



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

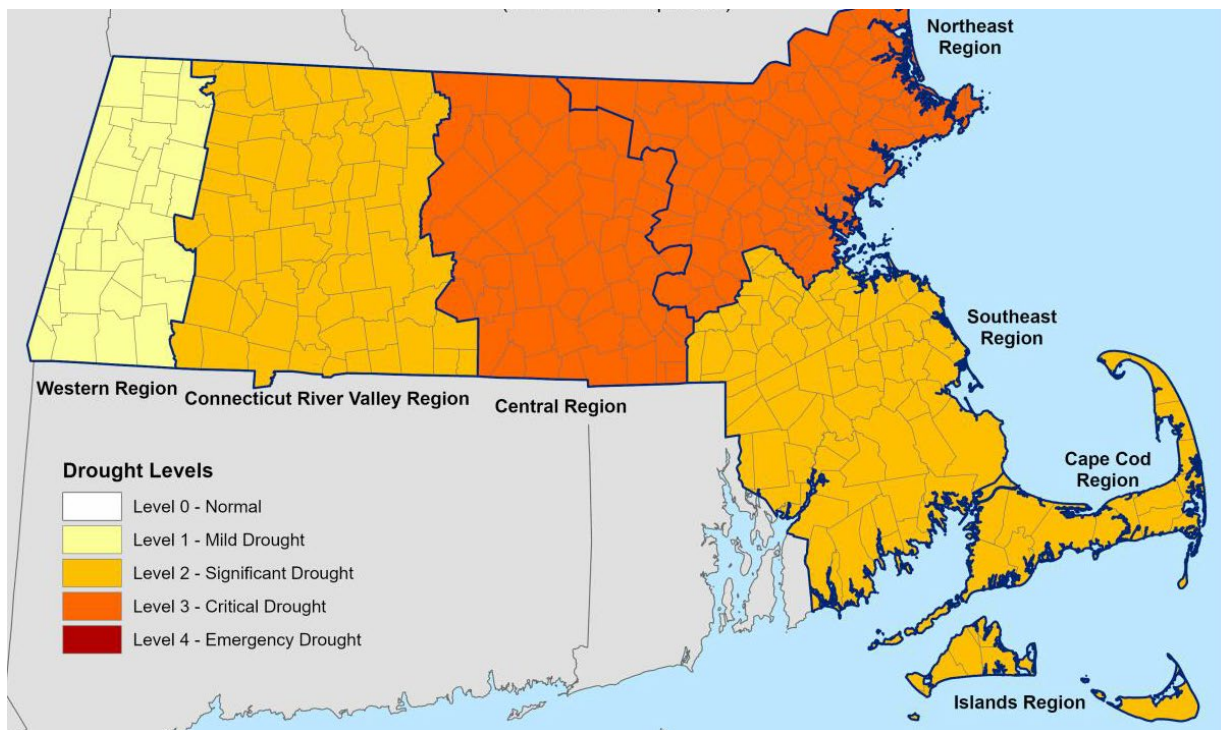
FROM: Rob Faley, Director, Department of Public Works

DATE: March 6, 2025 (for the March 11, 2025 SB Meeting)

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

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

Cape Cod declared in Level 2 - Significant Drought




On February 14th, the Massachusetts Energy and Environmental Affairs (EEA) Office announced all of Cape Cod was in a Level 2 - Significant Drought.

They provided several recommendations including providing timely information to residents and businesses, reducing overall water use (especially outdoor use - which isn't as much of a concern in winter), and being particularly mindful of indoor water use.







In response, the following was placed on the Town's website and social media platforms along with tips on how to check for water leaks in your home:

TIPS FOR SAVING WATER


When in Drought or Not – Please Do Your Part!



INDOOR WATER USE

-  1. Choose high-efficiency plumbing products and appliances (look for the WaterSense or Energy Star labels).
-  2. Turn off water while brushing teeth or shaving: "Never Let the Water Run."
-  3. Take shorter showers (5 minutes or less) and use water-saving showerheads.
-  4. Wash only full loads of laundry and dishes.
-  5. Fix leaks! Dripping faucets and leaking toilets, pipes, and appliances can add up to hundreds of gallons of water lost per week.
-  6. Create a kitchen compost bin instead of using the garbage disposal.
-  7. Collect and reuse clean household water (water running while you wait for hot water to reach your faucet or shower; leftover water from cooking, etc.) and use this to water plants.

To check your drought region and status go to: mass.gov/ma-drought-management

 mass.gov/conservEMAwater

We continue to monitor groundwater levels, precipitation, and water use in Chatham so we are prepared to make informed decisions should the situation worsen.

Training Field Wells 5 and 8 - Permanent Treatment Facility

1. Project Update:
 - Exterior concrete block work is complete.
 - Waterproofing of exterior walls is mostly complete. Brick veneer work to start soon.
 - Temporary GAC vessel cleaned and readied for service.
 - 3 additional GAC vessels delivered and all 4 set in place early March.



Mill Pond Wells 10 and 11 - Pumping & Treatment Update

1. The Energy and Environmental Affairs Office returned the red-lined Conservation Easement to the Town. The document is currently under review by the Town's legal consultant.

Chatham Water Pumping Status:

For the month of February, wells have been running 3 - 5 hours a day.

The Water Storage Tanks did not hit the low-level alarm this month:

Water Sampling

- 10 bacteria samples were taken for the month of February and the results reported to DEP. All samples were free of bacteria.
- Monthly treatment plant samples for Alkalinity and Orthophosphates were taken.

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.
- Hach calibrated all turbidity analyzers at the water treatment plant.
- Oil changes and greasing was performed at all treatment plant motors.
- The pressure switch on the aerator at the water treatment plant was replaced.
- Updated the CCR

System Maintenance

- Bortolotti installed a new hydrant on Woodcarver Knoll.
- New Fire Line Installed at 791 Main St
- Hydrant Painting
- Leak Detection Continues

Meter Reading

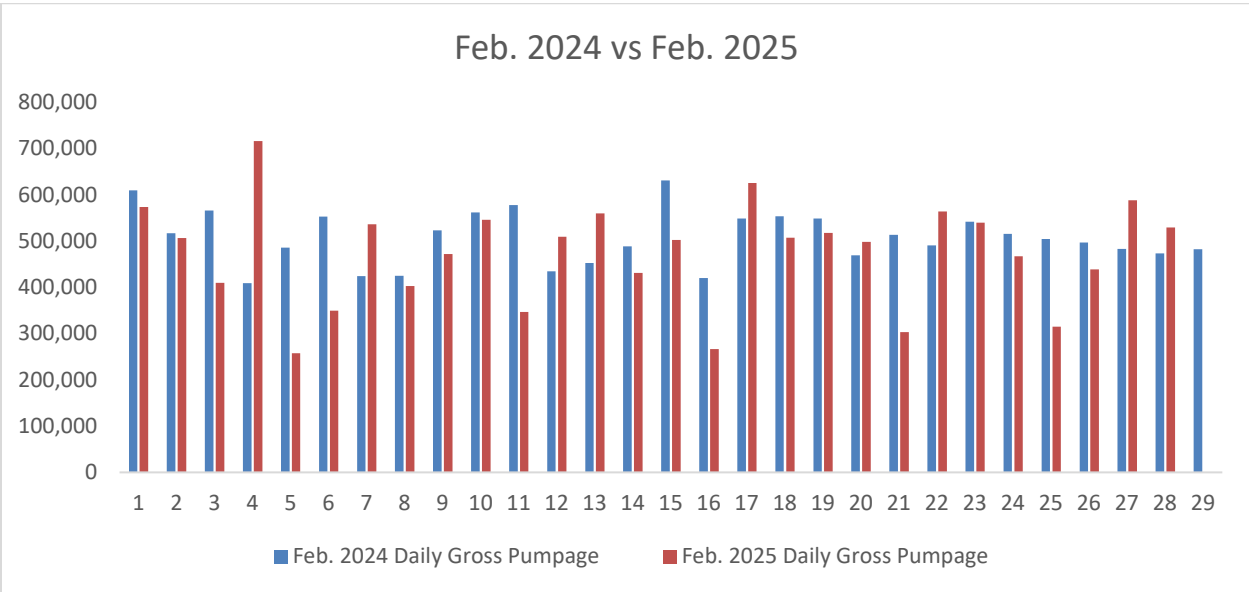
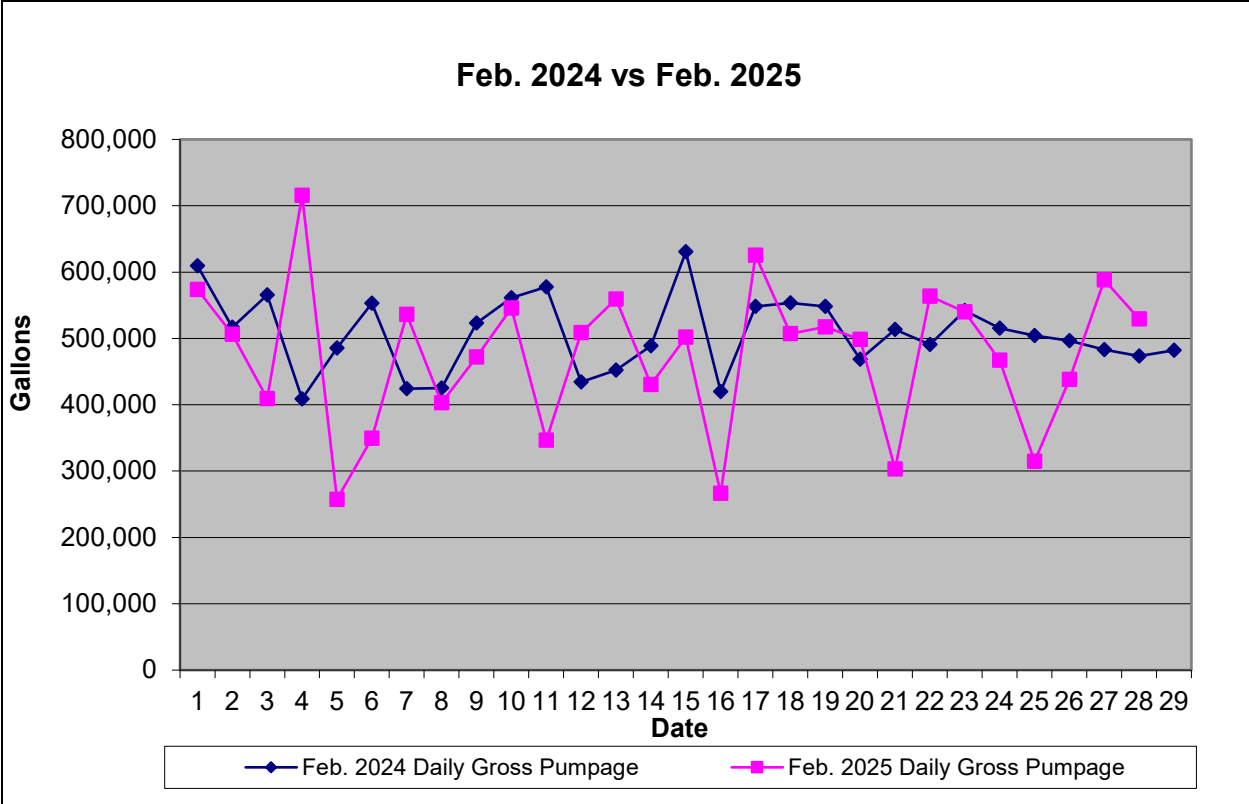
- Water meter readings were completed for the month of February.

Meter Activities

Dig Safes	New	Final	Turn on/off	Repair	Replace & Install Radio	Inspections
193	2	18	7	13	15	18

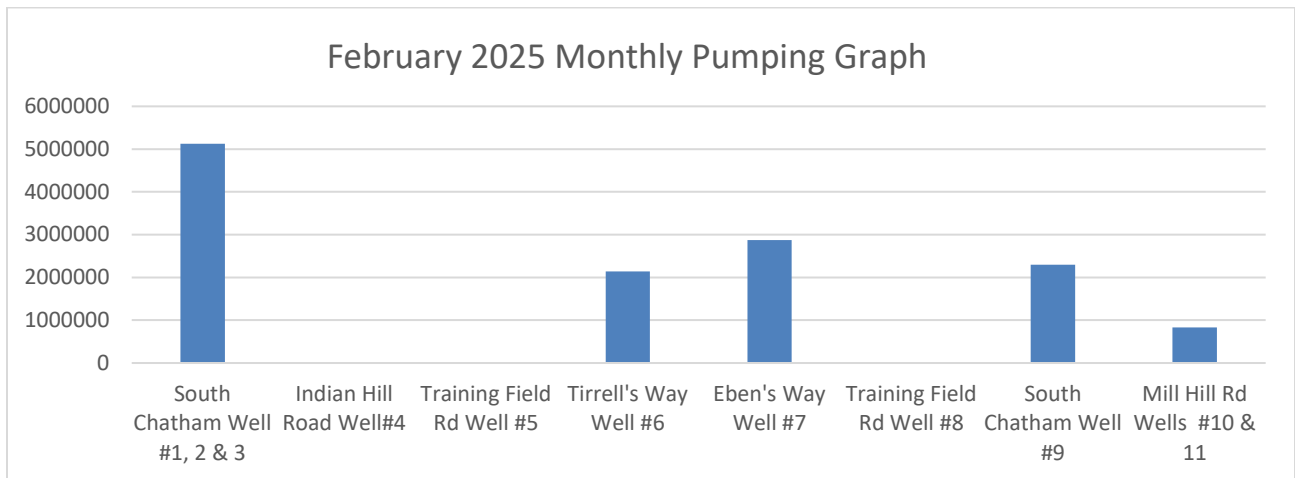
Pumping Comparison February 2024 vs 2025

DATE	Feb. 2024 Daily Gross Pumpage	Feb. 2025 Daily Gross Pumpage	Feb. 2024 vs. Feb. 2025 Increase / Decrease (Gallons)	Feb. 2024 vs. Feb. 2025 Increase / Decrease (Percent)
1	609,400	573,700	(35,700)	-6%
2	516,800	506,300	(10,500)	-2%
3	565,700	409,400	(156,300)	-28%
4	408,900	715,600	306,700	75%
5	485,500	257,500	(228,000)	-47%
6	552,900	349,600	(203,300)	-37%
7	424,300	535,900	111,600	26%
8	425,000	402,800	(22,200)	-5%
9	522,900	471,900	(51,000)	-10%
10	561,400	545,600	(15,800)	-3%
11	577,700	346,400	(231,300)	-40%
12	434,300	508,800	74,500	17%
13	452,400	559,500	107,100	24%
14	488,700	430,700	(58,000)	-12%
15	630,500	502,000	(128,500)	-20%
16	419,800	266,600	(153,200)	-36%
17	548,300	625,200	76,900	14%
18	553,500	507,200	(46,300)	-8%
19	548,400	517,500	(30,900)	-6%
20	468,700	498,400	29,700	6%
21	513,400	302,900	(210,500)	-41%
22	490,800	563,800	73,000	15%
23	541,700	539,900	(1,800)	0%
24	515,600	467,300	(48,300)	-9%
25	504,200	314,600	(189,600)	-38%
26	496,600	438,400	(58,200)	-12%
27	483,100	588,100	105,000	22%
28	473,200	529,500	56,300	12%
29	481,900		(481,900)	-100%
Total	14,695,600	13,275,100	(1,420,500)	-9.7%



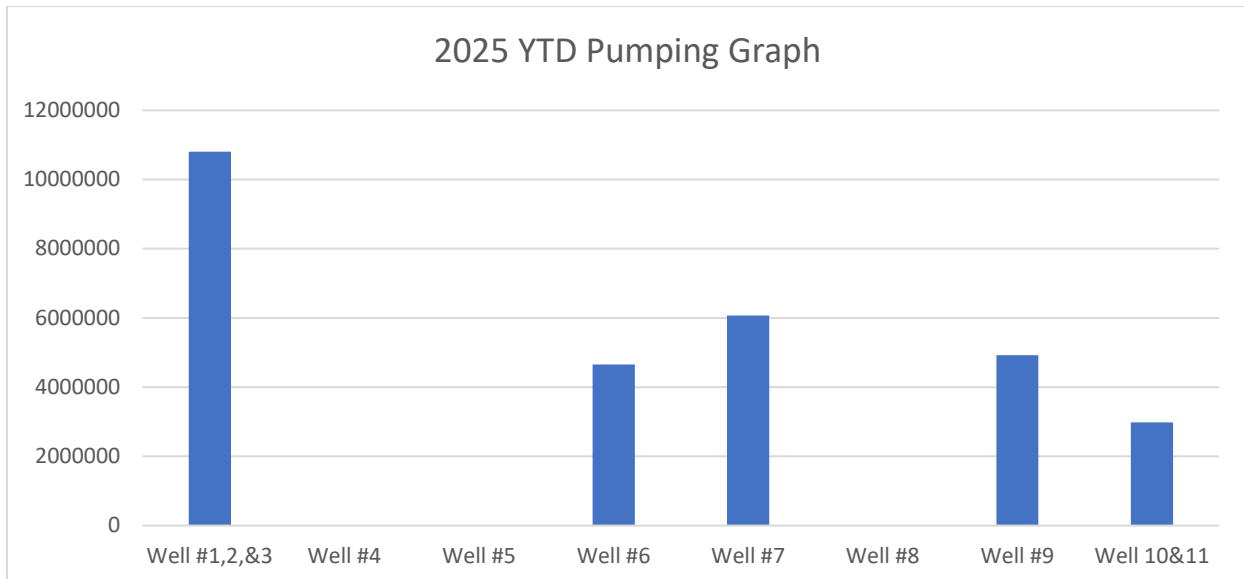
February 2025 Monthly Pumping

Chatham Water Department MONTHLY PUMPAGE REPORT						FEB. 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		186,000			90,900	114,200		86,000	96,600	573,700
2		151,400			95,800	132,800		59,000	67,300	506,300
3		120,500			77,100	96,500		78,900	36,400	409,400
4		284,700			84,100	116,500		131,900	98,400	715,600
5		90,200			39,500	52,200		42,500	33,100	257,500
6		91,600			77,700	96,700		40,200	43,400	349,600
7		215,200			46,600	74,100		86,500	113,500	535,900
8		149,700			64,900	79,100		76,500	32,600	402,800
9		140,200			82,500	109,000		88,800	51,400	471,900
10		302,300			67,200	89,800		42,100	44,200	545,600
11		170,200			42,700	56,400		77,100		346,400
12		228,100			82,500	109,100		89,100		508,800
13		236,900			95,000	125,300		102,300		559,500
14		182,200			73,000	96,600		78,900		430,700
15		212,300			85,300	112,600		91,800		502,000
16		114,800			44,800	59,000		48,000		266,600
17		277,400			102,700	135,100		110,000		625,200
18		201,700			87,400	124,500		93,600		507,200
19		226,800			73,200	126,300		91,200		517,500
20		215,900			83,100	109,800		89,600		498,400
21		106,000			57,800	76,800		62,300		302,900
22		208,100			104,600	138,400		112,700		563,800
23		219,600			94,100	124,700		101,500		539,900
24		181,600			82,600	109,800		84,700	8,600	467,300
25		11,400			57,900	83,400		60,400	101,500	314,600
26		187,700			64,700	78,200		75,700	32,100	438,400
27		182,200			100,100	132,300		107,700	65,800	588,100
28		231,300			85,600	113,100		92,200	7,300	529,500
Total		5,126,000			2,143,400	2,872,300		2,301,200	832,200	13,275,100
								Minimum		257,500
								Maximum		715,600
								Average		474,111

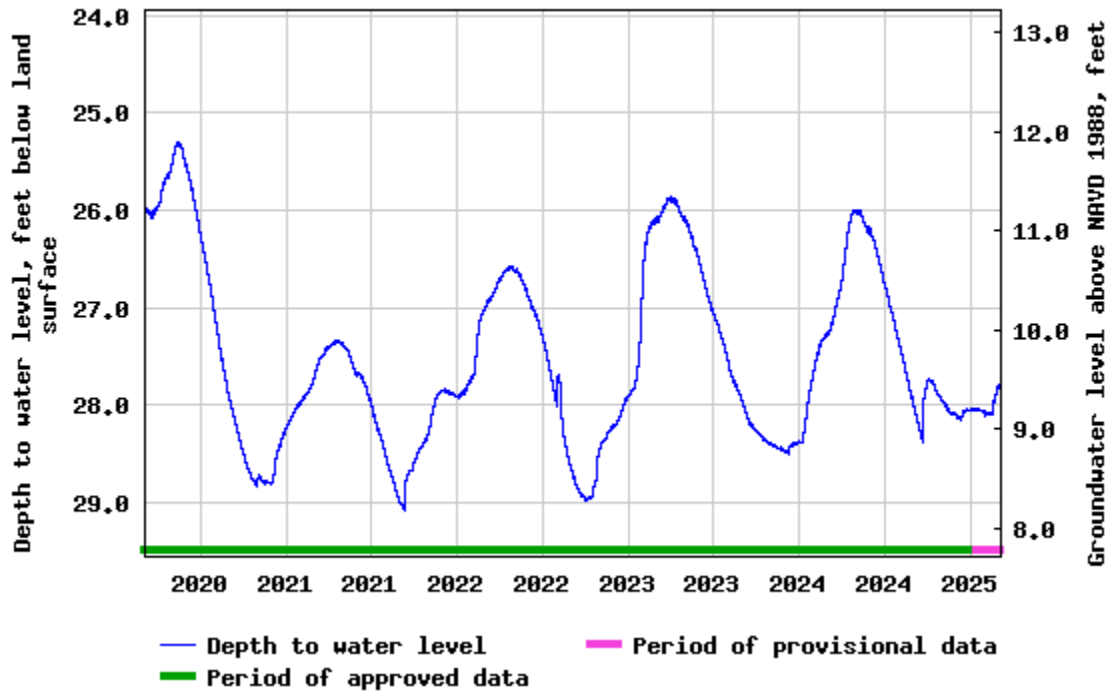


2025 YTD Pumping

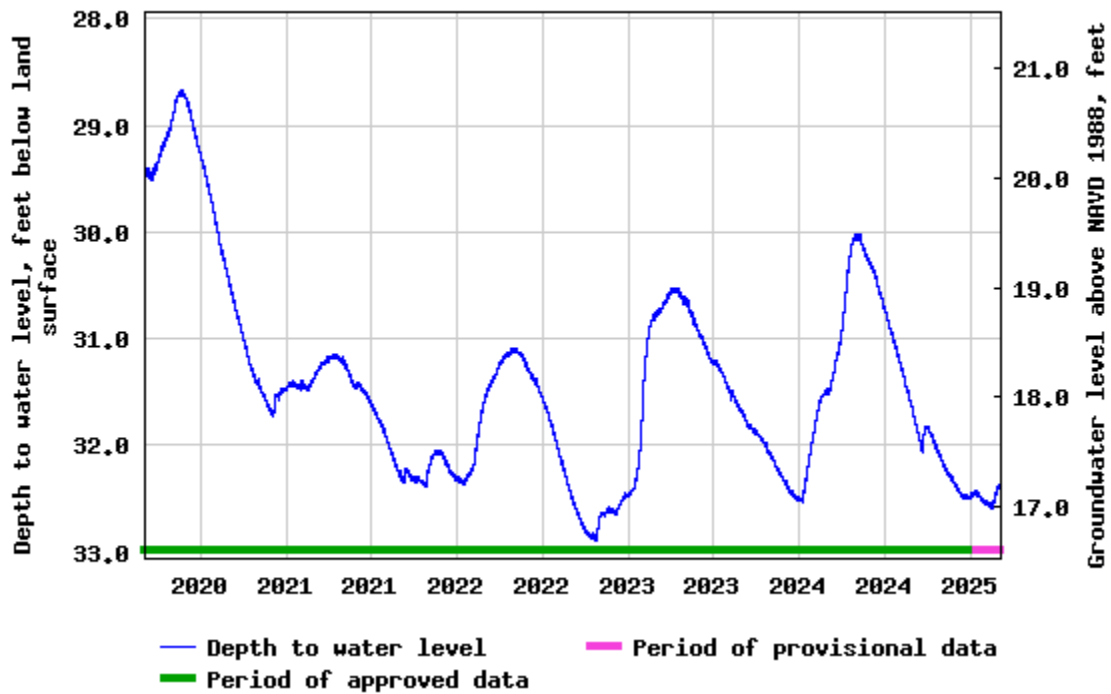
	Well #1,2,&3	Well #4	Well #5	Well #6	Well #7	Well #8	Well #9	Well 10&11	Monthly Total	Last Years Pumping	Variance
January	5,680,400	0	0	2,509,200	3,195,700	0	2,623,300	2,148,600	16,157,200	16,575,600	-418,400
February	5,126,000	0	0	2,143,400	2,872,300	0	2,301,200	832,200	13,275,100	14,695,600	-1,420,500
March											0
April									0		0
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	10,806,400	0	0	4,652,600	6,068,000	0	4,924,500	2,980,800	29,432,300	31,271,200	-1,838,900



USGS 414181070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BMW 22R BREWSTER, MA



Chatham 5-year Pumping Comparison (Month of February)

February Date	February 2021 Daily Gross Pumpage	Hours	February 2022 Daily Gross Pumpage	Hours	February 2023 Daily Gross Pumpage	Hours	February 2024 Daily Gross Pumpage	Hours	February 2025 Daily Gross Pumpage	Hours	Average Daily Pumpage (gallons)	Average Daily Pumpage (hours)
1	440,900	4.5	702,700	4.5	496,000	4	609,400	7	573,700	6.25	564,540	5.25
2	526,400	5	698,000	6	501,300	4	516,800	6	506,300	6	549,760	5.4
3	553,900	4	731,000	5.25	608,600	4	565,700	7	409,400	5.75	573,720	5.2
4	551,500	5	601,200	4	740,900	7	408,900	5.75	715,600	7.75	603,620	5.9
5	457,500	5	604,700	4.25	815,700	6	485,500	7	257,500	4	524,180	5.25
6	586,100	5	618,600	4.25	775,700	5	552,900	7.75	349,600	4.25	576,580	5.25
7	618,700	5	578,100	4	612,300	4	424,300	4	535,900	4.75	553,860	4.35
8	488,000	5	545,300	3.25	790,400	5	425,000	4	402,800	3.75	530,300	4.2
9	464,800	4	439,800	3	777,300	6	522,900	4	471,900	4.25	535,340	4.25
10	625,700	5	620,300	4.25	475,800	5	561,400	5	545,600	5	565,760	4.85
11	585,100	5	473,500	3.5	635,500	5	577,700	5	346,400	4	523,640	4.5
12	470,800	3.5	580,800	4	589,000	4	434,300	3	508,800	3.5	516,740	3.6
13	674,500	4.75	587,500	4	678,100	4.5	452,400	4	559,500	4.5	590,400	4.35
14	572,800	4.5	466,900	3.25	589,200	5	488,700	3	430,700	3	509,660	3.75
15	590,700	4	619,400	4	662,400	4	621,700	6	502,000	5.25	599,240	4.65
16	557,200	3.5	609,800	4.5	449,500	4	419,800	4	266,600	2.5	460,580	3.7
17	600,800	4	512,900	3	627,300	5	548,300	6	625,200	6.5	582,900	4.9
18	551,700	3.5	491,200	3.25	783,500	5	553,500	8	507,200	6.5	577,420	5.25
19	522,300	4	588,600	5.75	611,600	6	548,400	8	517,500	6.5	557,680	6.05
20	539,200	3	643,200	4.5	732,900	5	468,700	7.75	498,400	6	576,480	5.25
21	548,300	3	627,900	4.5	654,800	5	513,400	3.5	302,900	3	529,460	3.8
22	606,400	4	625,400	4.25	595,100	5	490,800	7.75	563,800	7.5	576,300	5.7
23	533,400	4	584,600	4.25	606,800	4	541,700	7.75	539,900	7.25	561,280	5.45
24	537,100	3	453,600	3	473,200	4	515,600	7	467,300	6.5	489,360	4.7
25	501,600	3	636,200	4	603,300	4	504,200	7.5	314,600	5	511,980	4.7
26	503,600	3	536,700	4	674,600	4	496,600	7.25	438,400	6.5	529,980	4.95
27	521,700	3	666,300	5	633,300	3	483,100	5.5	588,100	6	578,500	4.5
28	614,600	3	492,000	3.5	603,900	4	473,200	6.75	529,500	6.5	542,640	4.75
29							481,900	6.5			481,900	6.5
30												
31												
Total	15,345,300	113	16,336,200	115	17,798,000	131	14,686,800	172	13,275,100	148	15,873,800	140.95