



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: April 3, 2024 (for the April 9, 2024 SB Meeting)

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

The following is a water supply update for the month of March 2024:

Training Field Wells 5 and 8 - Permanent Treatment Facility

Temporary Treatment at Well 5:

1. Project Update:
 - PFAS samples for Well 5 were taken while running the water to waste in anticipation of summer use of the well.
 - The GAC filter at Well 5 was backwashed in preparation for summer use.
 - Well 5 is anticipated to go on-line for summer around mid-April.

Permanent Treatment Facility at Wells 5 & 8:

1. Project Update:
 - General Contract Bids were opened on March 28th. There were 3 General Contractor's who submitted bids and the apparent low bidder is Winston Builders Corporation with the projected cost of \$15,862,889. This amount is within budgeted limits.

Mill Pond Wells 10 and 11 - Pumping & Treatment Construction

Project Progress

1. The Conservation Easement has been approved by DEP. It has been forwarded to the Secretary of Energy and Environmental Affairs for their approval.
2. MassDEP inspection of treatment plant is scheduled for early April.

Chatham Water Pumping Status:

For the month of March, wells have been running 4-6 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 March and the results reported to DEP. All samples were free of bacteria.

System Maintenance

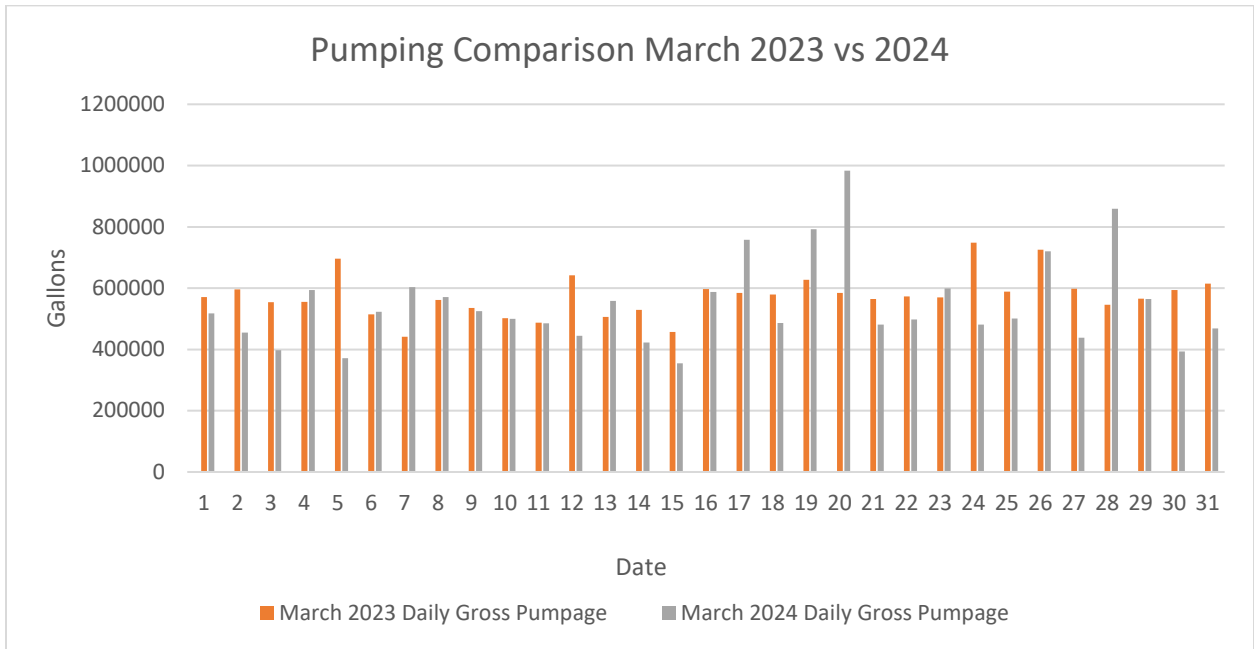
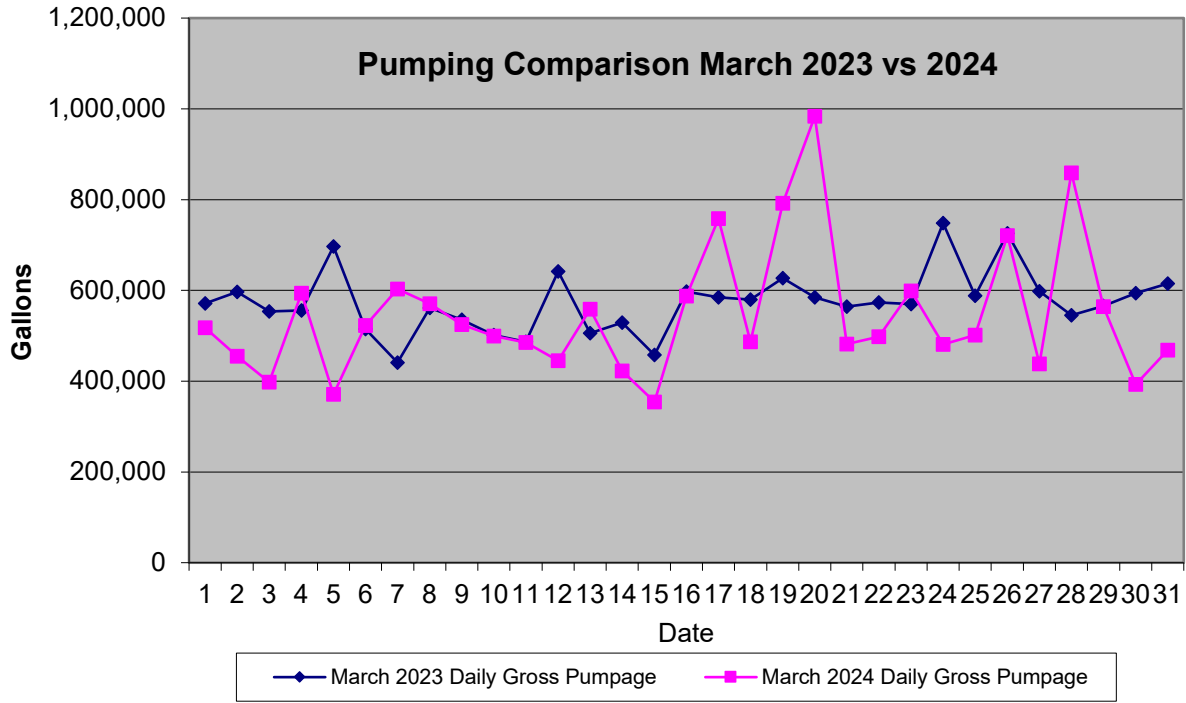
- Annual flushing of the distribution system began.
- Verizon replaced the raceway cover that was damaged during high winds on the 1.35 MG storage tank.

Compliance

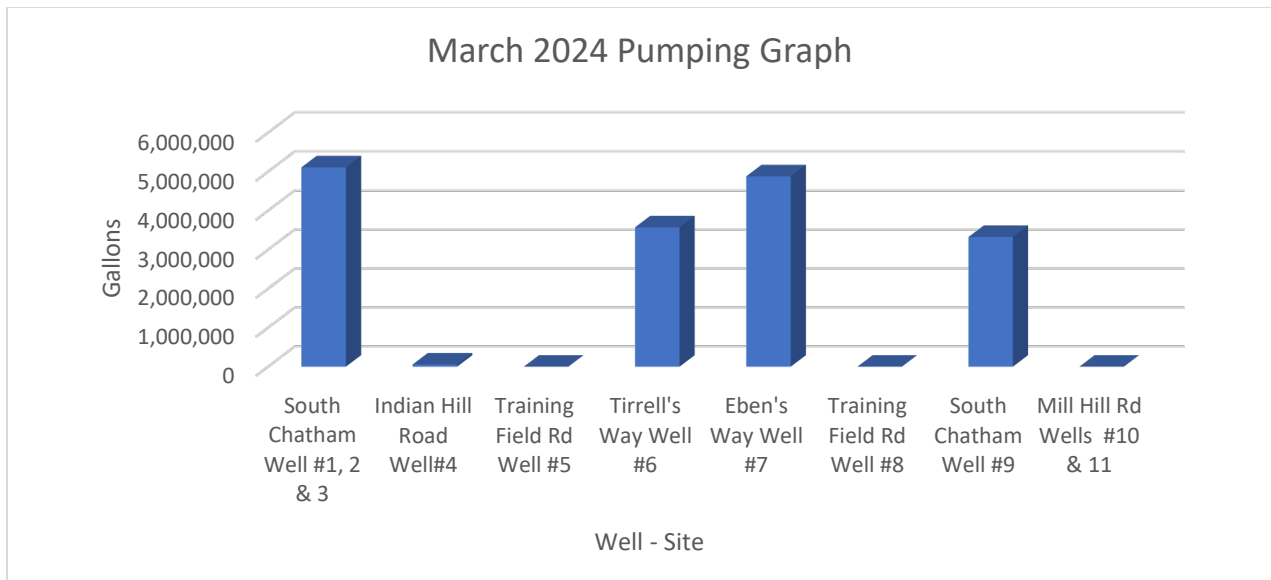
- The 2023 Annual Statistical Report was submitted to DEP.

**Pumping Comparison
March 2023 vs. March 2024**

DATE	March 2023 Daily Gross Pumpage	March 2024 Daily Gross Pumpage	March 2023 vs. March 2024 Increase / Decrease (Gallons)	March 2023 vs March 2024 Increase / Decrease (Percent)
1	570,900	518,000	(52,900)	-9%
2	596,300	455,000	(141,300)	-24%
3	553,900	397,600	(156,300)	-28%
4	555,600	593,900	38,300	7%
5	696,400	371,000	(325,400)	-47%
6	514,600	522,800	8,200	2%
7	440,900	603,200	162,300	37%
8	561,200	570,600	9,400	2%
9	535,000	524,600	(10,400)	-2%
10	501,600	499,500	(2,100)	0%
11	486,900	485,000	(1,900)	0%
12	641,800	444,900	(196,900)	-31%
13	505,800	558,800	53,000	10%
14	529,100	422,500	(106,600)	-20%
15	457,400	354,400	(103,000)	-23%
16	597,200	587,800	(9,400)	-2%
17	584,700	758,100	173,400	30%
18	579,600	486,400	(93,200)	-16%
19	626,700	792,100	165,400	26%
20	584,900	983,600	398,700	68%
21	564,300	481,500	(82,800)	-15%
22	573,200	498,200	(75,000)	-13%
23	569,500	598,800	29,300	5%
24	748,200	480,700	(267,500)	-36%
25	588,100	501,300	(86,800)	-15%
26	725,400	720,400	(5,000)	-1%
27	598,300	437,700	(160,600)	-27%
28	545,500	859,200	313,700	58%
29	565,700	564,100	(1,600)	0%
30	593,800	392,800	(201,000)	-34%
31	615,000	468,400	(146,600)	-24%
Total	17,807,500	16,932,900	(874,600)	-4.9%

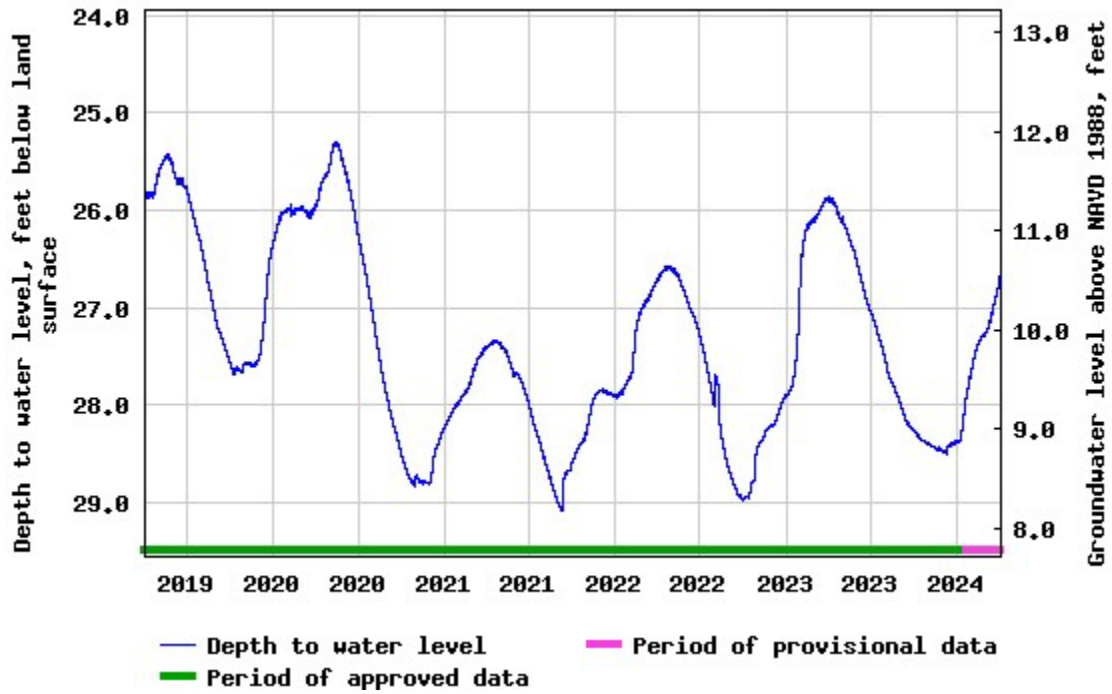


DATE	DAY	South Chatham Well #1, 2 & 3	Indian Hill Road Well#4	Training Field Rd Well #5	Tirrell's Way Well #6	Eben's Way Well #7	Training Field Rd Well #8	South Chatham Well #9	Mill Hill Rd Wells #10 & 11	Daily Gross Pumpage	7 Day Pumpage Totals
1		518,000								518,000	518,000
2		455,000								455,000	973,000
3		397,600								397,600	
4		538,900	55,000							593,900	1,964,500
5		219,100			45,900	62,800		43,200		371,000	2,335,500
6					136,600	262,900		123,300		522,800	2,858,300
7		143,300			168,300	168,300		123,300		603,200	3,461,500
8		67,600			226,500	160,600		115,900		570,600	3,514,100
9					154,100	224,700		145,800		524,600	3,583,700
10					137,700	210,500		151,300		499,500	3,685,600
11		86,200			108,300	190,700		99,800		485,000	3,576,700
12					124,600	172,200		148,100		444,900	3,650,600
13					158,900	267,000		132,900		558,800	3,686,600
14					110,700	155,900		155,900		422,500	3,505,900
15		58,500			90,900	122,000		83,000		354,400	3,289,700
16		227,400			101,400	154,000		105,000		587,800	3,352,900
17		218,500			149,500	238,700		151,400		758,100	3,611,500
18		93,500			106,400	163,400		123,100		486,400	3,612,900
19		588,600			125,900	57,300		20,300		792,100	3,960,100
20		552,300			140,800	161,800		128,700		983,600	4,384,900
21					149,500	197,500		134,500		481,500	4,443,900
22					154,800	204,200		139,200		498,200	4,587,700
23					174,800	275,600		148,400		598,800	4,598,700
24					137,100	183,900		159,700		480,700	4,321,300
25					160,900	175,400		165,000		501,300	4,336,200
26					219,800	313,300		187,300		720,400	4,264,500
27					118,700	175,400		143,600		437,700	3,718,600
28		82,100			213,700	340,200		223,200		859,200	4,096,300
29					155,200	239,100		169,800		564,100	4,162,200
30		392,800								392,800	3,956,200
31		468,400								468,400	3,943,900
Total		5,107,800	55,000		3,571,000	4,877,400		3,321,700		16,932,900	16,932,900

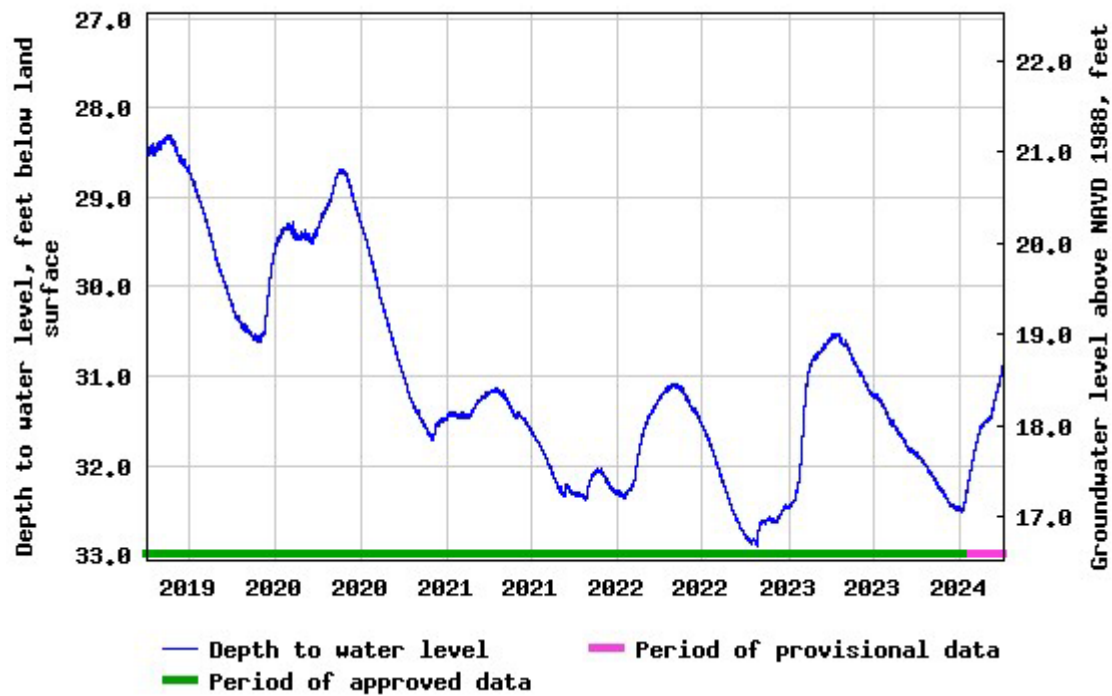


USGS Observation Well Data

USGS 414101070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BMW 22R BREWSTER, MA



Chatham 5-year Pumping Comparison (Month of March)

March Date	March 2020 Daily Gross Pumpage	Hours	March 2021 Daily Gross Pumpage	Hours	March 2022 Daily Gross Pumpage	Hours	March 2023 Daily Gross Pumpage	Hours	March 2024 Daily Gross Pumpage	Hours	Average Daily Pumpage (gallons)	Average Daily Pumpage (hours)
1	553,700	3	526,600	4	727,000	4	570,900	3	518,000	7	579,240	4.2
2	467,400	4	553,900	4	546,200	4	596,300	3	455,000	6.5	523,760	4.3
3	410,800	4	572,900	4.5	479,100	4	553,900	3	397,600	7.25	482,860	4.55
4	441,400	3	525,000	4	552,600	3	555,600	2.75	593,900	7.5	533,700	4.05
5	386,100	3	552,000	4.5	507,500	4	696,400	3	371,000	4	502,600	3.7
6	467,700	2	669,500	4.5	624,900	4.25	514,600	3	522,800	2	559,900	3.15
7	439,100	3	550,100	4.75	584,700	4.25	440,900	3	603,200	4	523,600	3.8
8	417,300	3	566,900	4	582,100	4	561,200	3	570,600	3	539,620	3.4
9	464,400	5	626,900	4	494,700	4	535,000	3	524,600	2	529,120	3.6
10	447,600	4	483,300	3	561,700	4	501,600	4	499,500	6	498,740	4.2
11	373,500	3	552,700	3	456,400	3	486,900	3	485,000	6	470,900	3.6
12	509,800	3	556,900	3	600,900	4	641,800	3.5	444,900	5	550,860	3.7
13	430,600	3	590,700	4	665,300	4	505,800	3	558,800	6	550,240	4
14	539,000	3.25	628,400	3	488,200	4	529,100	3	422,500	6	521,440	3.85
15	547,600	3	558,400	3	747,300	7	457,400	3	354,400	7	533,020	4.6
16	646,900	3	484,800	3	516,900	3	597,200	3	587,800	4	566,720	3.2
17	379,200	3	535,900	5	515,100	4	584,700	3	758,100	4	554,600	3.8
18	632,700	4	512,400	5	532,000	4	579,600	3	486,400	4	548,620	4
19	524,000	3	607,500	6	489,100	4	626,700	3	792,100	6	607,880	4.4
20	502,500	2	572,200	3	611,000	3	584,900	3	983,600	10.5	650,840	4.3
21	586,400	2	628,500	6	671,800	42	564,300	3	481,500	5	586,500	11.6
22	586,700	2	695,500	3	559,800	2	573,200	3	498,200	4	582,680	2.8
23	530,700	3	615,900	5	655,900	3	569,500	3	598,800	5	594,160	3.8
24	546,400	4.5	646,500	4	449,200	3	748,200	4	480,700	6	574,200	4.3
25	569,000	3	562,300	3.5	434,400	4	588,100	3	501,300	6	531,020	3.9
26	577,800	3	737,600	4.25	576,900	4	725,400	3	720,400	8	667,620	4.45
27	459,900	3	630,900	4	514,900	5	598,300	4	437,700	7	528,340	4.6
28	599,900	4	570,400	3.25	556,800	5	545,500	4	859,200	7	626,360	4.65
29	633,600	4	724,800	4	495,300	5	565,700	4	564,100	6	596,700	4.6
30	549,100	5	769,900	5	797,900	4	593,800	3	392,800	5	620,700	4.4
31	617,200	5	652,600	3	680,900	4	615,000	2	468,400	4	606,820	3.6
Total	15,838,000	103	18,461,900	124	17,676,500	161	17,807,500	97	16,932,900	171	17,343,360	131.1

Well Status	Well 4 Offline	Well 4 Offline	Well 4, 5 & 8 Offline	Well 4, 5 & 8 Offline	Well 4, 5 & 8 Offline
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