision, restriction, requirement, or condition of any order approved or issued by the Department of Environmental Protection for the purpose of bringing about an end to the State of Water Supply Emergency. Public notice of a State of Water Supply Emergency shall be given under §300.9 of this bylaw before it may be enforced. The applicable restrictions, conditions or requirements shall be included in the public notice.

§300.8: Restricted Water Uses.

A declaration of a State of Water Supply Conservation, State of Drought or State of Water Supply Emergency shall include one or more of the following restrictions, conditions or requirements limiting nonessential outdoor water use by water users as necessary to control the volume of water pumped each day, except as provided as an acceptable exemption in §300.4. The applicable restrictions, conditions or requirements shall be included in the public notice required under §300.9.

a) Nonessential outdoor water use days: Nonessential outdoor water use is permitted only on the days per week specified in the State of Water Supply Conservation, State of Drought or State of Water Supply Emergency and public notice thereof. During a State of Water Supply Conservation, nonessential outdoor water use is restricted as necessary to ensure compliance with the Water Management Act, or for a Town or Water District without a Water Management Act permit, to two days or fewer per week.

b) Nonessential outdoor water use hours: Nonessential outdoor water use is permitted only during the hourly periods specified in the State of Water Supply Conservation, State of Drought or State of Water Supply Emergency and public notice thereof. At a minimum, nonessential outdoor water use is prohibited during the hours from 9AM to 5PM.

c) Nonessential outdoor water use method restriction: Nonessential outdoor water use is restricted to a bucket or hand-held hose controlled by a nozzle or a drip-irrigation system outside the hours of 9:00 am to 5:00 pm.

d) Nonessential outdoor water use ban: Nonessential outdoor water use is prohibited at all times.

e) Automatic irrigation systems, including sprinklers: The use of automatic irrigation systems is prohibited.

§300.9: Public Notification and Notification of DEP.

a) Public Notification of a State of Water Supply Conservation or a State of Drought – Notice to the public of all provisions, including all restrictions, requirements and conditions imposed by the Town as part of a State of Water Supply Conservation or a State of Drought shall be made as soon as possible, but no later than 48 hours following the declaration of a State Water Supply Conservation or State of Drought by publication

in a newspaper of general circulation within the Town and by signage on major roadways or intersections. Notification may also include email, Web sites, public service announcements on local media, reverse 911 calls or other such means reasonably calculated to reach and inform all public and private water users.

b) Public Notification of a State of Water Supply Emergency – Notice to the public of all provisions, including all restrictions, requirements and conditions imposed by a State of Water Supply Emergency declared by the Department of Environmental Protection shall be made as soon as practical after the public water system receives notice of the Department of Environmental Protection's declaration of a State of Water Supply Emergency, by publication in a newspaper of general circulation within the Town and by signage on major roadways or intersections. Notification may also include email, Web sites, public service announcements on local media, reverse 911 calls or other such means reasonably calculated to reach and inform all water users of the State of Water Supply Emergency.

c) Any restriction imposed pursuant to §300.5, §300.6, and §300.7 or in the Department's State of Water Supply Emergency or Order shall not be effective until notification to the public is provided.

d) Notification of DEP: Submittal of MassDEP's form "Notification of Water Use Restriction" shall be provided to the Massachusetts Department of Environmental Protection within 14 days of the effective date of the restrictions, per MassDEP regulations (310 CMR 22.15(8)).

§300.10: Termination of a State of Water Supply Conservation.

Notice of a State of Water Supply Conservation may be terminated by a majority vote of the Water and Wastewater Commission or by decision of their designee upon a determination by either or both of them that the conditions requiring the State of Water Supply Conservation no longer exist, or in accordance with the Water Management Act permit conditions. Public notification of the termination of a State of Water Supply Conservation shall be given in the same manner as is required in §300.9 for notice of its imposition.

§300.11: Termination of a State of Drought; Notice.

Upon notification to the Town, the Water and Wastewater Commission or their designee that the State of Drought has been terminated by the Secretary of Energy and Environmental Affairs, the public will be notified of the termination in the same manner as is required in §300.9 for notice of its imposition.

§300.12: Termination of a State of Water Supply Emergency; Notice.

Upon notification to the Town or to the Water and Wastewater Commission or their designee that the declaration of a State of Water Supply Emergency has been

terminated by the Department of Environmental Protection, the public will be notified of the termination in the same manner as is required in §300.9 for notice of its imposition.

§300.12: Penalties.

The Town, through its Water and Wastewater Commission or its designee including the Water Superintendent, Building Inspector and/or local police, may enforce this by-law. Any person violating this by-law shall be liable to the Town in the amounts listed below:

1) First violation: Warning

2) Second violation: \$50.00

3) Third violation: \$100.00

4) Fourth and subsequent violations: \$250.00

Each day of violation shall constitute a separate offense. Fines shall be recovered by complaint before the District Court, or by non-criminal disposition in accordance with Section 21D of Chapter 40 of the MA General Laws. For purposes of non-criminal disposition, the enforcing person shall be any police officer of the town or the Water Superintendent or the Superintendent's designee. If a State of Water Supply Emergency has been declared the Water and Wastewater Commission may, in accordance with G.L. c. 40, § 41A, shut off the water at the meter or the curb stop.

Subject to the approval of a home rule petition by the Massachusetts General Court, (1) violations of this bylaw may in the alternative be punishable by the imposition of a fine of \$500 for each violation; (2) the Town may also enforce this bylaw by the assessment of a civil penalty not to exceed \$5,000 for each violation; and (3) the Town may, after a public hearing, shut off the water at the meter or curb stop of any water user found to have repeatedly violated this bylaw.

§300.13: Right of entry.

Agents of the enforcement person may enter by owner permission or by warrant only any property for the purpose of inspecting or investigating any violation of this bylaw or for the purpose of enforcing the same.

§300.14: Severability.

The invalidity of any portion or provision of this by-law shall not invalidate any other portion or provision thereof.

To see if the Town will vote to request its representatives in the General Court to introduce special legislation regarding enforcement of water conservation measures, and to authorize the General Court, with the approval of the Board of Selectmen, to make changes of form to the text thereto as may be necessary or advisable in order to accomplish the intent and public purpose of this legislation in order to secure passage, as follows:

AN ACT RELATIVE TO THE WATER AND WASTEWATER COMMISSION OF THE TOWN OF HARWICH

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same as follows:

Section 1: Notwithstanding any general or special law to the contrary, the water and wastewater commission of the town of Harwich is hereby authorized to assess a fine in the amount of five hundred dollars for the violation of any water conservation general bylaw or regulation. Such fines may be enforced through the noncriminal disposition procedures of section 21D of chapter forty of the General Laws. In addition, said commission may assess a civil penalty not to exceed five thousand dollars for such violations.

Section 2: The Water and Wastewater Commission may, after a public hearing, shut off the water at the meter or curb stop of any water user found to have repeatedly violated a water conservation bylaw or regulation of the town of Harwich.

Section 3: This act shall take effect upon passage.

Or to take any other action relative thereto.

VII. NEW BUSINESS

A. 2023 Draft SRF Intended Use Plan



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

100 Cambridge Street 9th Floor Boston, MA 02114 • 617-292-5500

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Bethany A. Card
Secretary

Martin Suuberg
Commissioner

DRAFT 2023 INTENDED USE PLAN

For the

CLEAN WATER STATE REVOLVING FUND

December 16, 2022



This information is available in alternate format. Contact Glynis Bugg at 617-348-4040.
TTY# MassRelay Service 1-800-439-2370
MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

EXECUTIVE SUMMARY

The Massachusetts Department of Environmental Protection (MassDEP) is pleased to present the Draft Calendar Year 2023 Intended Use Plan (IUP). The IUP details the projects, borrowers and amounts that are being recommended for financing through the Clean Water State Revolving Fund (CWSRF) loan program. The CWSRF is a joint federal-state financing program that provides subsidized loans to improve and protect water quality and public health in the Commonwealth.

Massachusetts is offering approximately \$903 million to finance clean water projects across the Commonwealth. As noted in Table 1, approximately \$878 million is being offered to finance 59 new construction projects, and \$2 million is being offered to finance 2 previously approved multi-year projects. A total of \$ 3 million has been allocated to the emergency set-aside account. An additional \$5 million will be directed to the Community Septic Management Program (CSMP) to remediate failed septic systems in participating communities. An additional \$15 million has been set-aside to finance planning and PFAS design projects in calendar year 2023; MassDEP will begin accepting loan applications for planning projects and PFAS design projects, on a rolling basis, as soon as the Final IUP is published.

Twenty-seven project proposals, totaling approximately \$5 million, as shown in Table 2, are recommended 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 (the Trust), totaling approximately \$3 million for the 2023 applicants. The balance of the cost may be funded by local contributions of cash, or a combination of cash and in-kind services. All or part of the local contribution may be borrowed from the Trust at the standard 2% interest rate for a term of up to five years.

2023 Highlights

- On November 15, 2021, President Biden signed the Bipartisan Infrastructure Law (BIL) that provides two new federal grants through the CWSRF:
 1. Supplemental Clean Water State Revolving Fund Grant
 2. Emerging Contaminants Grant

These grants will be provided annually over the next five years. For fiscal year 2023, Massachusetts expects to receive \$70.5 million for the Supplemental CWSRF Grant and \$7.2 million in the Emerging Contaminants Grant. The Supplemental CWSRF Grant requires that Massachusetts provide \$34.5 million, 49% of the total grant amount, as loan forgiveness to Disadvantaged Communities. The Emerging Contaminant Grant requires that the entire \$7.2 million be provided as loan forgiveness for any eligible project.

Using supplemental funds, Massachusetts anticipates being able to offer fixed percentages of additional loan forgiveness for eligible projects on the 2023 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 (The 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 2023 IUP capacity is evidence of the additional BIL funding being put to use in the Commonwealth, 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 Clean Water Act (CWSRF Base Program):

American Iron and Steel (AIS) – The AIS procurement requirement is permanent for *all* CWSRF construction projects going forward.

Build America, Buy America (BABA) Act – BIL also expands domestic sourcing requirements with the inclusion of the 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, unless (i) the SRF borrower has requested and obtained a waiver from the USEPA pertaining to the Project or the Project is otherwise covered by a general applicability waiver; or (ii) the MassDEP has otherwise advised the borrower in writing that the Build America, Buy America requirement is not applicable to the project. 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>. Additionally, USEPA issued an adjustment period waiver for projects that initiated planning design prior to May 14, 2022, a small project applicability waiver for projects with SRF loans of \$250,000 or less, and a De Minimis waiver: <https://www.epa.gov/cwsrf/build-america-buy-america-baba-approved-waivers>. The USEPA will be issuing BABA implementation guidance specific to the SRF program.

- BIL establishes an additional subsidy range of 10% to 30% for the annual CWSRF capitalization grant, while Congress also requires that states use 10% of the annual CWSRF capitalization grant for additional subsidy. Massachusetts expects a capitalization grant award of approximately \$53 million in 2023. Additional subsidy will be provided in the form of loan forgiveness for communities that might otherwise not be able to afford to undertake the project. MassDEP and the Trust will continue to provide loan forgiveness as a fixed percentage of principal. Further details may be found in section I(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>.
- MassDEP is also offering loan forgiveness for projects with a renewable energy component.
- To better address specific state priorities, *Section 302 of the 1996 Safe Drinking Water Act Amendments*, allow states the flexibility to move funds between the CWSRF and the Drinking

Water State Revolving Fund (DWSRF) programs. Massachusetts will transfer non-federal funds from the CWSRF to the DWSRF program in the amount of \$24.3 million (33% of the 2023 DWSRF capitalization grant amount estimated at \$25.5 million and the supplemental grant amount of \$48.2 million). Additionally, the CWSRF Emerging Contaminants Grant will be transferred to DWSRF, as detailed below. Massachusetts reserves authority of future transfers of Supplemental BIL funds.

- BIL allows states the flexibility to move funds between the CWSRF and the DWSRF programs. Due to great demand for DWSRF PFAS remediation projects, Massachusetts will transfer \$7.2 million of CWSRF Emerging Contaminant funds to the DWSRF Emerging Contaminant program (100% of the grant amount). This transfer will not adversely impact the CWSRF projects in this IUP.

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

TABLE 1
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2023 CWSRF Draft Intended Use Plan

NEW PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	2023IUP Cost
552	YARMOUTH #(PF)(RE)(SG)	8349	Phase I - WRRF and Collection System	\$207,244,000	\$50,000,000
550	NEW BEDFORD #(PF)(SG)	12413	Wastewater Collection System Improvements	\$21,315,000	\$21,315,000
549	BARNSTABLE #(H)(PF)(SG)	7346	FY24-25 BWPCF Improvements	\$6,121,800	\$6,121,800
546	NANTUCKET #(H)(SG)	12453	Phase 2 Surfside WWTF Improvements	\$12,922,000	\$12,922,000
544	KINGSTON (PF)(BG)	10373	Effluent Recharge Site No. 3 & Sewer Expansion	\$11,652,000	\$11,652,000
544	TAUNTON (H)(PF)(BG)	12563	2024 Pump Station Improvements	\$7,000,000	\$7,000,000
543	BILLERICA #(H)(PF)(BG)	7300	Infiltration/Inflow Rehabilitation Project	\$1,487,200	\$1,487,200
543	HOLYOKE #(PF)(BG)	7339	River Terrace Sewer Separation Project - Phase 1	\$10,500,000	\$10,500,000
543	FITCHBURG #(PF)(BG)	12395	CSO 032, 045, 083 Separation/Rehabilitation 12525	\$22,350,000	\$22,350,000
543	CHATHAM #		WPCF Sludge Processing Upgrades	\$5,000,000	\$5,000,000
542	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(W)	12490	Primary Treatment Upgrade at the Springfield Region	\$14,010,000	\$14,010,000
542	TAUNTON #(H)(PF)	12561	2024 Sewer and Drain Improvements	\$4,000,000	\$4,000,000
540	FALL RIVER #(PF)	12466	Mothers Brook Sewer Replacement	\$22,160,000	\$22,160,000
540	HAVERHILL #(PF)	7252	Haverhill MA Locke Street Sewer Separation Phase 1	\$7,004,200	\$7,004,200
539	HARWICH (PF)	7290	Harwich Phase 3 Sewer Extension	\$48,927,000	\$41,900,410
539	MASHPEE (PF)	7334	Phase 1 Mashpee Treatment and Collection System	\$12,000,000	\$12,000,000
538	BARNSTABLE (H)(PF)	7305	Park City Wind Route Sewer Expansion	\$30,900,000	\$30,900,000
538	REVERE #(PF)	7310	Phase 14 Construction - I/I, IDDE, P.S. & Drainage	\$10,000,000	\$10,000,000
538	ACUSHNET (PF)	8356	CWMP Needs Area 2 Sewer Extension	\$14,400,000	\$14,400,000
538	HARWICH (PF)	10378	Harwich Rt. 28 Sewer Construction Project	\$8,099,590	\$8,099,590
538	HULL #(PF)	11385	Collection System Improvements Phase 2	\$15,471,760	\$15,471,760
538	NEW BEDFORD (PF)	12507	Sassaquin Pond Water Quality Improvements	\$9,340,000	\$9,340,000
536	HAVERHILL #(PF)	9366	Sewer System Improvements - CIPP Lining	\$2,275,000	\$2,275,000
535	FALL RIVER #(PF)	9369	Birch Street Sewer Separation	\$18,000,000	\$18,000,000
535	HAVERHILL #(PF)	10381	WWTP Upgrades	\$41,730,000	\$37,433,800
534	TYNGSBOROUGH (H)(PF)	7293	Phase 3 Sewer Extension & Sunset Park	\$21,595,374	\$21,595,374
534	LAWRENCE #(H)(PF)	12479	Sewer and Drainage Improvements/ Contract 7	\$7,711,000	\$7,711,000
533	LOWELL #(H)(PF)	12454	Duck Island WWTF Phase 3 Upgrade	\$28,100,000	\$28,100,000
532	SAUGUS #(PF)	12442	Comprehensive Sewer System Rehabilitation- 3A	\$3,453,789	\$3,453,789

532 BILLERICA #(H)(PF)	7307 Sewer Contracts 37 & 38	\$58,860,909	\$41,286,040
532 HAVERHILL (PF)	12419 Pump Station Upgrades	\$3,287,000	\$3,287,000
531 NORTH READING	7336 North Reading Wastewater Collection System	\$107,200,000	\$50,000,000
531 SOMERVILLE #(H)(PF)	12441 Morrison & Winslow Ave Flood & CSO Mitigation	\$49,957,000	\$49,957,000
529 QUINCY #(H)(PF)	8364 FY24 Sewer & Drain Improvements	\$10,000,000	\$10,000,000
527 BROCKTON #(H)(PF)	12444 Cashman Road Sewer	\$4,500,000	\$4,500,000
527 BROCKTON #(H)(PF)	12445 Sewer System Rehabilitation Phase 3	\$2,700,000	\$2,700,000
526 WELLFLEET	12470 95 Lawrence Wastewater Treatment and Collection	\$6,309,000	\$6,309,000
525 FALL RIVER (PF)	7345 Ferry Street Pump Station Rehabilitation	\$2,955,900	\$2,955,900
525 QUINCY (H)(PF)	12398 Wollaston Stormwater Capacity Improvements Phase 1	\$5,000,000	\$5,000,000
525 WORCESTER #(H)(PF)	12524 Quinsigamond Avenue CSO Facility Upgrades	\$14,090,000	\$14,090,000
524 LOWELL (H)(PF)	12549 Douglas Road Wet Weather Satellite Storage Tank	\$9,626,000	\$9,626,000
522 BILLERICA #(H)(PF)	7349 Rangeway Road Sewer and Pump Station	\$4,466,760	\$4,466,760
521 WORCESTER (H)(PF)	8353 Lake Avenue Pump Station Improvements	\$6,200,000	\$6,200,000
520 SUDBURY (H)	7251 WWTF and Collection System Project	\$58,711,600	\$50,000,000
510 ACTON (H)	7277 Acton Great Road Sewer Project	\$20,854,000	\$20,854,000
444 SOMERSET #(PF)	8360 Somerset Wastewater Pump Station Upgrades	\$4,780,000	\$4,780,000
439 GREATER LAWRENCE SANITARY DISTRICT	12456 NORTH BANK INTERCEPTOR CSO STORAGE FACILITY	\$71,350,000	\$50,000,000
434 NEW BEDFORD (PF)	12414 Wastewater Treatment Plant Improvements	\$11,500,000	\$11,500,000
434 MARION #	12487 Creek Road Pump Station Resiliency Improvements	\$3,000,000	\$3,000,000
433 BARNSTABLE #(H)(PF)	7302 2023 Wastewater Pump Station Improvements	\$3,320,000	\$3,320,000
429 BARNSTABLE (H)(PF)	7291 Sewer Extension and Vacuum Sewer Removal	\$1,120,000	\$1,120,000
426 MARSHFIELD	10375 Plymouth Ave Pump Station Upgrades	\$8,117,000	\$8,117,000
426 NEW BEDFORD (PF)	12508 Buttonwood Brook Improvements	\$4,200,000	\$4,200,000
419 SHREWSBURY	12483 Rolfe & Maple Ave PS Upgrade and FM Replacement	\$9,820,000	\$9,820,000
341 PLYMOUTH #(H)(PF)	12462 Camelot Drive Sewer Extension Project	\$12,647,000	\$12,647,000
340 BILLERICA #(H)(PF)	7309 Darby and Waterview Avenue Pump Stations	\$2,760,000	\$2,760,000
332 WAREHAM (PF)	12430 WPCF Improvements - Phase 2	\$36,450,000	\$16,000,000
329 UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT #(RE)	7324 Standby Power for Resiliency	\$10,000,000	\$10,000,000
328 WELLFLEET	12403 Wellfleet Enhanced I&A Septic System Program	\$3,000,000	\$3,000,000

TOTAL OF NEW PROJECTS

\$1,171,551,882 \$877,698,623

(Count: 59)

(Average Rating: 502.15)

(BG) - Base Capitalization Grant
(D) - Deposited by Applicant
(H) - Housing Choice Communities
(PF) - Affordability Criteria
(RE) - Potential Renewable Energy Projects
(SG) - BIL CWSRF General Supplemental Grant
(W) - Water Infrastructure Finance and Innovation Act (WIFIA)
- 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>)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	SRF ID	Project	Project Cost	2023 IUP Cost
MASSACHUSETTS WATER RESOURCES AUTHORITY	4150	DITP Asset Protection Phase 3	\$66,500,000	\$1,000,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	6822	DITP Clarifier #2	\$149,527,777	\$1,000,000
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS			\$216,027,777	\$2,000,000

(Count: 2)

MassDEP PRIORITY PROJECTS

Applicant	SRF ID	Project	Project Cost	2023 IUP Cost
COMMUNITY SEPTIC MANAGEMENT	3850	Community Septic Management Program	\$5,000,000	\$5,000,000
EMERGENCY SRF SET-A-SIDE	2977		\$3,000,000	\$3,000,000
PLANNING AND PFAS DESIGN SRF SET-A-SIDE	13575		\$15,000,000	\$15,000,000
TOTAL OF MassDEP PRIORITY PROJECTS			\$23,000,000	\$23,000,000

(Count: 3)

TOTAL OF DRAFT INTENDED USE PLAN	\$1,410,579,659	\$902,698,623
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**TABLE 2
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2023 CWSRF ASSET MANAGEMENT PLANNING PROJECTS**

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID Project	Project Cost	Grant Amount	SRF Loan
86	BRAINTREE	7319 Sewer Pump Station & Stormwater Culvert Evaluation	\$142,933	\$82,178	
85	LITTLETON	7308 Littleton Stormwater Asset Management Project	\$182,500	\$109,500	
85	WINCHENDON	12461 Winchendon Stormwater Asset Management Plan	\$135,625	\$81,375	
85	SOUTHAMPTON	12485 Town of Southampton Stormwater Management Plan	\$140,000	\$84,000	
83	HOLBROOK	12498 Holbrook Sewer & Stormwater Asset Management Plan	\$261,727	\$150,000	
81	WEST SPRINGFIELD	12514 West Springfield Sewer SCADA Improvements	\$403,000	\$150,000	\$18,000
80	WARE	12530 Town of Ware Wastewater Asset Management Plan	\$175,000	\$105,000	
77	NEW BEDFORD	12537 Asset Management Program Expansion	\$261,500	\$150,000	
77	DUDLEY	12543 Dudley Sewer Asset Management Plan	\$185,000	\$111,000	
77	ROCKLAND	12555 Rockland Sewer & Stormwater Asset Management Plan	\$279,618	\$150,000	
76	STURBRIDGE	12436 Sturbridge Water/Sewer Asset Management Plan	\$250,000	\$150,000	
75	HADLEY	12502 Hadley Wastewater Asset Management Plan	\$120,000	\$72,000	
74	FRANKLIN	12541 Franklin Asset Management Plan	\$250,000	\$150,000	
71	LOWELL	12560 LRWWU Asset Management Plan	\$250,000	\$150,000	
65	EVERETT	12529 Everett Stormwater Asset Management Plan	\$200,070	\$120,042	
65	HARWICH	12515 Harwich Stormwater Asset Management Plan	\$125,000	\$75,000	
63	MEDWAY	7275 Asset Management Plan - Phase 2	\$250,000	\$150,000	
62	DOVER	11391 Town of Dover Stormwater Asset Management Plan	\$165,000	\$99,000	
62	EASTON	12505 Easton Stormwater Asset Management Plan	\$136,375	\$81,825	
61	AMESBURY	12533 Asset Management Inventory and Planning	\$249,961	\$149,821	
60	MERRIMAC	12496 Asset Management Inventory and Planning	\$117,031	\$69,991	
56	NEWBURYPORT	12522 Newburyport Stormwater Asset Management Analysis	\$124,692	\$74,720	
55	LAWRENCE	7273 Stormwater Asset Management Plan	\$250,000	\$150,000	
52	HUDSON	12558 Hudson Asset Management Plan	\$53,000	\$31,800	
47	HAVERHILL	7276 Asset Management Plan - Phase 2	\$250,000	\$150,000	
46	CONCORD	7288 Wastewater Asset Management Plan	\$179,950	\$107,970	
42	BEDFORD	7274 Culvert Asset Management Plan	\$112,500	\$67,500	
TOTAL OF ASSET MANAGEMENT PLANNING PROJECTS			\$5,250,482	\$3,022,722	\$18,000
(Count: 27)					
TOTAL OF PROJECT PRIORITY LIST			\$5,250,482	\$3,022,722	\$18,000

BACKGROUND

In 1987, Congress established a program of capitalization grants for States to create the CWSRF loan program. This program provides state-administered subsidized loans to finance the construction of publicly owned water pollution abatement projects. Under the CWSRF 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 the public health and environmental protection benefits of the proposed projects and improved compliance.

The CWSRF is jointly administered by MassDEP and the Trust. MassDEP manages the technical aspects of the 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 Water Pollution Control Act of 1972, as amended, Chapter 21 of the General Laws, and 310 CMR 44.00, MassDEP has developed its Calendar Year 2023 Intended Use Plan/Project Priority List (IUP/PPL), with its attendant ranking of water pollution abatement projects. A project must appear on the PPL and the IUP Project Listing to receive financial assistance under the CWSRF Loan program.

This IUP includes approximately \$903 million in financing and describes Massachusetts' intended uses for all funds available in the CWSRF program for 2023, including the projects that Massachusetts expects to provide financial assistance to and an overview of how the Commonwealth will comply with federally mandated requirements.

This IUP contains a list of 27 Clean Water project proposals totaling \$5 million that will receive grant funding for their AMP projects. These communities will receive 60% of the project cost, up to \$150,000, as a grant from the Trust, totaling \$3 million. The remaining project costs are to be funded by local contributions of cash, or a combination of cash and 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 CWSRF will be eligible for loans at 2% interest rate 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 nutrient enrichment reduction, 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 constructions 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, 2023**.

Completed loan applications must be submitted to MassDEP at the earliest possible time, but not later than **October 13, 2023**. A complete application must contain the local debt 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 PPL 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, 2023, 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 website at: <http://www.mass.gov/eea/agencies/massdep/water/grants/state-revolving-fund.html>.

I. CALENDAR YEAR 2023 PROJECT FINANCING

In 2023, MassDEP expects to finance 59 new construction projects and 2 carryover projects totaling \$903 million. Included in this amount is a \$3 million emergency reserve to finance unanticipated problems of acute public health concern that may arise during the year. Also included is a \$5 million allocation to the Community Septic Management Program, and an additional \$15 million to finance planning projects and PFAS design projects. Table 1 is the proposed financing list for 2023 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.

Following are some of the more notable CWSRF program components and requirements:

A. Additional Subsidy

As may be required in federal law applicable to the 2023 CWSRF capitalization grant, 20% of the grant amount shall be provided as additional subsidy, but no less than 10% and no more than 30%, to disadvantaged communities based on the affordability tier system, provided eligible applicants exist. In the 2023 CWSRF IUP, Massachusetts intends to award a minimum of \$10.6 million of the capitalization grant in additional subsidy to eligible projects. In addition, Massachusetts expects to receive \$70.5 million for the Supplemental CWSRF Grant. The Supplemental CWSRF Grant requires that Massachusetts provide \$34.5 million, 49% of the total grant amount, as loan forgiveness to Disadvantaged Communities.

Eligible construction projects for Disadvantaged Communities appearing on the 2023 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 identify Disadvantaged Communities, which drives the distribution of 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	80% or greater, but less than 100%	3.3%
2	60% or greater, but less than 80%	6.6%
3	Less than 60%	9.9%

BIL funding may increase the amount of loan forgiveness to Disadvantaged Communities beyond these standard offerings.

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 awarded to construction contracts that are executed by **June 30, 2024**, 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 Massachusetts General Law Chapter 259 of the Acts of 2014, *An Act Improving Drinking Water and Wastewater Infrastructure*, applicants for additional subsidy are required to:

1. establish water enterprise funds (or equivalent separate restricted accounts), and
2. not have made any transfers from such enterprise fund in the last five 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 nutrient reduction 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. Green Infrastructure

Congress requires that at least 10% of the federal CWSRF capitalization and supplemental BIL grants be dedicated to green infrastructure projects, or components, as defined by the USEPA. For Massachusetts, this requires that \$12.3 million be allocated towards Green Infrastructure projects that minimize greenhouse gas emissions and energy use. For 2023, MassDEP will work to determine the value of the green projects or portions of projects that qualify as green. The total value of green components of those

projects will be determined when detailed project applications are submitted. MassDEP expects to meet the minimum \$12.3 million that USEPA requires to be allocated towards green infrastructure projects.

D. Applicant Cap

The Massachusetts SRF regulations (310 CMR 44) place a limit on any one proponent receiving any more than 33% 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 \$50 million for the 2023 financing period. MassDEP, however, reserves the right to waive the applicant cap limitation if MassDEP and the Trust 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.

E. Fiscal Sustainability Planning

For treatment works proposed for repair, replacement, or expansion, the USEPA requires that borrowers develop and implement a fiscal sustainability plan (FSP) that includes:

- an inventory of critical assets that are a part of the treatment works;
- an evaluation of the condition and performance of inventoried assets or asset groupings;
- a certification that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan; and
- a plan for maintaining, repairing, and, as necessary, replacing the treatment works, and a plan for funding such activities; or
- a certification that the borrower has developed and implemented a plan that meets these requirements.

Except for the third bullet above, these are all components of an AMP. The AMP grant program is designed to help communities cover 60% or up to \$150,000 of the costs associated with developing an AMP. The USEPA issued a Best Management Practices guide for the development of AMPs, which may be used as a basis for the development of an FSP <https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockkey=P1000LP0.txt>. There are numerous other guidance documents available on the USEPA website and several other states (New Mexico and New Jersey, among others) have developed detailed guidance on the development of AMPs,, which is publicly available.

At project completion, MassDEP requires certification from the borrower's Project Engineer stating that an FSP has been developed and implemented. The development of FSPs is an eligible SRF cost, and borrowers on the 2023 IUP may request an increase to their project cost to cover the development of the FSP or can apply in future years for

the AMP grant program <https://www.mass.gov/service-details/asset-management-planning-grant-program>.

F. Cost and Effectiveness

USEPA requires a certification that the borrower:

- has studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project; and
- has selected, to the maximum extent practicable, a project that maximizes the potential for efficient water use, reuse, recapture, conservation, and energy conservation, considering:
 - the cost of constructing the project;
 - the cost of operating and maintaining the project over its life; and
 - the cost of replacing the project.

MassDEP expects that applicants will have evaluated the cost of their project, as well as the effectiveness of the solution, in the required planning element such as a Comprehensive Wastewater Management Plan or a Project Evaluation Report. These reports typically evaluate alternatives and compare their various life cycle costs. The only additional work is to evaluate that the project maximizes the potential for efficient water use and energy conservation. This evaluation, if not already complete, can be appended to the planning document.

A Cost and Effectiveness Certification form is required to be submitted with each Loan Application package.

G. Architectural and Engineering (A/E) Services Procurement

The USEPA requires that A/E services that are paid with federal funds be procured using the qualifications-based selection process under 40 U.S. Code § 11 or an equivalent state qualifications-based requirement.

There are two Massachusetts statutes for procuring A/E services: Chapter 149 for vertical construction; and Chapter 30B for horizontal construction. Chapter 149 appears to meet the qualifications-based selection requirement while Chapter 30B does not.

Rather than add a third method of procurement or forcing communities into using a different method of procurement for horizontal construction and/or owner's project manager services, the Trust has chosen to not use federal funds for any A/E services. SRF federal funds will still be available for construction services. However, on large projects that receive federal funds for construction, the A/E services may be split out into a separate loan using non-federal funds.

H. Project Accounting

The USEPA requires that project accounts be maintained in accordance with the most recent applicable standard. The current standard is Governmental Accounting Standards Board (GASB) Statement No. 34, which was issued in June 1999 and details governmental reporting requirements including standards for reporting infrastructure assets.

E. Set-Aside Activities

Amendments to the Clean Water Act through the BIL allows States to use 2% of the capitalization and supplemental grants for technical assistance provided by nonprofits. MassDEP and the Trust intend to contract with a qualified nonprofit organization(s) to provide technical assistance to small, rural and tribal publicly owned treatment works, particularly in Disadvantaged Communities, for the purpose of encouraging participation in the CWSRF loan program. This technical assistance will include aiding local government units with the preparation of Project Evaluation Forms (PEFs), SRF loan applications, and other relevant documents.

II. SHORT- AND LONG-TERM GOALS

The following are the goals that Massachusetts has set for its CWSRF.

Short-Term Goals

- Finance highly ranked, construction ready, water improvement projects.
- Prioritize projects that promote nutrient removal, especially those which implement the Cape Cod 208 Plan recommendations.
- Prioritize projects that eliminate or abate Combined Sewer Overflow discharges.
- Promote the asset management planning and cybersecurity best management practices by providing grants through the Trust's AMP grant program.
- Allocate at least 10% of the annual federal grant to Green Infrastructure projects, or components, for projects that minimize greenhouse gas emissions and energy use.
- Encourage energy efficiency/conservation by providing enhanced subsidy to projects that include renewable energy components for the portion of the loan that is financing the renewable energy component.
- Ensure that wastewater treatment projects financed through the SRF fully consider cost-effective energy efficiency measures and/or renewable energy strategies.
- 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 CWSRF program remains accessible to assist communities across the Commonwealth to maintain compliance with the Clean Water Act, particularly communities with small systems.
- Identify and prioritize additional subsidy for projects in the IUP that serve Disadvantaged Communities.
- Assist stormwater and wastewater treatment plant operators 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 water, wastewater, and stormwater 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 the construction of publicly owned water pollution abatement facilities to enhance and protect the quality of the waters of the Commonwealth.
- Promote public engagement and program transparency by publishing informative and readily accessible program materials and reports.

III. ALLOCATION OF FUNDS

A. Criteria and Method for Distribution of Funds

Massachusetts seeks to finance projects that mitigate documented threats to public health and/or impacts to the environment, and for which proponents have completed comprehensive planning and alternatives analysis. Details supplied through the PEF help MassDEP determine the extent to which projects meet the goals of the program. Once all projects have been rated and ranked following the *Clean Water State Revolving Fund 2023 Project Evaluation Form* instructions and guidance, <https://www.mass.gov/lists/state-revolving-fund-applications-forms#2020-project-evaluation-form-instructions-and-guidance>, the PPL is developed as shown in Table 3. With input from the Trust, MassDEP identifies all the sources of funds and spending limits and develops the IUP Project Listing as shown in Table 1.

To be considered eligible for financing, projects must meet State and Federal eligibility requirements, must be ready to proceed during the financing period, have appropriated local funds necessary to finance the project, and have a MassDEP-approved planning element. An approvable planning element can be a Project Evaluation Report, Comprehensive Water Resources Management Plan, Long-term combined sewer overflow (CSO) Strategy, Stormwater Management Plan, or other MassDEP sanctioned planning document. Projects on Cape Cod are required to be consistent with the Cape Cod Area-Wide Section 208 Water Quality Management Plan. Six Cape Cod communities: Yarmouth, Barnstable, Chatham, Harwich, Mashpee and Wellfleet have

proposals on this IUP; the Cape Cod Commission has determined these projects are consistent with the Cape Cod 208 Plan.

Eligibility includes consistency with the assurances described in this document and the requirements contained within MassDEP's financial assistance regulations <https://www.mass.gov/regulations/310-CMR-4400-the-clean-water-state-revolving-fund>. Certain projects on the 2023 PPL may have higher priority point totals than the projects on the IUP Project Listing. That occurred because those projects on the PPL are not ready to proceed. An important indicator of readiness to proceed is that a project has completed the State Environmental Review Process.

MassDEP reserves the right to increase the amount allocated to any project appearing on this IUP, should additional federal or state funding or program loan capacity become available.

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 for cost increases to other projects approved previously. Complete project applications not received by MassDEP by **October 13, 2023**, 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, the CSMP, planning and PFAS design categories. 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 water pollution abatement project of an eligible borrower is eligible to receive financial assistance from the Trust. Such eligible projects include, but are not limited to:

- Wastewater Treatment Projects, as defined in 310 CMR 44.03;
- Infiltration Inflow (I/I) Projects, as defined in 310 CMR 44.03;
- Collection System Projects, as defined in 310 CMR 44.03. However, 85% of the expected wastewater flow into the proposed collection system must be for wastewater flows in existence as of July 1, 1995;
- Nonpoint Source Projects, as defined in 310 CMR 44.03;
- Nutrient Management Projects, as defined in 310 CMR 44.03;
- Stormwater Projects;
- Green Infrastructure Projects; and
- The planning or design for any project in one of the categories identified above.

Costs of construction that MassDEP determines as being necessary for the completion of the project are eligible for financing through the loan and can receive a subsidy under the loan, subject to the applicant cap. Although costs for design are eligible, only PFAS design will be financed during this financing period due to the high demand for construction financing. MassDEP may limit the SRF loan for PFAS design to 10% of the total estimated cost of the remedy.

All projects on the IUP are eligible for 2% interest rate loans. Certain projects that are primarily for nutrient removal are eligible for 0% interest rate loans. These nutrient removal projects will be evaluated in accordance with 310 CMR 44.04(2) and a determination will be made as to the eligibility for 0% interest loans before the loan is permanently financed.

IV. FINANCIAL MANAGEMENT

A. Source of State Match

Based on the anticipated 2023 CWSRF federal grant of \$53 million from USEPA, the required 20% state match equals \$10.6 million. In addition, for 2023, Massachusetts expects to receive \$70.5 million for the Supplemental CWSRF Grant, the required 10% state match equals \$7.05 million. These state match funds are provided to the Trust from the Commonwealth's Capital Plan.

B. Fee Income

The Trust may charge an amount not to exceed \$5.50 per \$1,000 as a loan origination fee to offset the costs incurred during its bond issuance. 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, 2022, the Trust has a balance of approximately \$51.5 million in its Administrative Account.

C. Program Administration

The Commonwealth of Massachusetts intends to use the full 4% of the Federal capitalization grant and the supplemental BIL grant funds for administrative support of activities related to the CWSRF. Use of those funds is detailed in the CWSRF Grant Application that the Trust files each year with the USEPA.

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. This year, approximately a third of the requested CWSRF construction projects will not be offered financing. Approximately two thirds of requested DWSRF construction projects will 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. Massachusetts will transfer funds from the CWSRF to the DWSRF program in the amount of \$24.3 million (33% of the 2023 DWSRF capitalization grant amount estimated at \$25.5 million and the supplemental grant amount of \$48.2 million) .

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 \$7.2 million of CWSRF Emerging Contaminant supplemental funds to the DWSRF Emerging Contaminant program (100% of the grant amount). This transfer will not adversely impact CWSRF project financing in this IUP.

F. Estimated Sources and Uses

The sources of funds available to the Massachusetts CWSRF 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 offer to finance approximately \$903 million in projects.

V. 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 CWSRF.

The OA addresses the commitment to key CWSRF requirements, including:

- Section 602(a) Environmental Reviews: The CWSRF will conduct environmental reviews according to the State Environmental Review Process developed for the SRF.
- Section 603(b) (3) Binding Commitments: The CWSRF will enter into binding commitments for 120% of each quarterly grant payment within one year of receipt of the payment.

- Section 602(b) (4) Expeditious and Timely Expenditures: The CWSRF will expend all funds in the CWSRF in a timely manner.
- Consistency with Planning. The Commonwealth agrees that it will not provide assistance to any project unless that project is consistent with plans developed under Section 205(j), 208, 303(e), 319, or 320.

B. Federal Requirements

A number of federal requirements apply to CWSRF 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)
- Federal Flood Risk Management Standard (FFRMS) to comply with Executive Order [\(EO\) 14030](#) that reinstated EO 13690
- 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 applications. 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.

C. Davis-Bacon Wage Rates

The amendments to the Clean Water Act, as part of the Water Resources Reform and Development Act, apply the Davis-Bacon Act requirements to all treatment works projects going forward. The Davis-Bacon requirements do not apply to nonpoint source or decentralized wastewater treatment projects. 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

The amendments to the Clean Water Act, as part of WRRDA, apply the American Iron and Steel (AIS) requirements to all treatment works projects. Furthermore, BIL extends this procurement requirement to *all* CWSRF 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, unless (i) the SRF borrower has requested and obtained a waiver from the EPA pertaining to the Project or the Project is otherwise covered by a general applicability waiver; or (ii) the Department has otherwise advised the borrower in writing that the Build America, Buy America requirement is not applicable to the project. 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, Annual Report, and FFATA reporting.

VI. Public Review and Comment

Notice of the availability of the Draft Calendar Year 2023 IUP/PPL will be made on December 16, 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 will take place virtually on **January 19, 2023**. Records of the testimony received will be maintained in MassDEP's files. MassDEP will take into consideration the testimony received to finalize this IUP.

**TABLE 3
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2023 CWSRF Project Priority List**

NEW PROJECTS

Rating	Applicant	NPDES/PERMIT	SRF ID	Project	Project Cost
552	YARMOUTH #(PF)(RE)(SG)	GW Permit	8349	Phase I - WRRF and Collection System	\$207,244,000
550	NEW BEDFORD #(PF)(SG)	MA0100781	12413	Wastewater Collection System Improvements	\$21,315,000
549	BARNSTABLE #(H)(PF)(SG)	GW Permit	7346	FY24-25 BWPCF Improvements	\$6,121,800
546	NANTUCKET #(H)(SG)	GW Permit	12453	Phase 2 Surfside WWTF Improvements	\$12,922,000
544	KINGSTON (PF)(BG)	GW Permit	10373	Effluent Recharge Site No. 3 & Sewer Expansion	\$11,652,000
544	TAUNTON (H)(PF)(BG)	MA0100897	12563	2024 Pump Station Improvements	\$7,000,000
543	BILLERICA #(H)(PF)(BG)	MA0101711	7300	Infiltration/Inflow Rehabilitation Project	\$1,487,200
543	HOLYOKE #(PF)(BG)	MA0101630	7339	River Terrace Sewer Separation Project - Phase 1	\$10,500,000
543	FITCHBURG #(PF)(BG)	MA0100986	12395	CSO 032, 045, 083 Separation/Rehabilitation 12525	\$22,350,000
543	CHATHAM #	GW Permit		WPCF Sludge Processing Upgrades	\$5,000,000
542	TAUNTON #(H)(PF)	MA0100897	12561	2024 Sewer and Drain Improvements	\$4,000,000
542	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(W)	MA0101613	12490	Primary Treatment Upgrade at the Springfield Region	\$14,010,000
540	HAVERHILL #(PF)	MA0101621	7252	Haverhill MA Locke Street Sewer Separation Phase 1	\$7,004,200
540	FALL RIVER #(PF)	MA0100382	12466	Mothers Brook Sewer Replacement	\$22,160,000
539	HARWICH (PF)	TBD	7290	Harwich Phase 3 Sewer Extension	\$48,927,000
539	MASHPEE (PF)	TBD	7334	Phase 1 Mashpee Treatment and Collection System	\$12,000,000
538	BARNSTABLE (H)(PF)	GW Permit	7305	Park City Wind Route Sewer Expansion	\$30,900,000
538	REVERE #(PF)	MA0103284	7310	Phase 14 Construction - I/I, IDDE, P.S. & Drainage	\$10,000,000
538	ACUSHNET (PF)	MA0100781	8356	CWMP Needs Area 2 Sewer Extension	\$14,400,000
538	HARWICH (PF)	TBD	10378	Harwich Rt. 28 Sewer Construction Project	\$8,099,590
538	HULL #(PF)	MA0101231	11385	Collection System Improvements Phase 2	\$15,471,760
538	NEW BEDFORD (PF)	MA0100781	12507	Sassaquin Pond Water Quality Improvements	\$9,340,000
536	HAVERHILL #(PF)	MA0101621	9366	Sewer System Improvements - CIPP Lining	\$2,275,000
535	FALL RIVER #(PF)	MA0100382	9369	Birch Street Sewer Separation	\$18,000,000
535	HAVERHILL #(PF)	MA0101621	10381	WWTP Upgrades	\$41,730,000
534	TYNGSBOROUGH (H)(PF)	MA0100633	7293	Phase 3 Sewer Extension & Sunset Park	\$21,595,374
534	LAWRENCE #(H)(PF)	MA0100447	12479	Sewer and Drainage Improvements/ Contract 7	\$7,711,000
533	LOWELL #(H)(PF)	MA0100633	12454	Duck Island WWTF Phase 3 Upgrade	\$28,100,000

532	BILLERICA #(H)(PF)	MA0101711	7307 Sewer Contracts 37 & 38	\$58,860,909
532	HAVERHILL (PF)	MA0101621	12419 Pump Station Upgrades	\$3,287,000
532	SAUGUS #(PF)	MA0100552	12442 Comprehensive Sewer System Rehabilitation- 3A	\$3,453,789
531	NORTH READING	MA0100447	7336 North Reading Wastewater Collection System	\$107,200,000
531	SOMERVILLE #(H)(PF)	MA0103284	12441 Morrison & Winslow Ave Flood & CSO Mitigation	\$49,957,000
529	QUINCY #(H)(PF)	MA0103284	8364 FY24 Sewer & Drain Improvements	\$10,000,000
527	BROCKTON #(H)(PF)	MA0101010	12445 Sewer System Rehabilitation Phase 3	\$2,700,000
527	BROCKTON #(H)(PF)	MA0101010	12444 Cashman Road Sewer	\$4,500,000
526	WELLFLEET	TBD	12470 95 Lawrence Wastewater Treatment and Collection	\$6,309,000
525	QUINCY (H)(PF)	MAR041081	12398 Wollaston Stormwater Capacity Improvements Phase 1	\$5,000,000
525	WORCESTER #(H)(PF)	MA0102369	12524 Quinsigamond Avenue CSO Facility Upgrades	\$14,090,000
525	FALL RIVER (PF)	MA0100382	7345 Ferry Street Pump Station Rehabilitation	\$2,955,900
524	LOWELL (H)(PF)	MA0100633	12549 Douglas Road Wet Weather Satellite Storage Tank	\$9,626,000
522	BILLERICA #(H)(PF)	MA0101711	7349 Rangeway Road Sewer and Pump Station	\$4,466,760
521	WORCESTER (H)(PF)	MA0102369	8353 Lake Avenue Pump Station Improvements	\$6,200,000
520	SUDBURY (H)	TBD	7251 WWTF and Collection System Project	\$58,711,600
510	ACTON (H)	GW Permit	7277 Acton Great Road Sewer Project	\$20,854,000
444	SOMERSET #(PF)	MA0100676	8360 Somerset Wastewater Pump Station Upgrades	\$4,780,000
439	GREATER LAWRENCE SANITARY DISTRICT	MA0100447	12456 NORTH BANK INTERCEPTOR CSO STORAGE FACILITY	\$71,350,000
434	MARION #	MA0100030	12487 Creek Road Pump Station Resiliency Improvements	\$3,000,000
434	NEW BEDFORD (PF)	MA0100781	12414 Wastewater Treatment Plant Improvements	\$11,500,000
433	BARNSTABLE #(H)(PF)	GW Permit	7302 2023 Wastewater Pump Station Improvements	\$3,320,000
429	BARNSTABLE (H)(PF)	GW Permit	7291 Sewer Extension and Vacuum Sewer Removal	\$1,120,000
426	MARSHFIELD	MA0101737	10375 Plymouth Ave Pump Station Upgrades	\$8,117,000
426	NEW BEDFORD (PF)	MA0100781	12508 Buttonwood Brook Improvements	\$4,200,000
419	SHREWSBURY	MA0100412	12483 Rolfe & Maple Ave PS Upgrade and FM Replacement	\$9,820,000
412	COUNTY OF DUKE COUNTY (PF)(D)	GW Permit	12439 Martha's Vineyard Airport WWTF Upgrades	\$0
341	PLYMOUTH #(H)(PF)	MA0100587	12462 Camelot Drive Sewer Extension Project	\$12,647,000
340	BILLERICA #(H)(PF)	MA0101711	7309 Darby and Waterview Avenue Pump Stations	\$2,760,000
332	WAREHAM (PF)	MA0101893	12430 WPCF Improvements - Phase 2	\$36,450,000
329	UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT #(RE)	MA0102369	7324 Standby Power for Resiliency	\$10,000,000

328	WELLFLEET	N/A	12403 Wellfleet Enhanced I&A Septic System Program	\$3,000,000
325	WORCESTER #(H)(PF)	MA0102369	12415 Various Streets Rehabilitation Project 2023	\$2,091,000
325	WAREHAM #(PF)	MA0101893	12526 Swifts Beach Inflow and Infiltration Project	\$24,000,000
325	MEDFIELD #(H)	MA0100978	7296 Medfield Sewer Infrastructure Rehabilitation	\$2,133,000
323	WORCESTER #(H)(PF)	MA0102369	12536 Shrewsbury Street Sewer Rehabilitation Project	\$10,560,000
322	SALEM (H)(PF)	MA0100501	7342 Ocean Avenue West Pump Station Improvements	\$9,800,000
322	FREETOWN (PF)	MA0100382	8358 Assonet Sewer Extension Project	\$15,456,000
308	AVON (PF)		12437 Avon Industrial Park Localized Sewer District	\$14,595,600
244	BARNSTABLE #(H)(PF)	GW Permit	7303 Sewer System Rehab Infiltration and Inflow Removal	\$810,000
235	BROCKTON (H)(PF)(RE)	MA0101010	12464 AWRP Biosolids Management Improvements	\$35,000,000
232	HUDSON #(PF)	MA0101788	12501 Wastewater Treatment Facility Phase 2 Improvements	\$20,000,000
226	MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	7326 SSPS VFD Replace Const	\$75,000,000
226	EASTHAMPTON #(PF)	MA0101478	7333 Liberty/Lovefield Pump Station Upgrades	\$4,120,000
225	EASTHAMPTON #(PF)	MA0101478	7317 Easthampton Wastewater Pump Station Elimination	\$3,810,792
224	MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	7329 Hayes Pump Station Improvements	\$14,840,000
224	BROCKTON #(H)(PF)	MA0101010	12446 AWRP Effluent Upgrades	\$9,000,000
224	ACTON (H)	GW Permit	12400 WWTF and Pump Station Rehabilitation - Phase 2	\$4,438,000
224	SALEM (H)(PF)	MA0100501	7343 Canal Street Flood Mitigation Project - Phase 2B	\$37,500,000
222	GLOUCESTER #(PF)	MA0100625	12429 Riverdale Park PS Upgrades	\$2,293,200
222	MARSHFIELD #	MA0101737	12547 Marshfield Sewer Replacement Project	\$7,856,000
220	TYNGSBOROUGH (H)(PF)	MA0100633	7284 Phalanx Pump Station Upgrade	\$550,000
220	WINTHROP #(PF)	MA0103284	9367 Sewer System Infiltration Program	\$5,900,000
219	ANDOVER (H)	MA0100447	7295 Shawsheen Village Sewer Pump Station Upgrades	\$9,891,790
218	ACTON #(H)(RE)	GW Permit	7278 Acton MFPB WWTF - New Groundwater Discharge	\$10,280,000
218	WORCESTER (H)(PF)	MA0102369	12473 Worcester - Dunkirk Ave. PS Upgrade	\$5,608,100
216	NORTH ANDOVER (H)	MA0100447	7270 Sewer Pump Station Rehabilitation	\$4,968,348
216	NORTHBOROUGH	MA0100480	12527 SCADA and Controls System Project	\$691,205
215	SAUGUS (PF)	MA0100552	12401 Lynnhurst School Pump Station Improvements	\$800,000
215	MILTON #	MA0103284	12494 Sewer Improvements Project - Contract S23-1	\$8,953,000
212	WESTFIELD (PF)	MA0101800	12469 Water Recovery Facility Dewatering Upgrade	\$2,442,900
212	SHREWSBURY	MA0100412	12484 Walnut St PS Upgrade & FM/Sewer Replacement	\$4,750,000
212	WESTFIELD (PF)	MA0101800	12460 Westfield Administration Building	\$4,150,129

210	PALMER (PF)	MA0101168	7323 Thorndike Street Siphon Replacement	\$6,140,000
207	HOLDEN	MA0102369	12513 Industrial Drive Sewer Pump Station Replacement	\$1,610,000
118	AGAWAM (PF)	MA0101613	7281 Drainage Infrastructure Improvements (East)	\$4,223,000
118	LAWRENCE (H)(PF)	MA0100447	9364 DPW Yard Flood Mitigation	\$2,665,000
117	WINTHROP (PF)	MA0103284	9368 Ingleside Park Site & Drainage Improvements	\$15,020,000
117	WELLFLEET	N/A	12540 Mayo Creek Restoration Project	\$1,967,700
116	AGAWAM (PF)	MA0101613	7282 Drainage Infrastructure Improvements (West)	\$4,588,000
110	WINTHROP (PF)	MA0103284	9365 Morton Street Drainage Improvements	\$9,300,000

TOTAL OF NEW PROJECTS

\$1,569,354,646

(Count: 99)

(Average Rating: 391.14)

(BG) - Base Capitalization Grant

(D) - Dropped by Applicant

(H) - Housing Choice Communities

(PF) - Affordability Criteria

(RE) - Potential Renewable Energy Projects

(SG) - BIL CWSRF General Supplemental Grant

(W) - Water Infrastructure Finance and Innovation Act (WIFIA)

- 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>)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	NPDES/PERMIT	SRF ID	Project	Project Cost
MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	4150	DITP Asset Protection Phase 3	\$66,500,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	MA0103284	6822	DITP Clarifier #2	\$149,527,777
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS				\$216,027,777

(Count: 2)

MassDEP PRIORITY PROJECTS

Applicant	NPDES/PERMIT	SRF ID	Project	Project Cost
COMMUNITY SEPTIC MANAGEMENT	N/A	3850	Community Septic Management Program	\$5,000,000
EMERGENCY SRF SET-A-SIDE	N/A	2977		\$3,000,000
PLANNING AND PFAS DESIGN SRF SET-A-SIDE		13575		\$15,000,000
TOTAL OF MassDEP PRIORITY PROJECTS				\$23,000,000

(Count: 3)

TOTAL OF PROJECT PRIORITY LIST **\$1,808,382,423**

TABLE 4
CLEAN WATER STATE REVOLVING FUND
Calendar Year 2023 CWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID Project	Project Cost
86	BRAINTREE	7319 Sewer Pump Station & Stormwater Culvert Evaluation	\$142,933
85	LITTLETON	7308 Littleton Stormwater Asset Management Project	\$182,500
85	WINCHENDON	12461 Winchendon Stormwater Asset Management Plan	\$135,625
85	SOUTHAMPTON	12485 Town of Southampton Stormwater Management Plan	\$140,000
83	HOLBROOK	12498 Holbrook Sewer & Stormwater Asset Management Plan	\$261,727
81	WEST SPRINGFIELD	12514 West Springfield Sewer SCADA Improvements	\$403,000
80	WARE	12530 Town of Ware Wastewater Asset Management Plan	\$175,000
77	NEW BEDFORD	12537 Asset Management Program Expansion	\$261,500
77	DUDLEY	12543 Dudley Sewer Asset Management Plan	\$185,000
77	ROCKLAND	12555 Rockland Sewer & Stormwater Asset Management Plan	\$279,618
76	STURBRIDGE	12436 Sturbridge Water/Sewer Asset Management Plan	\$250,000
75	HADLEY	12502 Hadley Wastewater Asset Management Plan	\$120,000
74	FRANKLIN	12541 Franklin Asset Management Plan	\$250,000
71	LOWELL	12560 LRWWU Asset Management Plan	\$250,000
65	EVERETT	12529 Everett Stormwater Asset Management Plan	\$200,070
65	HARWICH	12515 Harwich Stormwater Asset Management Plan	\$125,000
63	MEDWAY	7275 Asset Management Plan - Phase 2	\$250,000
62	DOVER	11391 Town of Dover Stormwater Asset Management Plan	\$165,000
62	EASTON	12505 Easton Stormwater Asset Management Plan	\$136,375
61	AMESBURY	12533 Asset Management Inventory and Planning	\$249,961
60	MERRIMAC	12496 Asset Management Inventory and Planning	\$117,031
56	NEWBURYPORT	12522 Newburyport Stormwater Asset Management Analysis	\$124,692
55	LAWRENCE	7273 Stormwater Asset Management Plan	\$250,000
52	HUDSON	12558 Hudson Asset Management Plan	\$53,000
47	HAVERHILL	7276 Asset Management Plan - Phase 2	\$250,000
46	CONCORD	7288 Wastewater Asset Management Plan	\$179,950
42	BEDFORD	7274 Culvert Asset Management Plan	\$112,500

TOTAL OF ASSET MANAGEMENT PLANNING PROJECT

\$5,250,482

(Count: 27)

TOTAL OF PROJECT PRIORITY LIST

\$5,250,482



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Bethany A. Card
Secretary

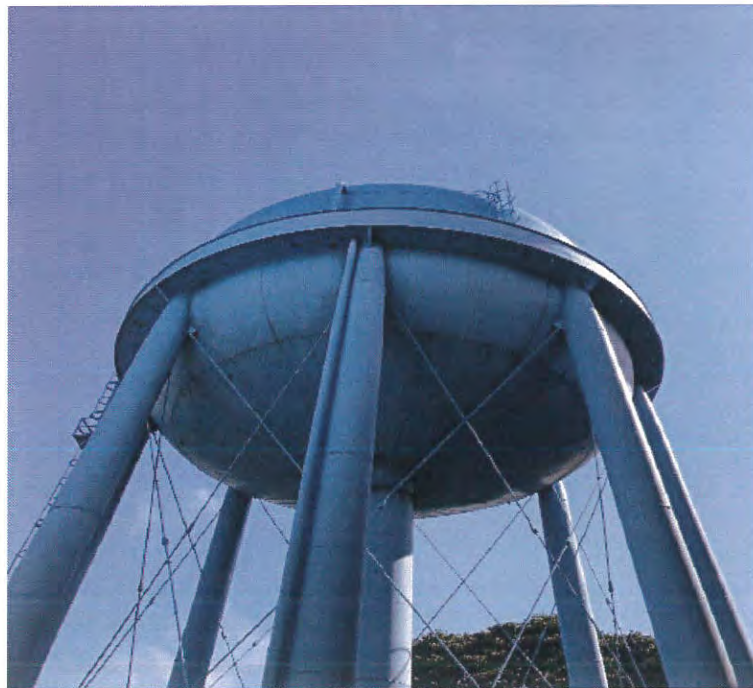
Martin Suuberg
Commissioner

DRAFT 2023 INTENDED USE PLAN

For the

DRINKING WATER STATE REVOLVING FUND

December 16, 2022



EXECUTIVE SUMMARY

The Massachusetts Department of Environmental Protection (MassDEP) is pleased to present the Draft Calendar Year 2023 Intended Use Plan (IUP), which lists the projects, borrowers, and amounts that are being recommended for 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 \$375 million to finance drinking water projects across the Commonwealth. As noted in Table 1, approximately \$300 million is being offered to finance 38 new construction projects, and \$60 million towards financing 9 previously approved multi-year projects. An additional \$10 million has been set-aside to finance planning projects and PFAS design projects in calendar year 2023; MassDEP will begin accepting loan applications for planning projects and PFAS design projects, on a rolling basis, as soon as the Final IUP is published. An additional \$5 million has been allocated to the emergency set-aside account.

Twelve proposals, totaling \$2 million, as noted in Table 2, are recommended 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 (the Trust), totaling approximately \$1 million for the 2023 applicants. The remaining costs may be funded by local contributions of cash, or a combination of cash and in-kind services. All or part of the local contribution may be financed by a loan from the Trust at the standard 2% interest rate for a term of up to five years.

2023 Highlights

- On November 15, 2021, President Biden signed the Bipartisan Infrastructure Law (BIL) that provides three new federal grants through the 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 2023, Massachusetts expects to receive \$48.2 million for the Supplemental DWSRF Grant, \$65.6 million for the Lead Service Line Replacement 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 \$23.6 million, or 49% of the total grant amount, be provided as loan forgiveness to Disadvantaged Communities. The Lead Service Line Grant requires that \$32.1 million, or 49% of the total grant amount, 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 2023 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 substantial increase in the 2023 IUP capacity is evidence of the additional BIL funds 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 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, unless (i) the SRF borrower has requested and obtained a waiver from the EPA pertaining to the Project or the Project is otherwise covered by a general applicability waiver; or (ii) the MassDEP has otherwise advised the borrower in writing that the Build America, Buy America requirement is not applicable to the project. 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>. Additionally, USEPA issued an adjustment period waiver for projects that initiated planning design prior to May 14, 2022, a small project applicability waiver for projects with SRF loans of \$250,000 or less, and a De Minimis waiver: <https://www.epa.gov/cwsrf/build-america-buy-america-baba-approved-waivers>. The USEPA will be issuing BABA implementation guidance specific to the SRF program.

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, while Congress requires that states use 14% of the annual DWSRF grant for additional subsidy. Massachusetts expects an award of \$25.5 million in 2023. 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 loan forgiveness as a fixed percentage of principal. Further details may be found in section II(A) of this IUP. Information about the Trust's annual Affordability Calculation may be found on the following webpage: <https://www.mass.gov/info-details/the-disadvantaged-community-program#the-affordability-calculation>.

- 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, Massachusetts will transfer \$7.2 million of CWSRF Emerging Contaminant 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 2023 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 loan forgiveness for projects with a renewable energy component.
- The USEPA requires that 15% of total IUP assistance be directed toward Small Systems, those serving populations fewer than 10,000. Thirteen of the 2023 Small System applicants are being recommended for financing from the 2023 IUP with projects totaling approximately \$77 million. Since financing for small systems exceeds 15% of \$375 million, or \$56 million, Massachusetts expects to meet this requirement.
- **100% Loan Forgiveness Lead Service Line Identification and Planning Projects** - Massachusetts is offering loans with 100% loan forgiveness for planning activities assisting public water suppliers (PWS) to complete Lead Service Line (LSL) inventories and for the development of LSL replacement programs. MassDEP is accepting loan applications for LSL planning projects on a rolling basis while funding is available. It is recommended that PWS apply as soon as possible as funding will be provided at a first come, first served basis.

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 2023 DWSRF Draft Intended Use Plan

NEW PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	2023 IUP Cost
553	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(RE)(BG)(W)	12550	Replacement of Water Treatment Plant – Phase 2B	\$280,900,000	\$9,540,000
553	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(RE)(BG)(W)	12465	Replacement of Water Treatment Plant – Phase 2A	\$5,460,000	\$5,460,000
546	SOMERVILLE (H)(LR)(PF)	10382	Somerville LSL Replacement Program Phase 3	\$2,068,800	\$2,068,800
541	SCITUATE (BG)	7348	Surface Water Treatment Plant	\$41,382,000	\$15,000,000
537	SHARON (RE)(SG)	12443	Wells 2 & 4 Water Treatment Plant	\$20,057,875	\$15,000,000
536	ANDOVER (H)(LR)	12495	Lead Service Line Replacement	\$4,050,000	\$4,050,000
534	MASSACHUSETTS WATER RESOURCES AUTHORITY	7331	Cp-2 NEH Improvements	\$13,640,000	\$1,000,000
532	FALL RIVER (LR)(PF)	12468	Lead Service Line Replacement	\$4,150,000	\$4,150,000
532	WEBSTER (PF)(SG)	10380	PFAS Water Treatment Plants	\$32,800,000	\$15,000,000
530 *	LITTLETON WATER DEPARTMENT (H)(SG)	12397	Water Supply Main Extension Littleton/Boxborough	\$19,078,000	\$15,000,000
530	FOXBOROUGH (SG)	12535	Chestnut Street WTP Improvements	\$14,000,000	\$14,000,000
529	SUDBURY (H)(SG)	11383	East Street WTP PFAS Treatment	\$5,810,000	\$5,810,000
529	CONCORD (BG)	12423	Nagog Pond Water Treatment Plant	\$35,488,084	\$15,000,000
528	YARMOUTH (EC)(PF)	12531	Yarmouth Well 4&5 Package PFAS Treatment System	\$4,723,700	\$4,723,700
527	ACTON WATER SUPPLY DISTRICT (EC)(H)	12506	PFAS Treatment at South Acton WTP	\$8,700,000	\$8,700,000
527	ACTON WATER SUPPLY DISTRICT (EC)(H)	12517	PFAS Treatment at Central Acton WTP	\$5,420,000	\$5,420,000
526	MIDDLEBOROUGH (EC)(H)(PF)	9373	East Grove Street Water Treatment Plant	\$18,500,000	\$15,000,000
526	WESTBOROUGH (EC)	7272	Oak Street WTP PFAS Improvements	\$6,311,731	\$6,311,731
526	WOBURN (PF)	12538	Horn Pond Water Treatment Plant PFAS Removal	\$18,990,000	\$15,000,000
525 *	EAST BROOKFIELD (PF)	12438	West Street Fe and Mn WTP	\$8,080,000	\$8,080,000
525	MELROSE (H)(LR)	8359	Melrose Lead Service Replacement	\$1,035,000	\$1,035,000
524	CHATHAM	12457	Training Field Road PFAS Water Treatment Plant	\$19,800,000	\$15,000,000
523	RAYNHAM (PF)	11390	PFAS Water Treatment Plants	\$23,500,000	\$15,000,000
523 *	AQUARION WATER COMPANY - MILLBURY	12509	Oak Pond Well GAC Treatment Facility	\$3,275,000	\$3,275,000
522	STOUGHTON (H)(PF)	7298	Muddy Pond Pump Station PFAS Treatment	\$5,279,500	\$5,279,500
522 *	WEST BRIDGEWATER (PF)	12432	West Bridgewater Long Term PFAS Compliance	\$3,163,200	\$3,163,200

522	FRANKLIN (H)	12544 Franklin Well 7/7A PFAS Treatment	\$5,600,000	\$5,600,000
521	BELLINGHAM (PF)	12475 PFAS Treatment at Hartford Avenue WTP	\$20,800,000	\$15,000,000
520 *	HOPEDALE (PF)	12478 Greene Street WTP PFAS Treatment	\$4,500,000	\$4,500,000
520 *	LYNNFIELD CENTER WATER DISTRICT	7322 Glen Drive WTP & Station 2 Pipeline	\$18,960,000	\$15,000,000
520	EVERETT (H)(LR)(PF)	12399 Everett Lead Service Line Replacements Phase 4	\$1,881,000	\$1,881,000
517 *	AQUARION WATER COMPANY - MILLBURY	11382 Jacques Wells Water Treatment Facility	\$6,731,250	\$6,731,250
516 *	WEST BRIDGEWATER (PF)	12428 Cyr Street and Norman Avenue Fe/Mn Treatment	\$11,740,001	\$11,740,001
513 *	AQUARION WATER COMPANY - OXFORD	12519 North Main Street Water Treatment Plant	\$2,904,453	\$2,904,453
511	CONCORD (LR)	12477 Concord, MA Lead Service Line Replacements Project	\$2,000,000	\$2,000,000
509 *	AQUARION WATER COMPANY - DOVER (PF)	12458 Chickering Drive Station	\$980,000	\$980,000
507 *	AQUARION WATER COMPANY - DOVER (PF)	12511 Springdale Farms Treatment System Improvements	\$1,248,750	\$1,248,750
507 *	HARVARD	7285 Harvard-Devens Water System Interconnection	\$4,850,000	\$4,850,000
TOTAL OF NEW PROJECTS			\$687,858,344	\$299,502,385

(Count: 38)

(Average Rating: 526.03)

* - Small System

(BG) - Base Capitalization Grant

(D) - Dropped by Applicant

(EC) - BIL DWSRF Emerging Contaminants Grant

(H) - Housing Choice Communities

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

(LR) - BIL DWSRF Lead Service Line Replacement Grant

(PF) - Disadvantaged Community

(RE) - Potential Renewable Energy Projects

(SG) - BIL DWSRF Supplemental Grant

(W) - Water Infrastructure Finance and Innovation Act (WIFIA)

- 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	2023 IUP Cost
EMERGENCY SRF SET-A-SIDE	2978	\$5,000,000	\$5,000,000
PLANNING AND PFAS DESIGN SRF SET-A-SIDE	13574	\$10,000,000	\$10,000,000
TOTAL OF MassDEP PRIORITY PROJECTS		\$15,000,000	\$15,000,000

(Count: 2)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	SRF ID Project	Project Cost	2023 IUP Cost
ABINGTON-ROCKLAND JOINT WATER WORKS (PF)	7152 Hannigan and Myers Avenue WTP PFAS Treatment	\$26,672,000	\$11,672,000
BRAINTREE #(RE)(PF)	7258 Tri-Town Regional Water Treatment Plant	\$55,212,683	\$10,000,000
HOLBROOK #(RE)(PF)	7259 Tri-Town Regional Water Treatment Plant	\$19,904,296	\$3,200,000
MASSACHUSETTS WATER RESOURCES AUTHORITY	4564 Weston Aqueduct Supply Main Rehabilitation	\$19,382,850	\$5,882,850
MASSACHUSETTS WATER RESOURCES AUTHORITY	6691 Northern Intermediate High Section 89 Replacement	\$32,619,000	\$7,117,150
MASSACHUSETTS WATER RESOURCES AUTHORITY	7218 Section 23, 24, 47 Water Mains Rehab	\$14,700,000	\$1,000,000
NEW BEDFORD	7173 Highway Bridge Crossing Replacement Project	\$6,300,000	\$1,300,000
NEW BEDFORD (PF)	7172 Quittacas Water Treatment Plant Upgrades	\$23,637,500	\$13,637,500
RANDOLPH #(RE)(PF)	7260 Tri-Town Regional Water Treatment Plant	\$39,780,862	\$6,800,000
TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS		\$238,209,191	\$60,609,500

(Count: 9)

TOTAL OF DRAFT INTENDED USE PLAN	\$941,067,535	\$375,111,885
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TABLE 2
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2023 DWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID Project	Project Cost	Grant Amount	SRF Loan
89	AUBURN WATER DISTRICT	12463 Auburn Water District Water Asset Management Plan	\$155,000	\$93,000	
85	CHESTER	12426 Chester Water Asset Management Plan	\$113,500	\$68,100	
82	RUSSELL	12497 Russell Water and Wastewater Asset Management Plan	\$151,000	\$90,600	
81	DOUGLAS	12556 Water Asset Management Plan	\$140,000	\$84,000	
81	WEST SPRINGFIELD	12424 West Springfield Water SCADA Improvements	\$481,000	\$150,000	
79	FITCHBURG	11393 Fitchburg Water System Asset Management	\$102,000	\$61,200	
73	SUDBURY	12520 Sudbury Water System Asset Management Plan	\$250,000	\$150,000	
73	PEABODY	8354 Peabody Water Asset Management	\$250,000	\$150,000	
68	MILFORD	12545 Milford Asset Management Plan	\$73,200	\$43,500	
61	SOUTHAMPTON	12425 Expand and Improve Asset Management System	\$80,000	\$48,000	
58	MARION	12435 Marion DPW Asset Management Planning	\$55,000	\$33,000	
51	MIDDLEBOROUGH	12451 Water Utility Asset Management Planning	\$209,000	\$125,400	
TOTAL OF ASSET MANAGEMENT PLANNING PROJECTS			\$2,059,700	\$1,096,800	\$0
(Count: 12)					
TOTAL OF PROJECT PRIORITY LIST			\$2,059,700.00	\$1,096,800.00	\$0

I. BACKGROUND

The Federal Safe Drinking Water Act Amendments of 1996 authorized the award of capitalization grants to the States to create individual 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 MassDEP and the 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 2023 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 DWSRF Loan program.

This Draft IUP includes \$375 million in financing and describes Massachusetts' intended uses for all funds available in the DWSRF program for calendar year 2023. 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 residents 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 Draft IUP contains 12 Asset Management Planning (AMP) projects, totaling \$2 million. These communities will receive 60% of the project cost, up to \$150,000, as a grant from the Trust, totaling \$1 million. 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% interest rate 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 constructions

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, 2023**.

Completed applications must be submitted to MassDEP at the earliest possible time, but not later than **October 13, 2023**. A complete application must contain the local debt 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, 2023, 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 2023 PROJECT FINANCING

In 2023, MassDEP expects to finance 38 new construction projects and 9 carryover projects totaling approximately \$375 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, and an additional \$10 million to finance planning projects and PFAS design. Table 1 is the list of projects being offered financing for 2023 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 \$25.5 million, plus a combined \$131 million in supplemental funds, from the United States Environmental Protection Agency (USEPA) to fund the DWSRF for 2023. Following are some of the more notable DWSRF program components and requirements:

A. Additional Subsidy

Eligible construction projects appearing on the 2023 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	80% or greater, but less than 100%	6.6%
2	60% or greater, but less than 80%	13.2%
3	Less than 60%	19.8%

BIL funding may increase the amount of loan forgiveness to Disadvantaged Communities beyond these standard offerings.

With the establishment of the Disadvantaged Communities program, all projects that are eligible for additional subsidy on the 2023 DWSRF IUP and PPL are now considered Disadvantaged Communities and will be reported as such. The establishment of a formal DWSRF Disadvantaged Communities 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 awarded to construction contracts that are executed by **June 30, 2024**, 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 2023 financing period. MassDEP reserves the right to waive the applicant cap limitation if MassDEP and the Trust 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 to Small Systems, i.e., drinking water systems serving fewer than 10,000 customers. The total DWSRF funds expected to be available for 2023 is \$375 million. Fifteen percent of that amount is \$56 million. The IUP list contains 12 small system projects totaling approximately \$77 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 2023, 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 2023 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 AMP 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 project proposals 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 13, 2023**, 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, planning or PFAS design. 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 2023 financing period. Although costs for design are eligible, only PFAS design will be financed during this funding period due to the high demand for construction financing. MassDEP may limit the SRF loan for PFAS design to 10% of the total estimated cost of the remedy.

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 2023 DWSRF grant of \$25.5million from USEPA, the required 20% state match equals \$5.1 million. In addition, it is estimated that for 2023, Massachusetts will receive \$48.2 million for the Supplemental DWSRF Grant. The required 10% state match equals \$4.8 million. These state match funds are provided to the Trust from the Commonwealth's Capital Plan.

B. Fee Income

The Trust may charge 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, 2022, 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 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 priority projects each year accounting for about two thirds of the proposed construction projects. Generally, over half 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 \$24.3 million (33% of the 2023 DWSRF capitalization grant amount of \$25.5 million and the supplemental grant amount of \$48.2 million). Furthermore, Massachusetts reserves authority of future transfers of Supplemental BIL funds.

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 \$7.2 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 2023 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 \$375 million of DWSRF eligible projects.

G. Additional Subsidy and the Disadvantaged Communities Program

As may be required in federal law applicable to the 2023 DWSRF capitalization grant, 26% of the grant amount shall be provided as additional subsidy, but no less than 12% and no more than 35%, to Disadvantaged Communities, provided eligible applicants exist. In the 2023 DWSRF IUP, Massachusetts intends to award a minimum of \$6.6 million of the capitalization grant in additional subsidy to eligible projects. In addition, Massachusetts expects to receive \$48.2 million for the Supplemental DWSRF Grant, \$65.6 million for the Lead Service Line Replacement 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 \$23.6 million, or 49% of the total grant, be provided as loan forgiveness to Disadvantaged Communities. The Lead Service Line Replacement Grant requires that \$32.1 million, or 49% of the total grant, be provided as loan forgiveness to Disadvantaged Communities. The Emerging Contaminants Grant requires that the full amount, \$17.5 million, net of set asides taken, of the grant be provided as loan forgiveness and that at least 25% of the grant be provided 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)
- Federal Flood Risk Management Standard (FFRMS) to comply with Executive Order [\(EO\) 14030](#) that reinstated EO 13690
- 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 applications. 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 appropriation 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 requirements 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, unless (i) the SRF borrower has requested and obtained a waiver from the EPA pertaining to the Project or the Project is otherwise covered by a general applicability waiver; or (ii) the Department has otherwise advised the borrower in writing that the Build America, Buy America requirement is not applicable to the project. 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 2023 IUP/PPL will be made on December 16, 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 will take place virtually on **January 19, 2023**. Records of the testimony received will be maintained in MassDEP's files. MassDEP will take into consideration the testimony received to finalize this IUP.

TABLE 3
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2023 DWSRF Project Priority List

NEW PROJECTS

Rating	Applicant	PWSID	Pop.	SRF ID	Project	Project Cost
553	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(RE)(BG)(W)	1281000	170211	12550	Replacement of Water Treatment Plant – Phase 2B	\$280,900,000
553	SPRINGFIELD WATER AND SEWER COMMISSION (PF)(RE)(BG)(W)	1281000	170211	12465	Replacement of Water Treatment Plant – Phase 2A	\$5,460,000
546	SOMERVILLE (H)(LR)(PF)	3274000	81045	10382	Somerville LSL Replacement Program Phase 3	\$2,068,800
541	SCITUATE (BG)	4264000	19760	7348	Surface Water Treatment Plant	\$41,382,000
537	SHARON (RE)(SG)	4266000	16262	12443	Wells 2 & 4 Water Treatment Plant	\$20,057,875
536	ANDOVER (H)(LR)	3009000	36569	12495	Lead Service Line Replacement	\$4,050,000
534	MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	7331	Cp-2 NEH Improvements	\$13,640,000
532	WEBSTER (PF)(SG)	2316000	17776	10380	PFAS Water Treatment Plants	\$32,800,000
532	FALL RIVER (LR)(PF)	4095000	94000	12468	Lead Service Line Replacement	\$4,150,000
530*	LITTLETON WATER DEPARTMENT (H)(SG)	2158000	9561	12397	Water Supply Main Extension Littleton/Boxborough	\$19,078,000
530	FOXBOROUGH (SG)	4099000	18618	12535	Chestnut Street WTP Improvements	\$14,000,000
529	SUDBURY (H)(SG)	3288000	18665	11383	East Street WTP PFAS Treatment	\$5,810,000
529	CONCORD (BG)	3067000	16610	12423	Nagog Pond Water Treatment Plant	\$35,488,084
528	YARMOUTH (EC)(PF)	4351000	40857	12531	Yarmouth Well 4&5 Package PFAS Treatment System	\$4,723,700
527	ACTON WATER SUPPLY DISTRICT (EC)(H)	2002000	19915	12506	PFAS Treatment at South Acton WTP	\$8,700,000
527	ACTON WATER SUPPLY DISTRICT (EC)(H)	2002000	19915	12517	PFAS Treatment at Central Acton WTP	\$5,420,000
526	WESTBOROUGH (EC)	2328000	21567	7272	Oak Street WTP PFAS Improvements	\$6,311,731
526	MIDDLEBOROUGH (EC)(H)(PF)	4182000	16900	9373	East Grove Street Water Treatment Plant	\$18,500,000
526	WOBURN (PF)	3347000	40876	12538	Horn Pond Water Treatment Plant PFAS Removal	\$18,990,000
525	MELROSE (H)(LR)	3178000	29817	8359	Melrose Lead Service Replacement	\$1,035,000
525*	EAST BROOKFIELD (PF)	2084000	1526	12438	West Street Fe and Mn WTP	\$8,080,000
524	CHATHAM	4055000	30000	12457	Training Field Road PFAS Water Treatment Plant	\$19,800,000
523	RAYNHAM (PF)	4245000	10378	11390	PFAS Water Treatment Plants	\$23,500,000
523*	AQUARION WATER COMPANY - MILLBURY	2186000	9449	12509	Oak Pond Well GAC Treatment Facility	\$3,275,000

522	STOUGHTON (H)(PF)	4285000	29287	7298	Muddy Pond Pump Station PFAS Treatment	\$5,279,500
522 *	WEST BRIDGEWATER (PF)	4322000	7669	12432	West Bridgewater Long Term PFAS Compliance	\$3,163,200
522	FRANKLIN (H)	2101000	33261	12544	Franklin Well 7/7A PFAS Treatment	\$5,600,000
521	BELLINGHAM (PF)	2025000	15575	12475	PFAS Treatment at Hartford Avenue WTP	\$20,800,000
520 *	HOPEDALE (PF)	2138000	5966	12478	Greene Street WTP PFAS Treatment	\$4,500,000
520 *	LYNNFIELD CENTER WATER DISTRICT	3164000	8263	7322	Glen Drive WTP & Station 2 Pipeline	\$18,960,000
520	EVERETT (H)(LR)(PF)	3093000	49075	12399	Everett Lead Service Line Replacements Phase 4	\$1,881,000
517 *	AQUARION WATER COMPANY - MILLBURY	2186000	9449	11382	Jacques Wells Water Treatment Facility	\$6,731,250
516 *	WEST BRIDGEWATER (PF)	4322000	7669	12428	Cyr Street and Norman Avenue Fe/Mn Treatment	\$11,740,001
513 *	AQUARION WATER COMPANY - OXFORD	2226000	6845	12519	North Main Street Water Treatment Plant	\$2,904,453
511	CONCORD (LR)	3067000	16610	12477	Concord, MA Lead Service Line Replacements Project	\$2,000,000
509 *	AQUARION WATER COMPANY - DOVER (PF)	3078006	1809	12458	Chickering Drive Station	\$980,000
507 *	HARVARD	2125000	1650	7285	Harvard-Devens Water System Interconnection	\$4,850,000
507 *	AQUARION WATER COMPANY - DOVER (PF)	3078008	126	12511	Springdale Farms Treatment System Improvements	\$1,248,750
453	BROCKTON (H)(PF)	4044000	105643	12448	Aquaria Desalination Plant	\$57,000,000
447	FITCHBURG (PF)	2097000	41946	7341	Meetinghouse Gatehouse Rehabilitation	\$3,000,000
443	NEW BEDFORD (PF)	4201000	101079	12427	Phase 3 Quittacas WTP Upgrades	\$3,125,000
436	TAUNTON (H)(PF)	4293000	59290	12528	WTP Electrical System Improvements	\$2,196,000
435	LOWELL (H)(PF)	3160000	115554	11386	Finished Water Redundancy & Electrical Upgrades	\$14,380,000
432	FALL RIVER (PF)	4095000	94000	12518	Water Treatment Plant Upgrades	\$3,934,900
432	LOWELL (H)(PF)	3160000	115554	7316	Lowell High Pressure Zone Interconnection	\$5,959,000
432	IPSWICH	3144000	13830	11388	Dow Brook Dam and Drain Improvements	\$2,260,213
430	HAVERHILL (PF)	3128000	61208	8363	Phase 3 - Transmission Main Improvements	\$7,560,000
430	HAVERHILL (PF)	3128000	61208	12480	Haverhill, MA Radial Collector Well	\$21,325,000
428	PEABODY (PF)	3229000	52377	8350	Suntaug Gatehouse and Coolidge RWPS Rehabilitation	\$3,799,500
426	ANDOVER (H)	3009000	36569	7283	Phase 2 Water Transmission Main Improvements	\$12,006,000
426	BARNSTABLE (H)(PF)	4020004	35000	7299	Mary Dunn 4 Pump Station and Transmission Main	\$3,914,000
426	MATTAPOISETT RIVER VALLEY WATER DISTRICT	4173001	29600	7338	MRVWD Water Treatment Plant Upgrades	\$6,885,000

425	LAWRENCE (H)(PF)	3149000	80162	12402	Tower Hill Transmission Main Redundancy	\$1,953,600
425 *	BELCHERTOWN (H)(PF)	1024002	600	12512	Pine Valley Plantation Water System Replacement	\$5,173,910
425	NEWBURYPORT (H)	3206000	20335	12562	Indian Hill Pump Station and Raw Water Main	\$18,820,000
423 *	WINCHENDON (PF)	2343000	5706	7289	Water Transmission Main Replacement	\$9,560,000
423	WEST SPRINGFIELD (PF)	1325000	28833	12417	West Springfield Control Valve Improvements	\$2,113,000
419 *	GEORGETOWN	3105000	8766	12472	Water Treatment System Improvements	\$20,000,000
418	WESTFIELD (PF)	1329000	42000	12491	New Provin Mountain Water Storage Tank	\$4,953,300
415 *	SPENCER (PF)	2280000	7037	12542	Meadow Road Water Treatment Facility Filter Repair	\$1,975,200
323	HOLDEN	2134000	17275	12418	Holden Water System Improvements	\$14,000,000
320 *	LANESBOROUGH FIRE AND WATER DISTRICT (PF)	1148000	2324	12553	Water Infrastructure Improvements Project	\$9,000,000
319 *	WARE (PF)	1309000	7376	7340	Barnes Street Well Connection	\$1,500,000
318	FRANKLIN (H)	2101000	33261	12532	Franklin Fisher St. WTP Improvements	\$13,600,000
315 *	RUSSELL (PF)	1256000	1228	12548	Strathmore Park Well Water Treatment Facility	\$3,250,000
315 *	WEST BOYLSTON WATER DISTRICT (PF)	2321000	6656	12559	Lee St Water Main Replacement	\$950,000
314 *	LINCOLN (H)	3157000	6865	8351	Water Main Replacement	\$4,410,000
314 *	AVON (PF)	4018000	4777	10379	Glendower Neighborhood AC Pipe Removal Project	\$1,478,180
312	AGAWAM (PF)	1005000	28692	7280	Northeast Area Water Main Replacement	\$6,178,000
312 *	LUNENBURG (PF)	2162000	7116	11387	Lunenburg Water District	\$7,220,000
311	AGAWAM (PF)	1005000	28692	7279	Belvidere & Brookline Water Main Replacement	\$2,060,000
311 *	DALTON (PF)	1070000	6413	12486	Greenridge Park Water Main Replacement Project	\$4,295,000
241	ACTON WATER SUPPLY DISTRICT (H)	2002000	19915	12523	Clapp/Whitcomb Backwash Upgrades	\$650,000
237	LOWELL (H)(PF)	3160000	115554	7315	Lowell Regional Water Utility Lagoon Construction	\$5,260,000
237	MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	7330	CP-1 Section 53 Connection Construction	\$16,044,600
237	MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	7332	Steel Tank Improvements Construction	\$11,518,000
230	LAWRENCE (H)(PF)	3149000	80162	12404	Water Treatment Plant & Source Improvements	\$5,575,770
230	EASTON (H)	4088000	23112	12416	Bay Road Water Storage Tank Rehabilitation	\$1,520,000
229	ANDOVER (H)	3009000	36569	12534	Water Treatment Plant Upgrades	\$18,282,000
228	WEST SPRINGFIELD (PF)	1325000	28833	12412	West Springfield Route 5 Water Main	\$13,123,000
228	WEBSTER (PF)	2316000	17776	12569	Water Meter Systems Upgrades	\$4,200,000

226	SOMERVILLE (H)(PF)	3274000	81045	12552 Somerville Central Broadway Water Main Upgrades	\$7,080,000
226	BARNSTABLE (H)(PF)	4020004	35000	7313 Mary Dunn 1: Water Storage Tank Rehabilitation	\$975,000
226	ANDOVER (H)	3009000	36569	8357 North Reading Transmission Main Improvements	\$6,284,520
226	NEWBURYPORT (H)	3206000	20335	12421 AMI and Water Meter Replacement Program	\$5,258,155
223 *	MARION	4169000	6328	11381 Point Road and Delano Road Water Main Replacement	\$3,690,000
222	HOLBROOK (PF)	4133000	11407	7304 Sycamore Street Water Storage Tank	\$3,173,500
222	FRANKLIN (H)	2101000	33261	12405 Hillside Tanks No. 1 and No. 2 Replacement	\$7,784,000
222	RANDOLPH (PF)	4244001	41935	12474 Joint Water Board Storage Tank Replacement	\$15,961,026
222	BILLERICA (H)(PF)	3031000	42119	12488 Distribution System Upgrades	\$28,519,500
222	HOLYOKE (PF)	1137000	40124	12492 Phase 3A Water Main Replacement Project	\$8,670,000
221	ANDOVER (H)	3009000	36569	8355 Chandler Road Water Main Improvements	\$2,846,664
221	ACTON WATER SUPPLY DISTRICT (H)	2002000	19915	12521 Bedrock Wells at Central Acton WTP	\$2,400,000
220	BILLERICA (H)(PF)	3031000	42119	7286 Crosby Hill Storage Tank Replacement	\$6,375,000
220	BILLERICA (H)(PF)	3031000	42119	8361 Water Treatment Plant Upgrades	\$5,158,500
220	LAWRENCE (H)(PF)	3149000	80162	12420 Water Main Improvements	\$6,565,040
220 *	DIGHTON WATER DISTRICT (PF)	4076000	4925	12539 Brook Street Well Acquisition	\$6,000,000
219 *	AVON (PF)	4018000	4777	12409 Emergency Interconnection	\$1,840,500
219	YARMOUTH (PF)	4351000	40857	12471 Route 28 Water Main Replacement	\$15,591,000
219	SWANSEA WATER DISTRICT (PF)	4292000	17358	12407 Water Meter Replacement	\$2,410,000
218	YARMOUTH (PF)	4351000	40857	12546 Route 6A Water Main Replacement	\$3,799,500
216	EASTON (H)	4088000	23112	12482 Easton 2023 Water Main Improvements	\$2,948,000
216	SAUGUS (PF)	3262000	24529	12489 Oceanview Ave Water Booster Station Improvements	\$480,000
216	FALMOUTH (PF)	4096000	77500	12516 Falmouth Water Main Improvements Project	\$2,850,000
215	HARWICH (PF)	4126000	40062	7314 Harwich Rt. 28 Waterline Replacement Project	\$14,306,195
214 *	AVON (PF)	4018000	4777	10377 East Main Street Water Mains Improvement Project	\$2,542,400
214	ATHOL (PF)	1015000	10290	12459 Water Main & Lead Service Replacement	\$1,596,000
213	ACTON WATER SUPPLY DISTRICT (H)	2002000	19915	10374 LCRR Lead Removal Program	\$2,822,050
212	BILLERICA (H)(PF)	3031000	42119	7287 Phase 1 Water Main Replacement	\$9,325,000
212	MILTON	3189000	28630	7344 Water Main Replacement	\$2,380,000
212	MIDDLEBOROUGH (H)(PF)	4182000	16900	12434 Water Main & Lead Service Line Replacement	\$5,955,300

211 * WEST NEWBURY	3324000	3027	7312 Church St. & Prospect St. Water Main Replacement	\$2,395,000
128 ANDOVER (H)	3009000	36569	12452 SCADA & Cybersecurity Improvements	\$2,016,960
105 * EASTHAM (H)(PF)	4086095	4904	12557 Eastham Water System - Phase 2F	\$10,050,000

TOTAL OF NEW PROJECTS **\$1,243,915,327**

(Count: 114)

(Average Rating: 371.38)

- * - Small System
- (BG) - Base Capitalization Grant
- (D) - Dropped by Applicant
- (EC) - BIL DWSRF Emerging Contaminants Grant
- (H) - Housing Choice Communities
- (L) - Water Infrastructure Funding Transfer Act (WIFTA) Projects
- (LR) - BIL DWSRF Lead Service Line Replacement Grant
- (PF) - Disadvantaged Community
- (RE) - Potential Renewable Energy Projects
- (SG) - BIL DWSRF Supplemental Grant
- (W) - Water Infrastructure Finance and Innovation Act (WIFIA)
- # - 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
PLANNING AND PFAS DESIGN SRF SET-A-SIDE	13574		\$10,000,000

TOTAL OF MassDEP PRIORITY PROJECTS **\$15,000,000**

(Count: 2)

MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS

Applicant	PWSID	Pop.	SRF ID	Project	Project Cost
ABINGTON-ROCKLAND JOINT WATER WORKS (PF)	4001000	33404	7152	Hannigan and Myers Avenue WTP PFAS Treatment	\$26,672,000
BRAINTREE #(RE)(PF)	4040002	25	7258	Tri-Town Regional Water Treatment Plant	\$55,212,683
HOLBROOK #(RE)(PF)	4040002	25	7259	Tri-Town Regional Water Treatment Plant	\$19,904,296
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
MASSACHUSETTS WATER RESOURCES AUTHORITY	6000000	2550000	7218	Section 23, 24, 47 Water Mains Rehab	\$14,700,000
NEW BEDFORD	4201000	95072	7173	Highway Bridge Crossing Replacement Project	\$6,300,000
NEW BEDFORD (PF)	4201000	95072	7172	Quittacas Water Treatment Plant Upgrades	\$23,637,500
RANDOLPH #(RE)(PF)	4040002	25	7260	Tri-Town Regional Water Treatment Plant	\$39,780,862

TOTAL OF MULTI-YEAR CARRYOVER AND STATUTORY PROJECTS **\$238,209,191**

(Count: 9)

TOTAL OF PROJECT PRIORITY LIST **\$1,497,124,518**

TABLE 4
DRINKING WATER STATE REVOLVING FUND
Calendar Year 2023 DWSRF ASSET MANAGEMENT PLANNING PROJECTS

ASSET MANAGEMENT PLANNING PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost
89	AUBURN WATER DISTRICT	12463	Auburn Water District Water Asset Management Plan	\$155,000
85	CHESTER	12426	Chester Water Asset Management Plan	\$113,500
82	RUSSELL	12497	Russell Water and Wastewater Asset Management Plan	\$151,000
81	DOUGLAS	12556	Water Asset Management Plan	\$140,000
81	WEST SPRINGFIELD	12424	West Springfield Water SCADA Improvements	\$481,000
79	FITCHBURG	11393	Fitchburg Water System Asset Management	\$102,000
73	SUDBURY	12520	Sudbury Water System Asset Management Plan	\$250,000
73	PEABODY	8354	Peabody Water Asset Management	\$250,000
68	MILFORD	12545	Milford Asset Management Plan	\$73,200
61	SOUTHAMPTON	12425	Expand and Improve Asset Management System	\$80,000
58	MARION	12435	Marion DPW Asset Management Planning	\$55,000
51	MIDDLEBOROUGH	12451	Water Utility Asset Management Planning	\$209,000
TOTAL OF ASSET MANAGEMENT PLANNING PROJECTS				\$2,059,700
(Count: 12)				
TOTAL OF PROJECT PRIORITY LIST				\$2,059,700

APPENDIX A – Base, Supplemental and Lead Service Line Grants



DRINKING WATER STATE REVOLVING FUND (DWSRF)

Fiscal Year 2023 Set-asides for Base, Supplemental, and Lead Service Line Grants

Funds Authorized Under the Federal
Safe Drinking Water Act

Information on Set-asides Base DWSRF Grant

The Commonwealth of Massachusetts plans to set aside \$5,040,600 (31% of \$16,260,000 - 2022 Grant 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 – 3 FTEs

MassDEP anticipates applying for the full 4% (\$650,400) from the 2022 DWSRF 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 will 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- (1.75 FTEs)

MassDEP anticipates applying for the full 2% (\$325,200) from the 2022 DWSRF Capitalization Grant for small systems technical assistance. Duties may include (but not limited to), staffing to support safe drinking

water act compliance. 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.

2% Set-Aside Deliverables:

- On-site training and support to Public Water Suppliers.
- Perform TNC compliance assistance sanitary surveys and provide Groundwater Underthe Influence evaluations.
- Technical assistance given to targeted systems that have specific SDWA treatmentcompliance 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 orgroundwater 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% (\$1,626,000) from the 2022 DWSRF 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; and, D) support for state operator certification program.

A. PWSS SUPPORT – 4.5 FTEs

The money will provide funding for approximately 4.5 FTEs and their associated operating costs. Duties ofthe FTEs include capacity development, consumer confidence report assistance, adoption andimplementation 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.

IV. 15% -SOURCE WATER PROTECTION AND CAPACITY DEVELOPMENT – 12.5 FTEs

MassDEP anticipates applying for the full 15% (\$2,439,000) from the 2022 DWSRF 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. (12.5) FTE's and contracted services.

A. WELLHEAD PROTECTION AND CAPACITY IMPLEMENTATION-12.5 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.

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

**2022 IUP Drinking Water Set-Asides Base Grant Budget
Grant Amount \$16,260,000**

	Set-Asides				Total Set Asides
	4% Admin	2% Small System	10% State Program	15% Local Asst	
Salary	\$641,022	\$321,167	\$1,619,867	\$2,435,749	\$5,017,805
Travel	\$4,000	\$4,033	\$4,000	\$3,251	\$15,284
Supplies	\$2,500	\$0	\$2,133	\$0	\$4,633
Equipment	\$2,878	\$0	\$0	\$0	\$2,878
Total	\$650,400	\$325,200	\$1,626,000	\$2,439,000	\$5,040,600
FTE	3	1.75	8.5	12.5	25.75

Information on Supplemental DWSRF Grant Set-asides

The Commonwealth of Massachusetts plans to set aside \$5,830,500 of the Supplemental DWSRF Grant for various non-construction related activities that are authorized in the Safe Drinking Water Act Amendments of 1996.

I. 4% DWSRF ADMINISTRATION – 9 FTEs

MassDEP anticipates applying for \$1,670,000 from the 2022 DWSRF Supplement 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 CORRDINATION of projects and liaison with the Massachusetts Water Pollution Abatement Trust

B. OVERSEE ADMINISTRATION AND MANAGEMENT of the DWSRF PriorityList/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 DWSRF 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 PrioritiesOversight of DWSRF Loans and Grants

4% Set-Aside Measures of Success

- Drinking Water Source Protection and Technical Services Section activities that support DrinkingWater Program goals and priorities and are coordinated with the DWSRF
- Set-Aside activities achieve stated deliverables and measures of success that are consistent with Drinking Water Program objectives.
- Award of loans and grants in a timely manner

II. 2% FOR SMALL SYSTEMS SET-ASIDE- (1.25 FTEs)

MassDEP anticipates applying for \$583,000 from the 2022 DWSRF Supplemental 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 limited to):

A. STAFFING TO SUPPORT SAFE DRINKING WATER ACT COMPLIANCE (1.25 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 AND TRAINING

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.

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

MassDEP anticipates applying for \$2,150,000 from the 2022 DWSRF Supplemental Grant for Program Management. The State Program Management Set-aside is used to fund the following:

A. CONTRACT SERVICES - PWSS SUPPORT

The money will provide funding for a third-party contractor to provide approximately 4 FTEs and their associated operating costs. Duties of the FTEs include fiscal management, grant support, implementation support for new regulations (e.g., lead, PFAS, etc.), data management, and other drinking water program activities

B. CONTRACT SERVICES – PUBLIC WATER SYSTEM TECHNICAL ASSISTANCE

MassDEP will fund a third-party contractor to provide approximately 4 FTEs and their associated operating costs. Duties of the FTEs involve compliance 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 Small and Disadvantaged Communities, Lead Service Line Replacement Inventory, Unregulated Contaminants and the SRF Process.

The SDWA Programs include: Revised Total Coliform Rule, Disinfectants and Disinfection By-products Rule, Ground Water Rule, Surface Water Treatment Rules, Distribution System Protection, Database Management, Filter Backwash Rule, Emergency Response, Cyber security, Asbestos, Acrylamide, Epichlorohydrin, Consecutive Systems, , Fluoride, Legionella, Source Water Approval, Ice Making Sources, Metering, New System Registration, Permitting and Guidelines, Point of Use/Point of Entry Treatment, Rule Development, Vinyl-lined Asbestos Cement and Pipes, Drinking Water Vending, and Wellhead Protection.

C. 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.

D. 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.

IV. 15% -SOURCE WATER PROTECTION AND CAPACITY DEVELOPMENT – 4 FTEs

MassDEP anticipates applying for \$1,427,500 from the 2022 DWSRF Supplemental 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.

A. WELLHEAD PROTECTION AND CAPACITY IMPLEMENTATION-4 FTEs

- 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.

- 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.
- Assist in Zone II delineation (and re-delineation as needed) and other wellhead protection-related work.
- 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.
- 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.
- Provide assistance, primarily with protection of groundwater sources

B. 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.

C. 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.

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

2022 IUP Drinking Water Set-Asides Supplemental DWSRF Grant Budget
Grant Amount: \$41,750,000

	Set-Aside				Total Grant Funded
	4% Admin	2% Small System	10% State Program	15% Local Asst	
Salary	\$ 1,665,430	\$ 242,363	\$ -	\$ 766,786	\$ 2,674,579
Travel	\$ 4,570	\$ 637	\$ -	\$ 714	\$ 5,921
Supplies	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment	\$ -	\$ -	\$ -	\$ -	\$ -
Contracts	\$ -	\$ 340,000	\$ 2,150,000	\$ 660,000	\$ 3,150,000
Total	\$ 1,670,000	\$ 583,000	\$ 2,150,000	\$ 1,427,500	\$ 5,830,500
FTE	9	1.25	-	4	14.25

Information on Set-asides – Lead Service Line DWSRF Grant

The Commonwealth of Massachusetts plans to use \$17,103,580 (26% of \$65,783,000) of the Lead Service Line DWSRF Grant's set-aside funding to support activities that are authorized in the Safe Drinking Water Act Amendments of 1996. The 4%, 10%, and a portion of the 15% set-aside funds will be allocated to provide loan forgiveness to eligible borrowers.

Starting on July 1, 2022, the Commonwealth is accepting SRF loan applications with 100% loan forgiveness for planning activities that assist public water suppliers with completing planning projects for lead service line inventories and replacement programs. The Lead Service Line (LSL) Planning Loan Forgiveness Program will follow all SRF program requirements.

I. 4% DWSRF ADMINISTRATION SET-ASIDE

MassDEP plans to apply for the full 4%, \$2,631,320, to allocate to the LSL Planning Loan Forgiveness Program.

II. 2% FOR SMALL SYSTEMS SET-ASIDE

MassDEP plans to apply for the full 2%, \$1,315,660, to fund the following:

CONTRACTED SERVICES - Assistance for Small Community Water Systems and Non-Transient, Non-Community Systems - Lead Service Line Planning Program

MassDEP will use these set-aside funds to contract with a qualified technical assistance provider to complete the following eligible planning projects working with the PWS:

- LSL Inventory - Find, map, and inventory water distribution and customer service lines to complete a comprehensive LSL inventory that will be made publicly available by MassDEP.
- LSL Replacement Program - Completion of an LSL replacement program that complies with LCRRs.

MassDEP's technical assistance program will support the goal of planning to remove all lead service lines in 5 years. This program will be managed and operated by MassDEP's Drinking Water Program.

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

III. 10% FOR STATE PROGRAM MANAGEMENT SET-ASIDE

MassDEP plans to apply for the full 10%, \$6,578,300, to allocate to the LSL Planning Loan Forgiveness Program.

IV. 15% -SOURCE WATER PROTECTION AND CAPACITY DEVELOPMENT

MassDEP plans to apply for the 10%, \$6,578,300, of the 15% set-aside, to allocate to the LSL Planning Loan Forgiveness Program.

2022 IUP Set-Asides Lead Service Line DWSRF Grant Budget
Grant Amount: \$65,783,000

	Set-Asides				
	4% Admin	2% Small System	10% State Program	15% Local Asst (applying for 10% only)	Total Set Asides
Principal Forgiveness	\$ 2,631,320		\$ 6,578,300	\$ 6,578,300	\$ 15,787,920
Contract	-	\$ 1,315,660	-	-	\$ 1,315,660
Total	\$ 2,631,320	\$ 1,315,660	\$ 6,578,300	\$ 6,578,300	\$ 17,103,580

VII. NEW BUSINESS

B. Procurement Update

Pending Procurements

	Budget	Est. Actual	To Be Funded	From
ATM 19 Article #17 - T1 Generator	\$ 65,000.00	\$83,670.00	\$ 18,670.00	524160 Building & Grounds Maintenance
ATM 21 Station 8 Generator	\$ 50,000.00	\$48,145.00		
ATM 22 Article #23 Trucks	\$ 90,000.00	\$97,335.50	\$ 7,335.50	524140 Vehicle & Equipment

Well #4 & Well #7 Rehab Update

	Contract Amount	Xfer/Adjustments	13204502-554300 Well Rehab	Xfer From
			\$ 45,000.00	
Well #4 Cleaning & Redevelopment	\$ 18,092.50		\$ 26,907.50	
Xfer in		\$ 12,460.00	\$ 39,367.50	13204502-553350 WM Replacement
Well #7 Turbine	\$ 37,460.00		\$ 1,907.50	
Xfer in		\$ 27,000.00	\$ 28,907.50	13204502-524160 Building & Grounds
C/O No. 1 Well #4 Relining	\$ 28,420.00		\$ 487.50	

X. CORRESPONDENCE

Month/Year November 2022

Monthly Pumpage Report Harwich Water Department

PWS No. 4126000

Date	T1				T2			T3		T10	T11			
	Main 1	Main 2	Main 3	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8	Well 9	Pump 10	Pump 11
1	62,990	56,263	70,078	114,317	80,675	96,592	0	145,262	152,891	0	146,220	145,126	178,070	157,280
2	35,877	31,950	40,012	65,636	46,068	55,411	0	82,117	86,578	0	83,111	82,484	101,818	89,392
3	39,375	35,030	43,037	72,192	50,675	60,787	0	89,545	94,343	0	90,768	90,000	111,590	97,792
4	44,555	39,559	49,208	81,971	57,333	69,090	0	100,383	105,802	0	101,922	101,051	125,332	109,810
5	43,499	38,679	48,672	80,227	56,138	67,626	0	98,454	103,817	0	100,142	99,316	123,318	107,985
6	43,469	38,655	48,723	80,297	56,110	67,540	0	98,451	103,812	0	100,134	99,388	123,267	108,096
7	38,484	34,179	42,661	70,076	49,070	59,007	0	121,484	125,079	0	160,245	159,240	151,406	171,964
8	40,201	35,555	43,944	73,681	51,828	62,108	0	91,042	95,906	0	92,614	91,966	114,033	75,245
9	40,083	35,457	43,275	73,315	51,466	61,829	0	90,618	95,445	0	91,954	91,226	113,434	99,036
10	39,788	35,257	43,891	72,966	51,088	61,529	0	90,257	95,151	0	91,675	90,804	113,239	98,776
11	42,917	1,221	47,433	79,717	55,324	67,047	0	95,601	100,723	0	97,181	96,279	119,748	104,695
12	42,493	20	47,139	78,764	54,890	66,293	0	94,839	99,912	0	96,471	95,828	118,874	103,968
13	42,311	21	46,817	78,564	54,695	66,015	0	94,609	99,742	0	96,148	95,512	118,411	103,573
14	30,051	21	27,727	58,965	43,788	47,723	0	92,042	96,674	0	91,528	90,459	122,153	100,982
15	45,834	46	70,771	129,715	89,600	114,184	0	94,391	99,301	0	117,960	116,818	144,917	127,015
16	38,214	26	44,151	71,296	50,300	62,936	0	88,434	93,208	0	89,700	88,858	110,482	96,662
17	48,163	23	54,958	89,643	63,168	79,019	0	90,590	95,446	0	91,919	91,038	112,928	99,061
18	38,105	19	43,701	71,114	50,220	62,766	0	87,594	92,281	0	88,726	87,902	108,751	95,597
19	39,773	19	45,438	74,204	52,313	65,403	0	91,151	96,137	0	92,532	91,635	113,225	99,676
20	40,708	12	46,339	75,880	53,559	66,804	0	93,028	98,078	0	94,528	93,626	115,430	101,850
21	40,995	25	46,545	76,358	53,948	67,426	0	93,708	98,717	0	95,163	94,244	144,426	102,578
22	42,561	26	48,316	79,791	56,125	70,423	0	97,086	102,350	0	98,569	97,650	121,439	106,212
23	41,259	42	46,882	77,189	54,357	68,002	0	94,339	99,384	0	95,747	94,849	118,163	103,247
24	44,193	21	50,175	82,895	58,261	72,967	0	100,820	106,194	0	102,487	101,527	126,320	110,607
25	42,706	24	48,641	79,936	56,164	70,444	0	97,421	102,770	0	99,010	98,112	122,175	106,863
26	44,478	24	50,611	83,402	58,593	73,630	0	101,718	107,263	0	103,297	102,339	127,256	111,433
27	43,249	29	49,404	81,117	57,033	71,467	0	99,026	104,352	0	100,592	99,653	123,885	108,618
28	42,653	19	48,706	79,725	55,991	70,367	0	97,755	102,995	0	99,089	98,182	139,488	106,939
29	38,903	28	44,713	73,055	51,487	64,151	0	89,539	94,321	0	90,783	89,974	111,556	97,927
30	43,311	27	50,574	73,177	54,562	65,882	0	109,578	115,095	0	111,634	110,671	136,826	119,820
31														
Pumps :	1,261,200	382,281	1,432,541	2,379,186	1,674,833	2,054,469	0	2,910,882	3,063,768	0	3,011,849	2,985,757	3,711,960	3,222,699
MIN :	30,051	12	27,727	58,965	43,788	47,723	0	82,117	86,578	0	83,111	82,484	101,818	75,245
MAX :	48,163	39,559	70,771	129,715	89,600	114,184	0	121,484	125,079	0	160,245	159,240	151,406	171,964
STATIONS	9,184,510							5,974,650		5,997,606		3,711,960		3,222,699
TOTAL:	28,091,425													

Month/Year November 2021

Monthly Pumpage Report Harwich Water Department

PWS No. 4126000

Date	T1				T2				T3			T10	T11	
	Main 1	Main 2	Main 3	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8	Well 9	Pump 10	Pump 11
1	46,047	40,816	37,104	74,507	54,308	67,782	111,588	103,306	108,131	103,308	108,242	115,603	123,619	113,411
2	55,630	49,058	43,849	84,642	66,216	83,524	132,420	89,955	94,277	89,888	97,315	104,206	102,670	93,302
3	30,641	27,225	25,198	47,118	35,441	43,595	76,027	70,798	73,389	70,857	73,839	78,803	188,951	69,080
4	46,099	41,084	37,419	72,892	53,705	66,493	112,522	104,755	110,027	104,972	109,236	116,351	99,926	115,135
5	28,542	25,369	22,889	46,340	33,745	42,362	69,024	63,417	66,741	63,506	66,332	70,854	72,868	69,820
6	44,214	38,704	36,084	69,153	51,532	63,631	109,015	100,689	102,863	100,987	104,577	111,375	119,235	109,903
7	47,235	40,967	38,282	74,670	55,279	68,533	115,871	106,943	111,804	107,241	111,295	118,595	128,550	117,268
8	33,701	28,048	25,234	52,853	42,278	54,249	74,824	119,328	156,230	110,220	102,994	110,216	118,049	122,097
9	41,376	37,717	35,897	67,868	50,207	75,322	129,267	128,490	133,978	128,704	143,645	152,518	205,749	139,836
10	25,151	22,898	21,091	41,517	30,549	35,517	63,510	58,555	61,268	58,640	60,515	58,443	70,397	44,577
11	47,404	42,999	39,661	77,389	57,302	66,333	120,226	110,987	116,059	111,148	112,956	109,124	133,254	120,003
12	25,790	23,462	21,563	42,493	31,303	36,262	64,962	59,812	62,644	59,993	61,981	59,978	71,889	65,287
13	48,174	43,719	40,298	78,454	58,187	67,396	122,146	112,419	117,492	112,753	116,088	112,290	132,153	122,036
14	23,301	21,261	19,587	37,732	28,145	32,583	59,483	54,766	56,843	54,842	56,513	54,681	68,390	59,346
15	48,620	44,493	40,705	79,114	58,718	67,876	123,478	113,912	118,999	114,162	117,484	113,630	136,681	123,451
16	22,348	20,343	18,799	35,805	26,846	30,834	57,041	52,623	54,409	52,795	54,147	52,358	62,699	56,704
17	41,264	44,153	40,441	77,730	58,140	66,891	122,525	122,547	127,841	123,224	116,471	112,736	103,002	122,307
18	26,403	18,241	17,016	30,858	23,639	26,976	51,576	47,718	47,978	47,705	48,795	47,184	129,964	56,278
19	44,707	41,484	37,956	72,336	54,051	62,330	114,760	105,849	110,459	106,149	108,973	105,410	127,174	114,209
20	26,059	23,792	21,595	43,471	31,773	36,994	65,115	59,929	62,859	60,116	62,165	60,163	72,205	65,384
21	39,657	43,702	39,643	78,154	57,608	66,971	119,887	110,522	114,955	110,788	113,830	110,136	97,216	119,547
22	28,946	19,558	17,836	34,130	25,284	29,265	53,750	49,726	50,818	49,932	51,043	49,393	94,906	53,344
23	27,008	24,761	22,267	45,006	32,888	38,470	67,423	62,075	65,437	62,192	64,333	62,255	74,527	67,863
24	42,557	39,062	35,863	68,485	51,269	58,963	108,542	100,093	103,011	100,256	102,796	99,330	120,444	107,285
25	28,416	26,170	23,440	47,369	34,697	40,532	70,842	65,232	68,742	65,336	67,735	65,530	78,280	71,575
26	40,298	36,961	34,252	64,216	48,436	55,208	103,464	95,581	96,410	95,739	97,894	94,615	113,904	101,999
27	48,851	44,644	40,585	79,743	59,047	68,458	123,059	113,358	118,305	113,702	117,100	113,234	126,711	123,027
28	22,020	20,210	18,670	35,503	26,627	30,696	56,290	52,114	53,299	52,269	53,633	51,831	71,463	56,187
29	35,573	32,562	29,607	58,429	43,079	49,841	89,296	82,705	86,796	82,823	85,679	82,896	99,539	89,920
30	26,844	24,545	22,219	44,348	32,746	38,056	67,521	62,182	65,452	62,327	64,371	62,290	74,581	67,917
31														
Pumps :	1,092,876	988,009	905,052	1,762,325	1,313,046	1,571,943	2,755,450	2,580,385	2,717,515	2,576,573	2,651,977	2,656,028	3,218,996	2,758,098
MIN :	22,020	18,241	17,016	30,858	23,639	26,976	51,576	47,718	47,978	47,705	48,795	47,184	62,699	44,577
MAX :	55,630	49,058	43,849	84,642	66,216	83,524	132,420	128,490	156,230	128,704	143,645	152,518	205,749	139,836
STATIONS :	10,388,701				7,874,473				5,308,006			3,218,996	2,758,098	
TOTAL:	29,548,274													

Date November 2022
 PWS No. 4126000

Monthly Weather Report
Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Temperature AVG (°F)	Weather Comments	Operator
1		0.37	61	59	60		
2		0.00	63	47	55		
3		0.00	59	42	51		
4		0.00	66	50	58		
5		0.00	69	60	64		
6		0.00	70	62	66		
7		0.00	68	58	63		
8		0.00	58	47	53		
9		0.00	51	40	46		
10		0.00	63	45	54		
11		0.14	65	54	59		
12		1.54	67	58	62		
13		0.85	58	45	51		
14		0.00	47	33	40		
15		0.00	47	30	38		
16		0.37	59	42	51		
17		0.00	49	37	43		
18		0.00	44	33	39		
19		0.00	45	31	38		
20		0.00	42	31	36		
21		0.00	46	29	37		
22		0.00	50	36	43		
23		0.00	51	33	42		
24		0.00	46	34	40		
25		0.00	52	39	45		
26		0.00	49	40	44		
27		0.44	57	37	47		
28		0.00	57	45	51		
29		0.00	48	37	43		
30		0.80	56	36	46		
31							
Total		4.51					
Average		0.15	55.4	42.4			
Max		1.54	69.5	62.2			
Min		0.0	42.3	28.7			

Date November 2021
 PWS No. 4126000

Monthly Weather Report
 Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Temperature AVG (°F)	Weather Comments	Operator
1		0.00	63	47	55		
2		0.41	56	41	48		
3		0.04	53	39	46		
4		0.04	49	37	43		
5		0.04	52	34	43		
6		0.04	51	33	42		
7		0.04	52	32	42		
8		0.04	58	44	51		
9		0.04	60	40	50		
10		0.00	59	43	51		
11		0.00	54	38	46		
12		0.45	60	51	56		
13		0.00	58	43	51		
14		0.00	51	38	45		
15		0.00	54	43	48		
16		0.00	49	38	43		
17		0.00	51	36	44		
18		0.00	62	51	57		
19		0.12	58	43	50		
20		0.00	48	37	42		
21		0.25	54	45	49		
22		0.40	55	44	50		
23		0.00	44	35	40		
24		0.00	44	34	39		
25		0.00	52	35	43		
26		0.00	47	38	42		
27		0.00	43	32	38		
28		0.00	42	30	36		
29		0.00	45	34	39		
30		0.00	40	30	35		
31							
Total		1.91					
Average		0.06	52.1	38.8			
Max		0.45	62.7	51.5			
Min		0.0	40.2	30.3			

Month/Year December 2022

Monthly Pumpage Report Harwich Water Department

PWS No. 4126000

Date	T1							T2			T3		T10	T11
	Main 1	Main 2	Main 3	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8	Well 9	Pump 10	Pump 11
1	27,804	22	31,793	51,938	36,565	45,793	0	64,070	67,460	0	64,824	64,257	80,157	70,150
2	43,088		49,149	81,030	57,015	71,351	0	99,031	104,330	0	99,846	98,917	123,929	108,544
3	42,578		47,296	77,242	54,322	68,361	7,533	98,977	104,243	0	100,875	99,943	124,388	108,819
4	40,776		46,659	75,458	53,594	67,030	0	93,554	98,671	0	94,730	93,871	116,736	102,097
5	38,297		43,764	70,702	50,357	62,858	0	88,341	93,119	0	89,322	88,521	109,828	96,308
6	37,658		43,027	69,580	49,229	61,686	0	96,046	100,942	0	119,037	117,955	96,109	60,515
7	36,461		41,885	67,425	47,670	59,885	0	84,162	88,676	0	83,633	82,867	100,290	90,885
8	34,059		38,907	63,117	44,605	56,013	0	78,002	82,106	0	78,455	77,768	97,271	85,480
9	35,344		40,509	66,094	46,801	58,650	0	81,585	85,959	0	82,041	81,322	101,546	88,767
10	34,323		39,057	63,602	45,124	56,478	0	78,810	82,950	0	79,724	79,041	98,730	86,462
11	49,292	22	57,339	89,622	64,076	79,816	0	115,803	121,828	0	115,965	114,916	142,417	124,713
12	35,311	5,722	40,208	65,746	46,590	57,895	0	81,078	85,335	0	81,864	81,152	101,345	88,593
13	35,386	16	40,106	65,948	46,623	58,349	0	80,862	85,203	0	81,950	81,243	101,412	88,677
14	34,573	16,259	45,958	73,720	53,137	65,625	0	95,935	100,462	0	98,516	98,159	98,736	116,304
15	52,213	34	52,837	83,191	59,373	73,861	0	104,808	110,026	0	106,795	105,277	154,376	104,985
16	33,836	29	38,730	63,050	44,553	55,759	0	77,434	81,468	0	78,593	77,911	97,300	85,001
17	35,209	24	40,129	65,601	46,423	58,177	0	80,767	85,071	0	81,809	81,120	101,165	88,545
18	34,599	13	39,166	64,195	45,643	56,933	0	79,287	83,423	0	80,169	79,511	99,421	86,897
19	52,584	21	59,981	96,209	68,780	85,528	0	122,312	128,665	0	122,841	121,764	150,369	157,640
20	31,044	23	35,468	57,462	40,878	51,018	0	100,902	105,766	0	72,255	71,621	88,948	77,953
21	35,209	17	40,098	65,440	46,480	57,906	0	104,328	109,713	0	82,089	81,340	100,896	57,916
22	34,785	28	39,534	64,707	46,052	57,434	0	87,585	92,117	0	80,997	80,321	99,861	87,610
23	35,031	7,514	40,211	65,175	46,182	57,716	0	80,637	84,825	0	76,571	80,954	101,012	88,390
24	60,672	0	66,490	111,658	79,762	99,113	0	140,780	148,087	0	74,337	73,739	172,240	153,640
25	42,273	0	47,303	78,346	55,811	69,537	0	96,951	102,140	0	0	0	120,205	106,800
26	49,316	6	55,566	91,799	65,092	81,427	0	112,745	118,857	0	0	0	140,783	124,147
27	58,232	29	66,174	109,122	77,102	96,510	0	101,607	106,941	0	32,568	32,289	160,712	111,616
28	58,874	16	67,088	108,392	77,167	96,226	0	136,444	143,579	0	79,378	78,707	170,837	220,370
29	34,234	24	39,034	63,786	45,262	56,556	0	78,694	82,911	0	79,693	79,030	98,637	86,167
30	46,871	26	65,624	106,443	75,677	94,377	0	132,416	139,393	0	131,961	134,717	118,170	155,598
31	42,152	41	37,529	59,710	42,437	53,146	0	75,058	79,086	0	77,653	73,210	141,766	71,040
Pumps :	1,262,085	29,884	1,436,622	2,335,510	1,658,380	2,071,015	7,533	2,949,010	3,103,353	0	2,528,491	2,511,443	3,609,592	3,180,629
MIN :	31,044	0	35,468	57,462	40,878	51,018	0	75,058	79,086	0	0	0	88,948	57,916
MAX :	60,672	16,259	67,088	111,658	79,762	99,113	7,533	140,780	148,087	0	131,961	134,717	172,240	220,370
STATIONS :	8,801,029							6,052,363			5,039,934		3,609,592	3,180,629
TOTAL:	26,683,546													

Month/Year December 2021

Monthly Pumpage Report Harwich Water Department

PWS No. 4126000

Date	T1				T2				T3				T10	T11
	Main 1	Main 2	Main 3	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8	Well 9	Pump 10	Pump 11
1	48,214	44,250	40,342	78,649	58,450	67,648	122,535	112,994	118,021	113,261	116,511	112,657	135,410	122,302
2	20,848	19,186	17,730	33,160	25,060	28,798	53,800	49,627	50,769	49,817	50,935	49,250	58,600	53,282
3	27,310	25,161	22,681	45,023	33,172	38,637	68,678	63,353	66,664	63,488	62,601	60,579	75,998	69,239
4	42,714	39,180	36,109	67,682	51,302	58,821	109,578	101,159	104,672	101,392	103,839	100,388	120,496	108,627
5	26,358	24,194	21,968	43,111	31,970	36,957	66,533	61,371	64,248	61,448	63,425	61,479	73,749	66,445
6	39,317	36,133	33,685	61,598	47,056	53,766	102,176	94,307	94,805	94,613	96,328	93,107	109,110	100,284
7	30,887	28,515	25,212	51,715	37,504	43,929	75,408	52,124	53,058	52,086	97,348	95,316	111,312	101,283
8	26,176	24,143	21,683	43,582	31,925	37,206	65,639	60,567	63,391	60,698	62,522	60,656	122,771	65,715
9	24,271	22,392	20,117	40,023	29,442	34,269	60,997	56,316	59,220	56,378	58,057	56,197	67,530	61,184
10	33,944	31,341	27,713	57,300	41,373	48,657	83,418	52,436	55,079	52,509	54,208	52,456	62,897	56,849
11	44,746	41,528	37,639	72,978	54,083	62,590	113,824	105,018	108,182	105,339	107,939	104,444	126,154	112,946
12	26,754	24,671	22,116	44,547	32,496	38,001	67,008	61,789	64,772	61,936	63,956	61,930	74,101	67,180
13	45,061	41,634	37,860	72,966	54,350	62,873	114,711	105,833	109,468	106,129	109,059	105,513	127,246	114,352
14	24,336	32,163	28,276	58,765	42,498	49,889	84,894	60,773	62,997	60,494	80,566	81,442	47,313	90,709
15	33,644	21,603	19,928	37,169	27,969	32,173	60,345	55,661	55,566	56,298	57,759	53,040	108,521	48,848
16	26,942	25,015	22,565	44,787	32,858	38,291	67,964	62,600	66,033	62,854	64,904	62,861	75,291	68,542
17	39,843	36,916	33,978	62,820	47,523	54,507	102,879	95,099	95,708	95,321	97,068	93,881	112,655	101,192
18	27,692	25,570	22,978	46,140	33,759	39,253	69,389	63,958	67,229	64,049	66,367	64,272	76,903	70,051
19	27,763	25,678	23,026	45,987	33,679	39,310	69,611	64,119	67,479	64,308	66,502	64,397	77,067	70,370
20	50,206	46,399	41,992	81,122	60,392	69,657	126,503	98,547	101,786	98,782	101,092	97,802	118,385	105,818
21	25,906	23,919	21,603	42,651	31,481	36,522	65,507	60,237	63,170	60,470	62,349	60,370	70,943	65,721
22	27,303	25,103	22,530	45,060	33,190	38,620	68,653	63,244	66,542	63,402	65,442	63,409	75,932	69,102
23	44,611	41,230	37,781	71,673	53,734	61,604	113,998	105,277	109,976	105,428	108,136	104,643	126,384	128,538
24	25,402	23,463	21,268	41,487	30,754	35,610	64,430	59,393	62,369	59,570	61,336	59,410	71,256	64,624
25	27,185	25,151	22,591	44,759	33,032	38,353	68,549	63,127	66,472	63,281	65,419	63,349	75,952	69,140
26	40,179	37,124	34,438	62,756	47,832	54,538	104,241	96,182	97,730	96,393	98,382	95,199	112,437	102,851
27	28,248	26,060	23,361	47,059	34,453	40,001	70,744	65,179	68,679	65,296	67,563	65,436	114,337	71,456
28	43,117	39,934	36,194	69,993	51,756	59,928	108,364	87,640	89,382	87,755	89,083	85,968	104,171	112,526
29	24,594	22,682	20,391	40,743	29,883	34,837	61,599	69,936	73,693	70,152	72,561	70,444	84,027	81,968
30	48,840	45,164	41,215	78,726	58,749	67,759	124,582	115,631	119,690	115,875	118,446	114,703	138,916	118,745
31	25,691	23,724	21,495	42,386	31,169	36,187	64,868	59,813	62,902	59,919	61,807	59,927	71,783	65,247
Pumps :	1,028,102	949,225	860,464	1,676,416	1,242,895	1,439,191	2,601,428	2,323,310	2,409,749	2,328,739	2,451,510	2,374,525	2,927,647	2,605,136
MIN :	20,848	19,186	17,730	33,160	25,060	28,798	53,800	49,627	50,769	49,817	50,935	49,250	47,313	48,848
MAX :	50,206	46,399	41,992	81,122	60,392	69,657	126,503	115,631	119,690	115,875	118,446	114,703	138,916	128,538
STATIONS :	9,797,721				7,061,798				4,826,035				2,927,647	2,605,136
TOTAL :	27,218,337													

0.74 December 2022
 PWS No. 4126000

Monthly Weather Report
Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Temperature AVG (°F)	Weather Comments	Operator
1		0.75	48	36	42		
2		0.00	46	31	39		
3		0.00	55	45	50		
4		0.25	47	31	39		
5		0.00	47	28	37		
6		0.00	53	38	45		
7		0.22	57	52	55		
8		1.41	57	44	51		
9		0.00	45	40	43		
10		0.00	43	39	41		
11		0.06	41	38	40		
12		0.07	40	33	37		
13		0.01	41	32	37		
14		0.03	39	28	34		
15		0.06	44	35	40		
16		1.00	49	44	47		
17		0.55	49	37	43		
18		0.03	43	32	37		
19		0.00	41	33	37		
20		0.00	40	35	38		
21		0.00	41	30	35		
22		0.03	48	28	38		
23		0.31	55	26	41		
24		0.00	27	17	22		
25		0.00	27	17	22		
26		0.21	32	20	26		
27		0.20	37	26	31		
28		0.00	41	24	33		
29		0.08	47	33	40		
30		0.00	51	37	44		
31		0.90	54	44	49		
Total		6.17					
Average		0.20	44.7	33.3			
Max		1.41	57.0	52.0			
Min		0.0	26.7	17.4			

Date December 2021
PWS No. 4126000

Monthly Weather Report
Harwich Water Department

Day	Snow Fall (in.) (Gallons)	Rain Fall (in.)	Temperature High (°F)	Temperature Low (°F)	Temperature AVG (°F)	Weather Comments	Operator
1		0.00	49	33	41		
2		0.00	55	37	46		
3		0.00	50	33	42		
4		0.00	42	30	36		
5		0.00	47	35	41		
6		0.22	57	44	51		
7		0.01	53	36	44		
8		0.27	42	36	39		
9		0.01	40	32	36		
10		0.01	46	31	38		
11		0.12	57	38	47		
12		0.12	56	37	46		
13		0.00	48	40	44		
14		0.00	50	36	43		
15		0.00	46	30	38		
16		0.18	52	46	49		
17		0.00	60	42	51		
18		0.19	46	41	43		
19		0.19	48	35	41		
20		0.00	39	31	35		
21		0.00	45	35	40		
22		0.00	52	36	44		
23		0.00	36	28	32		
24		0.00	34	28	31		
25		0.27	45	33	39		
26		0.27	44	38	41		
27		0.00	39	34	37		
28		0.00	46	36	41		
29		0.00	45	39	42		
30		0.00	48	44	46		
31		0.00	49	45	47		
Total		1.86					
Average		0.06	47.4	36.0			
Max		0.27	59.6	46.2			
Min		0.0	34.0	27.5			

Leo Yuskus Consulting Service, LLC

36 Hiawatha Road

Woburn, MA 01801

781-910-0676

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Harwich Water Department
196 Chatham Road
Harwich, MA 02645

December 31, 2022

Attn: Dan Pelletier, Superintendent

I am writing to let you know that I am retiring for the second time, closing my business this last day of 2022 .

My first retirement was from Haley and Ward, Inc. I started in 1962 as a survey transit man and after 52 years of service held the position of Senior Vice-President. I totally enjoyed working with the company those many years and appreciated the opportunity of working with clients such as the Harwich Water Department.

After two months at home, I felt my wife no longer appreciated my advice on running the household, and I decided to start a new one-man company, Leo Yuskus Consulting Service, LLC. I was fortunate in the fact that Haley and Ward offered me the opportunity to provide consulting services as a sub-consultant, dealing with many of the clients that I had serviced before retiring.

Now eight years later I feel it is time to really retire. My health is good for an 82-year old man, but my wife is experiencing issues with her health, and I want to be there to assist when needed.

I have worked on many projects for the Harwich Water Department over the years, and I appreciated that opportunity. To your credit you developed a talented staff that are a pleasure to work with. Although I did not have the opportunity to work on many projects directly with you, it was obvious that you were a professional in the way you managed the Department, and got projects completed. You were always courteous in our dealings, and that was appreciated.

Please extend my thanks to the Board members, I go back quite a way with some. I will have favorable memories of all at the Harwich Water Department. Please feel free to contact me at any time if you have any questions, my contact information (cell number and email address) is the same. I would certainly enjoy hearing from you.



Leo Yuskus