

TOWN OF HARWICH
BOARD OF WATER COMMISSIONER'S AGENDA*
Conference Room, Harwich Water Department
196 Chatham Road, Harwich, MA
Tuesday, April 9, 2019, 10:00 a.m.

- I. CALL TO ORDER
- II. PUBLIC COMMENTS/ANNOUNCEMENTS
- III. CONSENT AGENDA
 - A. Minutes
 - 1. March 28, 2019
- IV. ABATEMENTS
 - A. 560a Route 28 - Meter Test Results Included
 - B. FY19 3rd Quarter Internal Adjustments – *vote to approve*
- V. OLD/UNFINISHED BUSINESS
- VI. NEW BUSINESS
 - A. Access Roads Paving
 - B. Pump Station 4
 - C. Lothrop Avenue Directional Drilling Bid
 - D. FY19 3rd Quarter Budget
- VII. SUPERINTENDENT'S REPORT
- VIII. COMMISSIONER'S REPORT
- IX. CORRESPONDENCE/ANY OTHER BUSINESS
- X. NEXT MEETING: Friday, April 26, 2019 at 10:00 a.m.
- XI. ADJOURNEMENT

**Per the Attorney General's Office: The Board of Water Commissioners may hold an open session for topics not reasonably anticipated by the Chair 48 hours in advance of the meeting following "New Business."*

If you are deaf or hard of hearing or are a person with a disability who requires an accommodation, contact the Water Department Office at 508-432-0304 x.0 or by email at customerservice@harwichwater.com

Authorized Posting Officer:

Tracey Alves

Tracey Alves, Board Secretary

Posted By: _____

Town Clerk

Date: _____

MUST BE FILED WITH THE HARWICH BOARD OF WATER COMMISSIONERS NO LATER THAN THE DUE DATE OF FIRST ACTUAL (NOT PRELIMINARY) TAX PAYMENT FOR FISCAL YEAR OF WHICH THE WATER CHARGE BECAME A PART.

THE COMMONWEALTH OF MASSACHUSETTS
TOWN OF HARWICH
APPLICATION FOR ABATEMENT
WATER CHARGE

RECEIVED: _____
ACCOUNT # _____
BILL # _____

To the Board of Water Commissioners:

NAME OF APPLICANT: _____

MAILING ADDRESS: _____

PHONE: 508-430-0437

EMAIL ADDRESS: _____

MOBILE: 508 237-1626

The named person assessed by a water charge dated _____ hereby applies for abatement.

NAME OF PERSON ASSESSED (OWNER): _____

PROPERTY LOCATION: 560 A Rt. 28 HARWICH PORT MA. 02646

TOTAL AMOUNT ASSESSED \$ 208.38 TOTAL AMOUNT REQUESTED \$ 120.00

CHECK IF REQUEST IS FOR WATER USAGE AMOUNT REQUESTED \$ 120.00

CHECK IF REQUEST IS FOR LATE FEE AMOUNT REQUESTED \$ _____

CHECK IF REQUEST IS FOR OTHER AMOUNT REQUESTED \$ _____

REASON FOR ABATEMENT REQUEST (ATTACH ADDITIONAL SHEET IF NECESSARY)

*Unreasonably High Water Bill for that period.
Tested Toilet with Tablets - No leakage
check under space for water leakage - No leakage
no outdoor water hook ups*

SUBSCRIBED THIS DAY OF 3/7/2011 UNDER PENALTIES OF PERJURY.

SIGNATURE OF APPLICANT _____
NAME IN FULL

THE FILING OF THIS APPLICATION DOES NOT STAY THE COLLECTION OF THE CHARGE. CHARGE SHOULD BE PAID AS ASSESSED. REFUND WILL FOLLOW IF ABATEMENT IS ALLOWED. 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.

RECOMMENDATION: APPROVE DENY

BOARD OF WATER COMMISSIONERS

DATE

SIGNATURE:

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TOWN OF HARWICH - LIVE DATA
UB Consumption History Report

P 1
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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
03360	97873			14/S8-E			560 ROUTE 28 HP #A		Active
1WATER-	1 WTR USAGE		I 03/08/2019			0	0	.00	.00
1WATER-	1 WTR USAGE N	87714738	A 12/28/2018		303754	121,000	48,000	0	208.38
1WATER-	1 WTR USAGE N	87714738	A 09/28/2018		293266	73,000	39,000	0	158.67
1WATER-	1 WTR USAGE N	87714738	A 06/27/2018		282979	34,000	1,000	0	1.29
1WATER-	1 WTR USAGE N	87714738	A 03/05/2018		272322	33,000	15,000	0	89.35
1WATER-	1 WTR USAGE N	87714738	A 09/05/2017		261536	18,000	4,000	0	75.16
1WATER-	1 WTR USAGE N	87714738	A 03/06/2017		250670	14,000	0	0	70.00

** END OF REPORT - Generated by Tracey **

**REGAN SUPPLY
& TESTING SERVICE**

P.O. Box 1392 South Dennis, MA 02660
(508) 583-5018

ReganST@comcast.net

Location Harwich Water Dept.
#3360-560 RT 28

Name _____
Phone _____

Date 3/22/2019
Line Size _____
Meter Size 5/8" x 3/4"
Mfg. Neptune
Type T-10
Number 87714738
Pressure 70±
By Pass _____
Test Valve portable test bench

WATER METER TEST REPORT

VOLUME	RATE G.P.M.	FIRE LINE	TURBINE	POS. DISPLACE	ACCURACY %	
10	1/2			10.025	100.250	
10	2			10.125	101.250	
100	15			101.100	101.100	

REGISTRATION

Fire Line _____
Turbine _____
Pos. Displace 0121430
Registration 10 gallons

BY THIS HAND AND SEAL WE CERTIFY
THIS TO BE A TRUE COPY OF THE
TEST RESULTS.

COMMENT: All tests within A.W.W.A. accuracy limits.

Joseph R. Bell
X _____

Accounts

Account: 03360

- 560 ROUTE 28 HP (4/19/16 PER ENGINEERING THIS PROPERTY GOES BY
560A ROUTE 28)

4/2/19 SEND EMAIL THAT BOWC WILL REVIEW ON 4/9/19 AT 10 AM.
3/28/19 SENT E-MAIL THAT BOWC WILL REVIEW ABATEMENT AT MEETING OF 4/10 AT 8AM.
3/26/19 TEST RESULTS CAME BACK WITHIN ACCURACY LIMITS. WM
3/8/19 REMOVED METER FOR TESTING AND INSTALLED NEW. READ 0121430. MAILED TO
REGAN TESTING.

3/7/19 ABATEMENT REQUEST RECEIVED, TO BE REVIEWED AT BOARD MEETING FOLLOWING
WHEN TEST RESULTS ARRIVE (DRGRAVITY@COMCAST.NET)
3/7/19 CUSTOMER CALLED, CHECK EVERYTHING - NO LEAK DETECTED. HE WILL COME IN FOR
ABATEMENT FORM AND HAS OPTED FOR METER TESTING. SS

3/5/19 CANDY STORE OWNER CAME IN RE: HIGH USAGE. HE WAS GIVEN LEAK DETECTION
BROCHURE, DYE TABS AND TOLD ABOUT ABATEMENT PROCESS.

8/31/17 MARKED WATER.
8/29/17 MARK-OUT PER MORAN ENGINEERING FOR PERK TEST, D/S 2017 350 6194, BY
9/6/17
10/26/16 FINAL READ 001415
10/25/16 FINAL READ REQUEST. TA
4/15/10 C/O METER & INSTALLED RADIO READ OK 0207800
3/10 TROUBLE READING. EST.

DATE	CODE	READING	USAGE	AMOUNT	BALANCE
05/31/2005	1			50.00-	.00
04/14/2005	10	190000	1000	50.00	50.00
10/26/2004	1			50.00-	.00
10/14/2004	10	189000	2000	50.00	50.00
05/17/2004	1			50.00-	.00
04/08/2004	10	187000	1000	50.00	50.00
11/19/2003	1			50.00-	.00
10/22/2003	10	186000	1000	50.00	50.00
05/22/2003	1			25.00-	.00
04/28/2003	10	185000	2000	25.00	25.00
12/04/2002	1			25.00-	.00
11/01/2002	10	183000	5000	25.00	25.00
07/02/2002	1			28.50-	.00
06/03/2002	10	178000	17000	28.50	28.50
03/19/2002	1			25.00-	.00
01/29/2002	10	161000	8000	25.00	25.00
04/12/2001	1			25.00-	.00
02/13/2001	10	153000	5000	25.00	25.00
09/11/2000	1			25.00-	.00
08/03/2000	10	148000	5000	25.00	25.00
05/24/2000	1			25.00-	.00
04/21/2000	10	143000	3000	25.00	25.00
10/23/1999	100			.00	.00

**Town of Harwich Water Department
INVITATION TO BID**

1. Sealed Bids for the **Lothrop Avenue Water Main by Directional Drilling, Harwich, MA** project will be received by the Harwich Water Department at 196 Chatham Rd, Harwich Massachusetts until **11:00 am** prevailing time on **April 22, 2019**, at which time said Bids will be publicly opened and read aloud. All bids shall be submitted within a sealed envelope addressed to the Harwich Water Department, 196 Chatham Rd., Harwich, MA 02645 and entitled "Lothrop Avenue Water Main by Directional Drilling, Harwich".
2. The work under this Contract includes, but is not limited to the installation of 292-feet of 16-inch diameter, SDR-11 high density polyethylene (HDPE) pipe by directional drilling; compliance with local Conservation Commission requirements; traffic controls and police details. Connection to existing water mains and site restoration is to be performed by others.
3. Drawings and other Contract Documents may be examined and obtained at the office of the Harwich Water Department, 196 Chatham Rd., Harwich, MA 02645, (508) 432-0304 between the hours of 8:30 a.m. and 4:00 p.m. To obtain Contract Documents, a \$50 refundable deposit is required. Cash will not be accepted. Contact Sandra Sieger at Harwich Water Department at (508) 432-0304 x. 103. Document deposits will be refunded upon return of the documents in good condition within fifteen (15) days after the opening of general bids. Drawings and Specifications must be returned to Harwich Water Department, 196 Chatham Rd., Harwich, MA 02645 for refunds of deposits; no Drawings and Specifications will be accepted at the bid opening.
4. Drawings and other Contract Documents will be mailed, if requested, upon receipt of a street address (not a P.O. Box) suitable for commercial carrier delivery, and an additional check in the amount of \$50.00, payable to Harwich Water Department as nonrefundable postage and handling fee. Do not combine amounts into one check.
5. Construction must be complete 30 days from and including issuance of a notice to proceed, and/or receipt of fully executed contract.
6. Contract payment will be by the unit price method and the lump sum price method as indicated on the Bid Proposal. No Bidder may withdraw his/her Bid for a period of thirty (30) calendar days after the actual date of the opening of the Bids.
7. Bidders shall certify that they do not, and will not, maintain or provide for their employees any facility that is segregated on a basis of race, color, creed, sex, national origin, or sexual preference.
8. Wage rates for this project are subject to the minimum wage rates per M.G.L., Chapter 149, Sections 26 to 27G, inclusive as contained in Appendix A of the Contract Documents.
9. The bidding and award of the Contract shall be in full compliance with Sections 39M inclusive of Chapter 30 of the General Laws of the Commonwealth of Massachusetts as last revised.
10. This project shall also comply with Sections 39F, 39K, 39N, and 39O of Chapter 30 of the General Laws of the Commonwealth of Massachusetts as last revised and included in Appendix B.

Town of Harwich
WATER DEPARTMENT
FY19 3RD QTR BUDGET REPORT 4/5/19

FY18 FUND BALANCE

1,116,661.58

		FY19 Budget	YTD Actual	Available	% EXPENDED
13204501	SALARY & WAGES	1,261,949.00	708,022.14	553,926.86	56.1%
	<u>Total Salary & Wages</u>	<u>1,261,949.00</u>	<u>708,022.14</u>	<u>553,926.86</u>	
13204502	EXPENSES				% EXPENDED
	Operations & Maintenance	1,439,671.00	831,097.68	608,573.32	57.7%
	OPEB	50,000.00	50,000.00	-	100.0%
	Debt	753,834.00	733,437.49	20,396.51	97.3%
	<u>Total Expenses</u>	<u>2,243,505.00</u>	<u>1,614,535.17</u>	<u>628,969.83</u>	
13204504	REVENUE				% RECEIVED
	<u>Total Revenue</u>	<u>4,630,918.00</u>	<u>3,614,401.67</u>	<u>(1,016,516.33)</u>	<u>78.0%</u>
1320	INTERFUND TRANSFER IN ATM13 #25 CAHOON WTP				
	<u>Total Transfer In</u>	<u>59,767.89</u>	<u>-</u>	<u>(59,767.89)</u>	
1320	INTERFUND TRANSFER OUT-OFUS INDIRECTS				
	<u>Total Transfer Out</u>	<u>907,843.00</u>	<u>708,022.14</u>	<u>(199,820.86)</u>	
	SUMMARY	FY19 Budget	YTD Actual	Available	
	Budget Expenses	4,413,297.00	3,030,579.45	983,075.83	
	Budget Revenues	4,690,685.89	3,614,401.67	(1,076,284.22)	
	<u>Net Surplus or Deficit Estimate</u>	<u>277,388.89</u>	<u>583,822.22</u>	<u>(93,208.39)</u>	
132045A*	ARTICLES	FY19 Budget	YTD Actual	Available	
	616021 ATM 16 #21 New Excavator	4,548.00	-	4,548.00	
	616022 ATM 16 #22 Lothrop Water Tank	9,486.66	1,739.93	7,746.73	
	617010 ATM 17 #10 Facility Maintenance	1,673.76	-	1,673.76	
	618019 ATM 18 #19 Water Utility Trucks	101,825.00	-	101,825.00	
	<u>Total Articles from Receipts or Reserve</u>	<u>117,533.42</u>	<u>1,739.93</u>	<u>115,793.49</u>	
13400	ACCOUNTS RECEIVABLE	Due Date	Billed	Uncollected	% COLLECTED
	Misc Service and Prior FY Billing	various	various	64,053.89	
	FY19 Q1 OCT (July-Sept)	11/18/18	1,950,254.35	38,179.42	98.0%
	FY19 Q2 JAN (Oct-Dec)	02/10/19	611,581.64	28,863.03	95.3%
	FY19 Q3 APR (Jan-Mar)	05/15/19	-		#DIV/0!
	FY19 Q4 JULY (Apr-June)	08/15/19	-	-	#DIV/0!
	<u>Total Accounts Receivable</u>			<u>131,096.34</u>	

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TOWN OF HARWICH - LIVE DATA
YEAR-TO-DATE BUDGET REPORT
FY19 3RD QUARTER

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FOR 2019 13

ACCOUNTS FOR: 1320 WATER ENTERPRISE FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENC/REQ	AVAILABLE BUDGET	PCT USED
1320 WATER ENTERPRISE FUND							
1320 497000 INTERFUND TRANSFER	-59,768	0	-59,768	.00	.00	-59,767.89	.0%*
1320 596000 OFUS	732,843	175,000	907,843	708,022.14	.00	199,820.86	78.0%
TOTAL WATER ENTERPRISE FUND	673,075	175,000	848,075	708,022.14	.00	140,052.97	83.5%
13204501 WATER ENTERP SALARIES & WAGES							
13204501 511100 SALARIES ELECTE	3,000	0	3,000	2,250.03	.00	749.97	75.0%
13204501 511900 SALARIES & WAGE	947,101	0	947,101	699,764.78	.00	247,336.22	73.9%
13204501 512000 SEASONAL S&W	40,627	0	40,627	12,960.75	.00	27,666.25	31.9%
13204501 513000 OVERTIME	177,630	0	177,630	144,996.54	.00	32,633.46	81.6%
13204501 513060 FLUSHING OT	43,151	0	43,151	.00	.00	43,151.00	.0%
13204501 514000 LONGEVITY	44,365	0	44,365	28,752.05	.00	15,612.95	64.8%
13204501 514500 LICENSE STIPEND	1,200	0	1,200	.00	.00	1,200.00	.0%
13204501 515007 SICK LEAVE BONU	4,875	0	4,875	1,400.00	.00	3,475.00	28.7%
TOTAL WATER ENTERP SALARIES & WAGES	1,261,949	0	1,261,949	890,124.15	.00	371,824.85	70.5%
13204502 WATER ENTERPRISE FUND EXP							
13204502 517900 OTHER FRINGE BE	8,250	0	8,250	5,672.44	.00	2,577.56	68.8%
13204502 521100 ELECTRIC UTILIT	407,413	0	407,413	235,691.05	.00	171,721.95	57.9%
13204502 521200 GAS UTILITY	8,165	0	8,165	5,296.91	.00	2,868.09	64.9%
13204502 524140 VEHICLE/EQUIPME	62,500	0	62,500	26,715.72	.00	35,784.28	42.7%
13204502 524160 BUILDING & GROU	45,000	0	45,000	19,233.31	.00	25,766.69	42.7%
13204502 525000 TECHNICAL SUPPO	24,700	0	24,700	24,941.60	.00	-241.60	101.0%*
13204502 526000 BUILDING MAINT	9,650	0	9,650	8,358.00	.00	1,292.00	86.6%
13204502 530800 LABORATORY SERV	22,500	0	22,500	9,087.96	.00	13,412.04	40.4%
13204502 530820 PROFESSIONAL SE	100,000	0	100,000	30,942.50	.00	69,057.50	30.9%
13204502 530875 PRINTING SERVIC	23,000	0	23,000	6,577.57	.00	16,422.43	28.6%
13204502 534100 ADVERTISING	3,000	0	3,000	279.20	.00	2,720.80	9.3%
13204502 534300 POSTAGE	21,000	0	21,000	12,191.19	.00	8,808.81	58.1%
13204502 534400 TELEPHONE	7,700	0	7,700	4,898.17	.00	2,801.83	63.6%
13204502 534430 COMMUNICATION S	15,000	0	15,000	10,101.47	.00	4,898.53	67.3%
13204502 541100 PROPANE UTILITY	15,000	0	15,000	13,357.06	.00	1,642.94	89.0%
13204502 542000 OFFICE SUPPLIES	5,900	0	5,900	2,712.84	.00	3,187.16	46.0%

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TOWN OF HARWICH - LIVE DATA
YEAR-TO-DATE BUDGET REPORT
FY19 3RD QUARTER

FOR 2019 13

ACCOUNTS 1320	FOR: WATER	ENTERPRISE FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENC/REQ	AVAILABLE BUDGET	PCT USED
13204502	542013	HARDWARE/SOFTWA	12,000	0	12,000	12,627.14	.00	-627.14	105.2%*
13204502	548100	BULK FUEL	48,033	0	48,033	13,577.78	.00	34,455.22	28.3%
13204502	548200	TREATMENT SUPPL	17,500	0	17,500	21,706.72	.00	-4,206.72	124.0%*
13204502	548250	TREATMENT CHEMI	90,000	45,000	135,000	107,077.45	20,034.48	7,888.07	94.2%
13204502	553000	PUBLIC WORKS SU	26,250	0	26,250	5,705.73	.00	20,544.27	21.7%
13204502	553100	METERS/READ DEV	90,000	0	90,000	62,583.65	24,204.75	3,211.60	96.4%
13204502	553200	SERVICE INSTALL	35,000	0	35,000	35,812.49	158.77	-971.26	102.8%*
13204502	553300	PIPES, VALVES &	80,000	0	80,000	63,864.58	13,408.65	2,726.77	96.6%
13204502	553350	WATER MAIN REPL	70,000	0	70,000	.00	.00	70,000.00	.0%
13204502	553400	HYDRANTS & ACCE	15,000	0	15,000	1,214.41	.00	13,785.59	8.1%
13204502	553500	POLICE DETAILS	57,560	0	57,560	31,093.08	.00	26,466.92	54.0%
13204502	553600	ROAD REPAIRS	33,000	0	33,000	27,644.25	.00	5,355.75	83.8%
13204502	553900	MECHANICAL TANK	9,900	0	9,900	1,726.00	.00	8,174.00	17.4%
13204502	554200	GENERATOR MAINT	8,000	0	8,000	10,050.16	.00	-2,050.16	125.6%*
13204502	554300	WELL REHAB	45,000	-45,000	0	.00	.00	.00	.0%
13204502	558100	UNIFORMS AND SA	5,000	0	5,000	7,424.51	.00	-2,424.51	148.5%*
13204502	573000	DUES/SUBSCRIPTI	11,150	0	11,150	5,692.42	.00	5,457.58	51.1%
13204502	573200	WATER MGMT PERM	7,500	0	7,500	7,240.32	.00	259.68	96.5%
13204502	575070	OPEB	50,000	0	50,000	50,000.00	.00	.00	100.0%
13204502	591000	MATURE PRINCIPA	549,315	0	549,315	549,191.27	.00	123.73	100.0%
13204502	591500	INTEREST ON LON	201,932	0	201,932	182,954.77	.00	18,977.23	90.6%
13204502	591550	ADMIN FEE LT DE	2,587	0	2,587	1,291.45	.00	1,295.49	49.9%
TOTAL WATER ENTERPRISE FUND EXP			2,243,505	0	2,243,505	1,614,535.17	57,806.65	571,163.12	74.5%
13204504 WATER REVENUE ENTERP FUND									
13204504	414600	WATER LIENS COL	0	0	0	-19,847.57	.00	19,847.57	100.0%
13204504	417008	PEN & INT WATER	0	0	0	-2,405.63	.00	2,405.63	100.0%
13204504	421100	WATER RATES & S	-3,987,498	0	-3,987,498	-3,050,817.51	.00	-936,680.54	76.5%*
13204504	421200	METERS	-10,815	0	-10,815	-7,944.07	.00	-2,870.93	73.5%*
13204504	421300	SERVICE APPLICA	-1,472	0	-1,472	-700.00	.00	-772.00	47.6%*
13204504	421400	SERVICE INSTALL	-178,250	0	-178,250	-150,339.23	.00	-27,910.77	84.3%*
13204504	421450	MARKOUT SERVICE	-12,160	0	-12,160	-1,941.29	.00	-10,218.71	16.0%*
13204504	421550	PROPERTY TRANSF	-23,700	0	-23,700	-6,555.04	.00	-17,144.96	27.7%*
13204504	421600	WIRELESS COMMUN	-163,538	0	-163,538	-163,794.26	.00	256.26	100.2%
13204504	421650	SOLAR REVENUE W	-70,562	0	-70,562	-83,529.13	.00	12,967.13	118.4%
13204504	431100	WATER SERVICE T	-59,092	0	-59,092	-19,833.20	.00	-39,258.80	33.6%*
13204504	433007	LATE FEE	-49,250	0	-49,250	-31,363.07	.00	-17,886.93	63.7%*
13204504	441100	ELECTRICAL SERV	0	0	0	-2,570.00	.00	2,570.00	100.0%
13204504	451100	BACKFLOW INSPEC	-19,950	0	-19,950	-9,210.78	.00	-10,739.22	46.2%*
13204504	482001	INVESTMENT REVE	-300	0	-300	-15,638.03	.00	15,338.03	5212.7%

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TOWN OF HARWICH - LIVE DATA
YEAR-TO-DATE BUDGET REPORT
FY19 3RD QUARTER

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FOR 2019 13

ACCOUNTS FOR: 1320	WATER	ENTERPRISE FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENC/REQ	AVAILABLE BUDGET	PCT USED
13204504	484099	WATER MISCELLAN	-54,331	0	-54,331	-47,912.86	.00	-6,418.14	88.2%*
TOTAL WATER REVENUE ENTERP FUND			-4,630,918	0	-4,630,918	-3,614,401.67	.00	-1,016,516.38	78.0%
132045A2 WATER ENTERPRISE ARTICLES EXP									
132045A2	616021	ATM16#21 EXCAVA	0	4,548	4,548	.00	.00	4,548.39	.0%
132045A2	616022	ATM16#22 LOTHRO	0	9,487	9,487	1,739.93	.00	7,746.73	18.3%
132045A2	617010	ATM17#10 RADIOS	0	1,674	1,674	.00	.00	1,673.76	.0%
132045A2	618019	ATM18#19 UTIL T	0	101,825	101,825	.00	.00	101,825.00	.0%
TOTAL WATER ENTERPRISE ARTICLES EXP			0	117,534	117,534	1,739.93	.00	115,793.88	1.5%
TOTAL WATER ENTERPRISE FUND			-452,389	292,534	-159,855	-399,980.28	57,806.65	182,318.44	214.1%
TOTAL REVENUES			-4,690,686	0	-4,690,686	-3,614,401.67	.00	-1,076,284.27	
TOTAL EXPENSES			4,238,297	292,534	4,530,831	3,214,421.39	57,806.65	1,258,602.71	
PRIOR FUND BALANCE						1,116,661.58			
CHANGE IN FUND BALANCE - NET OF REVENUES/EXPENSES						399,980.28			
REVISED FUND BALANCE						1,516,641.86			

Month/Year March 2019

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	39,109	53,298	38,411	95,036	61,625	78,469	116,778	29,517	31,061	29,645	30,957	31,220	35,531	32,541
2	20,955	7,096	4,993	12,838	7,977	10,441	15,432	79,356	83,686	79,558	83,123	84,261	95,344	87,459
3	0	0	0	0	0	0	0	93,654	98,764	93,820	98,025	99,652	112,466	103,160
4	83,311	97,593	70,490	174,173	112,245	142,701	214,055	0	0	0	0	0	0	0
5	18,640	4,729	3,331	8,572	5,292	6,975	10,280	76,757	80,895	76,992	80,361	81,338	92,296	84,513
6	59,117	73,464	52,923	130,458	83,502	105,917	160,406	0	0	0	0	0	6,077	5,507
7	32,857	19,104	13,630	33,983	21,528	27,594	41,773	89,316	94,155	89,714	89,062	90,204	88,444	81,010
8	78,164	78,544	56,524	140,501	90,130	114,879	172,452	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	91,731	96,821	91,934	96,259	97,643	110,290	101,092
10	93,699	93,748	67,540	168,134	107,998	137,347	206,601	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	107,931	113,860	108,068	113,248	115,085	136,403	118,863
12	66,040	66,327	48,046	128,505	75,350	104,779	145,837	58,256	61,376	58,277	61,303	61,771	41,169	64,131
13	6,583	6,662	4,803	11,368	7,266	9,258	14,097	68,843	72,358	69,004	72,110	72,686	82,455	75,708
14	90,308	89,508	64,450	160,088	104,884	134,449	196,007	0	0	0	0	0	28,973	0
15	15,872	16,980	12,166	30,805	19,775	25,519	37,395	74,500	78,555	74,659	0	0	187,574	82,054
16	86,571	86,744	62,584	155,883	102,502	131,702	190,845	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	95,792	101,078	95,983	100,329	101,953	115,017	105,459
18	69,902	70,141	50,952	126,210	82,207	105,461	154,190	15,996	16,779	15,968	11,508	11,870	20,588	7,536
19	6,519	6,583	4,779	11,437	7,396	9,540	13,849	115,742	121,715	110,569	138,820	140,235	112,906	127,151
20	75,993	75,975	54,817	136,856	89,218	114,241	167,418	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	91,037	96,007	91,194	95,628	96,811	109,395	100,287
22	88,447	88,556	63,960	159,310	103,306	132,460	194,840	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	96,758	102,023	96,899	101,430	103,065	116,375	106,641
24	99,051	99,005	71,199	178,327	115,190	147,580	218,262	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	89,758	94,702	89,921	94,111	95,421	107,843	98,879
26	81,871	82,084	59,296	132,661	94,953	108,676	180,601	27,313	28,719	27,372	29,016	29,273	32,940	0
27	0	0	0	0	0	0	0	89,854	94,306	85,879	138,513	139,751	90,140	151,661
28	69,117	69,108	49,914	124,310	79,587	101,262	152,570	3,473	3,671	3,930	48,683	49,878	0	0
29	0	0	0	0	0	0	0	86,614	91,378	86,728	88,709	89,719	104,135	95,441
30	0	0	0	0	0	0	0	100,071	105,565	100,189	104,601	106,442	120,096	110,100
31	108,028	108,198	78,322	192,682	123,262	155,967	237,794	0	0	0	0	0	0	0
Pumps :	1,290,154	1,293,449	933,132	2,312,137	1,495,192	1,905,216	2,841,481	1,582,269	1,667,475	1,576,304	1,675,796	1,698,278	1,946,457	1,739,193
MIN :	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX :	108,028	108,198	78,322	192,682	123,262	155,967	237,794	115,742	121,715	110,569	138,820	140,235	187,574	151,661
STATIONS :	12,070,762							4,826,047			3,374,074		1,946,457	1,739,193
TOTAL :	23,956,533													

Month/Year March 2018

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	62,510	37,358	21,467	60,752	70,400	88,520	137,749	56,576	54,496	56,708	67,279	66,560	61,961	83,777
2	32,575	32,614	21,328	41,242	33,662	40,830	85,659	90,567	90,934	88,929	85,254	85,768	97,642	58,738
3	36,860	36,970	29,398	63,282	39,782	49,106	80,639	75,601	76,148	0	74,781	76,570	89,191	58,738
4	36,823	36,867	26,669	63,135	39,568	48,979	80,946	85,187	86,261	0	70,824	72,577	89,622	58,738
5	59,564	59,596	43,041	97,029	62,078	75,853	130,150	132,803	134,696	0	115,972	117,346	144,205	58,738
6	12,379	12,425	8,978	20,186	12,812	15,731	26,291	91,881	90,277	85,654	80,880	3,473	122,870	0
7	22,741	22,718	16,406	35,285	23,092	27,843	49,666	174,390	168,112	165,610	139,883	141,885	160,261	54,762
8	43,555	43,468	31,247	72,054	46,766	57,841	94,263	70,668	67,583	69,625	59,871	59,565	66,614	56,695
9	26,735	26,611	19,435	43,769	27,941	34,135	58,428	59,735	59,571	59,403	56,449	56,364	64,821	59,129
10	27,105	41,294	30,176	66,347	42,966	51,860	90,507	92,300	89,783	91,838	87,556	86,817	99,955	91,543
11	48,440	34,138	24,698	55,188	35,340	42,920	74,548	75,550	73,131	76,306	72,587	72,129	83,496	74,222
12	26,305	26,348	19,057	43,169	27,613	33,489	57,439	58,920	58,046	58,551	55,827	55,672	63,970	58,339
13	531	674	410	290	205	246	628	90,667	88,961	83,953	80,471	44,217	92,323	84,171
14	33	35	34	0	0	0	0	188,445	183,751	174,302	159,384	163,295	190,820	84,388
15	26,408	26,212	18,995	43,775	27,943	34,054	58,316	59,815	59,478	59,442	56,457	56,443	65,183	59,166
16	43,357	43,264	31,456	66,503	43,729	51,964	94,266	94,915	88,904	96,556	91,898	90,405	104,488	94,079
17	27,047	27,074	19,505	44,484	28,389	34,686	59,156	60,717	60,299	60,335	57,289	57,382	65,762	60,057
18	49,454	49,456	35,651	76,219	50,157	59,871	107,808	108,659	102,640	110,039	56,371	55,848	119,923	102,422
19	27,712	27,663	19,913	45,383	28,967	35,316	60,506	62,257	62,144	61,650	58,716	58,939	67,140	58,523
20	33,143	33,113	23,934	91,789	33,142	76,702	72,188	129,273	67,625	125,859	119,656	120,076	80,186	123,572
21	27,223	27,123	19,661	44,191	28,319	34,327	59,292	61,069	60,299	60,278	57,578	57,455	59,157	60,228
22	47,252	47,109	34,097	73,294	47,932	57,500	102,878	98,823	99,782	99,008	99,946	98,939	114,547	103,422
23	41,767	41,602	30,145	62,998	41,815	49,676	90,737	112,556	111,769	113,317	89,431	88,162	99,129	91,775
24	27,257	27,155	19,699	44,253	28,414	34,318	59,403	60,436	61,294	60,520	57,568	57,728	66,039	60,478
25	48,349	48,353	34,807	73,718	48,674	58,059	105,570	106,580	102,179	107,650	102,392	101,245	116,870	105,472
26	33,145	33,154	23,907	57,126	36,590	45,614	72,235	34,157	34,624	34,113	69,823	70,707	80,104	73,270
27	52,415	52,462	37,737	69,921	54,030	54,922	113,970	95,854	97,785	100,978	106,608	94,585	122,966	98,292
28	27,335	27,298	19,681	45,018	28,701	35,062	59,748	57,820	60,349	60,798	57,827	57,755	123,425	60,519
29	47,412	47,173	34,113	74,531	48,425	58,256	103,327	99,198	99,929	105,555	100,217	99,265	114,963	103,980
30	26,877	26,820	19,444	44,481	28,291	34,365	58,598	57,949	59,851	59,735	56,784	56,909	65,129	59,611
31	48,945	48,829	35,252	77,513	50,290	60,478	106,434	103,523	104,495	108,614	103,436	102,669	118,691	107,178
Pumps :	1,071,252	1,044,975	750,343	1,696,926	1,116,032	1,382,521	2,351,346	2,746,892	2,655,197	2,435,327	2,549,015	2,426,750	3,011,453	2,304,022
MIN :	33	35	34	0	0	0	0	34,157	34,624	0	55,827	3,473	59,157	0
MAX :	59,564	59,596	43,041	97,029	62,078	76,702	130,150	188,445	183,751	174,302	159,384	163,295	190,820	123,572
STATIONS :	9,413,395							7,837,416			4,975,765		3,011,453	2,304,022
TOTAL :	27,542,051													

Date March 2019
 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	17	26		
2		1.21	35	33	34		
3		0.13	40	31	36		
4		1.17	39	31	35		
5		0.00	32	24	28		
6		0.00	32	22	27		
7		0.00	31	17	24		
8		0.00	36	17	26		
9		0.00	42	24	33		
10		0.51	43	31	37		
11		0.00	49	36	42		
12		0.00	45	32	38		
13		0.00	42	29	35		
14		0.00	47	35	41		
15		0.21	52	42	47		
16		0.07	56	37	46		
17		0.00	44	30	37		
18		0.00	42	26	34		
19		0.00	43	25	34		
20		0.00	47	26	36		
21		0.00	47	34	40		
22		0.89	45	41	43		
23		0.02	50	34	42		
24		0.00	50	32	41		
25		0.00	48	37	42		
26		0.00	45	28	36		
27		0.00	42	27	35		
28		0.00	47	30	38		
29		0.00	51	42	47		
30		0.00	56	40	48		
31		0.00	59	44	52		
Total		4.21					
Average		0.14	44.3	30.6			
Max		1.21	59.1	44.0			
Min		0.0	30.8	16.7			

Date March 2018
 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	59	42	50		
2		2.79	47	37	42		
3		0.23	42	37	40		
4		0.01	42	36	39		
5		0.26	42	35	38		
6		0.00	41	35	38		
7		0.83	44	36	40		
8		0.14	44	35	40		
9		0.00	42	31	37		
10		0.00	44	33	38		
11		0.00	45	32	38		
12		0.00	45	30	37		
13		1.72	41	33	37		
14		0.00	39	32	35		
15		0.00	43	33	38		
16		0.00	39	31	35		
17		0.00	45	28	36		
18		0.00	35	24	29		
19		0.00	40	26	33		
20		0.00	39	28	34		
21		0.31	39	35	37		
22		0.58	38	34	36		
23		0.00	45	31	38		
24		0.00	47	30	39		
25		0.06	40	34	37		
26		0.00	42	34	38		
27		0.00	47	30	38		
28		0.00	48	38	43		
29		0.00	51	34	43		
30		0.02	50	46	48		
31		0.00	50	40	45		
Total		6.95					
Average		0.22	43.7	33.6			
Max		2.79	58.7	46.0			
Min		0.0	34.7	24.2			