



Town of Chatham
Department of Public Works
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TO: Honorable Select Board
Jill R. Goldsmith, Town Manager

FROM: Rob Faley, Director, Department of Public Works

DATE: May 8, 2025 (for the May 13, 2025 SB Meeting)

SUBJECT: Chatham Wells, PFAS, and Drinking Water Testing and Pumping Update and Drought Update

The following is a water supply update for the month of April 2025:

Chatham wells have been pumping 3 – 7 hours per day.
The water tanks did not hit low level alarm this month.

Training Field Wells 5 and 8 - Permanent Treatment Facility

1. Project Update:
 - Exterior brick work continues.



Mill Pond Wells 10 and 11 - Pumping & Treatment Update

1. The Town and town counsel are finalizing the title search. Once received, final document edits will be shared with the Energy and Environmental Affairs Office for final issuance of the Conservation Easement for Well 10.

Water Sampling

- 10 bacteria samples were taken for the month of April and the results reported to DEP. All samples were free of bacteria.
- Monthly treatment plant samples for Alkalinity and Orthophosphates were taken.
- Quarterly PFAS6 samples were taken from Mill Hill Treatment Plant and Well 4 showing an increase from previous results.

Station Maintenance

- Routine and annual maintenance and housekeeping was performed at all stations.
- Static and dynamic (drawdowns) water level readings were recorded for each well.
- Stiles was on site to calibration master meters at the pumping stations.
- New PH bench probe installed at Morton Rd.

System Maintenance

- Hydrant painting began.
- The flushing program completed.
- BCI installed a new hydrant at the end of Pleasant Street.
- BCI replaced several defective curb stop boxes.
- Veolia employees put out Mandatory Water Restrictions signs ahead of the ban beginning May 1, 2025.
- Several curb boxes and gate boxes repaired/replaced in-house.
- RPZ and DC backflow testing began.

Meter Reading

- Water meter readings were completed for the month of April.

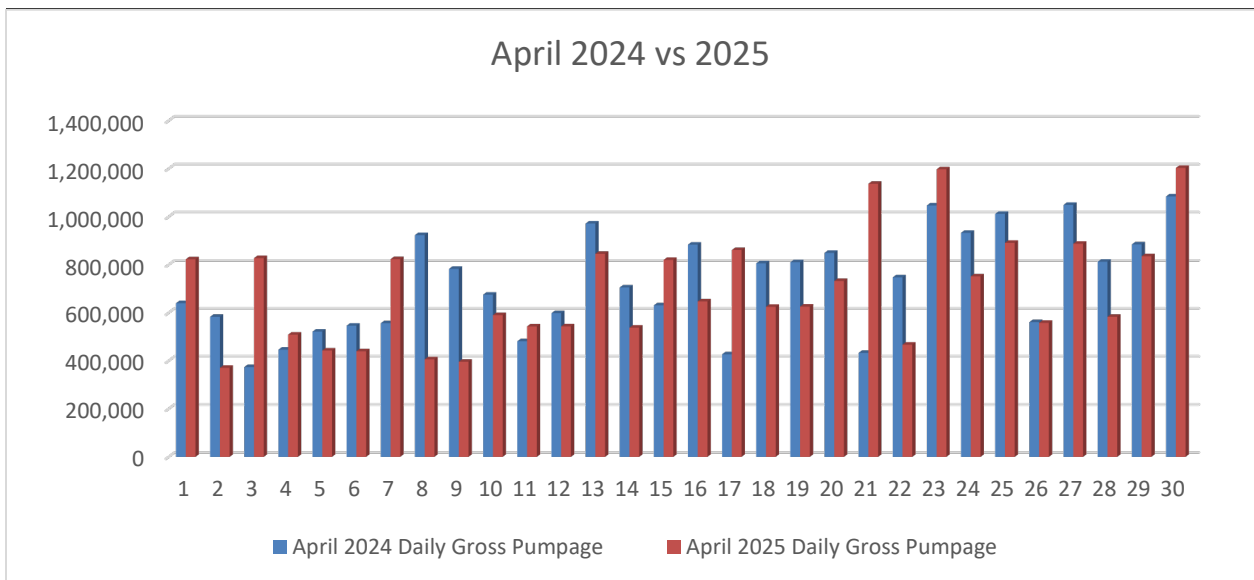
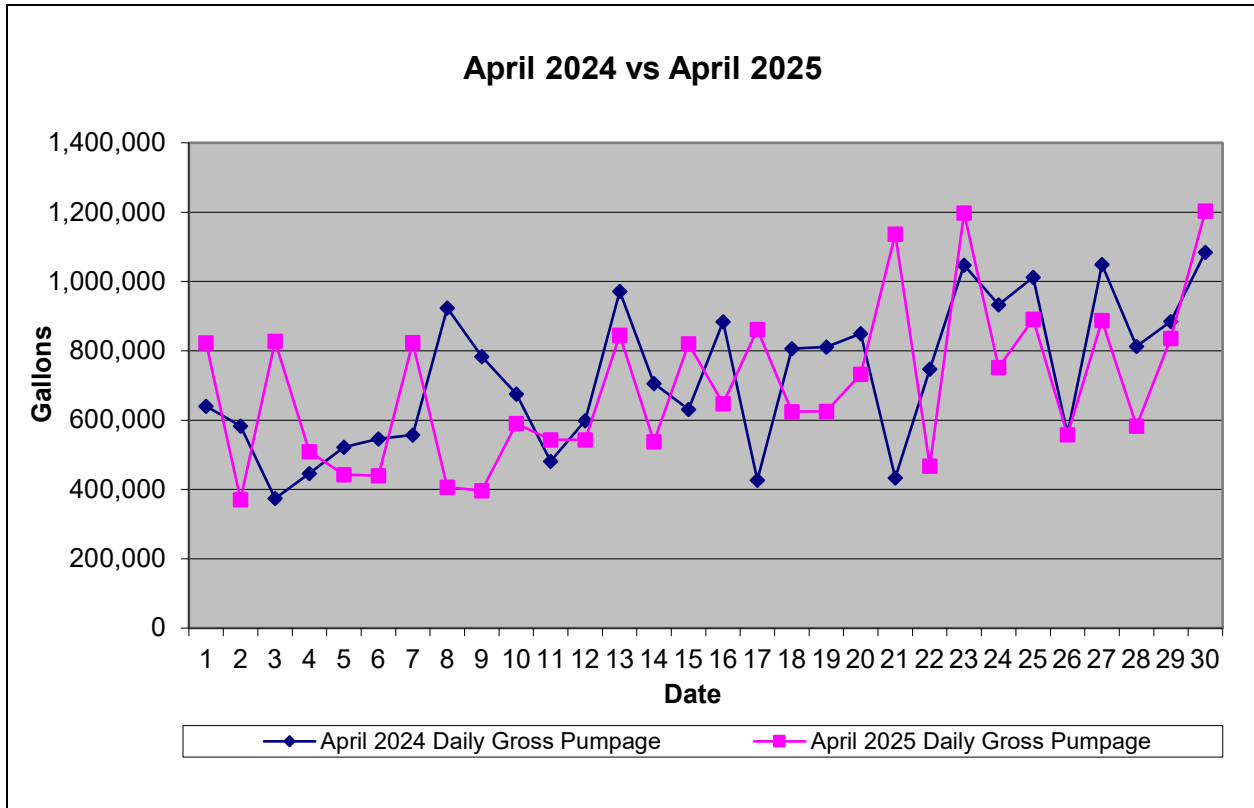
Meter Activities

Dig Safes	New	Final	Turn on/off	Repair	Replace & Install Radio	Inspections
251	8	11	175	16	14	12

**April 2024 vs 2025
Pumping Comparison**

DATE	April 2024 Daily Gross Pumpage	April 2025 Daily Gross Pumpage	April 2024 vs. April 2025 Increase / Decrease (Gallons)	April 2024 vs. April 2025 Increase / Decrease (Percent)
1	640,100	822,700	182,600	29%
2	583,300	370,900	(212,400)	-36%
3	373,900	827,800	453,900	121%
4	446,400	509,000	62,600	14%
5	521,600	443,000	(78,600)	-15%
6	546,300	439,800	(106,500)	-19%
7	556,700	823,400	266,700	48%
8	923,500	406,200	(517,300)	-56%
9	782,900	396,100	(386,800)	-49%
10	675,400	590,200	(85,200)	-13%
11	481,500	543,200	61,700	13%
12	598,400	543,500	(54,900)	-9%
13	971,700	845,500	(126,200)	-13%
14	705,500	538,000	(167,500)	-24%
15	631,000	820,200	189,200	30%
16	883,800	647,400	(236,400)	-27%
17	427,100	861,400	434,300	102%
18	806,100	624,800	(181,300)	-22%
19	810,500	625,700	(184,800)	-23%
20	849,500	732,400	(117,100)	-14%
21	433,000	1,137,100	704,100	163%
22	747,500	467,200	(280,300)	-37%
23	1,046,800	1,197,500	150,700	14%
24	933,000	751,600	(181,400)	-19%
25	1,012,000	891,300	(120,700)	-12%
26	561,200	558,100	(3,100)	-1%
27	1,049,100	887,500	(161,600)	-15%
28	812,500	583,300	(229,200)	-28%
29	885,000	835,500	(49,500)	-6%
30	1,084,500	1,203,200	118,700	11%
Total	21,779,800	20,923,500	(856,300)	-3.9%

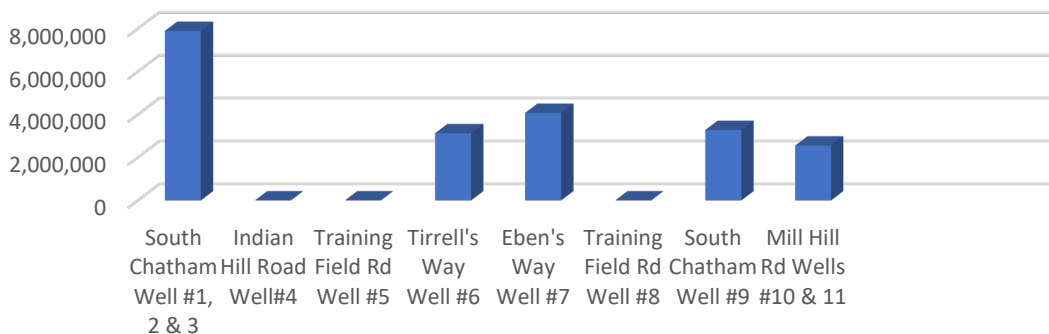
April 2024 vs 2025 Pumping Comparison Graph



April 2025 Monthly Pumping Report

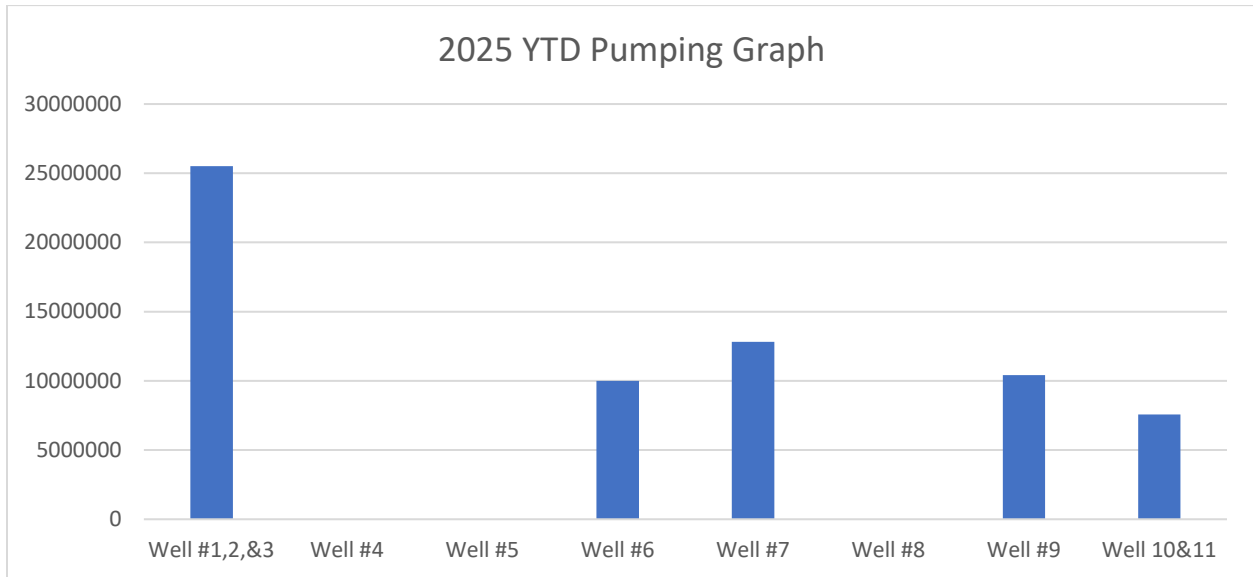
Chatham Water Department MONTHLY PUMPAGE REPORT										APRIL 2025	
DATE	DAY	South Chatham Well #1, 2 & 3	Indian Hill Road Well#4	Training Field Rd Well #5	Tirrell's Way Well #6	Eben's Way Well #7	Training Field Rd Well #8	South Chatham Well #9	Mill Hill Rd Wells #10 & 11	Daily Gross Pumpage	
1		316,100			118,300	153,200		140,700	94,400	822,700	
2		89,700			56,300	80,400		50,700	93,800	370,900	
3		326,600			124,300	163,300		133,100	80,500	827,800	
4		178,400			77,900	106,300		81,300	65,100	509,000	
5		80,500			96,900	130,400		105,600	29,600	443,000	
6		161,400			66,100	82,100		71,600	58,600	439,800	
7		317,000			121,100	160,300		112,300	112,700	823,400	
8		37,700			87,300	144,500		101,200	35,500	406,200	
9		93,700			88,800	117,300		92,900	3,400	396,100	
10		241,800			91,700	118,300		95,700	42,700	590,200	
11		188,200			85,700	110,800		89,600	68,900	543,200	
12		206,000			78,800	102,300		83,000	73,400	543,500	
13		306,600			127,700	165,600		134,300	111,300	845,500	
14		227,000			93,500	120,200		97,300		538,000	
15		338,000			114,000	147,500		119,300	101,400	820,200	
16		298,000			104,200	135,500		109,700		647,400	
17		353,200			132,300	147,700		140,200	88,000	861,400	
18		206,600			97,200	129,200		99,000	92,800	624,800	
19		236,400			88,200	111,600		95,800	93,700	625,700	
20		261,100			115,300	152,100		117,800	86,100	732,400	
21		409,700			170,900	218,300		179,300	158,900	1,137,100	
22		146,500			82,800	112,300		50,300	75,300	467,200	
23		449,400			163,300	205,200		206,100	173,500	1,197,500	
24		578,000							173,600	751,600	
25		434,200			101,700	126,700		101,600	127,100	891,300	
26		177,800			80,400	109,800		84,400	105,700	558,100	
27		203,600			172,200	222,100		179,500	110,100	887,500	
28		207,100			95,700	123,800		100,000	56,700	583,300	
29		354,400			121,200	156,800		126,300	76,800	835,500	
30		464,600			172,200	222,200		179,700	164,500	1,203,200	
31											
Total		7,889,300			3,126,000	4,075,800		3,278,300	2,554,100	20,923,500	
								Minimum			
								Maximum		1,203,200	
								Average		674,952	

April 2025 Pumping Graph



2025 YTD Pumping Report

	Well #1,2,&3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well 10&11	Monthly Total	Last Years Pumping	Variance
January	5,680,400	0	0	2,509,200	3,195,700	0	2,623,300	2,148,600	16,157,200	16,575,600	-418,400
February	5,126,000	0	0	2,143,400	2,872,300	0	2,301,200	832,200	13,275,100	14,695,600	-1,420,500
March	6,818,100	0	0	2,220,100	2,667,800	0	2,208,800	2,028,500	15,943,300	16,932,900	-989,600
April	7,889,300	0	0	3,126,000	4,075,800	0	3,278,300	2,554,100	20,923,500	21,779,800	-856,300
May									0		0
June									0		0
July									0		0
August									0		0
September									0		0
October									0		0
November									0		0
December									0		0
Totals	25,513,800	0	0	9,998,700	12,811,600	0	10,411,600	7,563,400	66,299,100	69,983,900	-3,684,800

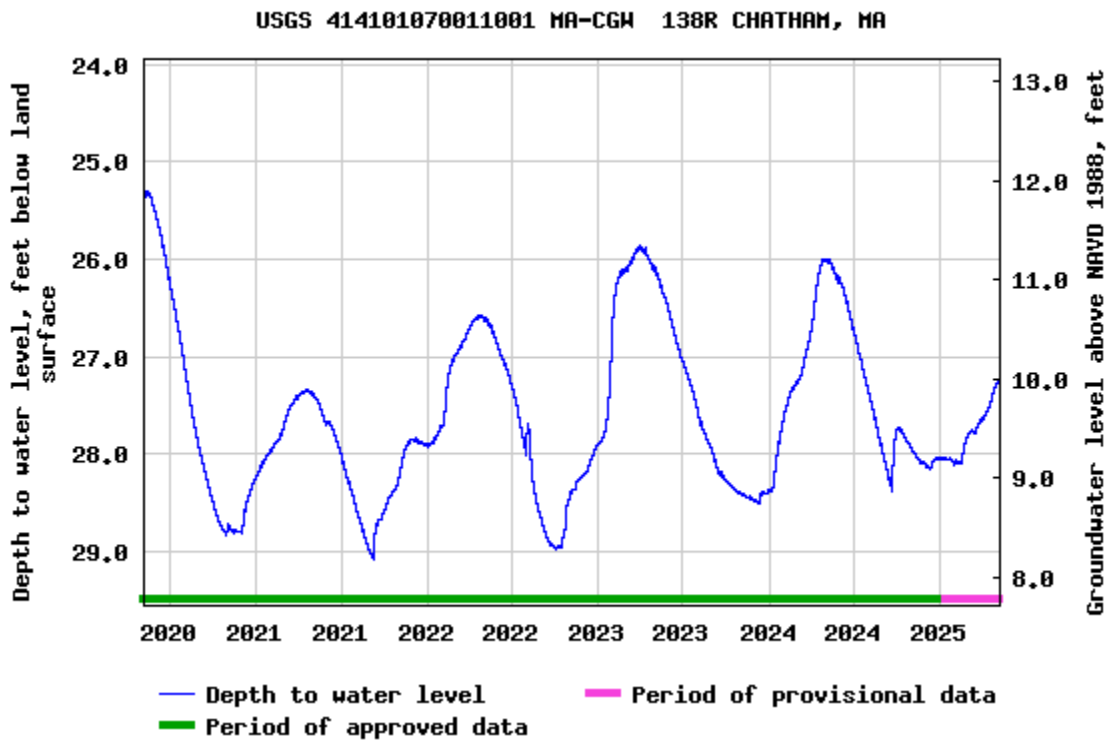


2025 YTD Unmetered Water Usage

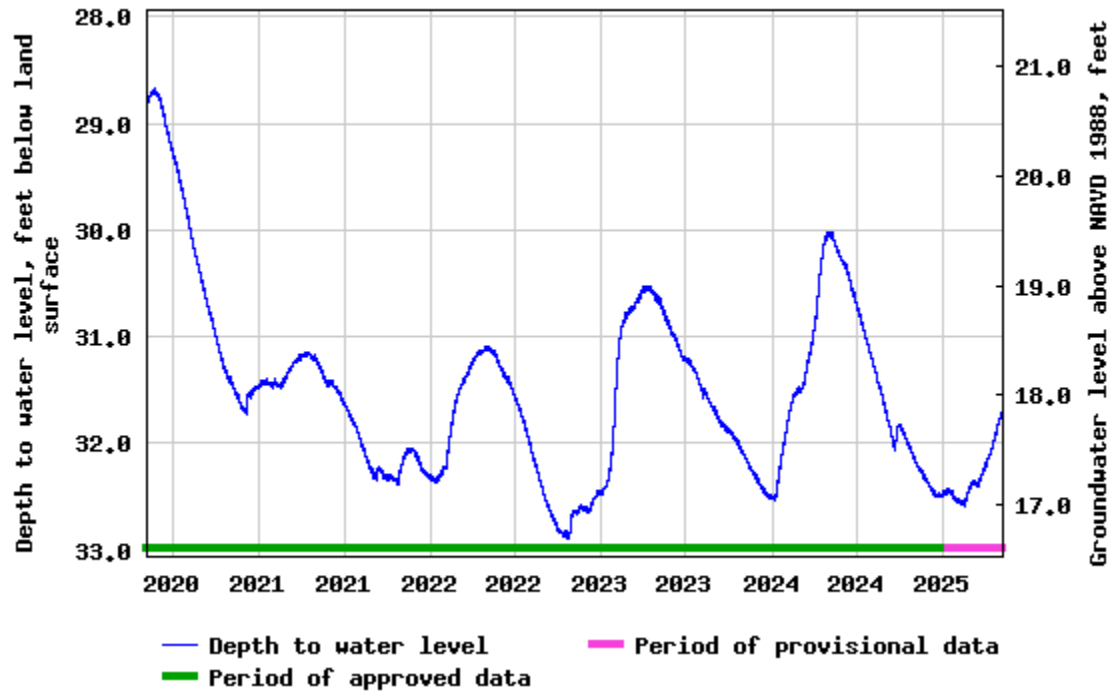
Type of use	January	February	March	April
Well Treatment Operations	315,152	365,521	452,949	505,300
Flushing & Blowoffs	815,425	374,600	2,189,654	3,977,575
New Main Activations	0	0	0	0
Fire Flow Testing	37,830	0	0	0
Fire Dept Usage	195,000	78,250	53,750	74,350
Hydrant Maintenance	0	0	0	0
Highway & Landfill Use	0	0	0	0
WWTP / Jetting	0	0	1,000	0
Meter Calibration				221,700
Total	1,363,407	818,371	2,697,353	4,778,925

On May 3rd, Veolia conducted an Open House at the WPCF and Morton Road Treatment Plant. This is part of our annual outreach program to inform and engage the public. There was a good turnout with water conservation discussions and tours of the facilities.

Open House 2025



USGS 414632070014901 MA-BMW 22R BREWSTER, MA



Chatham 5-year Pumping Comparison (Month of April)

April Date	April 2021 Daily Gross Pumpage	Hours	April 2022 Daily Gross Pumpage	Hours	April 2023 Daily Gross Pumpage	Hours	April 2024 Daily Gross Pumpage	Hours	April 2025 Daily Gross Pumpage	Hours	Average Daily Pumpage (gallons)	Average Daily Pumpage (hours)
1	567,200	3	725,300	5	596,300	3.5	640,100	8	822,700	6	670,320	5.1
2	690,700	4.5	472,300	4	657,600	3	583,300	9.5	370,900	2.75	554,960	4.75
3	659,400	3.5	670,300	4	590,700	4	373,900	6	827,800	5.5	624,420	4.6
4	622,100	3	733,400	5	636,400	3	446,400	7	509,000	2.75	589,460	4.15
5	698,500	4.25	601,800	4	622,600	3	521,600	6	443,000	4	577,500	4.25
6	688,400	5	598,100	4	541,200	3	546,300	6	439,800	2.75	562,760	4.15
7	760,900	5	590,100	3	698,800	3	556,700	6	823,400	4.5	685,980	4.3
8	700,500	4.5	490,400	4	598,200	3.5	923,500	11	406,200	3.5	623,760	5.3
9	668,100	3.5	746,800	4	590,800	4	782,900	9	396,100	4.5	636,940	5
10	715,500	4	589,000	4	606,700	3	675,400	5	590,200	4.25	635,360	4.05
11	724,500	4	692,000	4	607,600	3	481,500	5	543,200	3.25	609,760	3.85
12	816,600	5	583,800	4.25	733,900	4	598,400	5	543,500	3.25	655,240	4.3
13	676,700	3.75	663,100	4	640,500	4	971,700	5	845,500	5.75	759,500	4.5
14	779,900	5.25	699,100	4	716,300	4	705,500	7	538,000	3	687,760	4.65
15	721,700	4.25	713,600	5	736,500	4	631,000	9.5	820,200	4.75	724,600	5.5
16	757,000	4.5	592,800	4	752,400	3	883,800	13.75	647,400	3.75	726,680	5.8
17	934,300	5	748,000	4	621,200	5	427,100	6.5	861,400	6	718,400	5.3
18	686,000	4.25	701,400	5	780,400	3	806,100	12	624,800	4	719,740	5.65
19	869,400	4.25	683,200	5	752,000	7	810,500	8.75	625,700	3.25	748,160	5.65
20	1,022,300	6	753,600	4	833,100	5	849,500	13.25	732,400	4.5	838,180	6.55
21	1,003,800	5.5	669,700	5	936,300	3.5	433,000	6.5	1,137,100	5	835,980	5.1
22	878,800	5	773,200	4.5	636,500	4	747,500	11	467,200	7	700,640	6.3
23	815,700	6	780,100	3.75	841,200	6	1,046,800	14.25	1,197,500	4	936,260	6.8
24	954,200	6	620,600	5	878,400	5	933,000	8.75	751,600	4	827,560	5.75
25	1,080,300	7.5	758,000	4	934,900	5	1,012,000	9	891,300	4	935,300	5.9
26	849,600	5.25	668,400	5	745,500	5	561,200	6	558,100	5	676,560	5.25
27	1,251,100	8	703,300	4	1,073,300	4	1,049,100	10	887,500	6.5	992,860	6.5
28	976,800	5.5	773,700	5	789,000	5	812,500	7	583,300	4	787,060	5.3
29	904,400	6.5	728,500	5	805,500	5	885,000	8	835,500	4.5	831,780	5.8
30	837,300	6.25	740,200	5	874,100	4	1,084,500	8.5	1,203,200	5.5	947,860	5.85
31												
Total	24,311,700	148	20,263,800	131	21,827,900	122	21,779,800	248	20,923,500	132	21,821,340	155.95

Drought update: The Massachusetts Drought Task Force met on the afternoon of May 7th to discuss drought status conditions throughout Massachusetts. The majority of Massachusetts has seen some level of improvement, but the Task Force will recommend to the Secretary of Energy and Environmental Affairs to leave all of Cape Cod at a Level 2 - Significant Drought. This determination was based on precipitation through the end of April. Precipitation over the past month has been trending toward normal, but the rainfall deficit over the past 6 months was the primary driver behind the decision to remain at Level 2 as groundwater levels on the Cape tend to recover more slowly than the rest of Massachusetts.

On May 1st, Chatham enacted Mandatory Water Restrictions placing limits on non-essential outdoor water use. Outdoor water use is limited to no more than two days per week before 9:00 AM and after 5:00 PM. Odd numbered addresses are assigned Tuesdays and Thursdays; even numbered addresses are assigned Wednesdays and Fridays.

Non-essential outdoor water use includes:

- Irrigation of lawns via sprinklers or automatic irrigation systems
- Washing of vehicles, except in a commercial car wash or as necessary for operator safety
- Washing of exterior building surfaces, parking lots, driveways, or sidewalks (except as necessary to apply surface treatments such as paint, preservatives, stucco, pavement, or concrete).

These restrictions remain in effect until further notice.