

**BOARD OF WATER & WASTEWATER COMMISSIONER'S  
MEETING AGENDA\***  
**Harwich Water Department, 196 Chatham Road, Harwich MA**  
*Thursday, February 22, 2024*  
*11:30 a.m.*

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

- I. CALL TO ORDER
- II. EXECUTIVE SESSION
- III. PUBLIC COMMENTS / ANNOUNCEMENTS
- IV. CONSENT AGENDA
  - A. Minutes
    - 1. January 4, 2024
    - 2. February 1, 2024
- V. ABATEMENTS
  - A. 46 Cross St
- VI. OLD BUSINESS
- VII. NEW BUSINESS
  - A. Capital Plan Debt Projections
  - B. FY25 Water Rates
  - C. Garden Club Water Bill Insert
- VIII. SUPERINTENDENT'S REPORT
- IX. COMMISSIONER'S REPORT
- X. CORRESPONDENCE / ANY OTHER BUSINESS
- XI. NEXT MEETING: TBD
- XII. ADJOURNMENT

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

Authorized Posting Officer:

Town Posting Date: \_\_\_\_\_

Tracey Alves | Board Secretary

\_\_\_\_\_ | Town Clerk

IV.

CONSENT AGENDA

A. Minutes

1. January 4, 2024
2. February 1, 2024

{ Hoping to  
have these  
ready for  
the A.M.

Thanks!

V. ABATEMENTS  
A. 46 Cross St

# 46 Cross St

**Form Name:** Abatement Application

**Date of Submission:** Mon, 22 Jan 2024 15:29:16 -0500

**Name of Applicant:**

**Mailing Address:**

**City/Town:**

**State:**

**Zip/Postal Code:**

**Phone Number:**

**Mobile Phone Number:**

**Email Address:**

**Date of Water Use Charge:** 1 February 2024

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

**Location and Description of Property:** 46 Cross St, Harwich Port, MA 02646

Rear external faucet/outside house

**Total Amount Assessed:** 3665.00

**Total Amount Requested:** 1,800.00

**Reason For Abatement Request:** I would like to dispute this bill.

There was a pipe that burst which obviously caused a huge leak, unbeknownst to me.

I received a call from yourselves 2 weeks ago and immediately fixed the issue.

Why it took 3-4 months to notice this and conta

**SUBSCRIBED THIS DAY UNDER PENALTIES OF PERJURY:** 22 January 2024

**AGREE?:** Checked

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

Accounts

Account: 00770

16 CROSS ST.

1/31/24 ABATEMENT MISSED AGENDA FOR 2/1/24. EMAILED THAT BOWWC WILL REVIEW ON 2/15/24

1/22/24 BOWWC WILL REVIEW ON 2/1/24

1/22/24 ABATEMENT REQUEST RECEIVED. REASON "why it took 3-4 months to notice this and contact me is why Im disputing"

1/22/24 CUSTOMER EMAILED RE: ABATEMENT PROCESS.

1/6/24 CUSTOMER SENT IN AN EMAIL ABOUT HIS BURST PIPE. / PROVIDED HIM WITH ABATEMENT INFO AND UPDATED PHONE NUMBER.

12/21/23 HIGH READ ON BILLING REPORT. OBTAINED NUMBER FROM THE IC PORTAL. THE PORTAL ALSO HAS THE SAME HOTMAIL EMAIL ACCOUNT AND HAS BEEN CLICKED THROUGH IN THE PAST FEW MONTHS. SPOKE WITH OWNER AND OFFERED TO SHUT WATER OFF AT ROAD. HE ASKED US TO KEEP IT ON AND HE WILL SEND HIS PLUMBER OVER. HE MENTIONED THAT HIS SISTER(?) WENT TO THE HOUSE A WHILE AGO AND COULD HEAR HISSING. WE PROVIDED HIM WITH THE ON-CALL NUMBER IF HE CHANGES HIS MIND. HE GAVE US ANOTHER EMAIL FOR THE ACCOUNT. DATA LOG REPORT IN FILE. WM

10/20/23 ON CONTINUOUS LEAK REPORT. SENT COURTESY EMAIL. PHONE DISCONNECTED. WM  
1/3/23 "CONTINUOUS LEAK" ON BILLING REPORT. SENT COURTESY EMAIL. WM

3/30/22 OWNER FOUND A LEAK LAST WEEK AND FIXED PER EMAIL.

3/29/22 "CONTINUOUS LEAK" ON ECODER REPORT. SENT COURTESY EMAIL.

10/20/21 "CONTINUOUS LEAK" ON ECODER REPORT. SENT COURTESY EMAIL. WM

6/27/19 "CONTINUOUS LEAK" ON TEST BILL REPORT. SENT COURTESY EMAIL. WM

1/9/19 SENT COURTESY EMAIL. "CONTINUOUS LEAK" ON ECODER REPORT / PIPE BURST IN NOVEMBER. OWNER IS AWARE. WM

10/2/18 "CONTINUOUS LEAK" ON ECODER REPORT

3/21/18 "CONTINUOUS LEAK" ON ECODER REPORT. SENT COURTESY EMAIL. WM

11/8/17 CHANGED METER. 2657500

11/2/17 METER CHANGE SET FOR 11/8 AM VIA EMAIL. WILL MEET CARETAKER TOM JOHNSON 508-241-1218. WM

5/28/15 OWNER ASKED US TO APPLY OVERPAYMENT TO ACCOUNT. WM

5/27/15 RECEIVED ANOTHER \$80.00 CHECK. IT IS IN FRONT DESK MAILBOX IN ENVELOPE. LEFT A MESSAGE ON TELEPHONE VM THAT HE ALREADY HAS A CREDIT ON ACCOUNT. WHAT TO DO WITH CHECK?!

1/21/15 SENT EMAIL RE: CHECK RECEIVED FOR \$80.00. TA

12/12/14 RECEIVED CHECK FOR \$80.00? LEFT MESSAGE. WM

11/24/14 MARKED WATER

10/16/14 MARKOUT PROPERTY PER CHASE AND MERCHANT FOR SEPTIC INSTALL. (NOTES WILL BE IN BOTH ACCOUNTS. WORK ORDER WILL BE DONE UNDER ACCOUNT 08813) TA

2/4/14 FINAL READ 1547000. TA

2/3/14 FINAL READ REQUEST. (APPLY \$80 TRANSFER FEE TO THIS ACCOUNT). TA

5/3/11 CHANGED MAILING ADDRESS PER ASSESSORS OFFICE.AB

4/12/11 CHANGED MAILING ADDRESS PER ASSESSORS OFFICE.AB

DATE	CODE	READING	USAGE	AMOUNT	BALANCE
05/13/2005	1			50.00-	.00
04/14/2005	10	1042000	14000	50.00	50.00
11/29/2004	1			57.00-	.00
10/14/2004	10	1028000	19000	57.00	57.00

# TOWN OF HARWICH - LIVE DATA



## ACCOUNT SUMMARY

AR Category: 60

Form Type: A ACCOUNT DETAIL

Account # Location	Customer Name	Date	Bill#	P. Service #	Type	Parcel	Interest Due Curr Read #	Usage	Ending Balance Amount	Total Due
00770 46	CROSS ST	85783			HP MA 02645	14/C11-R		.00	2753.92	2753.92
		12/29/2023	510800		1WATER-001 Charge		2176000	447000	2753.72	
		11/10/2023	500256		1WATER-001 Pmt Pr	BANK XFER			-1188.64	
		09/29/2023	500256		1WATER-001 Charge		1729000	199000	1188.84	
		07/16/2023	489611		1WATER-001 Pmt Pr	BANK XFER			-387.47	
		06/30/2023	489611		1WATER-001 Charge		1530000	72000	387.47	
		05/11/2023	479175		1WATER-001 Pmt Pr	BANK XFER			-73.88	
		04/10/2023	479175		1WATER-001 Charge		1458000	14000	73.88	
		02/15/2023	468684		1WATER-001 Pmt Pr	CHECK	Chk/Ref # 3845		-254.96	
		12/30/2022	468684		1WATER-001 Charge		1444000	51000	254.96	
		11/05/2022	458267		1WATER-001 Pmt Pr	BANK XFER			-639.87	
		09/26/2022	458267		1WATER-001 Charge		1393000	112000	639.87	
		07/13/2022	447605		1WATER-001 Pmt Pr	BANK XFER			-585.97	
		06/30/2022	447605		1WATER-001 Pmt Pr				-61.82	
		06/30/2022	447605		1WATER-001 Charge		1281000	118000	647.79	
		06/30/2022	437001		1WATER-001 Pmt Pr				61.82	
		03/31/2022	437001		1WATER-001 Pmt Pr				-191.03	
		03/31/2022	437001		1WATER-001 Charge		1163000	28000	129.21	
		03/31/2022	426644		1WATER-001 Pmt Pr				191.03	
		01/31/2022	426644		1WATER-001 Pmt Pr	BANK XFER			-191.03	
		01/30/2022	426644		1WATER-001 Pmt Pr	BANK XFER			-191.03	
		12/30/2021	426644		1WATER-001 Charge		1135000	42000	191.03	
		10/15/2021	416194		1WATER-001 Pmt Pr	BANK XFER			-755.97	
		10/01/2021	416194		1WATER-001 Charge		1093000	136000	755.97	
		07/23/2021	405752		1WATER-001 Pmt Pr	BANK XFER			-134.97	
		06/29/2021	405752		1WATER-001 Charge		957000	33000	134.97	
		04/06/2021	395210		1WATER-001 Pmt Pr	BANK XFER			-61.22	
		04/02/2021	395210		1WATER-001 Charge		924000	14000	61.22	
		03/02/2021	384757		1WATER-001 Pmt Pr	BANK XFER			-112.68	
		01/15/2021	384757		1WATER-001 Pmt Pr	BANK XFER			-215.82	
		12/31/2020	384757		1WATER-001 Charge		910000	69000	328.50	
		01/15/2021	373859		LFEE -001 Pmt Pr	BANK XFER			-25.00	
		01/15/2021	373859		1WATER-001 Pmt Pr	BANK XFER			-259.18	
		12/11/2020	373859		LFEE -001 Penlty				25.00	
		11/27/2020	373859		1WATER-001 Pmt Pr	BANK XFER			-500.00	
		10/16/2020	373859		1WATER-001 Pmt Pr	BANK XFER			-250.00	
		09/30/2020	373859		1WATER-001 Charge		841000	188000	1009.18	
		07/09/2020	363433		1WATER-001 Pmt Pr	BANK XFER			-190.78	
		06/26/2020	363433		1WATER-001 Pmt Pr				-69.08	
		06/26/2020	363433		1WATER-001 Charge		653000	57000	259.86	
		06/26/2020	353176		1WATER-001 Pmt Pr				69.08	
		06/08/2020	353176		1WATER-001 Pmt Pr	BANK XFER			-125.00	
		05/01/2020	353176		1WATER-001 Revers	BANK XFER			55.92	
		04/27/2020	353176		1WATER-001 Pmt Pr	BANK XFER			-55.92	
		04/17/2020	353176		1WATER-001 Charge		596000	12000	55.92	
		01/31/2020	342863		1WATER-001 Pmt Pr	BANK XFER			-202.66	
		01/09/2020	342863		1WATER-001 Charge		584000	47000	202.66	
		11/10/2019	332406		1WATER-001 Pmt Pr	BANK XFER			-717.86	
		10/26/2019	332406		1WATER-001 Pmt Pr	BANK XFER			-400.00	
		10/04/2019	332406		1WATER-001 Charge		537000	207000	1117.86	

- VII. NEW BUSINESS
- A. Capital Plan Debt Projections

**Five Year Capital Outlay Plan  
FY 2025 to 2029 DRAFT**

FY25 - FY29 Capital Outlay Plan - Adopted 11-2-23							
Department	Title	FY2025	FY2026	FY2027	FY 2028	FY 2029	Five Year Total
Water Department	Vehicle replacements	270,000					<b>270,000</b>
	<i>Truck 12 Replacement - F-150 ext. Cab</i>	60,000					
	<i>Auxiliary Service Truck - F-350/450 w/ onboard air &amp; inverter</i>	150,000					
	<i>Vehicle 15 Replacement - F-150 Crew Cab</i>	60,000					
Water Department	Equipment replacements - <i>Purchase Loader</i>	232,000					<b>232,000</b>
Water Department	Paint Pleasant Lake Ave. tank	1,750,000					<b>1,750,000</b>
Water Department	Well Rehabilitation	150,000					<b>150,000</b>
Water Department	Pipe discontinuity upgrade - <i>Mill Rd &amp; Harbor Rd</i>		1,500,000				<b>1,500,000</b>
Water Department	New Well Construction & Water Treatment Plant Upgrades			3,500,000			<b>3,500,000</b>
Water Department	196 Chatham Road Improvements - Space Building/Garage				1,500,000		<b>1,500,000</b>
	<b>Water Department</b>	<i>2,672,000</i>	<i>1,500,000</i>	<i>3,500,000</i>	<i>1,500,000</i>	<i>0</i>	
Wastewater Department	Collections System Improvements	75,000					<b>75,000</b>
Wastewater Department	Vehicle Replacement		65,000				<b>65,000</b>
	<b>Wastewater Department</b>	<i>75,000</i>	<i>65,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	



**Town of Harwich, Massachusetts**  
**Actual/Authorized/Proposed Debt Service**  
**Actual Debt Service as of June 30, 2022, Including Subsequent MCWT Loan**

Date of Issue	Purpose	Type of Payment	2025	2026	2027	2028	2029
3/15/2010	Water Treatment Plant (O)	Principal	75,000.00	75,000.00	75,000.00	75,000.00	75,000.00
		Interest	17,437.50	14,812.50	12,000.00	9,000.00	6,000.00
10/1/2011	Greensand Water Treatment Facility (O)	Principal	130,000.00	130,000.00	130,000.00	130,000.00	130,000.00
		Interest	54,177.50	50,440.00	46,540.00	42,640.00	38,577.50
10/30/2012	Adv Ref of Mar 15 05 - Water Storage Tank (O)	Principal	100,000.00	100,000.00	95,000.00	95,000.00	95,000.00
		Interest	21,881.26	19,631.26	17,437.51	15,300.01	12,984.38
2/21/2018	MCWT DWP-13-02 (O) Revised	Principal	90,095.23	92,053.17	94,054.04	96,097.85	98,186.58
		Interest	24,404.26	22,602.36	20,761.30	18,880.22	16,958.26
		MCWT Fees	1,830.32	1,695.18	1,557.10	1,416.02	1,271.87
2024	Rte 28 Water Main Replacement 1 (O) 30 yr Bonds 6/1/2024 - level debt \$3,865,000	Principal	70,000.00	70,000.00	75,000.00	80,000.00	80,000.00
		Interest	154,600.00	151,800.00	149,000.00	146,000.00	142,800.00
		BAN Interest	-	-	-	-	-
2025	Rte 28 Water Main Replacement 2 (O) 30 yr Bonds 6/1/2025 - level debt \$4,230,000	Principal	-	75,000.00	80,000.00	80,000.00	85,000.00
		Interest	-	169,200.00	166,200.00	163,000.00	159,800.00
		BAN Interest	-	-	-	-	-
2025	Pleasant Lake Ave Water Tank Improvements (O) 10 yr Bonds 7/15/2024 - equal principal \$1,750,000	Principal	-	175,000.00	175,000.00	175,000.00	175,000.00
		Interest	35,000.00	66,500.00	59,500.00	52,500.00	45,500.00
		BAN Interest	-	-	-	-	-
2026	Pipe Discontinuity Upgrade (O) 20 yr Bonds 7/15/2025 - equal principal \$1,500,000	Principal	-	-	75,000.00	75,000.00	75,000.00
		Interest	-	-	-	-	-
		BAN Interest	-	-	-	-	-
2027	New Well Construction (O) 20 yr Bonds 7/15/2026 - equal principal \$3,500,000	Principal	-	-	-	175,000.00	175,000.00
		Interest	-	-	-	-	-
		BAN Interest	-	-	-	-	-
2028	Water - 196 Chatham Rd Improvements (O) 15 yr Bonds 7/15/2027 - equal principal \$1,500,000	Principal	-	-	-	-	100,000.00
		Interest	-	-	-	-	-
		BAN Interest	-	-	-	-	-

**Annual Debt Service Payments (WTR)    774,426    1,213,734    1,272,050    1,429,834    1,512,079**

VII. NEW BUSINESS  
B. FY25 Water Rates

# MEMORANDUM



Harwich Water & Wastewater  
Department

196 Chatham Road

Harwich MA 02645

P: 508-432-0304

F: 888-774-3557

[www.harwichwater.com](http://www.harwichwater.com)

**To:** Board of Water & Wastewater Commissioners  
**From:** Dan Pelletier, Water/Wastewater Superintendent  
**CC:**  
**Date:** February 21, 2024  
**RE:** FY25 Water Rates & Revenue Projections

In anticipation of the RT28 watermain replacement project and updated Capital Improvement Plan I have completed an evaluation of anticipated debt, revenue & expenses for FY25-FY29. It is apparent after completing this evaluation that an increase to the water rates will be necessary to support the new debt service payments. As such, I have prepared the following rate increase scenario that seeks to balance revenues & expenses through FY29. That said, where the department intends to pursue multiple CIP projects over the next several years, annual debt service payments will increase over time as well. As a result it is likely rate increases will need to occur more frequently to sustain the increasing debt payments.

Please consider the following rate scenario as a starting point for discussion:

	FY24	FY25	FY26	FY27	FY28	FY29
Base Rate	\$ 45.00	\$ 50.00	\$ 55.00	\$ 58.00	\$ 64.00	\$ 64.00
Tier 1	\$ 1.42	\$ 1.42	\$ 1.56	\$ 1.56	\$ 1.56	\$ 1.56
Tier 2	\$ 2.92	\$ 2.92	\$ 3.21	\$ 3.21	\$ 3.21	\$ 3.21
Tier 3	\$ 4.35	\$ 4.35	\$ 4.79	\$ 4.79	\$ 4.79	\$ 4.79
Tier 4	\$ 6.31	\$ 6.31	\$ 6.94	\$ 6.94	\$ 6.94	\$ 6.94
FY25A - \$5 increase to base rate only						
FY26B - \$5 increase to base rate, 10% increase to Tier rates, reduce budgeted surplus to 7.5%						
FY27C - \$3 increase to Base Rate						
FY28D - \$6 increase to base rate						

FY25-FY29 Rate Scenario						
		FY25A	FY26B	FY27C	FY28D	
USAGE (GAL)	2024	2025	2026	2027	2028	2029
Q1	341,537,577	342,897,027	344,254,684	345,610,553	346,964,638	348,233,501.66
Q2	100,392,992	100,792,595	101,191,670	101,590,220	101,988,245	102,361,220.46
Q3	70,795,635	71,077,429	71,358,851	71,639,902	71,920,584	72,183,600.11
Q4	175,980,643	176,681,113	177,380,659	178,079,284	178,776,990	179,430,784.67
Total (GAL)	<b>688,706,847</b>	<b>691,448,163</b>	<b>694,185,864</b>	<b>696,919,958</b>	<b>699,650,458</b>	<b>702,391,655</b>
<b>RATES</b>						
Base Rate	\$ 45.00	\$ 50.00	\$ 55.00	\$ 58.00	\$ 64.00	\$ 64.00
Tier 1	\$ 1.42	\$ 1.42	\$ 1.56	\$ 1.56	\$ 1.56	\$ 1.56
Tier 2	\$ 2.92	\$ 2.92	\$ 3.21	\$ 3.21	\$ 3.21	\$ 3.21
Tier 3	\$ 4.35	\$ 4.35	\$ 4.79	\$ 4.79	\$ 4.79	\$ 4.79
Tier 4	\$ 6.31	\$ 6.31	\$ 6.94	\$ 6.94	\$ 6.94	\$ 6.94
<b>REVENUE (\$)</b>						
Q1	\$ 1,969,153	\$ 2,025,200	\$ 2,234,363	\$ 2,270,997	\$ 2,337,622	\$ 2,343,830.47
Q2	\$ 778,310	\$ 829,617	\$ 914,014	\$ 945,448	\$ 1,006,880	\$ 1,008,221.52
Q3	\$ 631,024	\$ 681,744	\$ 750,710	\$ 781,501	\$ 842,290	\$ 843,029.96
Q4	\$ 980,246	\$ 1,032,356	\$ 1,137,911	\$ 1,170,226	\$ 1,232,539	\$ 1,234,705.51
Rate Revenue	\$ 4,358,733	\$ 4,568,918	\$ 5,036,998	\$ 5,168,172	\$ 5,419,331	\$ 5,429,787
Non-Rate Revenue	\$ 751,442	\$ 886,515	\$ 886,515	\$ 886,515	\$ 886,515	\$ 886,515
Total Revenue	\$ 5,110,175	\$ 5,455,433	\$ 5,923,513	\$ 6,054,687	\$ 6,305,846	\$ 6,316,302
Expenses - New Debt	\$ 4,549,097	\$ 4,651,437	\$ 4,984,688	\$ 5,523,689	\$ 5,692,478	\$ 5,964,112
New Debt		\$ 240,222	\$ 439,308	\$ 58,315	\$ 157,784	\$ 82,244
Total Exp.	\$ 4,549,097	\$ 4,891,659	\$ 5,423,996	\$ 5,582,004	\$ 5,850,262	\$ 6,046,356
10% Budgeted Surplus	\$ 454,910	\$ 489,166	\$ 406,800	\$ 418,650	\$ 438,770	\$ 453,477
Revenue Goal	\$ 5,004,007	\$ 5,380,825	\$ 5,830,795	\$ 6,000,655	\$ 6,289,032	\$ 6,499,833
(+/-) Revenue Goal	106,168.10	74,607.96	92,717.66	54,031.94	16,813.82	(183,530.08)
Revenue Goal + 1%	\$ 5,054,047.10	\$ 5,434,633.15	\$ 5,889,103.37	\$ 6,060,661.38	\$ 6,351,922.28	\$ 6,564,830.86
Revenue Goal - 1%	\$ 4,953,966.96	\$ 5,327,016.65	\$ 5,772,487.47	\$ 5,940,648.28	\$ 6,226,141.64	\$ 6,434,834.21
Rates Only	\$ 2,389,579.70	\$ 2,543,717.62	\$ 2,802,635.10	\$ 2,897,174.82	\$ 3,081,708.58	\$ 3,085,956.99

- VII. NEW BUSINESS
  - C. Garden Club Water Bill Insert

## Dan Pelletier

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**From:** riodd@comcast.net  
**Sent:** Thursday, February 15, 2024 9:08 PM  
**To:** Dan Pelletier  
**Subject:** any chance for a reprisal?

Hi Dan,

Our Garden Club of Harwich Conservation Committee is on to its next big initiative after completing a year of planting trees. We're working with the DPW to get a foodscraps' program implemented at the Transfer station. We're hoping to get it up and running by June 1<sup>st</sup>. We're brainstorming ways that we could alert the public to this new and exciting development in Harwich. I'm reaching out to see whether it's at all possible to add a sheet to the water bill like we did last year that would explain the new program? We'd off course pay for it. You were so gracious about doing this last time for planting native plants. We don't want to impose on your generosity, but it would be a terrific way to reach townsfolk. What are your thoughts? Hope all is well. Regards, Diane DiGennaro, Chair, HGC Conservation Committee

X. CORRESPONDENCE / ANY OTHER BUSINESS

Month/Year January 2024

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	25,620	36,500	26,971	72,333	31,597	39,316	94,203	73,286	72,953	80,642	70,783	71,526	90,396	77,584
2	26,169	37,060	25,970	74,005	32,540	40,170	95,835	74,642	74,879	82,379	72,245	73,020	92,221	79,352
3	25,511	36,365	25,828	72,288	31,656	39,194	93,896	73,097	73,209	80,612	70,601	71,378	90,076	77,467
4	25,855	36,899	27,496	73,504	32,018	39,755	95,116	74,247	74,394	82,109	71,792	72,576	91,286	78,920
5	27,351	39,046	27,527	77,533	33,959	42,046	100,502	78,470	78,605	86,809	76,444	77,318	95,890	84,530
6	27,656	39,436	29,318	78,688	34,268	42,323	101,453	79,359	79,544	87,782	77,289	78,165	0	85,491
7	26,999	38,403	28,853	76,798	33,031	40,951	99,329	77,741	77,884	85,772	75,586	76,456	0	83,631
8	29,103	41,384	30,241	81,681	36,366	45,404	105,814	82,353	83,557	92,729	80,358	81,263	0	88,996
9	31,181	44,402	31,689	84,349	40,039	50,477	109,504	66,530	67,378	75,053	70,496	70,940	21,973	96,623
10	27,448	39,086	31,269	76,973	34,085	42,851	99,988	77,934	77,802	131,137	75,706	76,597	0	83,686
11	24,822	35,339	27,053	70,300	30,482	37,955	90,801	71,056	68,897	65,158	68,683	69,471	83,258	75,618
12	25,190	35,846	28,046	71,355	30,994	38,464	92,391	72,081	70,880	78,870	69,850	70,663	85,116	76,942
13	24,487	34,877	27,960	69,701	29,649	36,958	89,902	70,627	68,330	76,301	63,926	64,659	81,588	75,341
14	24,865	35,411	26,670	70,777	30,465	37,780	91,316	71,399	69,976	77,786	69,203	70,016	83,012	76,247
15	24,611	34,983	25,028	69,788	30,291	37,450	90,230	70,642	69,530	77,111	68,434	69,223	82,136	75,371
16	24,664	34,978	25,772	70,001	30,167	37,362	90,637	70,848	69,555	77,289	68,644	69,440	82,124	75,601
17	18,077	25,767	16,053	50,930	21,920	27,286	65,532	58,530	58,075	64,480	92,390	93,411	113,686	101,502
18	24,493	34,948	24,216	69,467	29,922	36,697	89,433	71,154	69,582	77,087	68,978	69,767	81,441	75,384
19	24,644	35,024	25,004	70,048	30,124	37,231	90,577	71,079	70,005	77,722	68,669	69,467	81,330	75,565
20	19,619	28,111	18,733	56,095	24,526	30,310	72,685	81,014	82,546	92,187	78,812	79,773	94,404	87,234
21	25,366	36,204	23,931	72,404	31,901	38,631	93,816	73,428	72,722	81,094	71,100	71,957	84,237	78,493
22	25,658	36,656	26,600	73,185	32,131	38,937	94,513	74,208	72,557	82,032	71,941	72,801	88,528	79,332
23	20,350	29,089	21,070	57,482	25,563	31,318	74,585	58,392	58,934	65,843	56,852	57,652	72,910	62,940
24	27,038	38,400	27,851	76,541	33,676	41,222	99,088	77,513	77,493	86,838	75,343	76,249	95,090	83,238
25	33,763	48,072	39,340	91,668	44,145	55,141	118,781	11,773	13,837	13,521	90,579	91,671	114,654	100,546
26	25,195	35,813	27,043	71,320	31,326	38,531	92,309	72,163	70,118	79,715	69,870	70,696	86,216	76,986
27	24,932	35,448	26,406	70,948	30,928	37,971	91,471	71,620	69,336	78,331	69,457	70,304	85,299	76,594
28	24,911	35,442	25,950	70,785	30,843	37,720	91,421	71,739	68,901	78,194	69,435	70,296	84,809	76,571
29	25,916	36,921	26,949	72,942	32,520	40,034	94,475	73,623	72,903	81,862	71,478	72,330	88,511	78,883
30	25,262	35,898	24,711	71,012	31,670	38,923	92,064	71,929	69,467	78,989	69,687	70,519	85,699	76,787
31	28,658	40,763	30,536	75,786	38,626	48,509	5,313	76,709	79,066	88,311	74,470	75,395	91,674	82,236
Pumps :	795,414	1,132,572	830,082	2,240,685	991,430	1,226,916	2,806,980	2,199,186	2,182,916	2,463,746	2,249,101	2,274,999	2,327,564	2,503,691
MIN :	18,077	25,767	16,053	50,930	21,920	27,286	5,313	11,773	13,837	13,521	56,852	57,652	0	62,940
MAX :	33,763	48,072	39,340	91,668	44,145	55,141	118,781	82,353	83,557	131,137	92,390	93,411	114,654	101,502
STATIONS :	10,024,079							6,845,847			4,524,100		2,327,564	2,503,691
TOTAL:	26,225,281													



Month/Year January 2023  
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	35,487	26	40,681	66,375	46,910	58,806	0	81,556	85,910	0	82,517	81,849	102,218	89,370	
2	53,298	24	61,496	98,295	69,849	87,141	0	124,210	130,702	0	124,763	123,740	154,994	134,574	
3	30,317	17,370	35,256	55,748	39,792	49,488	0	70,790	74,536	0	71,394	70,813	88,654	77,155	
4	31,882	33,720	37,212	58,442	41,842	52,079	0	74,721	78,667	0	75,505	74,902	93,530	81,687	
5	32,012	33,995	37,275	58,686	41,987	52,264	0	75,176	79,130	0	75,824	75,268	94,126	82,116	
6	49,018	52,090	57,244	88,229	63,648	78,881	0	116,844	122,916	0	117,002	116,099	142,841	126,051	
7	27,994	30,233	33,153	51,958	37,303	46,355	0	67,400	70,957	0	67,948	67,441	83,643	73,388	
8	31,515	33,596	36,813	58,997	42,309	52,441	0	75,497	79,541	0	76,242	75,666	94,317	82,661	
9	31,628	33,699	36,938	58,277	41,850	51,989	0	74,927	78,909	0	75,622	75,056	93,984	82,039	
10	42,377	44,509	47,748	77,568	55,668	69,206	0	79,785	83,657	0	84,948	84,249	108,428	77,014	
11	52,185	55,072	59,290	94,385	68,160	84,389	0	125,004	131,263	0	125,282	124,297	150,061	135,065	
12	26,036	27,625	30,399	47,142	34,012	42,173	0	62,181	65,429	0	62,406	61,918	76,409	67,381	
13	30,604	32,579	35,964	55,928	40,087	49,898	0	72,222	76,141	0	72,934	72,392	90,645	78,994	
14	32,139	33,966	37,321	58,804	42,164	52,458	0	75,828	79,917	0	76,508	75,969	95,078	83,045	
15	31,096	31,902	35,825	56,608	40,670	50,555	0	73,231	77,119	0	73,825	73,345	91,760	80,089	
16	49,427	51,278	56,113	88,486	63,916	79,092	0	118,035	124,154	0	118,110	117,276	146,356	127,441	
17	37,334	38,837	42,516	69,115	49,353	61,485	0	50,297	52,882	0	43,888	43,616	38,705	33,894	
18	32,003	33,758	37,157	58,514	41,966	52,221	0	75,191	79,203	0	75,781	75,295	94,269	82,278	
19	32,061	33,306	36,946	58,821	41,993	52,183	0	75,175	79,117	0	75,867	75,397	94,237	82,311	
20	35,479	37,538	41,055	64,370	46,180	57,511	0	84,186	88,374	0	85,232	84,712	105,742	92,329	
21	31,076	32,380	35,808	56,782	40,792	50,749	0	72,822	76,736	0	73,375	72,939	91,321	79,717	
22	49,500	51,637	56,511	89,050	64,388	79,838	0	117,757	123,829	0	117,769	116,967	143,365	127,034	
23	24,936	26,326	29,035	45,626	32,647	40,702	0	58,309	61,371	0	58,907	58,566	73,218	63,880	
24	32,593	33,801	37,141	59,758	42,837	53,355	0	76,120	80,141	0	76,904	76,424	95,459	83,421	
25	31,512	32,545	35,609	57,686	41,393	51,522	0	73,783	77,721	0	74,351	73,902	92,395	80,811	
26	48,544	51,190	56,927	87,483	63,120	78,409	0	115,652	121,621	0	115,753	115,011	139,958	124,930	
27	26,204	27,434	30,323	47,490	34,092	42,391	0	61,981	65,277	0	62,218	61,841	75,329	67,324	
28	30,962	32,424	35,968	56,601	40,556	50,482	0	72,757	76,839	0	73,413	72,970	90,319	79,542	
29	32,584	33,735	37,666	59,882	42,976	53,522	0	76,668	80,797	0	77,329	76,846	95,630	83,933	
30	32,173	33,679	37,397	59,254	42,505	52,816	0	75,780	79,866	0	76,534	76,080	95,055	83,079	
31	31,289	32,796	36,295	57,279	41,109	51,160	0	73,503	77,421	0	74,754	74,361	92,520	81,240	
<b>Pumps:</b>	1,066,263	1,043,070	1,265,082	2,001,441	1,436,077	1,785,590	0	2,527,365	2,659,644	0	2,642,905	2,525,207	3,124,566	2,723,793	
<b>MIN:</b>	24,936	24	29,035	45,626	32,647	40,702	0	50,297	52,882	0	43,888	43,616	38,705	33,894	
<b>MAX:</b>	53,298	55,072	61,496	98,295	69,849	87,141	0	125,004	131,263	0	125,282	124,297	154,994	135,065	
<b>STATIONS:</b>	8,826,489							5,187,330				5,085,112		3,124,566	2,723,793
<b>TOTAL:</b>	24,730,290														

Date January 2024  
 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	40	29	34		
2		0.00	38	27	32		
3		0.00	41	26	33		
4		0.00	42	32	37		
5		0.00	35	27	31		
6		0.03	39	24	31		
7		1.46	41	33	37		
8		0.00	36	27	31		
9		0.11	45	25	35		
10		1.37	52	43	48		
11		0.00	47	38	42		
12		0.00	47	33	40		
13		1.24	55	41	48		
14		0.00	44	31	38		
15		0.01	36	26	31		
16		0.87	45	31	38		
17		0.00	32	23	28		
18		0.00	33	20	27		
19		0.05	34	26	30		
20		0.02	27	20	23		
21		0.00	28	19	23		
22		0.00	37	20	29		
23		0.04	42	35	39		
24		0.28	42	34	38		
25		0.42	52	42	47		
26		0.40	44	41	43		
27		0.00	42	34	38		
28		0.95	41	35	38		
29		0.10	40	33	37		
30		0.00	34	28	31		
31		0.00	35	29	32		
<b>Total</b>		<b>7.35</b>					
<b>Average</b>		<b>0.24</b>	<b>40.2</b>	<b>30.0</b>			
<b>Max</b>		<b>1.46</b>	<b>54.7</b>	<b>43.0</b>			
<b>Min</b>		<b>0.0</b>	<b>27.1</b>	<b>19.2</b>			

Date January 2023  
 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		1.22	57	44	50		
2		0.00	48	35	42		
3		0.00	50	33	42		
4		0.34	50	46	48		
5		0.25	48	46	47		
6		0.00	46	41	44		
7		0.04	44	38	41		
8		0.00	39	32	35		
9		0.00	41	32	37		
10		0.00	43	29	36		
11		0.00	41	31	36		
12		0.33	47	36	42		
13		1.42	52	46	49		
14		1.22	47	38	42		
15		0.83	38	34	36		
16		0.52	38	35	36		
17		0.03	44	32	38		
18		0.00	51	39	45		
19		0.00	42	36	39		
20		1.25	43	38	41		
21		0.20	38	33	36		
22		0.00	45	31	38		
23		1.41	51	35	43		
24		0.00	41	31	36		
25		0.23	46	30	38		
26		1.75	51	40	46		
27		0.07	43	30	36		
28		0.00	49	31	40		
29		0.00	48	35	41		
30		0.00	49	37	43		
31		0.00	42	31	36		
<b>Total</b>		<b>11.11</b>					
<b>Average</b>		<b>0.36</b>	<b>45.5</b>	<b>35.8</b>			
<b>Max</b>		<b>1.75</b>	<b>56.6</b>	<b>46.4</b>			
<b>Min</b>		<b>0.0</b>	<b>37.5</b>	<b>29.5</b>			