



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: December 4, 2024 (for the December 10, 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 November 2024:

Training Field Wells 5 and 8 - Permanent Treatment Facility

Permanent Treatment Facility at Wells 5 & 8:

1. Project Update:
 - The concrete foundation is largely complete. Waterproofing and backfilling of the foundation continues. Plumbing and electrical work continue through the slab penetrations in preparation of the first-floor concrete pour which is scheduled for early December.

Mill Pond Wells 10 and 11 - Pumping & Treatment Update

Project Progress

1. Well #11 is on-line and contributing to Chatham's water supply needs.
2. The conservation easement is under review by the Secretary of Energy and Environmental Affairs Office whose approval is needed to activate Well #10.

Chatham Water Pumping Status:

For the month of November, wells have been running 6-10 hours a day.

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

Water Sampling

- 10 bacteria samples were taken in the month of November from the distribution system and the results reported to DEP. All samples were free of bacteria.
- PFAS6 samples were taken from Mill Hill Treatment Plant on October 17th came back with a total PFAS6 result of 3.12 ng/l and the results submitted to DEP.
- Quarterly samples were taken for Total Trihalomethanes and Haloacetic Acids.
- Monthly and quarterly samples were taken for alkalinity and orthophosphates.

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.
- Well 6 motor was reinstalled and now back in service.
- Aqueous continued pressure washing the storage tanks.
- Spin Tech balanced the motor at Well 4.
- Ralco installed a new VFD screen at Well 4.

System Maintenance

- Painting of 1/5 of the hydrants continued
- Testing of second round of reduced pressure zone devices began.
- The water main on Kelly Lane was hit during construction and repaired CC Construction.
- The water main on Seaview Street was hit during construction by Hatch Paving and repaired by Bortolotti.
- A service line on Pond Street was hit during construction and repaired by CC Construction.
- The AC main on Stony Hill Road developed a radial crack and was repaired by Bortolotti.
- Veolia employees continued to inspect numerous customer residences in response to the water service material data that is needed to complete the lead and copper data base.

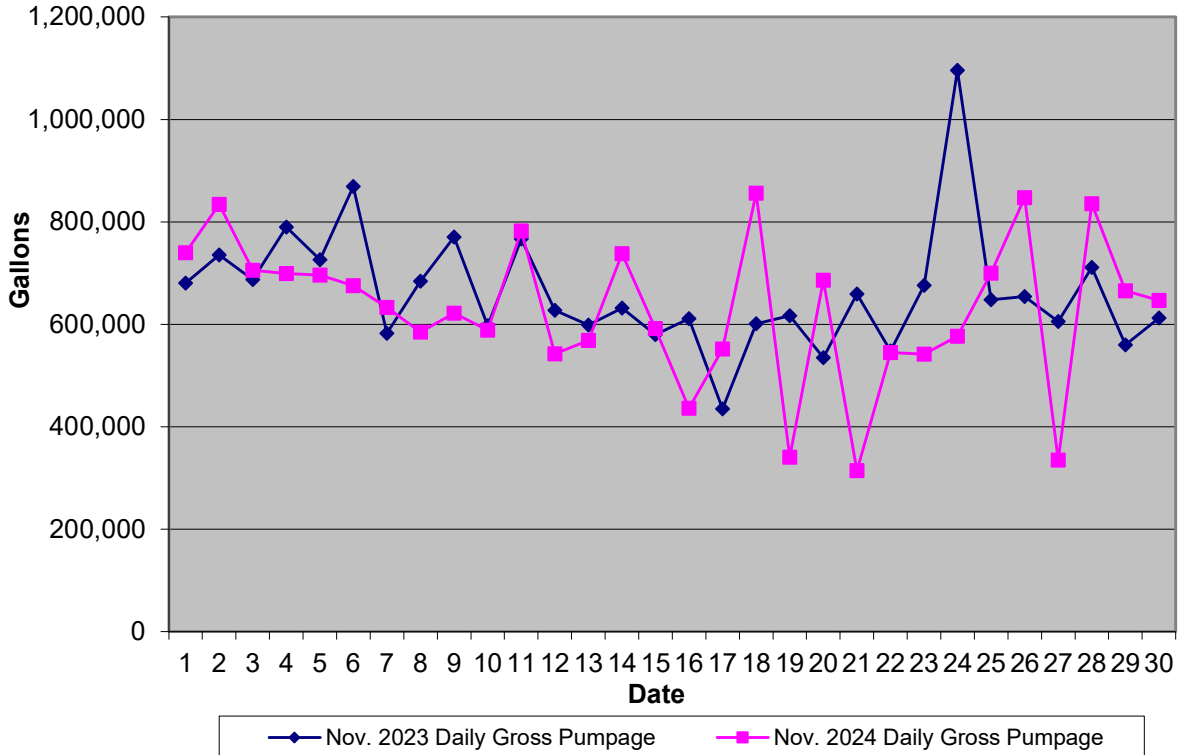
Meter Reading

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

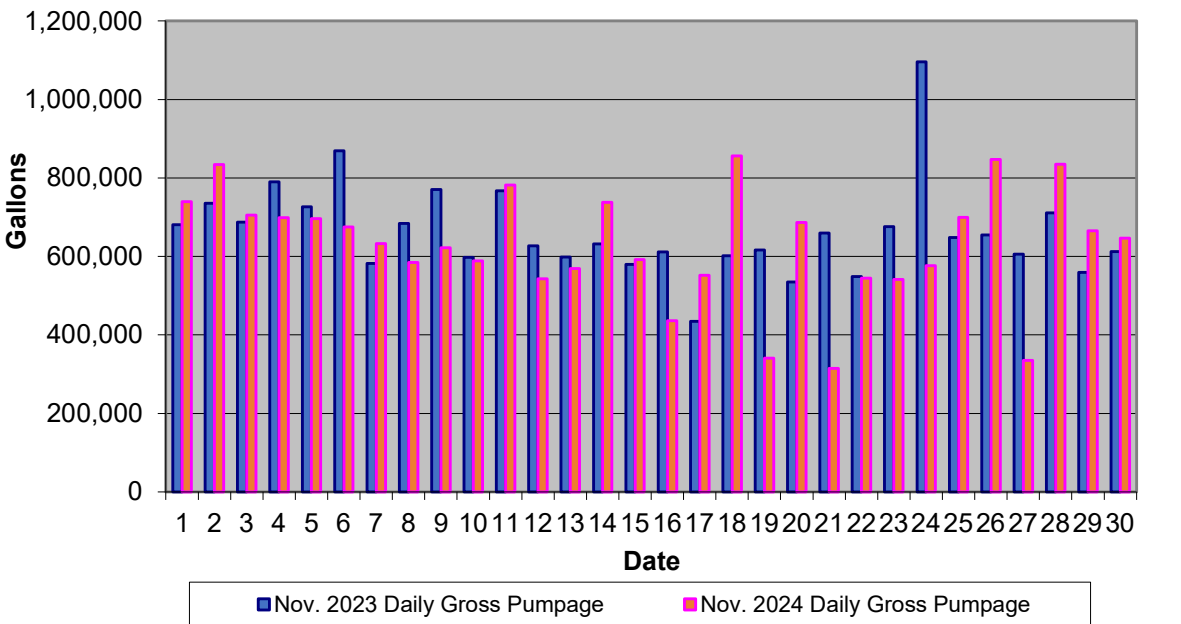
November 2023 vs November 2024 Pumping Comparison

DATE	Nov. 2023 Daily Gross Pumpage	Nov. 2024 Daily Gross Pumpage	Nov. 2023 vs. Nov. 2024 Increase / Decrease (Gallons)	Nov. 2023 vs Nov. 2024 Increase / Decrease (Percent)
1	680,700	739,700	59,000	9%
2	735,200	834,400	99,200	13%
3	687,200	705,400	18,200	3%
4	789,900	699,100	(90,800)	-11%
5	726,200	696,400	(29,800)	-4%
6	868,900	675,500	(193,400)	-22%
7	582,400	633,000	50,600	9%
8	684,400	584,700	(99,700)	-15%
9	770,500	621,900	(148,600)	-19%
10	597,500	588,700	(8,800)	-1%
11	767,000	782,300	15,300	2%
12	627,300	542,600	(84,700)	-14%
13	598,500	568,800	(29,700)	-5%
14	631,500	738,000	106,500	17%
15	579,900	591,600	11,700	2%
16	611,200	436,200	(175,000)	-29%
17	434,700	551,600	116,900	27%
18	601,400	856,000	254,600	42%
19	616,600	340,700	(275,900)	-45%
20	534,700	686,200	151,500	28%
21	659,500	314,600	(344,900)	-52%
22	548,300	545,000	(3,300)	-1%
23	676,300	541,700	(134,600)	-20%
24	1,096,000	576,800	(519,200)	-47%
25	647,800	699,700	51,900	8%
26	654,500	847,600	193,100	30%
27	605,700	335,000	(270,700)	-45%
28	711,300	835,200	123,900	17%
29	559,700	665,500	105,800	19%
30	612,500	646,500	34,000	6%
Total	19,897,300	18,880,400	(1,016,900)	-5.1%

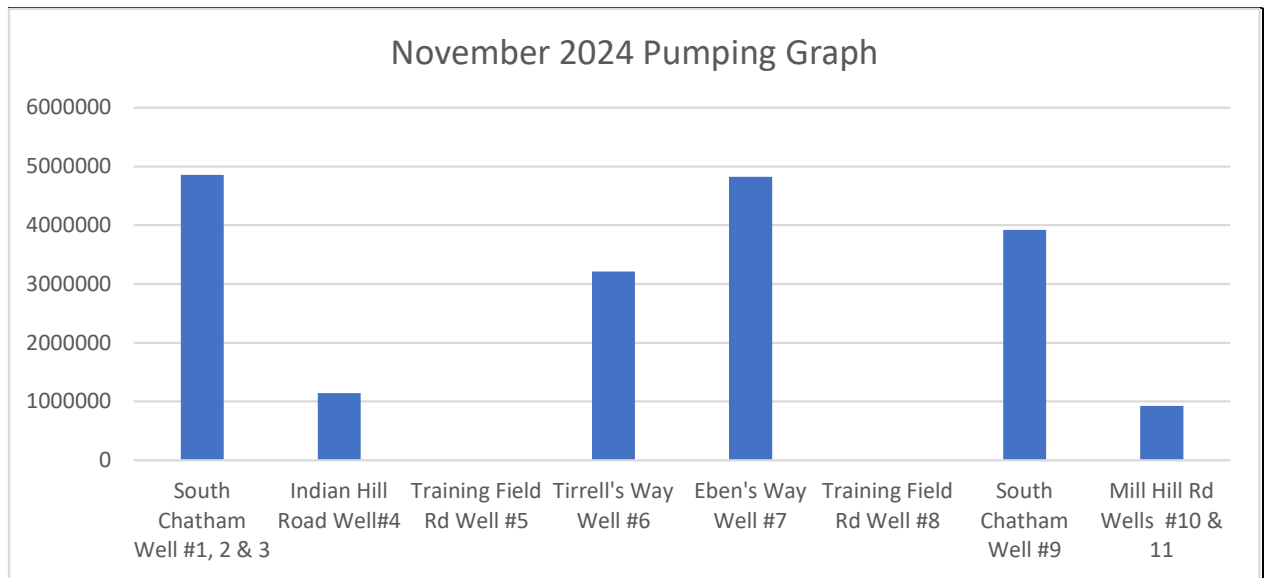
**Nov. 2023 vs Nov. 2024
Pumping Comparison Graph**



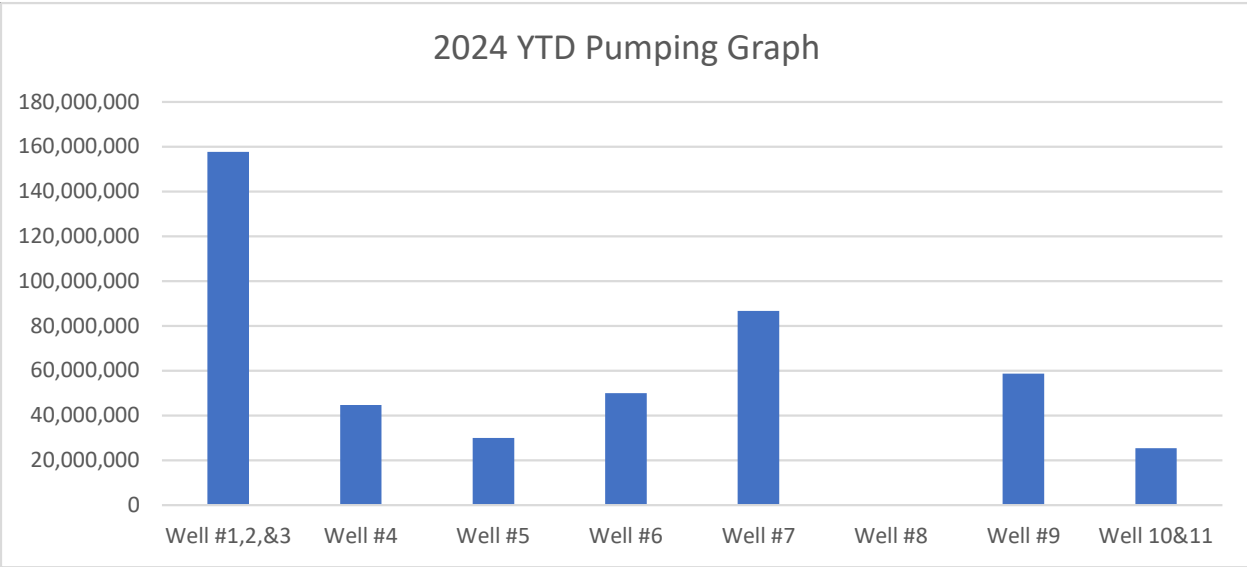
**Nov. 2023 vs Nov. 2024
Pumping Comparison Graph**



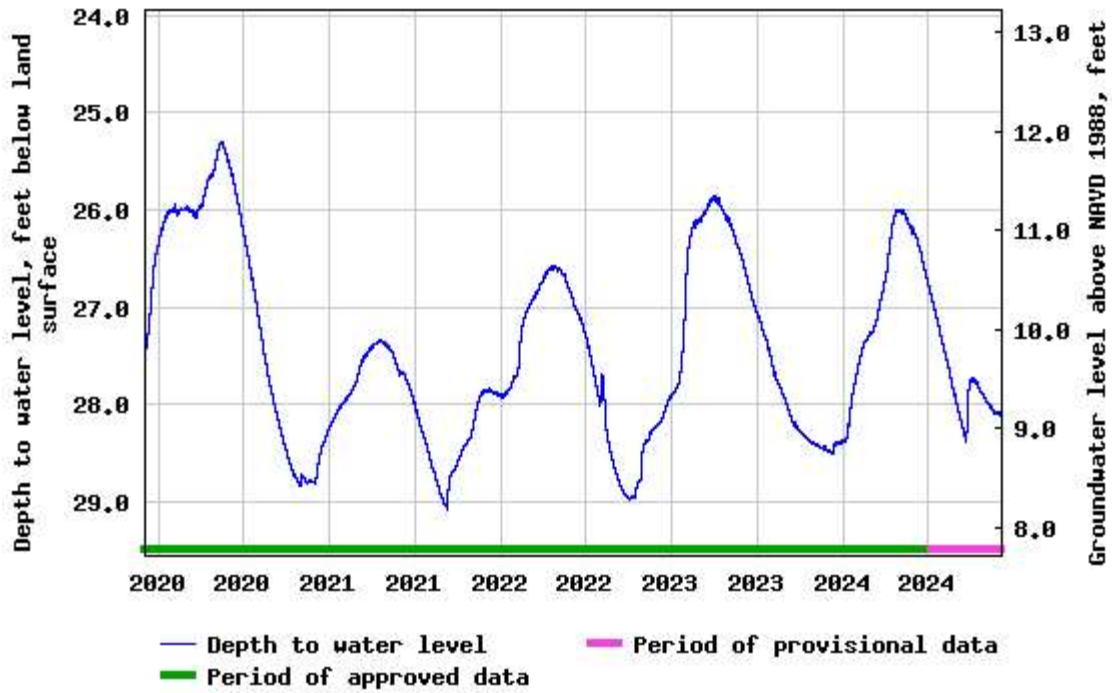
Chatham Water Department						MONTHLY PUMPAGE REPORT				NOV 2024	
DATE	DAY	South Chatham Well #1, 2 & 3	Indian Hill Road Well#4	Training Field Rd Well #5	Tirrell's Way Well #6	Eben's Way Well #7	Training Field Rd Well #8	South Chatham Well #9	Mill Hill Rd Wells #10 & 11	Daily Gross Pumpage	
1		460,400	104,600						174,700	739,700	
2		515,400	185,300						133,700	834,400	
3		424,000	147,100						134,300	705,400	
4		428,700	141,500						128,900	699,100	
5		388,500	143,000						164,900	696,400	
6		412,800	170,500						92,200	675,500	
7		345,800	188,100						99,100	633,000	
8		294,000	14,800			153,600		122,300		584,700	
9		314,100				170,300		137,500		621,900	
10		302,300				159,400		127,000		588,700	
11		392,900				231,700		157,700		782,300	
12		169,800	49,100		95,800	111,300		116,600		542,600	
13		125,800			133,200	171,200		138,600		568,800	
14		215,300			184,400	184,400		153,900		738,000	
15		65,900			151,200	211,400		163,100		591,600	
16					129,000	167,200		140,000		436,200	
17					150,700	220,900		180,000		551,600	
18					284,000	272,000		300,000		856,000	
19					76,100	189,700		74,900		340,700	
20					207,500	268,100		210,600		686,200	
21					94,100	115,500		105,000		314,600	
22					164,400	209,200		171,400		545,000	
23					152,500	213,900		175,300		541,700	
24					175,100	210,800		190,900		576,800	
25					207,100	275,200		217,400		699,700	
26					257,700	332,900		257,000		847,600	
27					100,400	124,600		110,000		335,000	
28					252,100	324,700		258,400		835,200	
29					200,000	255,200		210,300		665,500	
30					195,900	250,000		200,600		646,500	
31											
Total		4,855,700	1,144,000		3,211,200	4,823,200		3,918,500	927,800	18,880,400	
								Minimum			
								Maximum		856,000	
								Average		609,045	



	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	13,524,300	198,400	0	1,076,200	988,300	0	788,400	0	16,575,600	17,179,500	-603,900
February	10,556,600	12,400	0	1,482,600	1,583,000	0	1,061,000	0	14,695,600	17,798,000	-3,102,400
March	5,107,800	55,000	0	3,571,000	4,877,400	0	3,321,700	0	16,932,900	17,807,500	-874,600
April	9,948,800	34,400	1,494,800	2,658,000	4,258,000	0	3,080,100	305,700	21,779,800	21,827,900	-48,100
May	15,017,600	1,666,000	3,970,600	4,242,600	6,460,900	0	4,615,500	1,277,200	37,250,400	49,497,500	-12,247,100
June	20,518,600	9,500,600	4,218,100	8,445,900	13,943,400	0	9,242,600	0	65,869,200	67,742,100	-1,872,900
July	21,545,000	11,693,400	7,537,100	9,266,100	15,624,600	0	10,406,000	5,582,500	81,654,700	81,682,800	-28,100
August	21,255,100	11,790,900	7,617,900	9,396,700	15,788,000	0	10,082,700	5,699,700	81,631,000	76,460,100	5,170,900
September	17,700,200	4,052,300	5,150,300	6,668,800	13,152,900	0	8,275,600	5,984,100	60,984,200	55,880,800	5,103,400
October	17,766,700	4,654,800	19,200	0	5,215,500	0	3,962,500	5,694,400	37,313,100	34,631,800	2,681,300
November	4,855,700	1,144,000	0	3,211,200	4,823,200	0	3,918,500	927,800	18,880,400	19,897,300	-1,016,900
December									0		0
Totals	157,796,400	44,802,200	30,008,000	50,019,100	86,715,200	0	58,754,600	25,471,400	453,566,900	460,405,300	-6,838,400



USGS 414181070011001 MA-CGM 138R CHATHAM, MA



USGS 414632070014901 MA-BMW 22R BREWSTER, MA

