



*Town of Chatham*  
*Department of Public Works*  
*221 Crowell Road*  
*Chatham, MA 02633*



Tel: (508) 945-5155  
Fax: (508) 945-5152  
[www.chatham-ma.gov](http://www.chatham-ma.gov)

TO: Honorable Select Board  
Jill R. Goldsmith, Town Manager

FROM: Rob Faley, Director, Department of Public Works

DATE: February 4, 2025 (for the February 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 January 2025:

**Training Field Wells 5 and 8 - Permanent Treatment Facility**

1. Project Update:
  - Masons are busy setting concrete block walls.
  - GAC vessel delivery possible in March





### **Mill Pond Wells 10 and 11 - Pumping & Treatment Update**

1. The Conservation Restriction for Well #10 is under review by the Legal Department of the Energy and Environmental Affairs Office to activate Well #10. After last month's report we were able to communicate and advance review comments. We are waiting for a red-lined document for our own internal review.

### **Chatham Water Pumping Status:**

For the month of January, wells have been running 3 - 6 hours a day.

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

### **Water Sampling**

- 8 bacteria samples were taken for the month of January and the results reported to DEP. All samples were free of bacteria.
- First quarter samples were taken for Synthetic Organic Contaminants, Alkalinity, Orthophosphates, Sodium, Radium 226 & 228, Gross Alpha, Volatile Organic Contaminants, Sodium and Nitrates. PFAS6 samples were taken from Well 4, Mill Hill Treatment Plant and Water Treatment Plant. All 3 sites had PFAS detects below the MCL. A special sample was taken from Well 10 to see if that well is still non-detect.

### 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.
- The interior of Well 4 and South Chatham were painted.
- The block heater for the generator at Well 4 was replaced.

### System Maintenance

- Bortolotti repaired water main leaks at Shore Road and Old Harbor Road.
- Bortolotti repaired service leaks at 57 Bay View Lane.
- Bortolotti repaired a leak on Mill Pond Road.
- 2 Fire flow tests were performed for Norian/Siani Engineering.

### Meter Reading

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

### Compliance

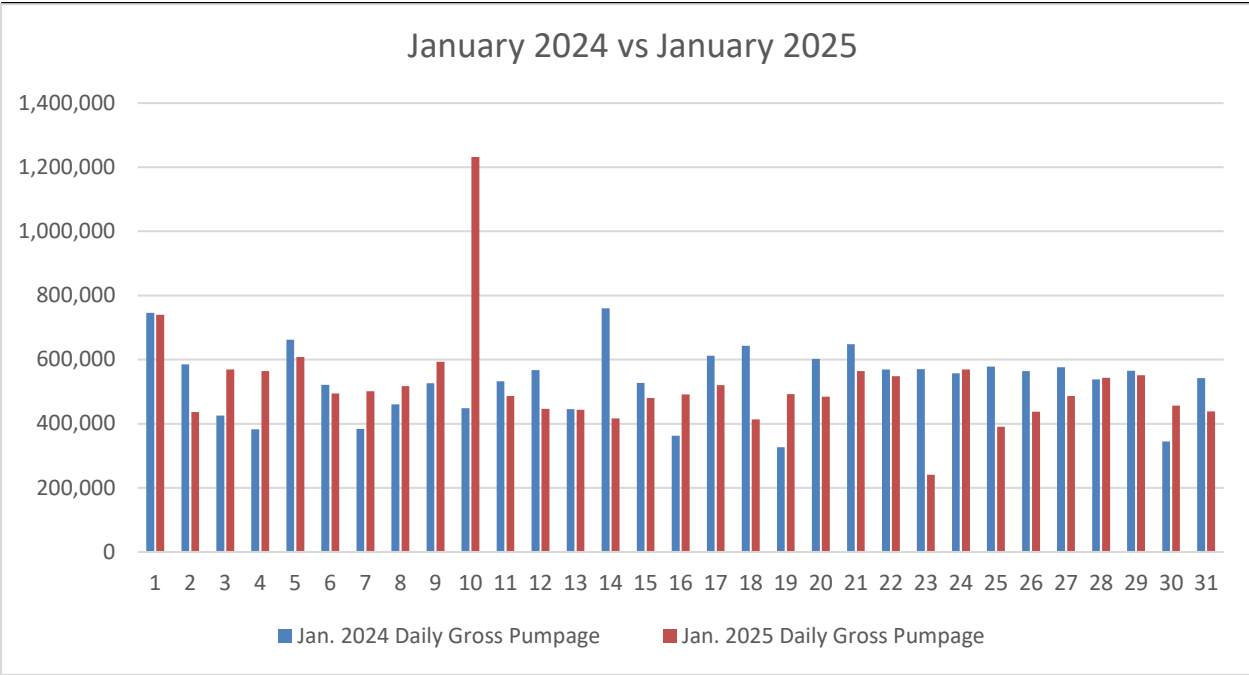
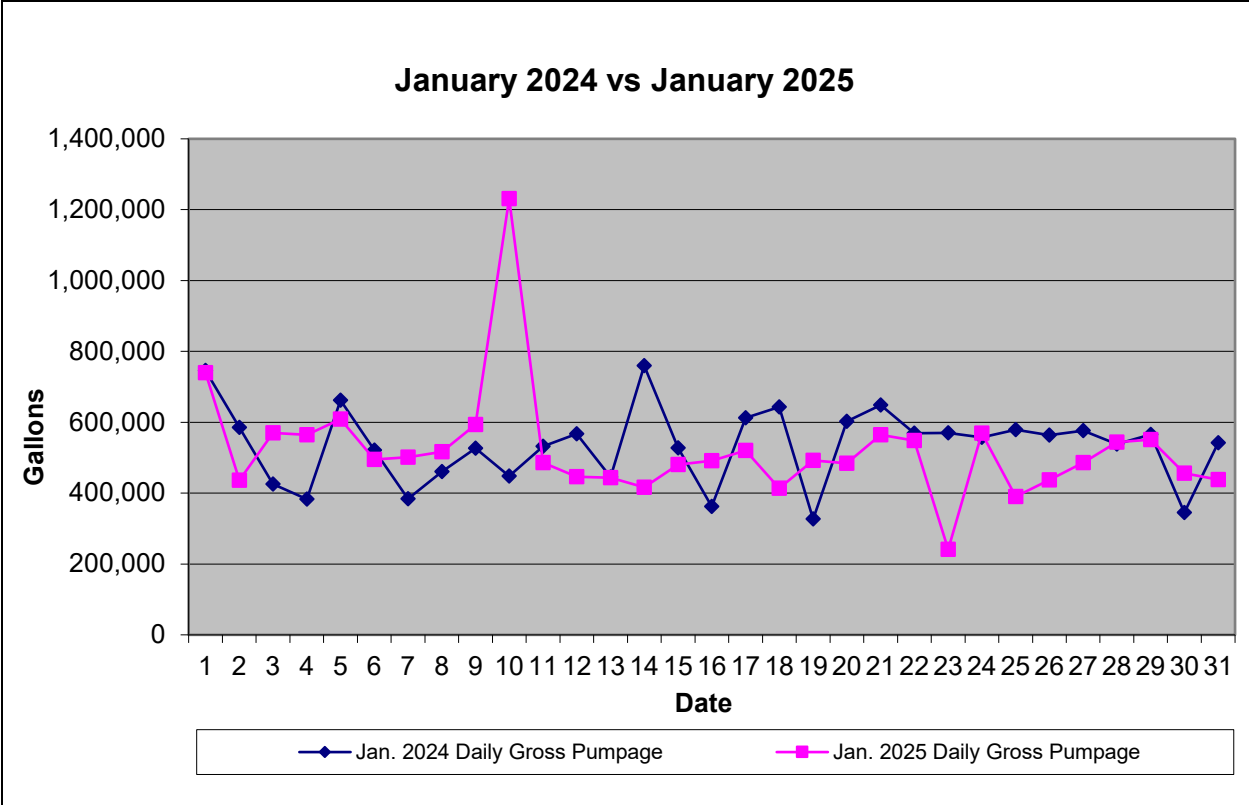
- The 2024 Tier II chemical inventory report was completed and submitted to Barnstable County Regional Emergency Planning Committee, the State Emergency Response Commission and the Chatham Fire Department.
- Completed and submitted 2024 year-end review.

### Meter Activities

Dig Safes	New	Final	Turn on/off	Repair	Replace & Install Radio	Inspections
193	10	15	56	22	23	22

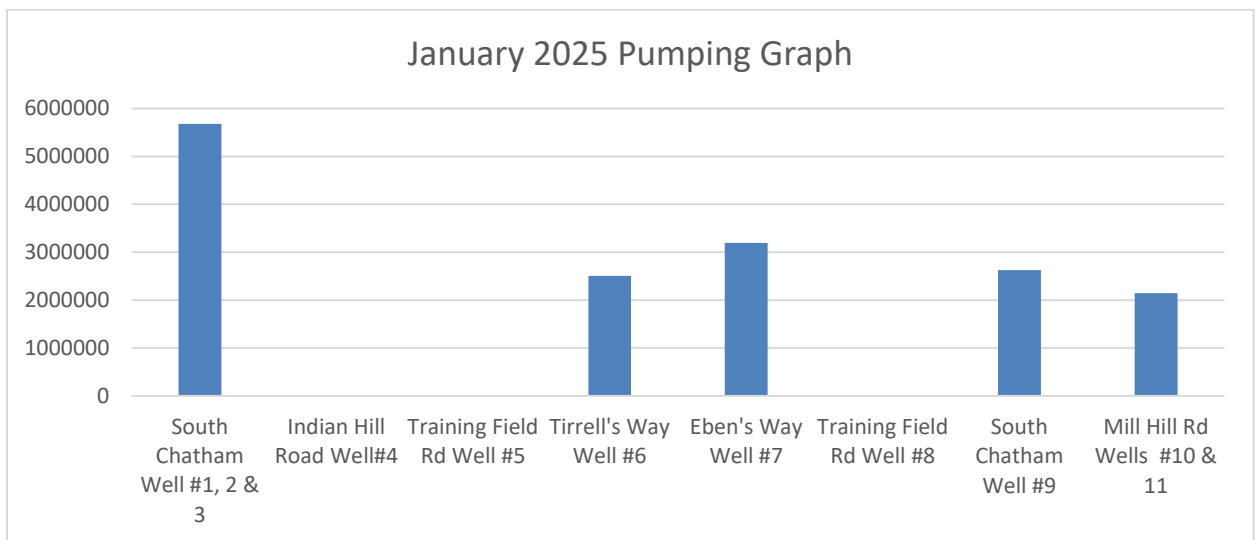
### Pumping Comparison January 2024 vs 2025

DATE	Jan. 2024 Daily Gross Pumpage	Jan. 2025 Daily Gross Pumpage	Jan. 2024 vs. Jan. 2025 Increase / Decrease (Gallons)	Jan. 2024 vs Jan. 2025 Increase / Decrease (Percent)
1	746,300	739,600	(6,700)	-1%
2	585,500	436,700	(148,800)	-25%
3	425,700	569,600	143,900	34%
4	382,700	564,300	181,600	47%
5	662,500	608,600	(53,900)	-8%
6	521,500	494,600	(26,900)	-5%
7	383,600	501,700	118,100	31%
8	460,900	516,900	56,000	12%
9	526,200	593,500	67,300	13%
10	448,200	1,231,400	783,200	175%
11	531,800	485,900	(45,900)	-9%
12	567,600	446,100	(121,500)	-21%
13	445,700	443,700	(2,000)	0%
14	759,700	416,800	(342,900)	-45%
15	527,300	480,100	(47,200)	-9%
16	362,200	491,700	129,500	36%
17	612,600	520,100	(92,500)	-15%
18	642,900	413,800	(229,100)	-36%
19	326,600	491,900	165,300	51%
20	602,300	484,400	(117,900)	-20%
21	648,300	564,400	(83,900)	-13%
22	569,000	548,300	(20,700)	-4%
23	570,100	241,000	(329,100)	-58%
24	557,000	569,100	12,100	2%
25	578,600	390,500	(188,100)	-33%
26	563,900	437,300	(126,600)	-22%
27	576,600	486,200	(90,400)	-16%
28	538,300	543,500	5,200	1%
29	565,100	551,000	(14,100)	-2%
30	345,100	456,300	111,200	32%
31	541,800	438,200	(103,600)	-19%
<b>Total</b>	<b>16,575,600</b>	<b>16,157,200</b>	<b>(418,400)</b>	<b>-2.5%</b>

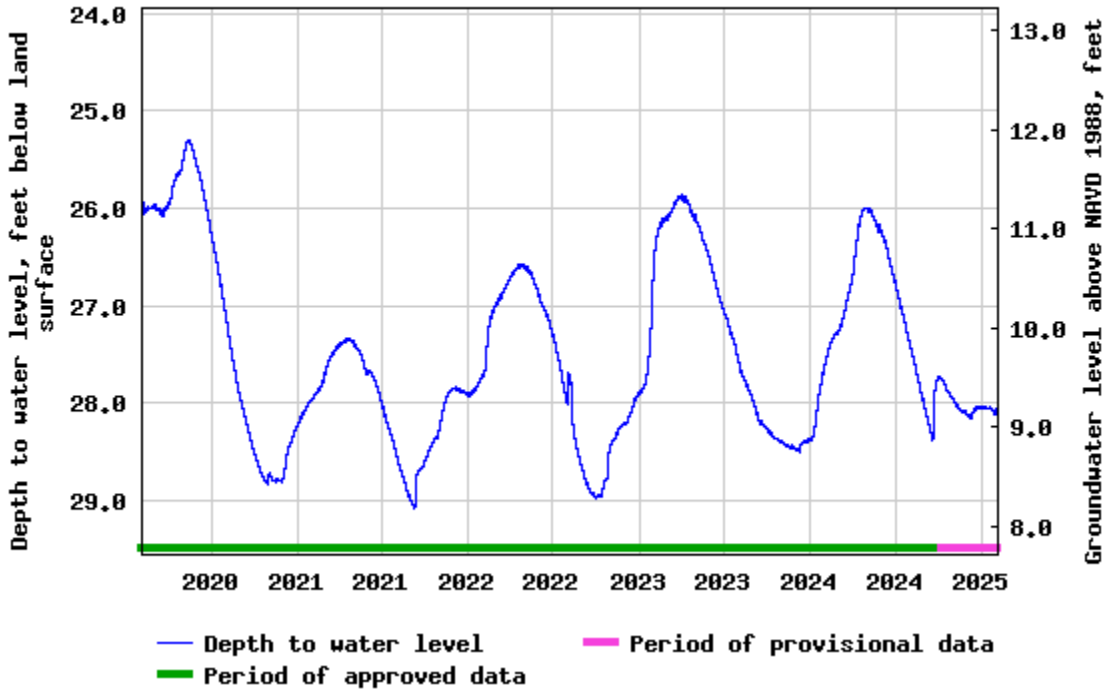


## January 2025 Monthly Pumping

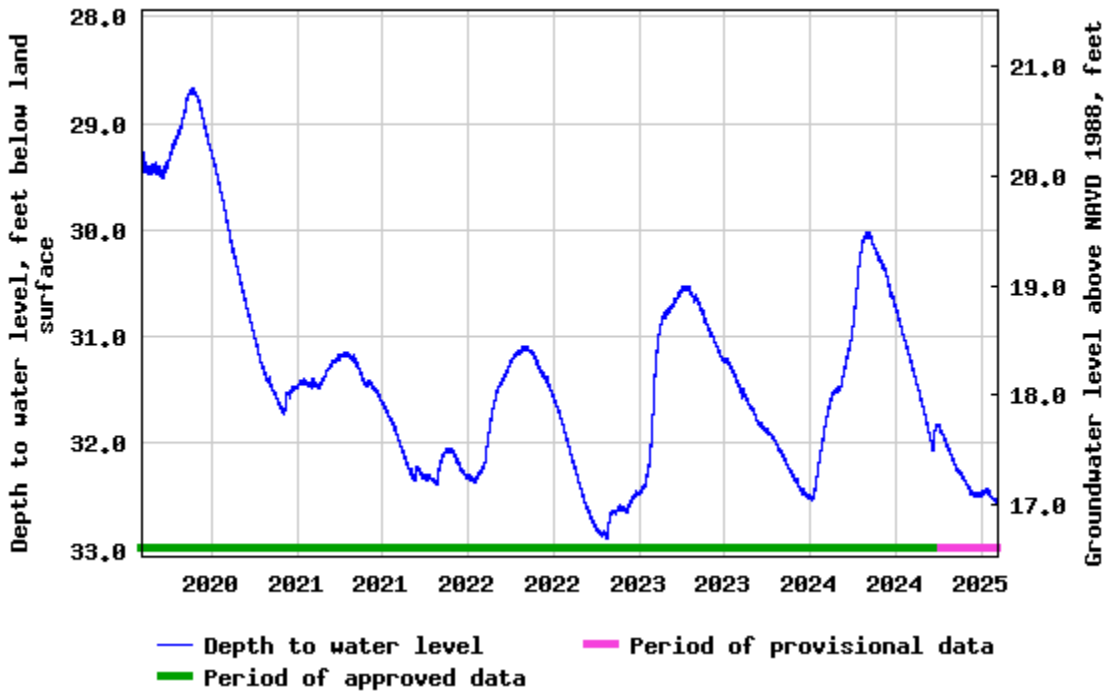
DATE	DAY	South Chatham Well #1, 2 & 3	Indian Hill Road Well#4	Training Field Rd Well #5	Tirrell's Way Well #6	Eben's Way Well #7	Training Field Rd Well #8	South Chatham Well #9	Mill Hill Rd Wells #10 & 11	Daily Gross Pumpage
1		37,700			162,100	229,600		153,200	157,000	739,600
2		120,400			60,700	60,700		83,500	111,400	436,700
3		113,000			115,500	150,800		123,200	67,100	569,600
4		205,100			90,400	102,300		83,400	83,100	564,300
5		257,500			81,900	107,400		92,600	69,200	608,600
6		135,000			100,800	128,400		99,500	30,900	494,600
7		191,600			75,600	91,500		74,500	68,500	501,700
8		197,700			75,600	95,300		77,400	70,900	516,900
9		193,200			100,800	122,800		100,300	76,400	593,500
10		609,800			123,700	152,000		123,700	222,200	1,231,400
11		307,800			30,200	39,700		32,300	75,900	485,900
12		272,200			25,200	33,400		27,000	88,300	446,100
13		71,600			107,000	139,800		114,300	11,000	443,700
14		93,100			37,800	94,800		40,600	150,500	416,800
15		82,700			125,800	104,200		121,800	45,600	480,100
16		491,700								491,700
17		196,900			75,600	97,500		79,400	70,700	520,100
18		87,000			88,200	114,000		92,900	31,700	413,800
19		87,600			113,400	142,700		116,200	32,000	491,900
20		84,200			114,300	140,400		114,600	30,900	484,400
21		266,600			62,000	76,500		62,000	97,300	564,400
22		187,000			95,200	113,300		92,300	60,500	548,300
23		88,700			31,500	44,800		36,500	39,500	241,000
24		215,800			81,900	108,000		88,200	75,200	569,100
25		145,800			50,400	66,500		59,200	68,600	390,500
26		140,700			69,300	92,600		70,500	64,200	437,300
27		187,100			75,600	101,200		82,500	39,800	486,200
28		214,300			85,400	112,300		90,600	40,900	543,500
29		102,500			130,200	171,200		139,600	7,500	551,000
30		102,800			69,700	92,300		75,400	116,100	456,300
31		193,300			53,400	69,700		76,100	45,700	438,200
<b>Total</b>		<b>5,680,400</b>			<b>2,509,200</b>	<b>3,195,700</b>		<b>2,623,300</b>	<b>2,148,600</b>	<b>16,157,200</b>
								Minimum		241,000
								Maximum		1,231,400
								Average		521,200



USGS 414181070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BMW 22R BREWSTER, MA



### Chatham 5-year Pumping Comparison (Month of January)

January Date	January 2021 Daily Gross Pumpage	Hours	January 2022 Daily Gross Pumpage	Hours	January 2023 Daily Gross Pumpage	Hours	January 2024 Daily Gross Pumpage	Hours	January 2025 Daily Gross Pumpage	Hours	Average Daily Pumpage (gallons)	Average Daily Pumpage (hours)
1	684,300	6.75	512,000	4	848,200	7	746,300	8	739,600	6.75	706,080	6.5
2	603,500	5	600,700	4	631,600	5	585,500	7	436,700	6	571,600	5.4
3	635,300	5.5	526,400	3.75	576,800	4.75	425,700	6	569,600	5	546,760	5
4	506,900	5	484,900	3.5	578,900	4.5	382,700	3	564,300	4	503,540	4
5	439,400	5.75	434,700	3.75	572,100	3	662,500	6.25	608,600	3	543,460	4.35
6	537,900	5.75	359,700	2.5	607,000	4	521,500	3	494,600	3.75	504,140	3.8
7	580,800	4.25	541,700	3.5	419,200	2.75	383,600	6.25	501,700	3	485,400	3.95
8	436,800	4.5	556,400	4.25	561,900	3.5	460,900	6	516,900	3	506,580	4.25
9	579,200	4.75	463,500	3.25	549,200	3.5	526,200	6	593,500	3.25	542,320	4.15
10	500,900	4	704,300	4.5	592,100	4	448,200	6	1,231,400	5	695,380	4.7
11	590,800	4.5	472,800	3.25	810,100	4.5	531,800	7	485,900	4.5	578,280	4.75
12	426,700	3.75	592,300	4	459,100	3	567,600	6	446,100	4	498,360	4.15
13	475,800	3.5	513,700	3.5	490,700	2.75	445,700	7	443,700	3.25	473,920	4
14	495,800	3	654,600	4.5	579,300	3.75	759,700	3	416,800	3	581,240	3.45
15	489,500	3.5	442,600	3.5	587,200	3.75	527,300	3	480,100	4.25	505,340	3.6
16	545,700	3.5	534,900	4.5	564,700	3.25	362,200	3	491,700	4	499,840	3.65
17	602,700	4.75	567,100	5	423,200	4.5	612,600	3	520,100	3.5	545,140	4.15
18	562,600	2.5	681,700	4.5	534,500	4.5	642,900	4.5	413,800	4	567,100	4
19	531,900	3.25	433,900	3	510,400	3	326,600	7.25	491,900	4.5	458,940	4.2
20	477,100	4	437,500	3.5	500,800	3	602,300	8.5	484,400	4.25	500,420	4.65
21	514,800	5	532,700	4	550,200	3.75	648,300	4	564,400	3	562,080	3.95
22	454,600	4	611,800	4.5	437,100	3	569,000	8.5	548,300	3.25	524,160	4.65
23	593,500	5	446,700	4	609,300	4.5	570,100	8	241,000	3	492,120	4.9
24	526,100	4	476,000	4	490,900	3.5	557,000	6.25	569,100	3	523,820	4.15
25	517,000	5	443,700	3	487,600	2.75	578,600	8.5	390,500	4	483,480	4.65
26	486,100	4.5	493,400	4	508,300	3	563,900	8	437,300	3	497,800	4.5
27	513,300	4.5	517,900	4	395,400	3.5	576,600	8.25	486,200	3	497,880	4.65
28	482,100	5	411,300	3	600,700	3.75	538,300	7.75	543,500	4	515,180	4.7
29	523,200	5.5	470,400	3.25	585,500	3.75	565,100	7.75	551,000	3.5	539,040	4.75
30	460,300	4.25	591,500	3.5	604,100	3.75	345,100	5	456,300	3	491,460	3.9
31	596,600	5	616,100	3.25	513,400	2.75	541,800	7.75	438,200	3	785,080	4.35
<b>Total</b>	<b>16,371,200</b>	<b>139</b>	<b>16,126,900</b>	<b>117</b>	<b>17,179,500</b>	<b>116</b>	<b>16,575,600</b>	<b>190</b>	<b>16,157,200</b>	<b>118</b>	<b>16,725,940</b>	<b>136</b>