

Town of Harwich  
**BOARD OF WATER/WASTEWATER COMMISSIONER'S MEETING AGENDA\***  
*Thursday, April 8, 2021, 1:00pm*

**REMOTE PARTICIPATION ONLY**  
**OPEN PUBLIC FORUM**

For those members of the public wishing to make comment you may do so by a combination of email and phone by;

1. First, send an email to: **dpelletier@harwichwater.com**  
(Send emails at any time after the meeting agenda has been officially posted)
  - a. In the subject line enter "request to speak Jane Doe"
  - b. Replace Jane Doe with your name - No need to add any more detail to email
2. Please wait until the Chairman has opened this agenda item for Open Public Forum
3. **Join from your computer:** <https://global.gotomeeting.com/join/910148933>
4. **Or by phone, dial:** [+1 \(571\) 317-3122](tel:+15713173122)
5. **Enter Access Code:** 910-148-933
6. Please be patient and eliminate any background noise
7. Callers will be taken in the order the emails are received
8. When your name is called use \*6 to unmute yourself

I. CALL TO ORDER

II. CONSENT AGENDA

A. Minutes

1. March 19, 2021

III. ABATEMENTS

- A. 25 Old Carriage Dr
- B. 53 Neel Rd
- C. FY21 Q3 Water Department Usage
- D. FY21 Q3 Internal Adjustments

IV. OLD/UNFINISHED BUSINESS

- A. Water Rules & Regulations
- B. Irrigation/Sewer Deduct Meter Policy

V. NEW BUSINESS

- A. FY21 Q3 Water Budget Report & Commitment - *Update*
- B. FY21 Q3 Wastewater Budget Report – *Update*
- C. Waterworks Materials Bid – *Vote to Award*

VI. SUPERINTENDENT'S REPORT

- A. Annual Statistical Report
- B. Consumer Confidence Report

VII. COMMISSIONER'S REPORT

VIII. CORRESPONDENCE/ANY OTHER BUSINESS

IX. NEXT MEETING: TBD

X. OPEN PUBLIC FORUM

A. See dial in instructions above

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](mailto:customerservice@harwichwater.com)*

Authorized Posting Officer:

Tracey Alves

Tracey Alves, Board Secretary

Posted By: \_\_\_\_\_

Town Clerk

Date: \_\_\_\_\_

### III. ABATEMENTS

- A. 25 Old Carriage Ln
- B. 53 Neel Rd
- C. FY21 Q3 Water Department Usage
- D. FY21 Q3 Internal Adjustments

*Customer Service*

*H.W. . COM*



# HARWICH WATER DEPARTMENT

[Contact Us](#)

Enter Search...

GO

- Home
- About Us
- Customer Service
- News & Events
- Water Quality
- Water Protection
- Water Conservation

home >> customer service >> paying your water bill >> abatement application

Address Change

Please enter a value for "Location and Description of Property"

Contact Us

Please enter a number for "Total Amount Assessed"

Civic Ready Notification

Please enter a number for "Total Amount Requested"

Find It Fast

Please enter a number for "If request is for a late fee, what is the requested amount?"

Forms

Please enter a value that is no longer than 250 characters

Paying Your Water Bill

Please enter a value for "AGREE?"

Pay Now online

## Abatement Application

Water Rates

Name of Applicant\*

Bill Payment Options

Mailing Address\*

Bill Schedule

City/Town\*

Bill Assistance

State\*

Abatement Application

Zip/Postal Code\*

Pay by Phone 844-953-0665

Phone Number\*

Report a Violation

Mobile Phone Number

Email Address\*

Services Offered

The above named person, aggrieved by a Water Use Charge, hereby applies for an abatement

Service Tight Protection Plan

Date of Water Use Charge\*

Wastewater Plans for Phase 2

Name of Person Assessed (Owner)\*

Location and Description of Property\*

<--- Please enter a value for "Location and Description of Property"

Total Amount Assessed\*

<--- Please enter a number for "Total Amount Assessed"

Total Amount Requested\*

<--- Please enter a number for "Total Amount Requested"

If request is for Water Usage, what is the requested amount?

If request is for a late fee, what is the requested amount?

<---

Please enter a number for "If request is for a late fee, what is the requested amount?"

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

Reason For Abatement Request\*

My understanding was that having been granted the right to spread heavy payment over three months before it would be allowed again. It was so done and note that all other payments were on time. I therefore ask for rebate and in the future I shall requ

<--- Please enter a value that is no longer than 250 characters

SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY\*

Accounts

Account: 09257

-- 25 OLD CARRIAGE DR            ## ONE TIME LATE FORGIVENESS 2-6-18

3/23/21 CALLED OWNER TO RELAY THAT BOWWC WILL REVIEW AT THEIR MEETING ON 4/8 AT 1PM AND WE WOULD CONTACT HIM AFTER RE: THEIR DECISION.

3/16/21 OWNER CALLED RE: \$25 LATE FEE. HE DIDNT REALIZE THAT THE PAY PLAN WE DREW UP AND EMAILED TO HIM IN OCTOBER REQUIRED A SIGNATURE PAGE BE RETURNED TO HWD. HE THOUGHT HE WAS AUTOMATICALLY ACCEPTED. HE WILL FILE FOR AN ABATEMENT OF THE \$25 LATE FEE. TA

2/25/21 OWNER WILL FILE FOR AN ABATEMENT. HE DID NOT SIGN AND RETURN THE PLAN SO IT DID NOT GO INTO PLACE. WM

10/29/20 PAY PLAN REQUESTED AND EMAILED.

12/2/19 OWNER WOULD LIKE PAY PLAN FOR REMAINDER OF FALL BILL, \$160.

5/3/19 SENT POSTCARD RE: REMITTANCE WITH STAR TO SEND TO TOWN HALL. (BANK CHECK)  
11/27/18 PAYMENT SENT TO HWD. SENT EMAIL WITH MAIL INSTRUCTIONS. WM

2/6/18 PROVIDED ONE-TIME LATE FORGIVENESS. HE WILL CALL IN THE FUTURE IF A PAYMENT PLAN IS NEEDED. WM

10/15/15 PAY PLAN REQUESTED AND E-MAILED. TA

6/13/13 C/O METER AND INSTALLED RADIO. 1422060. ANNA

6/3/13 EMAILED CUSTOMER RE: METER. ANNA

2/7/13 LEFT MESSAGE RE: SENSUS METER.AB

DATE	CODE	READING	USAGE	AMOUNT	BALANCE
06/21/2005	1			57.00-	.00
05/12/2005	10	352000	19000	57.00	57.00
12/15/2004	1			539.00-	.00
11/16/2004	10	333000	163000	539.00	539.00
06/02/2004	1			51.75-	.00
05/11/2004	10	170000	16000	51.75	51.75
12/12/2003	1			261.50-	.00
11/13/2003	10	154000	89000	261.50	261.50
06/10/2003	1			25.00-	.00
05/19/2003	10	65000	6000	25.00	25.00
12/27/2002	1			86.20-	.00
11/22/2002	10	59000	48000	86.20	86.20
07/29/2002	1			25.00-	.00
06/28/2002	10	11000	11000	25.00	25.00
03/07/2002	2			700.00-	.00
03/07/2002	40			700.00	700.00



04/07/2021 11:28  
talves

TOWN OF HARWICH - LIVE DATA  
UB Consumption History Report

P 1  
ubcnsinq

Account Number	Customer # Name	Parcel	Location	Status
Service	Mfr Meter Number	Cd Read Date Time	Usage Repl Usage Charge Amt Billed Amt	Billed Amt
09257	308744	97/R2-12-R	25 OLD CARRIAGE DR	Active
1WATER-	1 WTR USAGE N 92929893	A 03/22/2021	403669 840,000 6,000 0 42.74	42.74
1WATER-	1 WTR USAGE N 92929893	A 12/21/2020	393216 834,000 5,000 0 41.45	41.45
1WATER-	1 WTR USAGE N 92929893	A 09/25/2020	382319 829,000 64,000 0 299.90	299.90
1WATER-	1 WTR USAGE N 92929893	A 06/19/2020	371891 765,000 23,000 0 95.47	95.47
1WATER-	1 WTR USAGE N 92929893	A 03/30/2020	361634 742,000 5,000 0 41.45	41.45
1WATER-	1 WTR USAGE N 92929893	A 01/06/2020	351319 737,000 7,000 0 44.03	44.03
1WATER-	1 WTR USAGE N 92929893	A 09/30/2019	340865 730,000 54,000 0 242.70	242.70
1WATER-	1 WTR USAGE N 92929893	A 06/21/2019	330497 676,000 17,000 0 71.77	71.77
1WATER-	1 WTR USAGE N 92929893	A 04/02/2019	319972 659,000 7,000 0 44.03	44.03
1WATER-	1 WTR USAGE N 92929893	A 12/28/2018	309632 652,000 5,000 0 41.45	41.45
1WATER-	1 WTR USAGE N 92929893	A 10/04/2018	299145 647,000 87,000 0 431.46	431.46
1WATER-	1 WTR USAGE N 92929893	A 06/27/2018	288795 560,000 16,000 0 32.82	32.82
1WATER-	1 WTR USAGE N 92929893	A 03/05/2018	278203 544,000 11,000 0 84.19	84.19
1WATER-	1 WTR USAGE N 92929893	A 09/05/2017	267416 533,000 75,000 0 315.70	315.70
1WATER-	1 WTR USAGE N 92929893	A 03/06/2017	256548 458,000 13,000 0 86.77	86.77
1WATER-	1 WTR USAGE N 92929893	A 09/06/2016	245752 445,000 119,000 0 567.38	567.38
1WATER-	1 WTR USAGE N 92929893	A 03/01/2016	234849 326,000 29,000 0 126.45	126.45
1WATER-	1 WTR USAGE N 92929893	A 08/31/2015	224210 297,000 102,000 0 470.14	470.14
1WATER-	1 WTR USAGE N 92929893	A 03/02/2015	213335 195,000 36,000 0 143.18	143.18
1WATER-	1 WTR USAGE N 92929893	A 08/25/2014	202692 159,000 77,000 0 307.80	307.80
1WATER-	1 WTR USAGE N 92929893	A 02/25/2014	192078 82,000 34,000 0 135.72	135.72
1WATER-	1 WTR USAGE N 92929893	A 08/26/2013	181522 48,000 48,000 11,000 228.97	228.97
1WATER-	1 WTR USAGE I 06/13/2013		0 1422,000 11,000 0 .00	.00
1WATER-	1 WTR USAGE S 57833712	A 03/25/2013	171147 1411,000 20,000 0 94.25	94.25
1WATER-	1 WTR USAGE S 57833712	A 09/24/2012	160589 1391,000 94,000 0 382.03	382.03
1WATER-	1 WTR USAGE S 57833712	A 03/27/2012	150033 1297,000 20,000 0 92.75	92.75
1WATER-	1 WTR USAGE S 57833712	A 09/19/2011	139500 1277,000 56,000 0 202.35	202.35
1WATER-	1 WTR USAGE S 57833712	A 04/25/2011	129278 1221,000 11,000 0 72.10	72.10
1WATER-	1 WTR USAGE S 57833712	A 11/02/2010	118850 1210,000 142,000 0 593.45	593.45
1WATER-	1 WTR USAGE S 57833712	A 04/27/2010	108497 1068,000 11,000 0 60.00	60.00
1WATER-	1 WTR USAGE S 57833712	A 10/27/2009	98371 1057,000 72,000 0 223.00	223.00
1WATER-	1 WTR USAGE S 57833712	A 04/30/2009	88138 985,000 15,000 0 60.00	60.00
1WATER-	1 WTR USAGE S 57833712	A 11/03/2008	78021 970,000 109,000 0 389.50	389.50
1WATER-	1 WTR USAGE S 57833712	A 05/05/2008	68234 861,000 9,000 0 50.00	50.00
1WATER-	1 WTR USAGE S 57833712	A 11/02/2007	58367 852,000 166,000 0 550.25	550.25
1WATER-	1 WTR USAGE S 57833712	A 05/08/2007	48591 686,000 10,000 0 50.00	50.00
1WATER-	1 WTR USAGE SA 13912968	A 10/31/2006	38769 676,000 117,000 0 366.50	366.50
1WATER-	1 WTR USAGE SA 13912968	A 05/03/2006	29051 559,000 16,000 0 51.75	51.75
1WATER-	1 WTR USAGE SA 13912968	A 11/08/2005	19414 543,000 191,000 0 644.00	644.00
1WATER-	1 WTR USAGE	A 05/12/2005	9257 352,000 19,000 0 57.00	57.00
1WATER-	1 WTR USAGE	A 11/16/2004	9091080 333,000 163,000 0 539.00	539.00
1WATER-	1 WTR USAGE	A 05/11/2004	9091079 170,000 16,000 0 51.75	51.75
1WATER-	1 WTR USAGE	A 11/13/2003	9091078 154,000 89,000 0 261.50	261.50
1WATER-	1 WTR USAGE	A 05/19/2003	9091077 65,000 6,000 0 25.00	25.00
1WATER-	1 WTR USAGE	A 11/22/2002	9091076 59,000 48,000 0 86.20	86.20
1WATER-	1 WTR USAGE	A 06/28/2002	9091075 11,000 11,000 0 25.00	25.00

\*\* END OF REPORT - Generated by Tracey \*\*

**Abatement: 53 Neel Rd**

**Form Name:** Abatement Application

**Date of Submission:** Fri, 02 Apr 2021 18:13:21 -0400

**Your server:** [www.harwichwater.com](http://www.harwichwater.com)

**IP address of person using form:** 208.87.236.201

**URL of page containing form:** <http://www.harwichwater.com/customer-service/billing-payments/abatement-application.html>

---

**Name of Applicant:** .....

**Mailing Address:** .....

**City/Town:** .....

**State:** .....

**Zip/Postal Code:** .....

**Phone Number:** .....

**Email Address:** .....

**Date of Water Use Charge:** 2 April 2021

**Name of Person Assessed (Owner):** .....

**Location and Description of Property:** 53 Neel Road

**Total Amount Assessed:** 1,772.74

**Total Amount Requested:** 1,000.00

**If request is for Water Usage, what is the requested amount?:** 1,000.00

**Reason For Abatement Request:** Hi. Wellsley brought this to my attention the other day, so thank you.

Background: Jane, my children and I rented this home for 2 weeks every year for 25 years. We were able to purchase from Phil Way stack in Nov 2018. We plan on retiring there in a

**SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY:** 2 April 2021

**AGREE?:** Checked

<b>OFFICE USE ONLY</b>	
<b>Board of Water/Wastewater Commissioners:</b>	
Meeting Date: _____	Approved <input type="checkbox"/> Amount: _____ Denied <input type="checkbox"/>
Signature(s):	Notes:
X	
X	
X	

Hi. Thank you for the opportunity to complete the "Reason for Abatement" section of the form.

Hi. Wellesley brought this to my attention the other day, so thank you Wellesley. Background: Jane, my children and I rented this home for 2 weeks every year for 25 years. We were able to purchase from Phil Waystack in Nov 2018. We plan on retiring there in a few years but until then can only enjoy it during the summer and some weeks/weekends in the off season (Jane is a teacher and only off in the summer). Our basement is approx 15 years old. It has concrete walls and floor. It is approx 15' x 8'. Jane and I were at our home on February 14. As always, I check the basement to ensure all is ok. One of the valves at the boiler failed. Even though there was approx 6" of water down there, I was able to turn off the main valve quickly. I caught the leak in time, at least I thought I did. The boiler and the hot water heater were not ruined and didn't even need repair (they are approx 6" off the floor). We had our plumber, Scott Andreasson, come over in less than 1/2 hour and fixed the issue. I'm sure the meter is working fine, I'm just confused about where 266,000 gallon of water may have gone. Everything else seems in order. We have 3 brand new toilets, no apparent other leaks and we put in a well for irrigation approx 2 years ago. I think of myself as a conservationist, the thought of wasting water makes me mad. Jane and I would appreciate any abatement amount that you might consider. The total water bill was \$1,455.34. I inadvertently put \$1,772.74 on the form (that is my current tax bill amount).

Thank you for the consideration.

Sincerely,





04/07/2021 11:26  
talves

TOWN OF HARWICH - LIVE DATA  
UB Consumption History Report

P 1  
ubcnsinq

Account Number Service	Customer # Name Mfr Meter Number	Cd	Read Date Time	Parcel By	Bill #	Curr Read	Location Usage Repl Usage	Charge Amt	Status Billed Amt
00842	107974 (			16/N1-42-R			53 NEEL RD		Active
1WATER-	1 WTR USAGE N 41551536	A	03/22/2021		395282	766,000	266,000	0	1,455.34 1,455.34
1WATER-	1 WTR USAGE N 41551536	A	12/21/2020		384829	500,000	6,000	0	42.74 42.74
1WATER-	1 WTR USAGE N 41551536	A	09/24/2020		373931	494,000	23,000	0	95.47 95.47
1WATER-	1 WTR USAGE N 41551536	A	06/19/2020		363505	471,000	0	0	35.00 35.00
1WATER-	1 WTR USAGE N 41551536	A	03/30/2020		353248	471,000	1,000	0	36.29 36.29
1WATER-	1 WTR USAGE N 41551536	A	01/03/2020		342935	470,000	1,000	0	36.29 36.29
1WATER-	1 WTR USAGE N 41551536	A	09/30/2019		332478	469,000	15,000	0	63.87 113.87
1WATER-	1 WTR USAGE N 41551536	A	06/21/2019		322109	454,000	3,000	0	38.87 38.87
1WATER-	1 WTR USAGE N 41551536	A	04/01/2019		311583	451,000	0	0	35.00 85.00
1WATER-	1 WTR USAGE N 41551536	A	12/28/2018		301243	451,000	0	0	35.00 35.00

\*\* END OF REPORT - Generated by Tracey \*\*

## Accounts

Account: 00842

53 NEEL RD.

4/5/21 ABATEMENT REQUEST RECEIVED. RESPONSE SENT THAT BOWWC WILL REVIEW ON 4/8 AT 1PM

3/29/21 OWNER CALLED IN READ OF 766,200 CONFIRMING OUR READ. HE WAS TOLD ABOUT METER TESTING, ABATEMENT, AND PAYMENT PLANS OPTIONS. WM  
3/26/21 HIGH USE OF 266,000 GALLONS (READ OF 766,000). LEFT COURTESY MESSAGE AND SENT EMAIL. WM / OWNER HAD A FLOOD OF ABOUT 6 INCHES IN HIS BASEMENT BUT HE THOUGHT IT WAS ONLY LEAKING FOR ABOUT AN HOUR. HE WILL CHECK THE READ TOMORROW AND CALL US ON MONDAY. WM

1/16/20 OWNER WILL NOT BE SHUTTING WATER OFF THIS YEAR. REMOVED AS SEASONAL AND WILL CREDIT ACCT. WM

1/15/20 MADE SEASONAL COURTESY CALL. LEFT MESSAGE & SENT EMAIL. WM

4/1/19 will have the service box raise to grade / SERVICE BOX RAISED TO GRADE.  
3/25/19 IRRIGATION TECH (PETER 802-258-7203) CALLED TO ASK WHEN THE GATE BOX WOULD BE REPLACED/RAISED TO GRADE? SENT EMAIL TO SH. WM  
3/20/19 IRRIGATION TECH CALLED TO REPORT WATER LINE NEAR SURFACE? DISPATCHED SH. WM

3/18/19 Oip :0451000

3/11/19 TURN ON REQUEST. TA

11/27/18 OFF. 0451440

11/19/18 Seasonal turn off request from Philip Waystack./ New owners will call us in spring to schedule turning on service.  
11/16/18 L/M FOR OWNER TO SEE IF HE WILL BE HAVING WATER SHUT OFF FOR SEASON OR IF SEASONAL CHARGE SHOULD BE REMOVED FROM ACCOUNT PRIOR TO SENDING FINAL BILL.  
11/16/18 final read 045100  
11/15/18 final read request. ta  
4/11/18 Oip:0431840  
4/3/18 ON REQUESTED BY OWNER FOR ANYTIME. WM

12/19/17 Oip:0431830

12/18/17 TURN OFF REQUEST. TA

11/21/17 Renewed service from main to curb stop.

4/14/17 Oip:0418740

4/13/17 TURN ON PER SCOTT'S PLUMBING. TA

11/10/16 041874 o off

11/9/16 TURN OFF PER SCOTT'S. TA

3/30/16 040143 o on

3/23/16 TURN ON PER SCOTT'S BY 4/8/16. TA

11/16/15 OFF 040143 o

11/12/15 TURN OFF ASAP PER SCOTT'S. TA

5/6/15 ON 38467. TA

4/24/15 TURN ON REQUEST PER SCOTT'S. TA

11/6/14 OFF 38467. TA

10/31/14 TURN OFF PER SCOTT'S ASAP. TA

3/24/14 ON 363100. TA

3/24/14 TURN ON PER SCOTT'S BEFORE 4/8. TA

11/18/13 OFF 0363110 TA

11/15/13 SEASONAL OFF REQUESTED BY SCOTT'S PLUMBING FOR ANYTIME. WM

4/4/13 ON/SEASONAL

3/18/13 SEASONAL ON REQUESTED BY SCOTT'S PLUMBING BY 4/15.AB

11/30/12 OFF/SEASONAL 0343150

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

TOWN OF HARWICH  
WATER DEPARTMENT  
APPLICATION FOR ABATEMENT

RECEIVED: 4/5/2021  
ACCOUNT: VARIOUS

To the Board of Water Commissioners:

NAME OF APPLICANT: HARWICH WATER DEPARTMENT hereby applies for abatement.

PROPERTY OWNER: HARWICH WATER DEPARTMENT

PROPERTY LOCATION: VARIOUS

EMAIL ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_ MOBILE: \_\_\_\_\_

TOTAL BILL AMOUNT: \$2,008.55 WATER BILL #: SEE ATTACHED

AMOUNT REQUESTED: \$2,008.55

REASON FOR ABATEMENT REQUEST (attach additional sheet if necessary)

**QUARTERLY DEPARTMENT WATER BILL ABATEMENTS**

SIGNATURE OF APPLICANT:  DATE: April 5, 2021

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**

Account	Invoice #	Balance
9733	404144	\$322.78

Account	Invoice #	Balance
150	394592	\$37.58

Account	Invoice #	Balance
349	394790	\$36.29

Account	Invoice #	Balance
2949	397383	\$37.58

Account	Invoice #	Balance
8003	402420	\$38.87

Account	Invoice #	Balance
9725	404137	\$35.00

Account	Invoice #	Balance
9726	404138	\$35.00

Account	Invoice #	Balance
9727	404139	\$391.42

Account	Invoice #	Balance
9728	404140	\$36.29

Account	Invoice #	Balance
9730	404141	\$374.26

Account	Invoice #	Balance
9731	404142	\$35.00

Account	Invoice #	Balance
9732	404143	\$53.27

Account	Invoice #	Balance
9734	404145	\$196.94

Account	Invoice #	Balance
9735	404146	\$35.00

Account	Invoice #	Balance
9740	404151	\$35.00

Account	Invoice #	Balance
8337	402752	\$35.00

Account	Invoice #	Balance
9981	404391	\$36.29

Account	Invoice #	Balance
10204	404600	\$236.98

**Total**      **\$2,008.55**



#### IV. OLD/UNFINISHED BUSINESS

A. Water Rules & Regulations

B. Irrigation/Sewer Deduct Meter Policy

# WATER RULES & REGULATIONS

Please note the following:

1. Previously approved changes have been incorporated into the following pages.
2. Page 12, Section 4: Meters, Item 4.13 is the new and proposed Irrigation/Sewer Deduct Meter for your review.
3. Page 21, Section 9: Irrigation Systems, Item 9.3, is a reference to the Irrigation/Sewer Deduct Meter section.
4. Appendix A. Schedule of Rates and Fees contains only proposed water and sewer rates. Review of fees and related recommendation is anticipated at a future meeting.



Harwich Water Department

# Water Rules & Regulations

Board of Water & Wastewater Commission

Adopted July 1, 2021 TBD



## Introduction

Under authority of the General Laws, Acts of the State Legislature of the Commonwealth of Massachusetts, the following rules and regulations are hereby established by the Town of Harwich in the county of Barnstable, and hereby made and shall be considered a part of the contract between the Harwich Water Department and every person or persons liable for water charges or other charges subject to our jurisdiction, and the filing of an application to take water, or the taking of water, shall be considered express assent to be bound by these rules and regulations and any other changes which may hereinafter be made.

By the virtue of Massachusetts General Law Chapter 41 and other authority and powers, the Water/Wastewater Commissioners of the Town of Harwich, Massachusetts establish the following Rules and Regulations relating to the provision of water by the Harwich Water Department. All customers on the Harwich Water System are bound by these Rules and Regulations and future amendments thereto and are further bound to take water only for purposes stated in an application made by the customer for water service, made to and approved by the Harwich Water Department.

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## SECTION 1: Definitions

- 1.1 **Backflow** – The flow of water or other fluids, mixtures or substances into the distribution pipes of a potable water source.
- 1.2 **Backflow Prevention Device** – An approved mechanical device designed to prevent Backflow.
- 1.3 **Corporation Stop** – A shut off valve near the main that is used to isolate water from the main from the service connection.
- 1.4 **Cross Connection** – An actual or potential connection between a distribution pipe of potable water supplied by the public water system and any waste pipe, soil pipe, sewer, drain or any other contaminated or hazardous source. Without limiting the generality of the foregoing, the term "cross connection" shall also include any bypass arrangement, jumper connection, removal section, swivel or changeover connection and any other temporary or permanent connection through which Backflow can or may occur.
- 1.5 **Contractors and Developers** – Contractors and Developers shall mean an individual, firm, corporation or any entity who installs water mains and their appurtenances.
- 1.6 **Curb Stop** – Part of the water service, usually located at or near the owner's property line, where the Town has complete access and control to shut off the water supply to the premises.
- 1.7 **Customer** – The term "customer" shall mean the individual, firm, corporation or any entity listed as the owner of the property. Customer shall mean the Owner of the Premise / Property, who shall be responsible for payment of bills for charges for water and sewer service to the property whether or not the premises is occupied by the Owner or the Owner's authorized representative.
- 1.7 **Department** – "Department" shall mean the Town of Harwich Water Department.
- 1.8 **Irrigation/Sewer Deduct Meter** – Meter used for the purpose of determining water use for lawn sprinklers or other approved process use that are either owned and maintained by the Water Department or the Owner of the Property.
- 1.9 **Main** – A "main" shall mean the supply pipe laid in the street from which property connections are made. The Department shall consider part of the main to include from the corporation stop to the street side of the curb stop.
- 1.10 **Meter Pit** – An underground vault enclosing a meter.
- 1.11 **Service** – A "service" shall mean the pipe running from the curb stop and a curb box into property. Customer Water Service shall be defined as the entire water service excluding any corporation stop and/or valves directly associated with the water main. The Customer will be assessed for any repairs, replacements, or other services rendered to the Customer Water Service.
- 1.12 **Superintendent** – "Superintendent" shall mean the Superintendent of the Water Department or the Superintendent's designee.

### Additional Definitions

Additional definitions as applicable are adopted as set forth in Massachusetts Universal State Plumbing Code, 248 CMR and in the Massachusetts Board of Fire Prevention Regulations, 527 CMR.

## SECTION 2: General Provisions

### 2.1 Contractual Agreement

Acceptance of service shall bind the customer to the laws, rules, regulations and policies of the Commonwealth of Massachusetts, the Town of Harwich and the Harwich Water Department, and shall form a part of the contract with every customer and shall be adhered to and govern the relations between the Department and the customer who is connected to the municipal water system and is bound hereby.

### 2.2 Application for Water Service

All applications for any new installations, alterations, replacements or change to water service shall be submitted for approval to the Superintendent or Superintendent's designee to the water office by the owner of the property or their authorized agent in writing. All applications shall include an engineered plan stamped by the Board of Health locating the septic system on the property. A building permit must be acquired before a service tap can be furnished.

### 2.3 Ownership Responsibilities & Liability

All pipes, valves, taps and other appurtenances between the municipal water main and the curb stop up to the property line are the property and responsibility of the Department. All piping, valves, equipment and any other appurtenances "downstream" of the curb stop are the property and responsibility of the customer although such items are required to meet the standards and specifications of the Department. An exception to the above is the primary water meter, which will always be the property of the Department.

### 2.4 Responsibility for Charges

Customers of water shall be charged with and held responsible for all water passing through their water meter. All charges remain with the account until paid regardless of sale.

### 2.5 Availability of Municipal Water

Application will be accepted for review subject to there being an existing municipal water main in a street or right-of-way abutting the premises to be served, but approval of an application shall in no way obligate the Department to extend its mains to provide water to a property.

### 2.6 Location, Plans and Specifications

The Department has the exclusive right as to the location of any and all water services, fire service lines, hydrants and water meters on the distribution system. Plans for said construction and or replacement shall be submitted with the application showing the curb box connection, the service line to the structure and the meter location. In the event that more than one meter is serviced by one service line, there will be a manifold used to provide a separate meter hookup for each designation. This must be provided on each preliminary plan before final approval is given. Any service line over 100' must have a meter pit closest to the curb stop or property line before their meter installation is approved.

**2.7 Construction**

Owner of property desiring construction, alterations or attachments connected with the water supply shall submit plans and specifications for the proposed work to the Superintendent for inspection and approval and for a determination as to whether the same is permissible. The Superintendent shall determine the terms, charges and conditions under which the proposed use shall be permitted.

**2.8 Private Wells**

All private wells used for irrigation shall not be connected to the Harwich water system or domestic plumbing at any time. Should any violation be noted, the Department reserves the right to shut the water off until the situation is resolved and all fees have been paid.

**2.9 Right of Entry**

Owner or occupants of any premises served by the Harwich water system shall, upon presentation by Department personnel of their credentials, authorize entry to their premises without a warrant for the purpose of inspecting and surveying their water system for new installation, cross connection, leak detection or to remove, repair, read or replace the water meter at any time the department deems necessary. When such access is refused, the water shall be shut off and shall not be turned on until such access has been allowed and fees have been paid.

**2.10 Fires**

In the event of a large fire all customers shall curtail the use of water in the affected area.

**2.11 Conditions under Which Service is Furnished**

The Town does not guarantee constant pressure or uninterrupted service, nor does it assure the customer either a full volume of water or the required pressure necessary to effectively operate hydraulic elevators, sprinkler systems or other appliances, the same being subject to all the variable conditions that occur in the supply of water from the Town's water system.

**2.12 No Liability for Interruption of Service**

No customer shall be entitled to damages or to have payment refunded for any interruption of supply, occasioned by accident to any portion of the works, by shutting off for the purpose of additions or repairs to the works or by the stoppage or shortage of supply due to causes beyond the control of the Department, such as excessive drought, excessive use of and waste of water by customers or by leaks or defects in the pipes or appliances owned by customer or other customers.

**2.13 No Liability for Dirty Water**

The Town shall not be responsible for damages caused by dirty water resulting from opening or closing of any gate, use of any hydrant, the breaking of any pipe, or maintenance of the water system.

**2.14 No Liability for Customer's Pipes**

The Town assumes no liability for conditions, which exist in customer's pipes and cause trouble coincident with or following the repairs of any main, service pipe, meter or other appliances belonging to the Department.

**2.15 No Liability for Collapsed Boilers, Etc.**

The Department reserves the right at any time and without notice to shut off the water in mains for the purposes of making repairs, extensions or for other necessary purposes. Customers having

boilers or other appliances on their premises depending on the pressure in pipes to keep them supplied with water are hereby CAUTIONED against danger from these sources and are required to provide, at their own expense, suitable safety appliances to protect themselves against such danger as per Massachusetts Drinking Water Regulations 310 CMR 22.22. In any event, it is expressly stipulated that the Department will not be liable for any damage resulting from water having been shut off either through accident or necessity.

**2.16 No Liability for Shutting Off Water without Notice**

When it becomes necessary to shut off the water from any section of the Town because of an accident or for the purpose of making changes or repairs, the Department shall endeavor to give timely notice to as many customers affected thereby as time and the character of the repairs or the accident will permit and shall, so far as practical, use its best efforts to prevent inconvenience and damage arising from any such cause. However, failure to give such notice shall not render the Department responsible or liable for any damages that may result from the shutting off of the water or any coincident conditions.

**2.17 Restriction of Water Use**

The Department reserves the right in periods of declared drought or emergencies or when, by Declaration of a State of Water Emergency under Massachusetts General Laws Chapter 21G are deemed essential to the protection of the public health, safety and welfare, to restrict water supply for secondary or non-essential purposes such as watering of lawns and gardens (either by hand or sprinkler) and vehicle washing (EXCEPT for sanitary purposes such as rubbish trucks). The Department shall have the right to fix the hours and periods when water may be used for such purposes. Any such restrictions will be promulgated by means of Special Water Regulations or By-Laws adopted by the Harwich Board of Water/Wastewater Commissioners. During this time the filling of swimming pools, hydro seeding, soaker hoses and power washing are strictly prohibited.

**2.18 Easements**

In any case where an existing municipal water main or appurtenances are located on private property and a recorded easement does not exist, an implied easement is deemed to exist with the same force and effect as a recorded one.

**2.19 Liability for Freeze Ups**

It is the responsibility of all water service customers to ensure that all plumbing, fixtures, meters and appliances are protected from freezing. The customer shall make any repairs, which may be necessary to prevent leaks and damage. Neither the Town nor the Department shall be held responsible for loss or damage to any plumbing, fixtures, meters or appliances due to freezing and any repairs to same made by the Department shall be paid for by the customer.

## SECTION 3: Charges

**3.1 Establishment of Rates**

Rates chargeable for water and payable by the customer shall be determined by the Harwich Board of Water/Wastewater Commissioners as instructed under Massachusetts General Laws Chapter 41 § 69B.

**3.2 Bills Payable**

Bills for water service are due and payable upon issuance of the bill. The failure of the customer or his/her agent to receive notice of their water bill or other related charges does not relieve them



from the obligation for payment or from the consequences of nonpayment. All charges are due and payable upon issuance of billing and are past due THIRTY (30) DAYS after the date of the billing. The records of water supplied in the Department shall be sufficient basis for billing and to commence action for nonpayment against present and or consequent owners of record.

### **3.3 Overdue Charges**

Any overdue charge including late fees or interest charges may be collected by any legal means, including a lien on the property or shutting off the water service as an action of contract as provided under the provisions of Massachusetts General Laws Chapter 40 § 42A-42F.

### **3.4 Payment Plans**

If a payment plan is requested, the account must not be in arrears by more than two billing periods. If a payment plan is requested after the original billing due date, a late penalty will be assessed to the account. If the terms of the payment plan agreement are not kept, the plan becomes void.

### **3.5 Shut-Off for Non-Payment**

The Water Department may shut off the flow of water to a property if the water customer has failed or refused to pay the lawful charges associated with the account. A water shut-off notice will be issued by means of a notice card left at the property and or by certified postal mail directed to the last address furnished to the department giving at least 36 business hours' notice as required by law. If the full balance is not paid within the 36 business hours, the water service may be terminated by department personnel between the hours of eight anti meridian and four post meridian, Monday through Friday. After the service has been shut off, the account will be assessed a reconnection fee to have the water reinstated and any associated administrative costs.

The balance must be paid in full before the water service can be reinstated. If the turn on is requested after regular operating hours, the after-hours rate will be assessed and the balance is to be paid no later than the next business day. If the water cannot be turned off due to special circumstances, a lien will be placed against the property. The property owner or tenant may at any time appear before the Board of Water/Wastewater Commissioners. The property owner may also appeal a Board's decision to the Appellate Tax Board within three months of the date hereof pursuant to the provisions of G. L. c. 59, §§ 64 to 65B, inclusive.

### **3.6 Collection of Miscellaneous Water Charges**

All department services and materials rendered at a property shall be subject to the same conditions as charges for water.

### **3.7 Delinquent Accounts**

No person who owes an overdue bill shall be entitled to further use of water or services at the same or any other premises until such charges are paid in full, together with any associated fees.

### **3.8 Claims for Adjustments on Bills**

All claims for adjustments of water bills shall be made within thirty (30) days of the billing due date. Abatements will be made for clerical errors, misreads or failure of Department equipment. Abatements will not be issued for water leaks or high consumption, unless otherwise determined by the Board of Water/Wastewater Commissioners.

When determining abatements for domestic water leaks (excluding irrigation leaks), usage from three similar usage quarters can be averaged and any usage above may be considered for adjustment at the first-tier rate as a one-time disaster forgiveness occurrence.

**3.9 All Water to be Metered and to be Paid**

All water must be metered and paid for whether used or wasted. A minimum charge shall be assessed for water service from the date the water is connected to the town water supply, unless otherwise determined by the Board of Water/Wastewater Commissioners.

**3.10 Leaks**

The Department shall have the right to shut off water supplied to any property where a leak exists or is believed to exist. Any such leaks must be repaired and must pass inspection by the Department before water will be restored. In addition, each customer shall be responsible for the cost of any repairs to any private portions of the water system as well as the cost of water.

**3.11 Service Tap Renewals or Replacements**

In the event a new service tap is required or requested it shall be considered a service renewal using the existing main tap. If a new main tap is needed, applicable charges will apply.

## SECTION 4: Meters

**4.1 Meter Installation**

A shut-off valve at the meter inlet shall be the first fitting inside of a serviced building and shall be installed by the Department. A ball valve as the first fitting "downstream" of the meter shall be installed at the expense of the customer. The meter shall be located in a clean, dry, warm and accessible location. A certified Plumber must complete any connection past the meter. Any service line over 100' must have a meter pit closest to the curb stop or property line before their meter installation is approved.

The appropriate size, type and location of the meter shall be determined and approved by the Department and based on the AWWA Manual Sections M22 and M6 or as amended. All meters will be remote read as required by the Department. Any meter larger than 2" must be a compound meter. Meter and installation are at the expense of the owner. Routine meter maintenance shall be provided by Department.

**4.2 Customers to Pay for Meter Repairs**

Meter repair or replacements due to damage caused by accident or negligence shall be charged to the customer.

**4.3 Meters Purchased from Department**

All water meters must be purchased from the Department. Only these meters may be used on its water system.

**4.4 Meter Removal**

Water meters shall not be removed from the water system by anyone other than Department personnel. Once a meter has been removed, it is the responsibility of the owner to maintain custody of the water meter at the property. Violation of this rule shall be considered meter tampering and be subject to applicable fines.

#### **4.5 Meter Pits**

Installation of meter pits shall be at the customer's expense. When it is necessary or expedient to locate the meter in an underground box or vault approved by the Department, the customer shall bear the expense of same and shall bear the responsibility of reasonable care and maintenance of said box or vault such as keeping it clean and dry. The customer shall not be permitted to cover the pit or in any way hinder access to the water meter. Meter pit covers must remain exposed at all times. Pits shall be furnished with inlet and outlet connections that accept a variety of Mueller underground service connection fittings that meet requirements of the latest revised AWWA Standard C800-89. For the purpose of standardization, the meter pit shall be Mueller with specifications determined by the Superintendent or Superintendent's designee.

#### **4.6 Meter Tampering**

A penalty or charge will be levied for each incident of tampering, installation alteration, and removal of a water meter by anyone not authorized by the Department. In addition, the Department reserves the right to pursue further prosecution in accordance with Massachusetts General Law Chapter 165 § 11.

#### **4.7 Water Department's Right to Change Meters**

If, in the opinion of the Superintendent, a meter does not fit the conditions of the service installation, the Department has the right to change such meter. Such a change shall be made in accordance with current regulations and paid by the customer.

#### **4.8 When Meter is Out of Order**

If a meter fails to register, the customer shall be charged based on the best available information concerning water use.

#### **4.9 Repairing Meters**

The Department shall have the right to remove, repair or replace any meter at any time it so determines.

#### **4.10 Access to the Meter**

It shall be the duty of all customers to ensure that meters on service connections be readily accessible at all times to Department personnel. Failure to provide access or remove any obstruction which prevents access to the meter within three days after being notified by the department shall cause the water to be shut off to the premises and it shall not be turned on until all obstructions are removed, all regulations complied with, and all expenses for shutting off and turning on the water are paid.

#### **4.11 Residential Meter Testing vs. Testing Meters by Request**

If during any dispute where a water meter reading is being contested, a customer may request to have the meter sent to a certified testing facility at the owner's expense. Should the Department request to have the meter tested, it will be at the Department's expense. If as a result of the test the meter is found to register over two (2) percent more water than actually passes through it, the meter shall be replaced. At that time, they may receive abatement. Their bill will also be adjusted in accordance with the result of this test.

However, if it appears that the customer was charged or has paid for less water than they should have been charged or should have paid, they shall, forthwith, be charged with the proper additional amount and shall pay the same together with the expense of the examination and test

to the Department. If the Department chooses to change a meter at any time, it is not an admission that there is something wrong with the present meter.

#### **4.12 Commercial/Industrial Meter Testing**

The Superintendent can require that a large commercial or industrial meter be tested if there is reason to believe that said meter is not registering water accurately. Based on AWWA Standard C700, all meters shall be tested by agents or representatives of the Department.

Commercial/Industrial Meter Testing will be done at the expense of Department. If Superintendent requires such testing, the owner will be notified via certified mail. The owner will have 10 business days from receipt of letter to notify the Water Department of what action has been taken for the repair or replacement of the meter and 20 business days to have the actual repair or replacement completed. Failure to respond to the first notice will result in a second notice informing the owner that if in 10 business days they have not responded, the water service to the building will be shut off. The billing will be based on the highest quarterly usage out of the last four billing cycles.

#### **4.13 Irrigation/Sewer Deduct Meter**

Properties served by the Towns wastewater collections system may install, at the owner's expense, a second meter to monitor outdoor usage. Properties electing install an irrigation/sewer deduct meter will have two (2) water meters, one meter will register all water entering the property and the second meter capturing only outdoor usage not contributing flow to the municipal sewer system. Outdoor usage captured by the second meter will NOT be subject to sewer usage fees. Irrigation/Sewer Deduct meters shall be installed in accordance with the Department Irrigation/Sewer Deduct Meter Policy.

### **SECTION 5: Service, Pipes and Fixtures**

#### **5.1 Service Pipes**

Customers must keep their water pipes and fixtures in good repair and protected from freezing temperatures at their own expense. They shall be held responsible for any damage resulting from their failure to do so. They shall prevent any waste of water.

#### **5.2 Joint Use of Pipes or Trenches**

Water service pipes will NOT under any circumstances be placed in the same trench with other pipes, conduits or similar structures such as gas lines, electrical conduit, sewer pipe, etc.

#### **5.3 Portion of Service Pipe Furnished by Water Department**

New service connections shall be made by the Department and brought to the meter. The Customer shall be charged the current rate for tapping and connection fees.

#### **5.4 Right to Repair and Replace Service Pipes**

The pipe from the property line to the meter is the responsibility of the customer and all the repairs to the same shall be made at customer's expense unless covered by the Service Tight Protection plan. All service pipes between the street line and the meter must be repaired or replaced by the Department when it deems it necessary for the protection of the supply or the supplying of satisfactory water service. The cost shall be charged to the customer. The Department also reserves the right to assess the condition of "owner responsibility" service

pipng, valves, etc. on a periodic basis in order to determine the functional and physical adequacy of the stated appurtenance and, if such is determined to be inadequate, the Water Superintendent may order the owner to replace such at the owner's expense. Failure to take corrective actions as prescribed by the Superintendent will be cause for termination of water service to those premises. In addition, each customer of water furnished by the Department shall be responsible in case of a break or a leak in the service pipe for both water loss and cost of repairs. Costs will be actual or estimated as determined by the Department.

**5.5 Temporary Service from Adjacent Premises**

When permission to open a permanently paved street is refused by the Highway Department or when, for any physical reason, it is impossible to open a street and the applicant requests that water be furnished temporarily from an adjacent service, the same may be done at the expense of the customer if approved by the Superintendent.

**5.6 Materials on Private Premises**

All fittings supplied by the Department to the customer shall be billed to the customer.

**5.7 Irregular Service**

Services that are not used for permanent and or habitable structures must be approved by the Department before any use is allowed.

**5.8 One Service to Each Unit**

The Department will only allow one (1) service connection per unit. A meter shall be placed in each individual unit located in a building. This includes all commercial or industrial buildings, new Condos and Town Houses.

**5.9 Requests for Turning On or Shutting Off Water**

Requests for turning on or shutting off a water service for repairs shall be made during normal business hours, except in case of an emergency. Customers shall be charged for turn on and turn off of each such service. Only Department personnel shall open and or close curb stops. Should the customer require after hour turn on or turn off, they shall be billed at the overtime rate. The Department shall not be held responsible for or perform any work downstream of meter.

**5.10 Seasonal Service**

All seasonal service requests for water turn on or shut off will require a two-week window for completion (the two-week window begins in advance of water turn on request date and for shut off requests, the two-week window begins after the property has been drained) and will be done between the hours of 7:00 a.m. and 3:30 p.m., Monday through Friday except for emergencies. All prior bills, charges, fees and liens must be paid in full prior to service being activated. If a seasonal customer fails to schedule their 2-week notice and wishes to pay the out of rotation fee, they shall be billed at the overtime rate. See applicable Rates and Fees. The owner shall be responsible for having the service properly winterized prior to scheduling the water to be shut off by the Department.

**5.11 No Pipes Furnished in Winter**

No new water mains shall be installed from November 15<sup>th</sup> through March 15<sup>th</sup> unless weather permits. The only other exception allowed are circumstances deemed an emergency. Applications must be received by November 1<sup>st</sup> for installation by November 15<sup>th</sup>. Installation of services beyond the end of an existing water main shall not be allowed. The main must be extended

(including necessary hydrants and appurtenances) to the furthest limit of the customer's property at their expense. Water mains shall be looped when required by the Superintendent.

**5.12 Service Pipe Trenches**

Service pipes shall not be placed within 10 feet of any other utilities, except under special conditions and with the approval of the Superintendent. The Department shall not be responsible for damage to other utilities laid within 10 feet of a water service or water main.

**5.13 Standby Fire Protection**

Customers desiring standby fire protection must submit a water service application to the Department. The Department shall furnish water for a fire protection service in accordance with the specifications for that sprinkler system. All equipment for this purpose shall be installed entirely at the expense of the customer and with the approval of the Superintendent. Such pipes shall not be used for supplying water for any other purpose than the fire system. The fire system must be arranged so that Department personnel can make easy inspection. Whenever it is considered necessary for the protection of the water supply and in the interest of the Town, the Superintendent shall have the right to require the installation of meters, alarms, backflow devices or other accessories. The installation and upkeep of such equipment shall be done so at the customer's expense. All installations and testing must be completed in accordance with Massachusetts General Laws.

**5.14 Water Supply Availability**

The Department shall make the determination as to the availability of adequate water supply for such services. The Department shall not bear responsibility to extend existing water mains in order to provide adequate water supply for such service. No fire service connection shall be less than a six (6) inch diameter and shall not be used for anything other than fire protection.

No water shall be taken or used through private fire systems for the purpose of testing unless the Superintendent issues written permission. Such test must be conducted under the supervision of the Department.

**5.15 No Right to Furnish Water to Others**

A customer shall not be permitted to supply the premises of another person with water, except in special emergencies and then only with the approval of the Superintendent.

**5.16 Use of Fire Hydrants**

The use of all fire hydrants is restricted to employees of the Water Department or by persons given specific authorization by the Water Department. During emergencies members of the Fire Department of the Town of Harwich and or other towns lending mutual aid are authorized to operate fire hydrants. In the event that a hydrant is to be used for any other purpose, the Department must be notified and a hydrant meter installed. If the hydrant meter is needed longer than a 24-hour period during frigid weather, the Superintendent or his/her acting agent may require the removal and reinstallation of the meter in order to protect it from freezing. All labor and usage charges incurred from the use of the hydrant, are the responsibility of the requesting party. Hydrants are not to be used to fill swimming pools. Any unauthorized use of fire hydrants without written permission of the Harwich Water Department will result in a \$1,000.00 Fine.

**5.17 Cross Connection Control**

If, in the opinion of the Superintendent, the installation of an approved backflow preventer (s) on the property side of a meter is considered necessary for the safety of the water system, such

approved device(s) shall be immediately installed at the expense of the customer after due notice in writing has been given to the customer by the Superintendent. Said device(s) shall be installed and tested in accordance with the drinking water regulations of Massachusetts, 310 CMR 22.22. All tests shall be performed by the Department or agent and shall be charged as set forth in § 8. Failure to install or properly maintain a Department approved device, may result in the water being shut off to the property until compliance requirements are met. In addition, all private water lines running below grade shall be fit with a testable backflow device.

## SECTION 6: Requirements & Specifications for Laying Water Mains

### 6.1 Materials and Installations

All materials to be used in conjunction with any and all water mains and installations of the same shall be in strict accordance with these "Specifications for Water Mains and Service Installation" of these regulations. All water mains and appurtenances shall be installed by the Department employees or a Contractor who has been approved by the Department.

### 6.2 Pipe Size

All water mains shall be sized by the Department in conjunction with the Master Plan of the distribution system, or as calculated by the Department or its consulting engineers. All new water mains shall have the minimum diameter of eight (8) inches. Piping for hydrant services shall have the minimum diameter of six (6) inches.

### 6.3 Fire Hydrant Spacing

Fire hydrants shall be spaced at a minimum distance of 500 feet in residential zoned areas; 250 feet in commercial, business, and industrial zoned areas. The Fire Chief can request a different spacing standard depending on the situation. The applicant must show proof that the Fire Chief has approved all proposed fire hydrant locations. Measurements shall be taken along traveled way, whether public or private. Space and additional fire hydrants shall begin at the closest existing hydrant. An additional fire hydrant shall be placed at the dead end of all water mains.

### 6.4 Fire Hydrant Access

No person shall obstruct access to a fire hydrant. Fire hydrants shall have a three-foot clear radius measured from the center of the stem of the top of the hydrant. No foliage, fencing, parking space, or other object shall obstruct the clear area. No person may landscape to change the grade around the base of the hydrant so as to prevent the use of a four inch cap. Location where existing objects such as, but not limited to, buildings, walls, fences, trees, on sloping grades that does not permit a three (3) foot clearance radius, may be granted a waiver by the Water Department. Before any waiver of this Regulation is granted, all other possible locations must be considered. Existing hydrant locations shall not be altered or moved for any reason unless determined by the Superintendent.

### 6.5 Cost of Water Mains and Hydrants

In private division of lands, commercial, business or industrial complexes, and all other areas not presently serviced by Harwich water system, the developer or owner shall be responsible for all costs with regard to water main installation(s), hydrants and connection(s) to existing system and or maintenance of already installed water mains and hydrants. All water mains shall be installed to the furthest property line.

## **6.6 Need for Water Mains**

The developer or owner of a division of land where water is available within 500 feet will be required to serve and supply the development with water in accordance with these regulations. Any property that has existing public water service and is a division of land, the developer or owner will be required to upgrade the water mains and services to comply with these rules and regulations before the transfer of any parcel. Industrial, commercial, condominiums or multi-family residential, and like buildings that are not a division of land shall be reviewed by the Water Superintendent and the Fire Chief on an individual basis. They shall still be governed by these Rules and Regulations and be required to install and maintain water mains and fire hydrants.

## **6.7 Application for Water Main Installations**

An application for water main installation shall be completed by the developer or owner and submitted to the Department for review and approval before any work can proceed. All applications must contain the complete information requested and an engineered construction plan prepared by a Massachusetts Registered Professional Engineer. Payment of all required tapping fees, and installation fees including the service availability charge and any other fees established by the Board of Water/Wastewater Commissioners shall be made at the time of application.

Water main installations must be performed by an approved contractor listed on the Department's certified Water Main Installer list. Water main inspections must be performed by an approved inspector listed on the Department's certified Water Main Inspector list.

Contractors and/or Inspectors interested in becoming certified, must first submit a letter of interest, credentials, certificates of insurance and three letters of reference for similar work performed in nearby, surrounding towns, to the Board of Water/Wastewater Commissioners for approval. Once approved, the contractor and/or inspector must complete 3 water main installations and/or inspections within the town of Harwich during a probationary timeframe. Upon the successful completion of 3 jobs that meet or exceed the Department's expectations, the contractor and/or inspector will be added to the certified list of Water Main Installers and/or certified Water Main Inspectors.

## **6.8 Pipe and Fittings**

All water main pipes shall conform in design and manufactured to the latest issue.

ANSI/AWWA standard C151-91 Class 52 "Ductile-Iron pipe, Centrifugal cast, for water or other liquids". The pipes shall be supplied in lengths not to exceed 20 feet. Pipe shall have a pressure class of 300.

All fittings shall be Ductile-Iron and conform in design and manufactured to the latest issue of AWWA standard C110 "ductile-Iron and Gray-Iron fittings, 3 ins. through 48 in. for water and other liquids".

All pipe and fittings shall have a Cement-Mortar lining inside and a Bituminous Seal Coat applied both inside and outside to conform to AWWA C104, "Cement-Mortar lining for Ductile-Iron pipe and fittings for water".

Push on and Mechanical joints shall be manufactured domestically and shall conform in design and manufactured to the latest issue of AWWA standard C111 "Rubber-Gasket joint for Ductile-Iron pressure pipe and fittings".



## **6.9 Valves**

All valves shall conform in design and manufactured to the latest issue of AWWA standard C500 "Resilient-Seated gate valves for water supply", rated at 150-psi working pressure and a minimum 300-psi pressure test.

All valves shall have a 2-inch operating nut, mechanical joint hubs (except for wet taps), and open in a counter clockwise direction. If shallow depth of burial or other conditions of service requires that the valve be installed in a horizontal position, a nut-operated bevel gear shall be fitted to the valve for service operation through a valve box.

## **6.10 Hydrants**

Hydrants shall comply with the following:

- Direction of Opening – Right Open
- Bury Length – 5.5 feet
- Height (bury Line to Opening Nut) – 28.75 inches minimum
- Model – Traffic (Breakaway Design)
- Color – Safety Blue Body
- All chains must be removed.

All hydrants shall have a permanently mounted marking device approved by the Department.

All hydrants must meet applicable parts of ANSI/AWWA C502 standard. In the event that a hydrant is not in service or temporarily taken out of service, the hydrant is to be clearly marked with an out of service ring and notification provided to the Fire Department.

## **6.11 Cover over Pipe**

Pipe shall have five (5) feet of cover measured to finish grade of the street. Pipe to be hand covered one (1) foot with sand or stone free gravel and compacted and tamped around pipe to give good support and protection.

In case of any excavation, ground water swamps or when any unsuitable materials are encountered, the Contractor shall replace it with good material to provide proper support and alignment of the pipeline. In some cases, the Contractor shall use crushed stone for bedding covered with sand. Trench backfill shall be suitable material taken from excavation, approved common borrow or gravel hauled in. No mud, frozen earth, stones larger than 3/4" or other objectionable materials is to be used for refilling.

## **6.12 Ledge**

All ledges shall be removed to width of two (2) feet or greater than the diameter of the pipe and one (1) foot below the underside of the pipe. A bed of sand shall be placed in the trench prior to laying pipe.

## **6.13 Blasting Precautions**

All blasting shall be discussed with the Superintendent and or the Engineer's and the decision shall be made on individual bases.

## **6.14 Survey Markers**

Survey markers (line and grade) shall be required on all newly proposed streets. Pipes shall be laid within the roadway layout (easement in certain cases) as shown on plans approved by the Harwich Planning & Zoning Board.

**6.15 Excavation within the Limits of Public Ways**

Permission shall be obtained from the Highway Department before any excavation can begin within any Town way. Road restoration shall be completed in accordance with local or state regulations. A street opening permit shall be obtained from Massachusetts Department of Public Works before any excavation can begin on any State Highway. This work shall be performed in accordance with permit.

**6.16 Service Pipes**

Each service shall consist of a corporation stop, curb stop, curb box, ball valve and a meter and remote reader as soon as the water service enters building.

**6.17 Testing of Water Mains**

Before acceptance by the Department, the pipe shall be pressure tested and chlorinated in accordance with "Installation of Ductile-Iron Water Mains and Appurtenances" AWWA Designation C600 latest edition. No one shall pressure test or chlorinate an installation without notifying the Department at least 48 hours prior. An employee of the Department must be present for the duration of the pressure test and chlorination to witness and sign the chain of custody forms. All pressure test reports shall consist of actual distance of pipe and size, and the number of valves and hydrants. The Town shall furnish a water meter to measure water usage for disinfection and flushing. A sample of water taken after the disinfection of water pipes shall be delivered to a testing laboratory approved by the Commonwealth of Massachusetts. The contractor must then deliver two consecutive copies of the test results with zero background to the Superintendent. Before final approval is given by the Superintendent, the contractor must submit an as-built drawing to the Department. It is at this time the Superintendent shall then determine whether the pipes (project) may be accepted into the Town's water system.

**6.18 Tapping Sleeves & Valves: Gate & Butterfly Valves**

Tapping sleeves & valves, gate and butterfly valves shall be furnished in accordance with the requirements of the latest revised AWWA Standards C509-94 and C504-94. Tapping sleeves and valves shall be of the same manufacturer. Gate valves 6" through 12" shall be mechanical joint, bronze mounted, resilient seat wedge type, open left (counterclockwise) with 2" operating nut. For the purpose of standardization, tapping sleeves and valves, gate and butterfly valves shall be Mueller.

**6.19 Gate Boxes**

Buffalo #5663 slide type 24" top with flange at top of box with 30" bottom. Boxes to be cast iron, bituminous coated with cast iron covers for heavy traffic use. Covers shall be identified with legend "WATER".

**6.20 Water Mains on Private Roads**

It is the sole responsibility of the residents or owner(s) of private roads to repair and maintain all water mains and appurtenances, valves and hydrants. It is also the responsibility of residents and or owner(s) to maintain sufficient amount of soil coverage over any water main. All water mains are required to maintain a minimum of a 5' depth below finish grade at all times. The Department is not responsible for water mains on private roads.

## **6.21 Road Layout**

Any privately owned pipes and or wires in the Town's road layout are not the responsibility of the Department. Any items in the road layout that are damaged will not be paid for by the Town of Harwich.

## **SECTION 7: Violations**

### **7.1 Violations of Regulations**

Any violation of these regulations may result in the Superintendent and/or the Board of Water/Wastewater Commissioners ordering a fine in accordance with Massachusetts General Laws Chapter 165, § 11 and/or the shutting off of the water to the violator's premises. If the water is shut off for violations of rules it shall not be turned on again until the Department is satisfied that there shall not be further cause of complaint and charges have been paid.

### **7.2 Discontinuance of Service**

A water service may be discontinued for any reason such as nonpayment of water bills, fees, charges and liens or for violations of any rules and regulations contained herein, and in accordance with Massachusetts General Law Chapter 40 §42. A water service may be terminated without notice for fraudulent use. Reconnection of terminated service will be done ONLY during normal working hours of the Department; a reconnection fee shall be applied. Water service will not be reconnected until all charges have been paid in full.

### **7.3 Inactive Services**

If an account does not have a meter and has been inactive for more than 24 months, the Department may disconnect and cap the service from the distribution system. If the property owner wishes to keep the service connected to the system, he or she must apply for an extension that may not exceed one year unless there is a special condition made and set forth by the Board of Water/Wastewater Commissioners.

### **7.4 Cross Connections**

Whoever maintains a cross connection in violation of M.G.L. c. 111, § 160A, shall be:

1. punished by a fine of not more than \$25,000 for each day such violation occurs or continues, or by imprisonment for not more than one year, or both such fine and imprisonment, or
2. subject to a civil penalty not to exceed \$25,000 per day for each day that such violation occurs or continues.

Water will be turned off immediately until violation has been corrected. There will be a Turn on and Turn off fee assessed per violation. There is also a testing fee per device, see non water related fees.

### **7.5 Treatment**

No treatment by any unauthorized personnel shall be permitted. If anyone is found adding any treatment to Town's water, they will be subject to fines established by the Board of Commissioners for each individual offense.

### **7.6 Mandatory Water Use Restrictions**

Any customer found in violation of a water ban shall be fined as follows:

- First Offense – written warning
- Second Offense - \$100.00 dollars
- Third and any subsequent offense - \$300.00 dollars

**7.7 Swimming Pools**

The filling of swimming pools with the use of a fire hydrant is strictly prohibited. Violators will be subject to penalties in accordance with Massachusetts General Laws, Chapter 165.

**7.8 Unauthorized Water Use**

Whoever unlawfully and intentionally damages a water meter or prevents such meter from registering the quantity of water supplied through it or uses or causes to be used water without consent of Department shall be fined in accordance with Massachusetts General Law, Chapter 165, §11.

**7.9 Defacing and Littering Upon Town Owned Property**

Any person or persons willfully defacing and or littering upon Town owned property located within its watershed shall be fined no less than \$300.00 dollars.

**7.10 Tampering**

All gates, valves, shutoffs, water meters and standpipes and any other portion of the municipal system, are the sole property of the Department, and are not to be opened, closed, removed or in any way tampered with or made inaccessible. Only personnel authorized by the Superintendent may operate any portion of the municipal system. Violators will be subject to charges or penalties determined by the Board of Water/Wastewater Commissioners.

**7.11 Markouts**

No excavator shall, except in an emergency, make an excavation where town water exists unless notice is given to the Department at least 72 business hours before excavation. If an excavation is made without the request of a water mark out, the excavator shall be held solely responsible for any and all damages and injuries caused, and any penalties or legal action that may be brought against excavator, company, or its representatives.

**7.12 Utility Markout Policy**

- A. Utility shall submit road cut permit request directly to the Highway Department.
- B. Utility shall submit markout request to the Department 72 hours before markout is needed, for 10 or less residences. For 10+ residences, a 2-week notice is required. Bad weather may alter this schedule.
- C. There will be a fee charged per markout(s) per fee schedule.
- D. The markout package shall include the following:
  - Utility’s work order/reference and dig safe number
  - A map/diagram highlighting area of utility service work to commence.
  - Dig safe documentation
  - Project start date
  - Contact name, number and/or email address of contact.

As of 8/20/13, utility shall provide a complete markout package as noted in item D above. For large projects, Utility Representative must deliver by hand a complete markout package.

Each utility shall not submit more markout request than the utility can complete within thirty (30) days of initial work request(s). If work is not completed within thirty (30) days, a new markout request is required and the utility will be charged for the new markout.

Each utility will receive a monthly bill for services rendered. Payment will be due within 60 days. Late payment will result in late fee charge as per fee schedule.

If payment is not made within 3 months (90 days), the Department will cease all markouts until balance is paid.

## SECTION 8: Rates & Charges

### 8.1 Setting Fees and Charges

Fees and charges are subject to change upon approval of the Board of Water/Wastewater Commissioners and after all legally advertised public hearings and meetings have been completed.

See Appendix for Current Rates and Fees

## SECTION 9: Irrigation Systems

### 9.1 Irrigation System Notification

All properties with irrigation systems must notify the Department. If a property owner has not notified the Department, the water may be shut off to the property until proper notification has been filed.

### 9.2 Irrigation Backflow Device

All irrigation systems must have a testable backflow device. All tests will be conducted by a State Certified Licensed Backflow Device tester. If a system is found to be operating without an approved backflow device, the water may be shut off to the property until all Department compliance requirements are met.

### 9.3 Irrigation/Sewer Deduct Meter

See Section 4.13 Irrigation/Sewer Deduct Meter

## SECTION 10: Service Tight Program

### 10.1 Service Tight Program

The Town offers a voluntary Service Tight Protection Plan; this program offers eligible customers the right to apply for enrollment into the Service Tight Program for all services 2" and under from the curb stop to the water meter. Condominiums, apartments, multi-unit properties and service lines after meter pits are not eligible under this plan. All enrollees must agree to and meet all conditions set forth in the Service Tight Program. This service will have an automatic fee, billed quarterly and will provide all services mentioned in the program brochure.

Delinquent accounts over ninety (90) days will be automatically unenrolled and will not be eligible for re-enrollment until all account charges have been paid in full. The Department reserves the right to cancel this program at any time. The Service Tight Program is not transferrable.

Enrollment begins ninety (90) days after application is received. The Customer may cancel the Service Tight Program at any time by placing their request in writing to the Harwich Water Department, 196 Chatham Rd. Harwich, MA 02645.

If the customer chooses to cancel the plan prior to the initial waiting period, they may do so in writing. If cancellation is requested after the billing period, no refund will be given. When the customer chooses to sign up for this service, it is the customer's responsibility to become familiar with the Service Tight Plan guidelines.

The department reserves the right to change the terms and conditions of the policy at any time. Please refer to the applicable Rates and Fees. The Harwich Water Department reserves the right to deny plan coverage for any reason.

# APPENDIX A. Schedule of Rates and Fees

<b>Water Rates</b> <small>EFF. 7/1/21 TBD</small>		RATE	<b>Sewer Rates</b> <small>EFF. 7/1/21 TBD</small>		RATE
Base Rate	45.00	QUARTERLY	Base Rate	50.00	
1,000 – 8,000 Gallons	1.35	PER 1,000 GALLONS	1,000 – 8,000 Gallons	5.03	
8,001 – 15,000 Gallons	2.78	PER 1,000 GALLONS	8,001 – 15,000 Gallons	5.43	
15,001 – 40,000 Gallons	4.15	PER 1,000 GALLONS	15,001 – 40,000 Gallons	5.83	
40,001 + Remaining Gals	6.01	PER 1,000 GALLONS	40,001 + Remaining Gals	6.05	
<b>Fire Protection</b>					
Residential	40.00	QUARTERLY			
Commercial	65.00	QUARTERLY			
<b>Backflow Prevention Device Inspection</b> <small>FREQUENCY OF INSPECTION IS BASED ON DEVICE TYPE</small>					
First Device	70.00	PER DEVICE, ANNUAL OR SEMI-ANNUAL BILLING			
Re-Test	45.00	PER DEVICE			
Backflow/Cross-Connection Survey	100.00	PER HOUR			
<b>Service Tight Protection Plan</b>					
Up to and Incl. 2" Water Service	68.00	PER YEAR, BILLED QUARTERLY			
<b>Administrative and Collection Fees</b>					
Notice Fee – Violation   Collection	10.00	Return Check Fee		25.00	
Copies/Computer Printout 950 CMR	.05	Demand Charge		25.00	
Research Request PER HOUR	22.00	Unauthorized Hydrant Use		1,000.00	
<b>Tampering Fine MGL, CH.165, §11: TRIPLE THE AMOUNT OF DAMAGES SUSTAINED THEREBY OR \$1,000.00</b>					
<b>Service Fees</b>					
Service Call During Work Hours	50.00	PER HOUR			
Service Call After Work Hours 3:30PM	150.00	FEE FOR UP TO 4 HOURS			
Missed Appointment	50.00	FEE			
Electrician Labor/Water Services	50.00	PER HOUR			
Transfer of Property Request	60.00	PER REQUEST			
Seasonal Turn On/Off or Plumbing	50.00	PER REQUEST			
Out-of-Rotation On/Off	150.00	FEE (INCLUDES \$50 IF AUTO BILLED)			
Reconnection Fee	50.00	PER HOUR (DOES NOT INCLUDE COST FOR TURN ON)			
Markout Request	25.00	1-2 MARKOUTS			
Markout Request	50.00	PER HOUR FOR MORE THAN 2 REQUESTS			
Inspection Fee	150.00	PER REQUEST			
Meter Test MGL, CH.40, §39I	3.00	PLUS 1-HR SERVICE CALL			
Hydrant Use Setup	100.00	SETUP AND 1ST 1,000 GALLONS			

Hydrant Use Consumption	20.00	PER 1,000 GALLONS, AFTER 1ST 1,000 GALLONS
Private Hydrant Inspection	50.00	PER HOUR

**Service Tap Installation** DOES NOT INCLUDE PRICE OF METER AND VALVE

Service Tap up to 1"	Quote	SUBJECT TO QUOTE
Service Renewal -Existing Tap Only	Quote	SUBJECT TO QUOTE
Larger Service Taps	Quote	SUBJECT TO QUOTE
2" Residential Fire Sprinkler Tap	350.00	EACH
6" Commercial Fire Sprinkler Tap	600.00	EACH

RECEIPT FOR SERVICE INSTALLATION CHARGE MUST BE PRESENTED TO BUILDING INSPECTOR FOR BUILDING PERMIT

SERVICE TAP INSTALLATION INCLUDES LABOR, EQUIPMENT AND PARTS. METER AND VALVE ARE PRICED SEPERATELY

**Water Main Tap or Tie In** TRENCH PERMIT NOT INCLUDED

6" Tap	600.00	10" Tap	800.00	Trench Permit	25.00
8" Tap	700.00	12" Tap	900.00		

**Meters THRU 6/30/21**

5/8" E-	408.06	1-1/2" E-CODER	1,222.06	3" E-CODER Compound	4,878.62
3/4" E-	524.08	2" E-CODER	1,475.03	4" E-CODER Compound	6,142.25
1" E-CODER	689.50	2" E-CODER Compound	3,403.17		

**Meter Replacement Discount** FROZEN/DAMAGED

<10 years	FULL PRICE	13 years	65%	17 years	85%
10 years	50%	14 years	70%	18 years	90%
11 years	55%	15 years	75%	19 years	95%
12 years	60%	16 years	80%	20 years	NO CHARGE

DISCOUNTS WIL NOT BE GIVE IF CUSTOMER OR REPRESENTATIVE IS NEGLIGENT OF METER TAMPERING

REPLACEMENT PRICING DOES NOT INCLUDE LABOR OR FOR SERVICE CALL

<b>Special Services</b> HYDRANT/EMERGENCIES, ETC.		STRAIGHT TIME	OVERTIME	
Labor	PER HOUR PER TECH	50.00	150.00	OVERTIME FEE FOR UP TO 4 HOURS
One Man/One Truck	PER HOUR PER TECH	50.00	150.00	
Two Men/One Truck	PER HOUR PER TECH	100.00	300.00	
Compressor or Const. Trailer	PER HOUR PER TECH	70.00	N/A	
Dump Truck F-750	PER HOUR PER TECH	80.00	N/A	
Mini Excavator	PER HOUR PER TECH	80.00	N/A	
Backhoe	PER HOUR PER TECH	80.00	N/A	

DISCLOSURE: SERVICE CALLS AND LABOR FOR EMERGENCY CALLS ON A HOLIDAY IS ADDITIONAL AND APPROXIMATELY DOUBLE OVERTIME RATE PRICING.



## Authentication

Upon due notice and hearing, we the undersigned, acting as Water/Wastewater Commissioners of the Town of Harwich, do this <<30<sup>th</sup> day of October 2015>> adopt the foregoing "Rules and Regulations of the Harwich Water Department".

Board of Water/Wastewater Commissioners:

_____ Gary Carreiro, Chairman	_____ Date
_____ Judith Underwood, Vice Chair	_____ Date
_____ Allin Thompson, Clerk	_____ Date

Adopted: February 25, 1935  
Revised: January 1, 1961  
Revised: January 1, 2001  
Revised: January 10, 2006  
Revised: May 1, 2008  
Revised: May 15, 2009  
Revised: June 19, 2009  
Revised: February 9, 2010  
Rates/Fees: March 1, 2010  
Revised: July 27, 2010  
Revised: December 7, 2010  
Rates/Fees: April 26, 2011  
Rates/Fees: March 13, 2012  
Rates/Fees: March 19, 2013  
Rates/Fees: March 17, 2015  
Revised: October 30, 2015  
Fees: October 30, 2015  
Fees: April 13, 2016  
Fees: September 13, 2017  
Adopted: TBD July 1, 2021

## V. NEW BUSINESS

- A. FY21 Q3 Water Budget Report & Commitment
- B. FY21 Q3 Wastewater Budget Report
- C. Waterworks Materials Bid- Vote to Award

FY21 Q3 WATER BUDGET REPORT



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FY21 Q3 WATER BUDGET REPORT  
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ACCOUNTS FOR: 1320 WATER ENTERPRISE FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1320 WATER ENTERPRISE FUND							
1320 596000 OFUS	730,290	0	730,290	730,290.00	.00	.00	100.0%
TOTAL WATER ENTERPRISE FUND	730,290	0	730,290	730,290.00	.00	.00	100.0%
13204501 WATER ENTERP SALARIES & WAGES							
13204501 511100 S&WELECTED	3,000	0	3,000	2,250.03	.00	749.97	75.0%
13204501 511900 S&W	990,575	0	990,575	690,618.23	.00	299,956.84	69.7%
13204501 512000 SEAS S & W	45,696	0	45,696	12,241.25	.00	33,454.75	26.8%
13204501 512500 COMP TIME	0	0	0	907.48	.00	-907.48	100.0%*
13204501 513000 OVERTIME	211,282	0	211,282	162,939.21	.00	48,342.79	77.1%
13204501 513060 FLUSHING	31,919	0	31,919	.00	.00	31,919.00	.0%
13204501 514000 LONGEVITY	35,253	0	35,253	21,627.62	.00	13,625.38	61.3%
13204501 515005 SICK BY-BK	0	0	0	7,993.29	.00	-7,993.29	100.0%*
13204501 515007 SCKLVBONUS	3,325	0	3,325	1,675.00	.00	1,650.00	50.4%
TOTAL WATER ENTERP SALARIES & WAGES	1,321,050	0	1,321,050	900,252.11	.00	420,797.96	68.1%
13204502 WATER ENTERPRISE FUND EXP							
13204502 517200 UNEMPLOYPA	0	0	0	-684.00	.00	684.00	100.0%
13204502 517900 OTHER FRIN	8,250	0	8,250	5,843.85	.00	2,406.15	70.8%
13204502 521100 ELECTRIC	328,126	0	328,126	269,466.59	.00	58,659.41	82.1%
13204502 521200 GAS	9,535	0	9,535	3,675.42	.00	5,859.58	38.5%
13204502 524140 V&EMAINT	58,500	0	58,500	53,511.22	.00	4,988.78	91.5%
13204502 524160 B&GMAINT	45,000	0	45,000	18,360.23	.00	26,639.77	40.8%
13204502 525000 TECH SUP	27,240	0	27,240	22,953.76	.00	4,286.24	84.3%
13204502 526000 BLDG AGRMT	9,650	0	9,650	8,677.92	.00	972.08	89.9%
13204502 530800 LAB SVCS	22,500	0	22,500	9,382.00	.00	13,118.00	41.7%
13204502 530820 PROFSVCS	75,000	0	75,000	66,806.50	.00	8,193.50	89.1%
13204502 530875 PRINT SVC	23,000	0	23,000	6,624.97	.00	16,375.03	28.8%
13204502 534100 ADV	1,500	0	1,500	1,604.40	.00	-104.40	107.0%*
13204502 534300 POSTAGE	21,000	0	21,000	12,592.74	.00	8,407.26	60.0%
13204502 534400 TELEPHONE	7,700	0	7,700	4,868.01	.00	2,831.99	63.2%
13204502 534430 COMM SVCS	16,000	0	16,000	11,679.24	.00	4,320.76	73.0%
13204502 541100 PROPANE	18,944	0	18,944	7,848.46	.00	11,095.54	41.4%

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FY21 Q3 WATER BUDGET REPORT

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FOR 2021 13

ACCOUNTS FOR: 1320	WATER	ENTERPRISE FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
13204502	542000	OFF SUPPLS	5,900	0	5,900	3,995.34	.00	1,904.66	67.7%
13204502	542013	HARD/SOFT	25,924	0	25,924	11,587.81	.00	14,336.19	44.7%
13204502	548100	BULK FUEL	28,371	0	28,371	7,576.83	.00	20,794.17	26.7%
13204502	548200	TREAT SUPP	27,500	0	27,500	40,105.39	.00	-12,605.39	145.8%*
13204502	548250	TREAT CHEM	145,000	0	145,000	117,581.82	78,553.80	-51,135.62	135.3%*
13204502	553000	P.W. SUPPL	26,250	0	26,250	20,651.42	.00	5,598.58	78.7%
13204502	553100	METERS	180,000	0	180,000	73,527.24	120,932.46	-14,459.70	108.0%*
13204502	553200	INSTALLSUP	43,000	0	43,000	34,523.93	9,506.99	-1,030.92	102.4%*
13204502	553300	PIPESETC	90,000	0	90,000	36,952.35	39,952.62	13,095.03	85.4%
13204502	553350	MAINREPL	35,000	0	35,000	15,239.00	.00	19,761.00	43.5%
13204502	553500	DETAILS	60,000	0	60,000	15,107.17	.00	44,892.83	25.2%
13204502	553600	RDREP	33,000	0	33,000	28,144.34	.00	4,855.66	85.3%
13204502	553900	MECHTANK	10,000	0	10,000	1,980.00	.00	8,020.00	19.8%
13204502	554200	GENERMINT	12,500	0	12,500	12,696.53	.00	-196.53	101.6%*
13204502	554300	WELLREHAB	45,000	0	45,000	.00	.00	45,000.00	.0%
13204502	558100	UNIFORMS	6,500	0	6,500	2,278.51	.00	4,221.49	35.1%
13204502	573000	DUE, SB, TRV	14,000	0	14,000	4,199.16	.00	9,800.84	30.0%
13204502	573200	WATPERMIT	8,500	0	8,500	7,339.61	.00	1,160.39	86.3%
13204502	575070	OPEB	50,000	0	50,000	50,000.00	.00	.00	100.0%
13204502	591000	MAT.LT.DBT	547,800	0	547,800	563,289.17	.00	-15,489.17	102.8%*
13204502	591500	INT LT DBT	171,199	0	171,199	145,949.96	.00	25,249.04	85.3%
13204502	591550	ADM FEE LT	2,346	0	2,346	2,342.76	.00	3.24	99.9%
TOTAL WATER ENTERPRISE FUND EXP			2,239,735	0	2,239,735	1,698,279.65	248,945.87	292,509.48	86.9%
								ENCUMB/PO'S	248,945.87
									541,455.35
									75.8%
13204504 WATER REVENUE ENTERP FUND									
13204504	414600	WATER LIEN	-20,241	0	-20,241	-18,452.13	.00	-1,788.87	91.2%*
13204504	417008	P&I WATER	-2,211	0	-2,211	-2,383.05	.00	172.05	107.8%
13204504	421100	WATER R&S	-4,384,189	0	-4,384,189	-3,833,235.68	.00	-550,953.32	87.4%*
13204504	421200	METERS	-10,834	0	-10,834	-2,913.24	.00	-7,920.76	26.9%*
13204504	421300	SVCAPPL	-2,168	0	-2,168	-700.00	.00	-1,468.00	32.3%*
13204504	421400	SVINSTALL	-168,982	0	-168,982	-159,648.74	.00	-9,333.26	94.5%*
13204504	421450	MKOUTSVC	-3,241	0	-3,241	-24,998.55	.00	21,757.55	771.3%
13204504	421550	PROPTRAN	-10,903	0	-10,903	-19,773.94	.00	8,870.94	181.4%
13204504	421600	WIRELESS	-128,341	0	-128,341	-130,164.41	.00	1,823.41	101.4%
13204504	421650	SOLREV	-70,562	0	-70,562	-61,645.69	.00	-8,916.31	87.4%*
13204504	431100	SVC TIGHT	-82,076	0	-82,076	-66,360.01	.00	-15,715.99	80.9%*
13204504	433007	LATE FEE	-48,771	0	-48,771	-41,790.15	.00	-6,980.85	85.7%*
13204504	441100	ELECT SVC	0	0	0	-2,200.00	.00	2,200.00	100.0%
13204504	451100	BACKFLOW	-20,366	0	-20,366	-17,681.29	.00	-2,684.71	86.8%*
13204504	482001	INVEST REV	-21,200	0	-21,200	-8,062.38	.00	-13,137.62	38.0%*

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TOWN OF HARWICH - LIVE DATA  
FY21 Q3 WATER BUDGET REPORT

040721

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FOR 2021 13

ACCOUNTS FOR: 1320	WATER	ENTERPRISE FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
13204504	484099	WATER MISC	-54,331	0	-54,331	-47,766.41	.00	-6,564.59	87.9%*
		TOTAL WATER REVENUE ENTERP FUND	-5,028,416	0	-5,028,416	-4,437,775.67	.00	-590,640.33	88.3%
132045A2 WATER ENTERPRISE ARTICLES EXP									
132045A2	619015	ATM 19 #15	0	27,047	27,047	.00	.00	27,047.00	.0%
132045A2	619016	ATM 19 #16	0	300,000	300,000	.00	.00	300,000.00	.0%
132045A2	619017	ATM 19 #17	0	65,000	65,000	.00	.00	65,000.00	.0%
132045A2	620039	PRIOR YEAR	0	3,750	3,750	3,750.00	.00	.00	100.0%
		TOTAL WATER ENTERPRISE ARTICLES EXP	0	395,797	395,797	3,750.00	.00	392,047.00	.9%
		TOTAL WATER ENTERPRISE FUND	-737,341	395,797	-341,544	-1,105,203.91	248,945.87	514,714.11	250.7%
		TOTAL REVENUES	-5,028,416	0	-5,028,416	-4,437,775.67	.00	-590,640.33	
		TOTAL EXPENSES	4,291,075	395,797	4,686,872	3,332,571.76	248,945.87	1,105,354.44	
		PRIOR FUND BALANCE				1,429,733.27			
		CHANGE IN FUND BALANCE - NET OF REVENUES/EXPENSES				1,105,203.91			
		REVISED FUND BALANCE				2,534,937.18			

# FY21 Q3 COMMITMENT

03/30/2021 09:11 | TOWN OF HARWICH - LIVE DATA  
 wmarsh | UB Charge Proof/Register

Run: 1  
 Charge Code: Commitment: 042021  
 Group Code: To: ZZZZZZ  
 To: ZZZZ

### Summary

Begin: 12/31/2020 End: 04/02/2021  
 Bill: 04/02/2021 Due: 05/07/2021  
 Int/Penalty: 05/07/2021

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### Sequence by ACCOUNT/CHARGE CODE

	Cat	Base/Flat	Usage\$/ Usage	Demand/ Usage	KVAR/ Usage	Rate Adj	Subject To	Net Total	Count
<b>Summary by CHARGE CODE</b>									
1FSPRK FIRE SPRINKLER	60	6825.00	.00	.00	.00	.00		6825.00	105
1TOWNS TOWN USAGE	60	.00	.00	.0000	.0000	.00		.00	1
1WATER WATER USAGE	60	350910.00	156480.30	.0000	.0000	.00		507390.30	10046
2RESFR RESIDENTIAL FIRE S	60	1080.00	.00	.00	.00	.00		1080.00	27
3SEASN SEASONAL	60	20350.00	.00	.0000	.0000	.00		20350.00	407
3STIP SERVICE TIGHT RENEW	60	23001.00	.00	.0000	.0000	.00		23001.00	1353
Summary Totals ----->		402166.00	156480.30 71,583,000	.00 .0000	.00 .0000	.00	.00	558646.30	11939
<b>Summary by DISTRICT</b>									
1 CYCLE 1	60	402166.00	156480.30 71,583,000	.00 .0000	.00 .0000	.00		558646.30	11939
Summary Totals ----->		402166.00	156480.30 71,583,000	.00 .0000	.00 .0000	.00	.00	558646.30	11939
<b>Summary by GROUP</b>									
10	60	10024.00	6097.82	.00	.00	.00		16121.82	296
100	60	10162.00	2,237,000 4374.51	.0000	.0000	.00		14536.51	299
105	60	9212.00	1,831,000 1939.10	.0000	.0000	.00		11151.10	277
110	60	9186.00	1,184,000 6394.71	.0000	.0000	.00		15580.71	281
115	60	5346.00	2,530,000 3008.22	.0000	.0000	.00		8354.22	156
120	60	8729.00	1,169,000 3122.57	.0000	.0000	.00		11851.57	258
130	60	7206.00	1,161,000 937.40	.0000	.0000	.00		8143.40	205
135	60	10443.00	546,000 4652.65	.0000	.0000	.00		15095.65	308
140	60	6853.00	1,739,000 1109.44	.0000	.0000	.00		7962.44	206
145	60	4346.00	658,000 1643.25	.0000	.0000	.00		5989.25	130
150	60	14358.00	725,000 4461.45	.0000	.0000	.00		18819.45	438
155	60	5281.00	2,346,000 1158.87	.0000	.0000	.00		6439.87	161
157	60	7674.00	691,000 2360.38	.0000	.0000	.00		10034.38	234
160	60	14597.00	1,290,000 7416.18	.0000	.0000	.00		22013.18	439
170	60	8209.00	2,823,000 5279.44	.0000	.0000	.00		13488.44	249

03/30/2021 09:11 | TOWN OF HARWICH - LIVE DATA  
 wmarsh | UB Charge Proof/Register

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 | ubbproof

Run: 1 Commitment: 042021  
 Charge Code: To: ZZZZZ  
 Group Code : To: ZZZZ

Summary

Begin: 12/31/2020 End: 04/02/2021  
 Bill: 04/02/2021 Due: 05/07/2021  
 Int/Penalty: 05/07/2021

Sequence by ACCOUNT/CHARGE CODE

	Cat	Base/Flat	Usage\$/ Usage	Demand/ Usage	KVAR/ Usage	Rate Adj	Subject To	Net Total	Count
Summary by GROUP									
8001	60	3445.00	.00	.00	.00	.00		3445.00	53
			0	.0000	.0000				
8002	60	3250.00	.00	.00	.00	.00		3250.00	50
			0	.0000	.0000				
90	60	8331.00	750.35	.00	.00	.00		9081.35	234
			485,000	.0000	.0000				
9000	60	130.00	.00	.00	.00	.00		130.00	2
			0	.0000	.0000				
Summary Totals ----->		402166.00	156480.30	.00	.00	.00	.00	558646.30	11939
			71,583,000	.0000	.0000				
Summary by CHARGE TYPE/CODE									
Service 1FSPRK FIRE SPRIN	60	6825.00	.00	.00	.00	.00		6825.00	105
			0	.0000	.0000				
Service 1TOWNS TOWN USAGE	60	.00	.00	.00	.00	.00		.00	1
			390,000	.0000	.0000				
Service 1WATER WATER USAG	60	350910.00	156480.30	.00	.00	.00		507390.30	10046
			71,193,000	.0000	.0000				
Service 2RESFR RESIDENTIA	60	1080.00	.00	.00	.00	.00		1080.00	27
			0	.0000	.0000				
Service 3SEASN SEASONAL	60	20350.00	.00	.00	.00	.00		20350.00	407
			0	.0000	.0000				
Service 3STIP SERVICE TIG	60	23001.00	.00	.00	.00	.00		23001.00	1353
			0	.0000	.0000				
Summary Totals ----->		402166.00	156480.30	.00	.00	.00	.00	558646.30	11939
			71,583,000	.0000	.0000				

Total Active Accounts: 10159

\*\* END OF REPORT - Generated by Wellesley Marsh \*\*

Board of Water/Wastewater Commissioners  
 Chairman:

Gary Carreiro  
 Gary Carreiro (Mar 30, 2021 12:11 EDT)

Date: Mar 30, 2021

cc: BOWWC Meeting Packet  
 Carol Coppola, Finance Director  
 Amy Bullock, Treasurer/Collector

**FY2021 Q3 PROJECTION vs ACTUAL**

PROJECTION								
			TIER USAGE				TIER REVENUE	
TIER %	LOW CONF	FORECAST	HI CONF	RATES	LOW CONF	FORECAST	HI CONF	
TIER / GALLONS	ALLOCATION							
				35	350,000.00	350,000.00	350,000.00	
1-8K	35.69%	41,763,030	44,771,282	47,779,533	1.29	53,874.31	57,754.95	61,635.60
9-15K	23.56%	12,731,646	13,648,725	14,565,804	2.65	33,738.86	36,169.12	38,599.38
16-40K	25.39%	7,784,354	8,345,073	8,905,791	3.95	30,748.20	32,963.04	35,177.87
40+K	15.36%	7,668,984	8,221,392	8,773,800	5.72	43,866.59	47,026.36	50,186.14
PROJECTION TOTALS -->>		69,948,014	<b>74,986,472</b>	80,024,929		512,227.96	<b>523,913.47</b>	535,598.99

ACTUAL				
			INCLUDES BASE RATE	
TIER %	TIER USAGE		TIER REVENUE	
TIER / GALLONS	ALLOCATION			
		0	75,285.00	
1-8K	27.42%	19,521,000	193,810.80	
9-15K	33.93%	24,157,000	115,439.89	
16-40K	24.54%	17,469,000	72,758.61	
40+K	14.07%	10,015,000	49,939.82	
VARIABLE/CMPDS		31,000	156.18	
ACTUAL TOTALS -->>		<b>71,193,000</b>	<b>507,390.30</b>	

DELTA						
			TIER/USAGE		TIER REVENUE	
	LOW CONF	FORECAST	HI CONF	LOW CONF	FORECAST	HI CONF
DELTA	1,244,986	-3,793,472	-8,831,929	-4,837.66	-16,523.17	-28,208.69

COMMITMENT SUMMARY	
	COMMITMENT
USAGE	507,390.30
FIRE SPRINKLER	7,905.00
SERVICE TIGHT	23,001.00
SEASONAL OFF	20,350.00
<b>COMMITMENT</b>	<b>558,646.30</b>



FY21 Q3 WASTEWATER BUDGET REPORT



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TOWN OF HARWICH - LIVE DATA  
FY21 Q3 WASTEWATER BUDGET REPORT  
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FOR 2021 13

ACCOUNTS FOR: 1330 WASTEWATER ENTERPRISE	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
1330 WASTEWATER FUND							
1330 497000 TRANSFR IN	-200,000	0	-200,000	-200,000.00	.00	.00	100.0%
TOTAL WASTEWATER FUND	-200,000	0	-200,000	-200,000.00	.00	.00	100.0%
13304401 SEWER SALARIES & WAGES							
13304401 511900 S&W	80,489	0	80,489	45,015.03	.00	35,473.97	55.9%
TOTAL SEWER SALARIES & WAGES	80,489	0	80,489	45,015.03	.00	35,473.97	55.9%
13304402 WASTEWATER EXPENSES							
13304402 530820 PROFSVCS	192,443	0	192,443	.00	51,008.00	141,435.00	26.5%
13304402 530825 PROF SVCS	0	75,358	75,358	23,394.34	67,640.34	-15,676.76	120.8%*
TOTAL WASTEWATER EXPENSES	192,443	75,358	267,801	23,394.34	118,648.34	125,758.24	53.0%
13304404 WASTEWATER REVENUE							
13304404 482001 INVEST REV	0	0	0	-1,188.93	.00	1,188.93	100.0%
TOTAL WASTEWATER REVENUE	0	0	0	-1,188.93	.00	1,188.93	100.0%
TOTAL WASTEWATER ENTERPRISE	72,932	75,358	148,290	-132,779.56	118,648.34	162,421.14	-9.5%
TOTAL REVENUES	-200,000	0	-200,000	-201,188.93	.00	1,188.93	
TOTAL EXPENSES	272,932	75,358	348,290	68,409.37	118,648.34	161,232.21	
PRIOR FUND BALANCE				171,912.84			
CHANGE IN FUND BALANCE - NET OF REVENUES/EXPENSES				132,779.56			
REVISED FUND BALANCE				304,692.40			

## VI. SUPERINTENDENT'S REPORT

- A. Annual Statistical Report
- B. Consumer Confidence Report



# 2020 Consumer Confidence Report

Harwich Water Department - Harwich, Massachusetts  
MassDEP Public Water System ID # 4126000

This report is a snapshot of the drinking water quality that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to state and federal standards. We are committed to providing you with this information because informed customers are our best allies.

## PUBLIC WATER SYSTEM INFORMATION

**Address:** 196 Chatham Road, Harwich, Massachusetts 02645

**Contact Person:** Daniel Pelletier, Superintendent

**Telephone #:** 508-432-0304

**Email:** [dpelletier@harwichwater.com](mailto:dpelletier@harwichwater.com)

**Internet Address:** [www.harwichwater.com](http://www.harwichwater.com)

### Water System Improvements

Our water system is routinely inspected by the Massachusetts Department of Environmental Protection. MassDEP inspects our system for its technical, financial, and managerial capacity to provide safe drinking water to you. Your water system is operated by Massachusetts certified operators who oversee routine operations of our system. As part of our ongoing commitment, last year we made the following improvements to the system:

- Water Service Replacement Project along the National Grid Project Route began in 2019 and continued in to 2020. Eighty-seven old metal water services along the project route are being replaced with HDPE pipe from the water main to the curb stop. The project route includes Great Western, Queen Anne, Route 39, Main Street, Depot Street and Depot Road.
- Replaced 167 meters in 2020 as part of our ongoing meter replacement program. This was down from 402 meters in 2019 due to the pandemic and ensuring safety of our staff.
- Water Main Replacement on Harden Lane; 600 feet of 2"
- Pleasant Lake Tank Project to increase size of fill pipe began toward the end of 2020 and will continue into 2021

### 2020 Public Water Systems Awards

In December of 2020, the Harwich Water Department was recognized by the Senate, House of Representatives, and Massachusetts Department of Environmental Protection for Outstanding Performance and Achievement in the Medium and Large Community Water System Category in 2020.

### Opportunities for Public Participation

If you would like to participate in discussions regarding your water quality, you may remotely attend (due to Covid-19) Board of Water/Wastewater Commissioners meetings on the first and third Thursday of each month at 1:00pm unless otherwise posted. Remote meeting Information can be found on [harwichwater.com](http://harwichwater.com).

## YOUR DRINKING WATER SOURCE

### Where Does My Drinking Water Come From?

The large Monomoy ponds (Long, Seymour and Hinckley) receive groundwater discharge from the lens, which then feeds the Herring River so that groundwater ultimately discharges into Nantucket Sound. The Monomoy Lens is the second largest of the six mounds or cells of elevated groundwater that comprise the aquifer. The lens supplies generally excellent drinking water from its porous sand and gravel deposits. The water is considered "soft" due to the lack of calcium and magnesium. Municipal water supplies are treated to neutralize the pH. Naturally occurring iron and manganese can cause staining, odor and taste problems. Sodium chloride can be elevated in coastal areas due to salt spray or saltwater intrusion.

## Harwich Water System

The Water Department operation consists of 14 pump stations, approximately 400 acres of well fields/watershed protection areas, 5 corrosion control facilities, 2 elevated and 1 ground-level water storage tanks and 2 new Greensand Water Treatment facilities which provide service to 10,034 metered accounts, 132 fire sprinkler accounts and 1,382 fire hydrants for fire protection. The original water system was established in 1936.

The drinking water supply for the Harwich comes from 14 gravel packed wells. Wellfields are in South, East and North Harwich, and draw water from the Monomoy Lens Aquifer. These 14 wells pumped 910 million gallons of water in 2020. The sand and gravel act as a huge underground reservoir, which is continually replenished by rainfall and snowmelt. The wells have a high susceptibility to contamination due to the absence of hydro geologic barriers (i.e. clay) that can prevent contaminant migration.

Source Name	MassDEP Source ID#	Source Type	Location of Source
Well 1	4126000-01G	Groundwater	off Chatham Road
Well 2	4126000-02G	Groundwater	off Chatham Road
Well 3	4126000-03G	Groundwater	off Chatham Road
Main Station Well 1	4126000-13G	Groundwater	off Chatham Road
Main Station Well 2	4126000-14G	Groundwater	off Chatham Road
Main Station Well 3	4126000-15G	Groundwater	off Chatham Road
Well 4	4126000-05G	Groundwater	off Chatham Road
Well 5	4126000-06G	Groundwater	off Depot Road
Well 6	4126000-07G	Groundwater	off Depot Road
Well 7	4126000-08G	Groundwater	off Depot Road
Well 8	4126000-09G	Groundwater	off Bay Road
Well 9	4126000-10G	Groundwater	off Bay Road

## Is My Water Treated?

After the water is pumped from the ground, it is treated with the chemicals Potassium Hydroxide (KOH) and Sodium Hypochlorite (Chlorine). KOH is added at very low concentrations to increase the pH of the water and reduce its natural corrosivity. Low pH can stain plumbing fixtures and degrade the water quality by leaching copper and lead out of private services. The water treatment plants improve water quality by removing dissolved iron and manganese from the water supply.

## What is My System's Ranking?

MassDEP has prepared a Source Water Assessment Program (SWAP) Report for the water supply source(s) serving Harwich. The SWAP Report assesses the susceptibility of public water supplies. Since there are a number of land uses and activities that are potential sources of contamination, Harwich has a high susceptibility ranking. SWAP notes the following key issues for our sources; inappropriate activities in Zone I areas, residential land uses and activities, storm water pollution, transmission line right-of-way, and transportation corridor within Zone IIs, and comprehensive wellhead protection planning for Zone IIs.

## Where Can I See The SWAP Report?

The complete SWAP report is available at the Water Department and online at <https://www.mass.gov/service-details/the-source-water-assessment-protection-swap-program>. For more information, call 508-432-0304

## What Can Be Done to Improve Protection?

Residents and business owners can help protect sources by:

- Practice good septic system maintenance
- Support water supply protection initiatives
- Take hazardous household chemicals to hazardous materials collection days
- Limiting pesticide and fertilizer use:

Nitrogen and Phosphorus in fertilizer are the greatest concern to water quality. Generally speaking, lawns need less fertilizer than advertised and there are multitudes of fertilizing alternatives available today. While water quality in Harwich is excellent, let's do our best to keep it that way and protect our precious resource.

## SUBSTANCES FOUND IN TAP WATER

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, and farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) and MassDEP prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The FDA and Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and some infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Harwich Water is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

## IMPORTANT DEFINITIONS

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**90<sup>th</sup> Percentile:** Out of every 10 homes sampled, 9 were at or below this level. This number is compared to the action level to determine lead and copper compliance.

**Secondary Maximum Contaminant Level (SMCL):** These standards are developed to protect the aesthetic qualities of drinking water and are not health based.

**Unregulated Contaminants:** Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulation is warranted.

**Massachusetts Office of Research and Standards Guideline (ORSG):** This is the concentration of a chemical in drinking water at or below which adverse health effects are unlikely to occur after chronic (lifetime) exposure. If exceeded, it serves as an indicator of the potential need for further action.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**Running Annual Average (RAA):** The average of four consecutive quarters of data.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant (chlorine, chloramines, chlorine dioxide) allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant (chlorine, chloramines, chlorine dioxide) below which there is no known expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

- ppm = parts per million, or milligrams per liter (mg/L)
- ppb = parts per billion, or micrograms per liter (µg/L)
- ppt = parts per trillion, or nanograms per liter (ng/L)
- pCi/l = picocuries per liter (a measure of radioactivity)
- NTU = Nephelometric Turbidity Units
- ND = Not Detected
- N/A = Not Applicable
- C.U. = Color Units

## WATER QUALITY TESTING RESULTS

### What Does This Data Represent?

The water quality information presented in the table is from the most recent round of testing done in accordance with the regulations. All data shown was collected during the last calendar year unless otherwise noted in the table.

Regulated Contaminants							
Lead and Copper							
	Date(s) Collected	90 <sup>TH</sup> percentile	Action Level	MCLG	# of sites sampled	# of sites above Action Level	Possible Sources
Lead (ppb)	8/1/2018 8/8/2018 8/21/18	1.7	15	0	34	0	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	8/1/2018 8/8/2018 8/21/18	0.29	1.3	0	34	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Inorganic Contaminants							
Contaminant	Date(s) Collected	Highest Result	Range Detected	MCL	MCLG	Violation (Y/N)	Possible Sources
Barium (ppm)	3/12/2020	.012	ND-0.12	2	2	N	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits

Nitrate (ppm)	3/12/2020	2.8	ND – 2.8	10	10	N	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Nitrite (ppm)	3/12/2020 3/23/2020	0.30	ND – 0.30	1	1	N	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Perchlorate (ppb)	8/17/2020	ND	ND	2	N/A	N	Rocket propellants, fireworks, munitions, flares, blasting agents

### Volatile Organic Contaminants

Contaminant	Date(s) Collected	Highest Result	Range Detected	MCL	MCLG	Violation (Y/N)	Possible Sources
Xylenes (ppm)	3/12/2020 3/23/2020 6/10/2020 8/18/2020 11/4/2020	0.00058	ND – 0.00058	10	10	N	Discharge from petroleum factories; Discharge from chemical factories

Some people who drink water containing xylenes in excess of the MCL over many years could experience damage to their nervous system.

### Microbiological Contaminants

Bacteria	Date(s) Collected	Highest % positive in a month	Total # Positive	MCL / TT	MCLG	Violation (Y/N)	Possible Sources
Total Coliform Bacteria	Weekly	0%	0	5%	0	N	Human and animal fecal waste
Fecal Coliform or E.coli	Weekly	0%	0	*	0	N	Human and animal fecal waste

\*Compliance with fecal coliform/E.coli MCL is determined upon additional repeat testing

### Radioactive Contaminants

Contaminant (Units)	Date	Highest Result	Range	MCL	MCLG	Violation	Possible Sources
Gross Alpha (pCi/l)	7/26/2012	1.4	0.13-1.4	15	0	N	Erosion of natural deposits
Radium 226 & 228 (pCi/L) (combined values)	7/26/2012	0.85	0.03-0.86	5	0	N	Erosion of natural deposits

If the results of these samples had been above 5 pCi/L, our water system would have been required to do additional testing for radium. Because the results were below 5 pCi/L, no testing for radium was required.

### Disinfectants and Disinfection By-Products

Contaminant (Units)	Date(s) Collected	Highest Quarterly Running Annual Average	Range Detected	MCL	MRDLG	Violation (Y/N)	Possible Source(s) of Contamination
Chlorine (Free) (ppm)	Monthly in 2020	0.31	0.02-0.90	4	4	N	Water additive used to control microbes
Total Trihalomethanes (TTHM) (ppb)	8/18/2020	4.92	0.76 – 6.7	80	----	N	Byproduct of drinking water chlorination
Total Haloacetic Acids (HAA5) (ppb)	8/18/2020	0.80	0.00– 2.2	60	----	N	Byproduct of drinking water disinfection

Unregulated contaminants are those for which there are no established drinking water standards. The purpose of unregulated contaminant monitoring is to assist regulatory agencies in determining their occurrence in drinking water and whether future regulation is warranted.

Unregulated Contaminants						
Unregulated Contaminants	Date(s) Collected	Result or Range Detected	Average Detected	SMCL	ORSG	Possible Source
Chloroform (ppb)	3/12/2020	ND – 3.6	1.10	N/A	70	By-product of drinking water chlorination (In non-chlorinated sources it may be naturally occurring)
Chlorodibromomethane (ppb)	3/23/2020	ND – 2.0	0.09	†	N/A	
Bromoform (ppb)	6/10/2020	ND - 0.78	0.03	†	-	
Bromodichloromethane	8/18/2020	ND – 1.4	0.06	†	-	
Manganese (ppb)*	11/4/2020	ND – 10	ND	50	300	Erosion of natural deposits
* US EPA has established a lifetime health advisory (HA) value of 300 ppb for manganese to protect against concerns of potential neurological effects, and a one-day and 10-day HA of 1000 ppb for acute exposure.						
Methyl tertiary butyl ether* or MTBE (ppb)	3/12/2020 3/23/2020 6/10/2020 8/18/2020 11/4/2020	ND – 0.78	0.06	-	70	Discharge from use as a production and extraction solvent
*EPA has established a lifetime Health Advisory (HA) of 0.3 mg/L and an acute HA at 1.0 mg/L						
Nickel (ppb)	3/8/2018 5/16/2018 8/15/2018 8/22/2018 12/10/2018 3/12/2020	ND - 1.1	0.22	N/A	100	Discharge from domestic wastewater, landfills, and mining and smelting operations
Some people who drink water containing nickel at high concentrations for many years could experience effects on the lung, stomach, blood, liver, kidneys, immune system, reproduction, and development.						
Sodium (ppm)	3/12/2020	22	---	N/A	20	Discharge from the use and improper storage of sodium-containing de-icing compounds or in water-softening agents
Per- and polyfluoroalkyl substances (PFAS)*						
Unregulated Contaminant (CASRN)	Date Collected	Detect Result or Range	Average	ORSG	Possible Sources	Health Effects
Perfluorodecanoic acid (PFDA) 335-76-2 (ppt)	7/3/2019 10/15/2019	ND	ND	20	Discharges and emissions from industrial and manufacturing sources associated with the production or use of these PFAS, including production of moisture and oil resistant coatings on fabrics and other materials. Additional sources include the use and disposal of products containing these PFAS, such as fire-fighting foams.	Some people who drink water containing these PFAS in excess of the ORSG may experience certain adverse effects. These could include effects on the liver, blood, immune system, thyroid, and fetal development. These PFAS may also elevate the risk of certain cancers.
Perfluoroheptanoic acid (PFHpA) 375-85-9 (ppt)	7/3/2019 10/15/2019	ND	ND	20		
Perfluorohexanesulfonic acid (PFHxS) 355-46-4 (ppt)	7/3/2019 10/15/2019	ND	ND	20		
Perfluorononanoic acid (PFNA) 375-95-1 (ppt)	7/3/2019 10/15/2019	ND	ND	20		
Perfluorooctanesulfonic acid (PFOS) 1763-23-1 (ppt)	7/3/2019 10/15/2019	ND	ND	20		
Perfluorooctanoic acid (PFOA) 335-67-1 (ppt)	7/3/2019 10/15/2019	ND	ND	20		
The six compounds listed above were unregulated chemical in 2020 between January 1 – October 2, 2020 and had an ORSG of 20 ppt. After October 2, 2020 it became regulated with an MCL of 20 ppt and any detects found at that time would be reported in the regulated table above.						



Unregulated Contaminant (CASRN)	Date Collected	Detect Result or Range	Average	ORSG	Possible Sources	Health Effects
Perfluorobutanesulfonic acid (PFBS) 375-73-5 (ppt)	7/3/2019 10/15/2019	ND	ND	†	-	-
Perfluorohexanoic acid (PFHxA) 307-24-4 (ppt)	7/3/2019 10/15/2019	ND	ND	†	-	-
Perfluorododecanoic acid (PFDoA) 307-55-1 (ppt)	7/3/2019 10/15/2019	ND	ND	†	-	-
Perfluorotetradecanoic acid (PFTeDA) 376-06-7 (ppt)	7/3/2019 10/15/2019	ND	ND	†	-	-
Perfluorotridecanoic acid (PFTrDA) 72629-94-8 (ppt)	7/3/2019 10/15/2019	ND	ND	†	-	-
Perfluoroundecanoic acid (PFUnA) 2058-94-8 (ppt)	7/3/2019 10/15/2019	ND	ND	†	-	-

\*In October 2020 PFAS6 was regulated with a maximum contaminant (MCL) of 20 parts per trillion (ppt). PFAS6 are comprised of six compounds: perfluorooctane sulfonic acid (PFOS), perfluorooctanoic acid (PFOA), perfluorohexane sulfonic acid (PFHxS), perfluorononanoic acid (PFNA), perfluoroheptanoic acid (PFHpA), and perfluorodecanoic acid (PFDA). Because PFAS samples in Harwich were collected before the regulation was established results are reflected in the Unregulated Contaminant section of this report.

†There is no ORS Guideline for this compound.

#### Unregulated Contaminant Monitoring Rule 4

Contaminant	Year Sampled	Highest Level Detected	Range Detected	
Bromide	2019	56.8	38.0-56.8	UCMR4 Rule: Unregulated contaminants are those that don't yet have drinking water standard set by the US Environmental Protection Agency. The purpose of monitoring for these contaminants is to help US EPA decide whether the contaminants should have a standard.
HAA5 (ppb)	2019	6.074	3.902-6.074	
HAA6Br (ppb)	2019	4.416	1.917-4.416	
HAA9 (ppb)	2019	8.51	4.829-8.51	
Manganese	2019	14.7	0.458-14.7	

As required by US Environmental Protection Agency (EPA), our water system has sampled for a series of unregulated contaminants. Unregulated contaminants are those that don't yet have a drinking water standard set by EPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a public health protection standard.

#### What should I do?

You do not have to do anything but as our customers you have a right to know that these data are available. You may share this information with other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, food establishments, medical facilities and businesses).

#### For more information

For additional information on your water and the unregulated contaminants we sampled for, see your water department's Consumer Confidence Report (CCR), or called a water quality report, delivered by your water department by July 1 of each year. If you have any questions about your CCR, see the contact information below for your water department. For information on the Unregulated Contaminant Monitoring Program, visit the MassDEP website (<http://www.mass.gov/eea/agencies/massdep/water/drinking/water-systems-ops.html>) and navigate to Unregulated Contaminant Monitoring Program.

If you want to speak with someone at the water department about the results, please contact Dan Pelletier at (508) 432-0304 or [dpelletier@harwichwater.com](mailto:dpelletier@harwichwater.com)

## COMPLIANCE WITH DRINKING WATER REGS

### Does My Drinking Water Meet Current Health Standards?

Harwich Water is committed to providing you with the best water quality available. We are proud to report that last year your drinking water met all required water quality standards regulated by the state and federal government.

## EDUCATIONAL INFORMATION

### Cross-Connection Control and Backflow Prevention

Harwich Water makes every effort to ensure that the water delivered to you is clean, safe and free of contamination. Our staff works very hard to protect the quality of the water delivered to our customers. But what happens when the water reaches your home or business? Is there still a need to protect the water quality from contamination caused by a cross-connection? If so, how?

#### What is a cross-connection?

A cross-connection occurs whenever the drinking water supply is or could be in contact with potential sources of pollution or contamination. Cross-connections exist in piping arrangements or equipment that allows the drinking water to come in contact with non-potable liquids, solids, or gases (hazardous to humans) in event of a backflow.

#### What is a backflow?

Backflow is the undesired reverse of the water flow in the drinking water distribution lines. This backward flow of water can occur when the pressure created by equipment or a system such as a boiler or air-conditioning is higher than the water pressure inside the water distribution line (back pressure), or when the pressure in the distribution line drops due to routine occurrences such as water main breaks or heavy water demand causing the water to flow backward inside the water distribution system (back siphonage). Backflow is a problem that many water consumers are unaware of, a problem that each and every water customer has a responsibility to help prevent.



#### What can I do to help prevent a cross-connection?

Without the proper protection something as simple as a garden hose has the potential to contaminate or pollute the drinking water lines in your house. In fact, over half of the country's cross-connection incidents involve unprotected garden hoses. There are very simple steps that you as a drinking water user can take to prevent such hazards, they are:

- NEVER submerge a hose in soapy water buckets, pet watering containers, pool, tubs, sinks, drains, or chemicals.
- NEVER attach a hose to a garden sprayer without the proper backflow preventer.
- Buy and install a hose bib vacuum breaker in any threaded water fixture. The installation can be as easy as attaching a garden hose to a spigot. This inexpensive device is available at most hardware stores and home-improvement centers.
- Identify and be aware of potential cross-connections to your water line.
- Buy appliances and equipment with backflow preventers.
- Buy and install backflow prevention devices or assemblies for all high and moderate hazard connections.

If you are the owner or manager of a property that is being used as a commercial, industrial, or institutional facility you must have your property's plumbing system surveyed for cross-connection by your water purveyor. If your property has NOT been surveyed for cross-connection, contact your water department to schedule a cross-connection survey. For more information on our cross-connection program, visit [www.harwichwater.com](http://www.harwichwater.com)

## Conservation and Leak Detection

Water conservation and leak detection reduces the need for developing new water sources and storage facilities and helps to save our precious resource. Here are suggestions that will help you to conserve water and save money:

### Indoor

- Turn off the water while you shave or brush your teeth
- Check your toilets for leaks by placing a few drops of food coloring in the tank. If the color shows in the bowl after 30 minutes without flushing, it has a leak
- Fix leaking faucets, pipes, toilets, etc.; a slow drip can waste over 100 gallons a day
- Keep showers under 5 minutes
- Run your washing machine and dishwasher only when they are full
- Consider installing low-flow faucets, toilets, and showerheads
- Replace old dishwashers and clothes washers with energy efficient machines that use less water

### Outdoor

- Minimize evaporation by watering before 6 a.m. or after 6 p.m.
- Install a rain sensor shut-off device on your automatic sprinkler system.
- Consider installing a rain barrel to water your garden plants
- Use a layer of organic mulch around trees and plants to reduce evaporation and weed growth.
- Consider planting drought resistant plants and grass to reduce the need of watering.
- Use a broom instead of a hose to clean your driveway or sidewalk.
- Adjust your mower to a higher setting. Longer grass improves root systems and holds soil moisture

## Drought Management During Peak Season

The Water Department has drought management signs throughout the Harwich Community. During peak season please refer to the signs around town as well as notices on our website for drought notification. We continue to encourage our customers to be diligent in conserving water even if the supply is abundant. It is important to keep in mind that the average person uses 80-100 gallons of water per day on the following activities:

Bathing & Hygiene	15 gallons per day	Kitchen	7 gallons per day
Housekeeping	1 gallon per day	Laundry	8 gallons per day
Irrigation/Watering	70 gallons per day	Toilet	19 gallons per day

To review your metered water bill, divide your water usage by the number of days in the billing period (approximately 90 days) and by the number of residents of your household to determine your average.

Month/Year March 2021

PWS No. 4126000

## Monthly Pumpage Report Harwich Water Department

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	64,259	58,744	48,177	107,484	75,273	93,341	145,722	49,294	51,900	49,408	51,406	48,371	161,021	52,941
2	25,000	22,939	19,195	40,919	28,998	35,716	57,599	53,575	56,421	53,674	56,164	53,017	63,791	58,594
3	37,827	34,660	28,884	61,262	43,632	53,398	87,115	116,690	122,706	117,180	79,303	74,343	97,604	81,086
4	25,981	23,758	19,816	42,704	30,236	37,077	59,509	87,046	91,866	87,281	91,338	88,104	65,999	95,821
5	10,849	9,954	8,065	18,236	12,643	15,657	23,885	121,287	127,865	121,570	127,340	121,703	27,196	132,834
6	26,486	24,277	20,106	43,710	30,892	38,035	60,761	86,903	91,580	87,004	90,931	87,867	67,317	95,587
7	28,357	26,005	21,883	45,806	32,641	39,960	65,020	114,919	121,140	115,147	120,190	114,787	73,109	125,966
8	72,343	66,108	54,470	120,524	84,563	104,512	164,543	9,210	9,568	9,186	9,750	9,509	181,317	10,233
9	29,876	27,362	22,182	50,007	34,852	43,338	66,438	111,363	117,368	111,628	88,705	84,090	43,571	95,437
10	46,555	42,391	34,871	78,039	54,561	67,711	105,422	55,241	58,024	55,458	57,915	54,864	115,975	60,280
11	68,223	62,421	51,781	112,539	79,494	97,818	156,332	19,559	20,498	19,553	20,773	19,931	172,603	21,568
12	31,716	29,067	24,352	51,479	36,633	44,793	73,067	84,028	88,500	84,114	88,087	85,160	81,787	92,890
13	16,327	14,874	12,312	26,997	18,918	23,423	36,729	118,198	124,517	118,295	123,787	118,563	41,215	129,370
14	72,261	65,988	55,723	116,398	83,511	101,850	167,740	30,744	32,305	30,751	32,448	30,852	184,926	33,700
15	26,999	24,679	20,959	43,403	31,142	37,920	63,165	90,680	95,592	90,868	94,922	91,744	70,028	99,825
16	38,251	35,129	29,141	62,023	43,806	53,967	85,555	74,346	77,693	74,601	76,045	71,991	97,815	79,052
17	26,561	24,245	20,048	44,241	31,044	38,521	60,419	95,255	100,510	95,434	99,944	97,358	128,647	48,096
18	34,352	31,381	26,018	57,183	39,948	49,678	77,506	72,203	76,073	72,335	75,555	72,813	86,878	79,223
19	45,661	41,693	34,855	75,075	53,063	65,500	104,426	81,769	86,209	81,972	85,608	82,612	116,014	89,777
20	16,710	15,246	12,276	28,415	19,563	24,624	36,738	120,296	126,726	120,409	125,950	108,885	40,951	131,749
21	62,930	57,407	46,764	105,862	73,781	92,042	141,131	34,555	36,298	34,692	36,369	35,337	156,865	38,223
22	27,796	25,350	20,990	45,988	32,407	40,194	63,199	93,341	98,400	93,519	97,764	94,602	70,067	102,605
23	27,703	25,260	20,845	45,899	32,322	40,080	63,103	84,244	88,784	84,368	88,460	85,428	69,793	92,743
24	28,243	25,752	21,345	46,680	32,923	40,784	64,512	96,287	101,558	96,399	100,922	97,614	71,423	96,745
25	0	0	0	0	0	0	0	151,244	159,313	151,484	164,213	157,688	0	171,892
26	34,524	31,481	26,018	57,211	40,097	49,718	78,062	70,999	74,811	71,236	74,560	72,166	87,734	79,859
27	26,011	23,716	19,865	42,755	30,307	37,460	59,868	125,794	132,504	126,131	131,537	125,352	66,270	137,086
28	27,412	24,990	20,807	45,274	31,887	39,347	62,655	96,622	101,912	96,906	101,249	98,219	69,470	106,426
29	27,733	25,291	21,031	45,674	32,292	39,979	63,596	93,518	98,648	93,693	97,890	94,877	70,381	102,887
30	35,186	32,128	26,732	58,169	40,982	50,798	80,232	68,014	71,624	68,159	71,229	68,583	109,731	74,840
31	37,776	34,516	29,014	61,641	43,762	53,876	86,907	94,354	99,199	94,304	98,745	94,444	96,994	94,152
<b>Pumps :</b>	1,079,906	986,815	818,526	1,781,598	1,256,172	1,551,119	2,460,957	2,601,578	2,740,112	2,606,759	2,659,099	2,540,874	2,786,492	2,711,487
<b>MIN :</b>	0	0	0	0	0	0	0	9,210	9,568	9,186	9,750	9,509	0	10,233
<b>MAX :</b>	72,343	66,108	55,723	120,524	84,563	104,512	167,740	151,244	159,313	151,484	164,213	157,688	184,926	171,892
<b>STATIONS :</b>	<b>9,935,092</b>							<b>7,948,450</b>			<b>5,199,973</b>		<b>2,786,492</b>	<b>2,711,487</b>
<b>TOTAL:</b>	<b>28,581,494</b>													

Month/Year March 2020

PWS No. 4126000

## Monthly Pumpage Report Harwich Water Department

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	74,597	75,019	54,017	133,104	89,123	109,590	163,866	0	0	0	0	0	180,123	0
2	0	0	0	0	0	0	0	167,584	176,868	167,796	175,659	0	0	184,708
3	5,090	5,194	3,862	8,708	5,752	7,161	10,719	157,591	166,312	157,691	164,564	0	0	173,265
4	78,956	79,107	57,412	140,273	94,015	115,355	173,238	0	0	0	0	0	207,794	0
5	0	0	0	0	0	0	0	169,914	179,296	170,038	178,137	0	0	187,147
6	65,050	64,974	47,295	115,218	77,126	94,388	142,761	25,056	26,332	25,106	26,562	0	157,561	27,819
7	0	0	0	0	0	0	0	161,709	170,597	161,809	169,348	0	0	177,960
8	81,220	81,690	59,147	144,384	96,682	117,874	178,695	0	0	0	0	0	196,034	0
9	47,900	47,931	34,714	85,466	57,108	69,928	104,860	70,048	73,777	70,102	73,012	0	115,706	76,970
10	0	0	0	0	0	0	0	177,819	187,757	178,012	186,594	0	0	195,755
11	75,762	75,815	54,712	135,775	90,594	115,005	166,203	0	0	0	0	0	182,758	0
12	23,207	23,547	16,950	41,577	27,756	35,504	50,671	111,286	117,256	111,288	115,972	0	56,955	121,993
13	72,298	72,304	52,271	129,899	86,312	109,327	158,870	0	0	0	47,462	0	174,569	0
14	0	0	0	0	0	0	0	164,803	174,031	164,980	172,800	0	0	181,395
15	82,428	82,540	59,748	147,953	98,851	124,062	181,404	0	0	0	0	0	198,991	0
16	0	0	0	0	0	0	0	191,511	202,055	191,714	173,335	11,700	0	210,852
17	0	0	0	0	0	0	0	132,781	139,937	132,919	139,453	143,769	37,708	146,092
18	70,730	70,988	51,356	126,593	84,938	104,529	154,974	0	0	0	0	0	170,502	34,815
19	44,140	44,370	31,972	78,722	52,504	63,904	96,923	84,477	89,102	84,661	112,783	116,180	140,782	93,038
20	74,720	74,872	54,241	133,396	89,324	110,717	164,162	0	0	0	0	0	180,343	0
21	28,739	28,834	21,052	51,338	34,300	42,822	62,848	100,582	106,105	100,742	105,131	108,834	69,961	110,561
22	58,304	57,147	41,426	100,930	67,561	82,190	124,428	96,915	102,128	96,690	102,018	104,733	134,451	106,734
23	16,571	18,512	13,353	32,229	21,494	26,192	39,980	117,381	123,581	117,525	146,230	151,194	39,648	108,839
24	60,912	60,988	44,285	108,541	72,688	89,233	134,027	0	0	0	0	0	147,375	0
25	0	0	0	0	0	0	0	132,350	139,585	132,473	138,561	143,582	65,736	145,764
26	55,133	55,101	39,728	98,776	65,840	81,985	120,531	35,416	37,274	35,462	66,575	68,843	175,290	39,063
27	0	0	0	0	0	0	0	153,413	161,905	153,564	161,079	166,333	7,362	168,671
28	109,814	110,208	79,720	196,675	131,022	163,434	240,732	1,246	1,047	1,115	14,352	14,679	264,855	0
29	0	0	7	0	0	0	0	118,149	124,550	118,302	117,196	121,432	0	122,196
30	82,823	83,290	60,059	148,752	99,039	124,772	181,843	0	0	0	0	0	199,564	0
31	0	0	0	0	0	0	0	148,951	157,123	149,118	156,002	161,929	0	163,979
<b>Pumps :</b>	1,208,395	1,212,432	877,330	2,158,309	1,442,028	1,787,972	2,651,735	2,518,981	2,656,615	2,521,106	2,742,825	1,313,208	3,104,068	2,777,616
<b>MIN :</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MAX :</b>	109,814	110,208	79,720	196,675	131,022	163,434	240,732	191,511	202,055	191,714	186,594	166,333	264,855	210,852
<b>STATIONS :</b>	11,338,201							7,696,702			4,056,033		3,104,068	2,777,616
<b>TOTAL:</b>	28,972,620													

Date March 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		0.46	49	34	42		
2		0.00	35	21	28		
3		0.00	45	25	35		
4		0.00	44	32	38		
5		0.00	38	27	33		
6		0.00	37	26	31		
7		0.00	34	23	29		
8		0.00	40	22	31		
9		0.00	54	34	44		
10		0.00	46	30	38		
11		0.00	51	38	45		
12		0.00	60	41	50		
13		0.00	47	35	41		
14		0.00	50	29	40		
15		0.00	30	21	26		
16		0.00	36	23	29		
17		0.00	43	32	38		
18		1.09	45	39	42		
19		0.27	42	28	35		
20		0.00	45	27	36		
21		0.00	53	29	41		
22		0.00	52	30	41		
23		0.00	59	36	48		
24		0.00	54	35	44		
25		0.00	58	46	52		
26		0.00	55	46	50		
27		0.00	56	43	50		
28		0.71	54	42	48		
29		0.12	55	40	47		
30		0.00	50	32	41		
31		0.00	60	46	53		
<b>Total</b>		<b>2.65</b>					
<b>Average</b>		<b>0.09</b>	<b>47.6</b>	<b>32.6</b>			
<b>Max</b>		<b>1.09</b>	<b>59.9</b>	<b>46.1</b>			
<b>Min</b>		<b>0.0</b>	<b>30.0</b>	<b>20.5</b>			

Date March 2020  
 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	36	27	32		
2		0.00	47	24	35		
3		0.00	54	44	49		
4		0.12	54	38	46		
5		0.00	51	37	44		
6		0.00	48	32	40		
7		0.21	38	29	33		
8		0.00	47	29	38		
9		0.00	53	40	47		
10		0.00	54	42	48		
11		0.00	53	41	47		
12		0.00	47	33	40		
13		0.19	52	41	47		
14		0.00	54	39	47		
15		0.00	48	31	39		
16		0.00	39	29	34		
17		0.37	45	35	40		
18		0.00	50	34	42		
19		1.06	47	43	45		
20		0.00	51	43	47		
21		0.00	52	32	42		
22		0.00	39	29	34		
23		0.61	45	28	37		
24		0.42	46	37	41		
25		0.00	43	38	41		
26		0.00	49	36	43		
27		0.00	58	38	48		
28		0.11	51	33	42		
29		0.39	45	42	44		
30		0.04	45	39	42		
31		0.00	42	34	38		
<b>Total</b>		<b>3.52</b>					
<b>Average</b>		<b>0.11</b>	<b>47.8</b>	<b>35.4</b>			
<b>Max</b>		<b>1.06</b>	<b>58.4</b>	<b>43.7</b>			
<b>Min</b>		<b>0.0</b>	<b>36.2</b>	<b>24.3</b>			