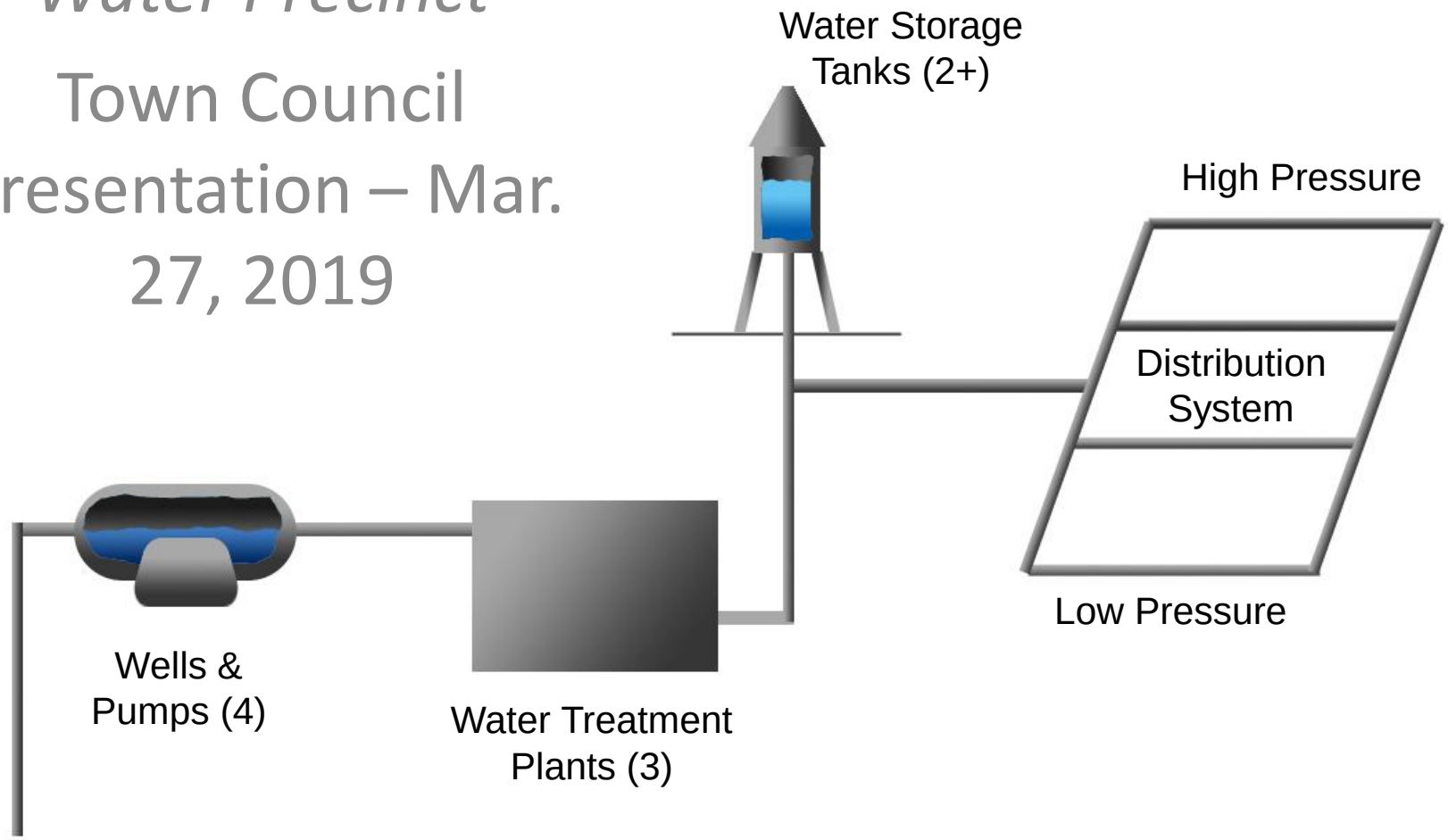
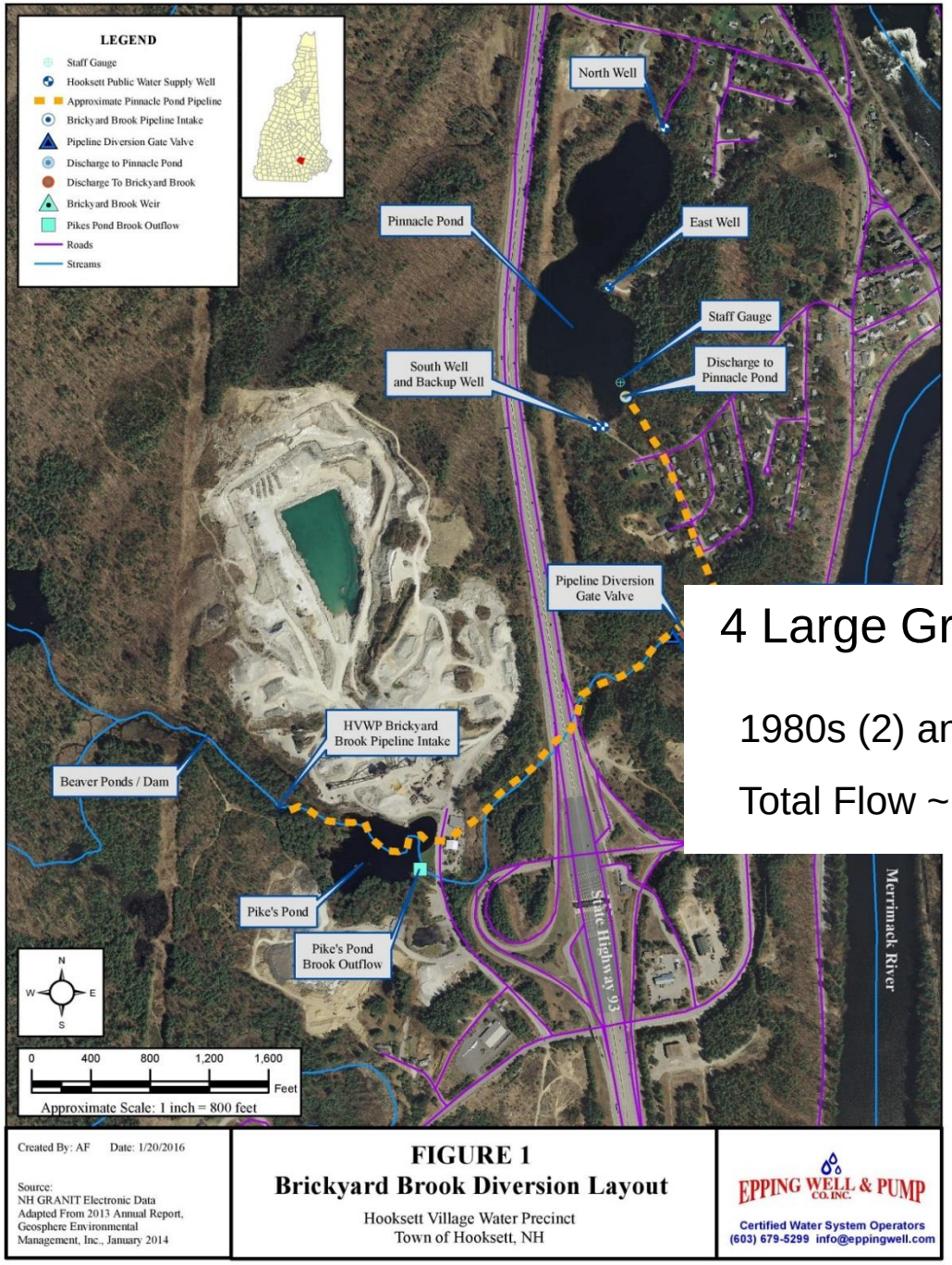
Hooksett Village Water Precinct

Town Council Presentation – Mar. 27, 2019



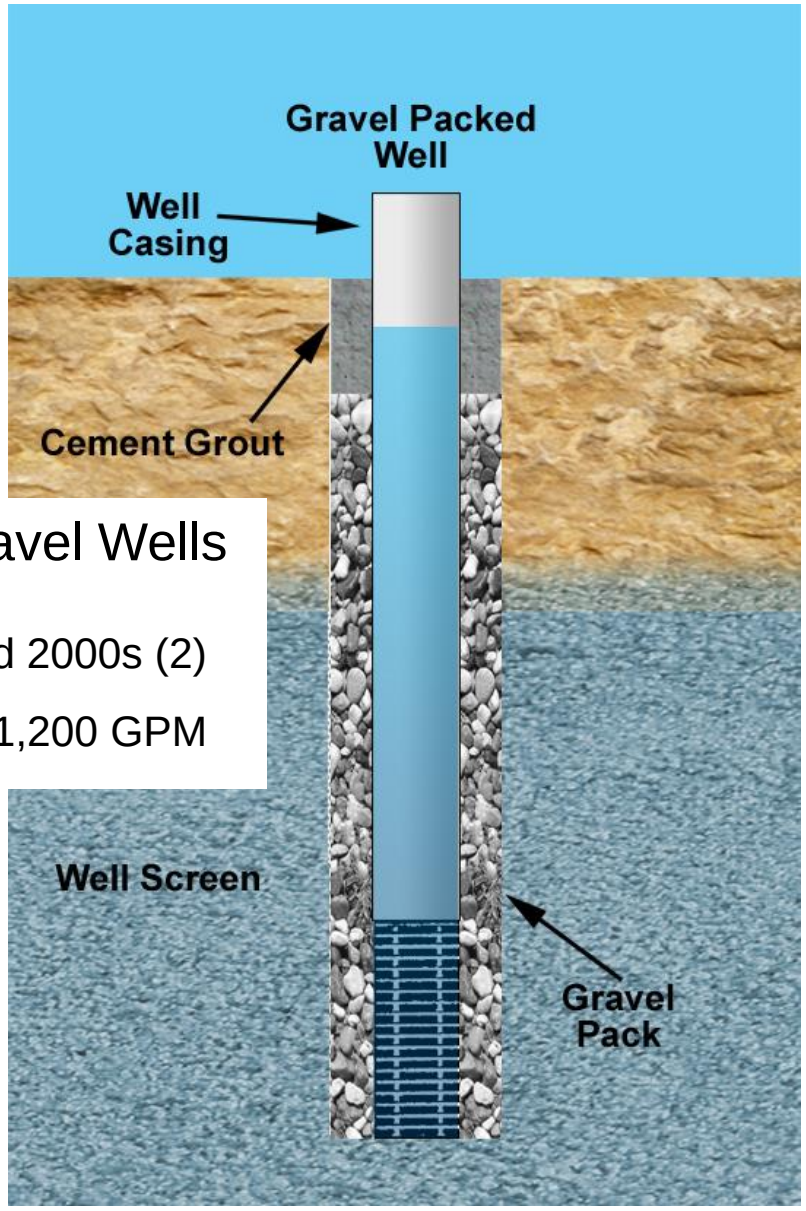
HVWP Water Sources



4 Large Gravel Wells

1980s (2) and 2000s (2)

Total Flow ~ 1,200 GPM



HVWP Water Treatment

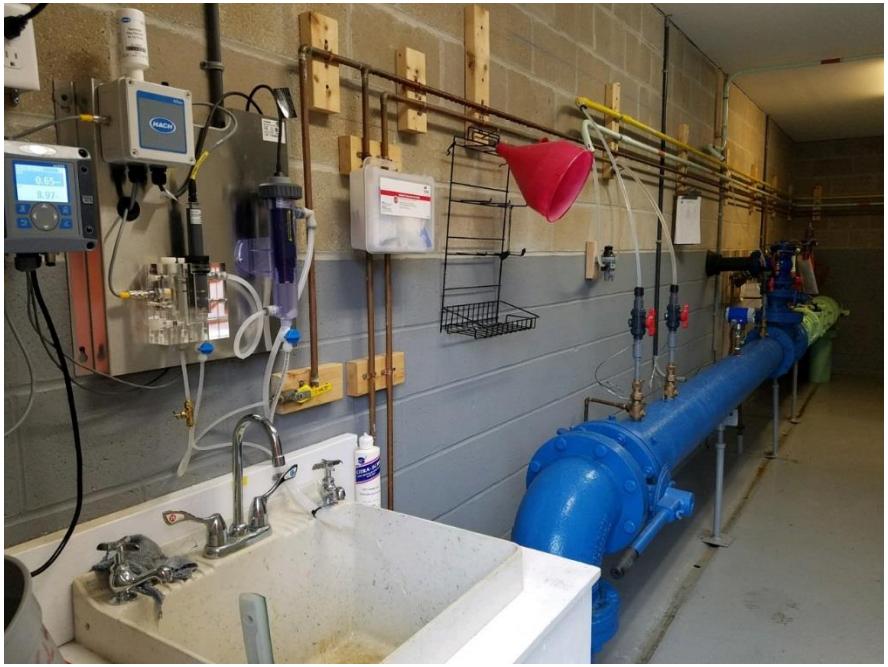


Chemical Feed Systems

Disinfection (microbiological) - NaOCl

Corrosion Control (pH adjustment and sequestration) – Na_2CO_3 and PO_4

Iron/Manganese (color) Control – PO_4

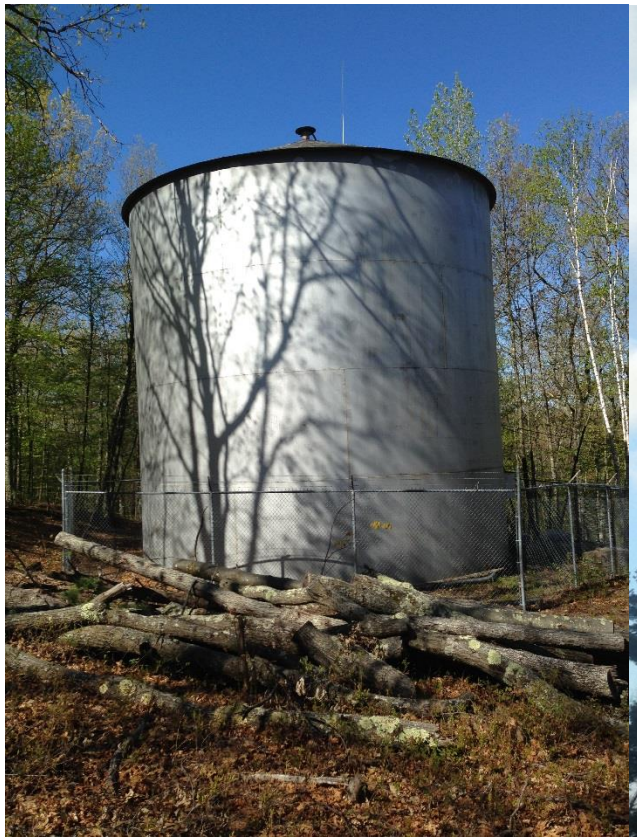


HVWP Water Storage

Two Water Storage Tanks

1MG Prestressed Concrete - 2007

200K Welded Steel – 1950s





HVWP Water Distribution



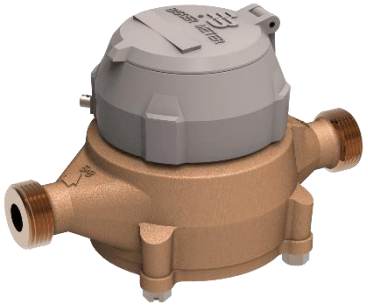


Basic Components:

30+ Miles of Water Main & Valves
185 Fire Hydrants & Valves
One Booster Pump Station
67 Fire Sprinkler Systems
>1,100 Service Lines, Valves & Meters
One Emergency Interconnection
291 Backflow Protection Devices



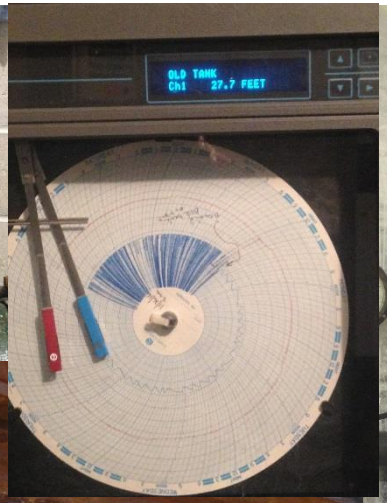




Pump Station Issues





















Main & Hydrant Issues



Tank Issues











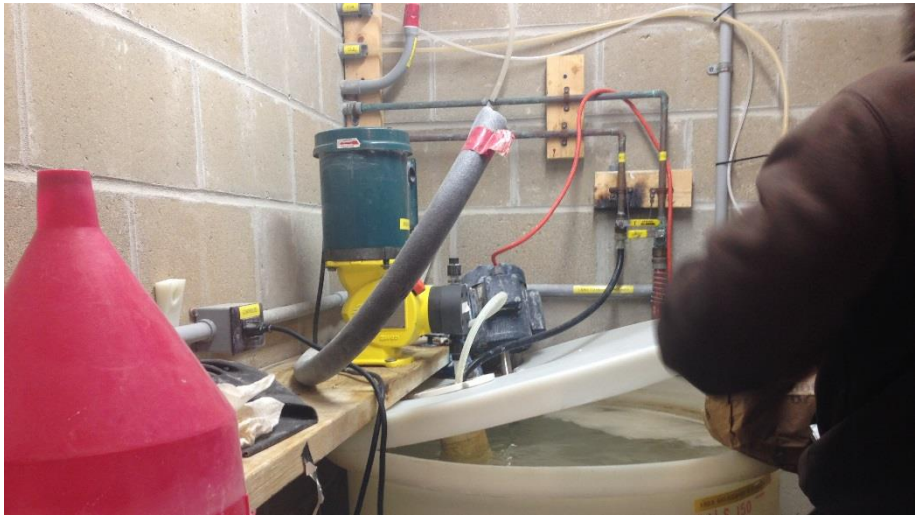
Recent Improvements

Before:



After:







Recent Improvements

Before:



After:



Recent Improvements

Before:





After:



Recent Improvements

Before:





After:





Recent Improvements

Before:



After:





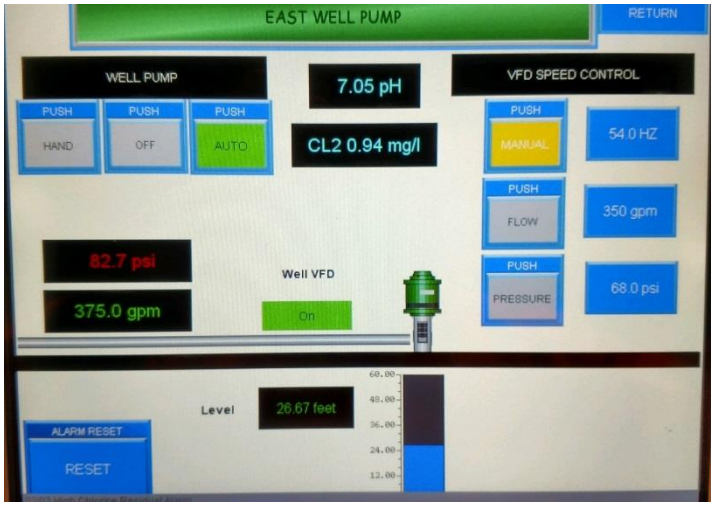


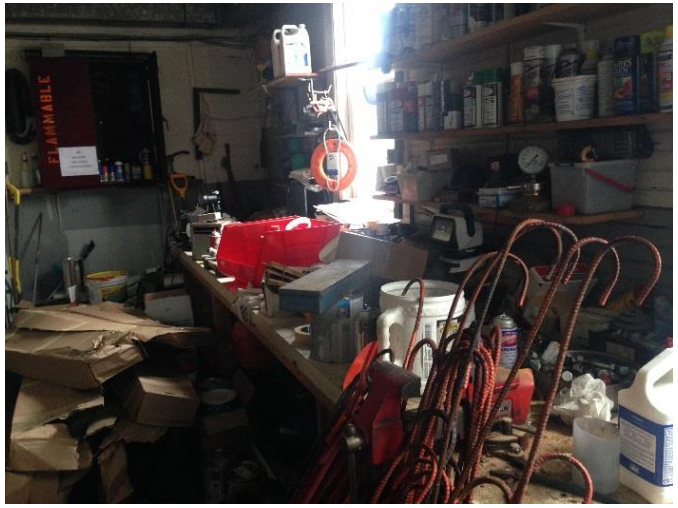
Recent Improvements

Before:



After:







Recent Improvements

Before:





After:

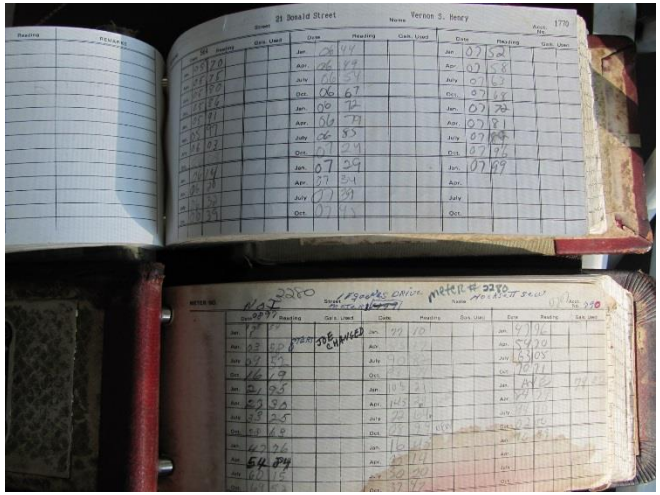




Recent Improvements

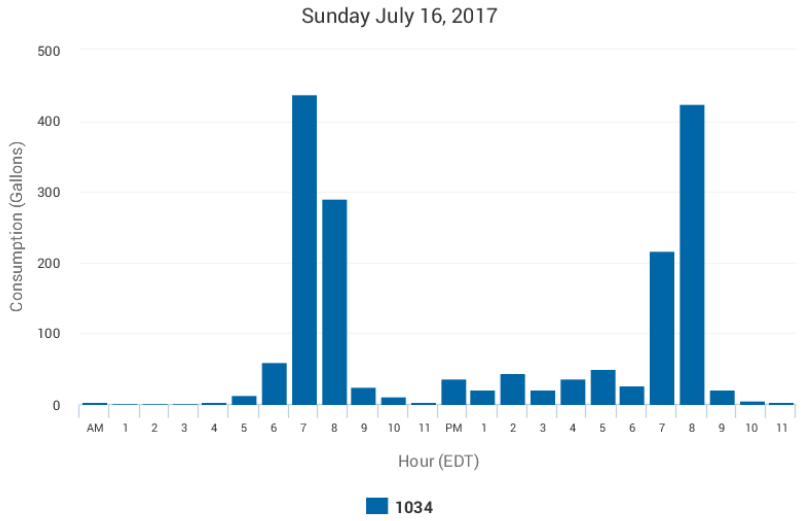
Before:





After:





Recent Improvements







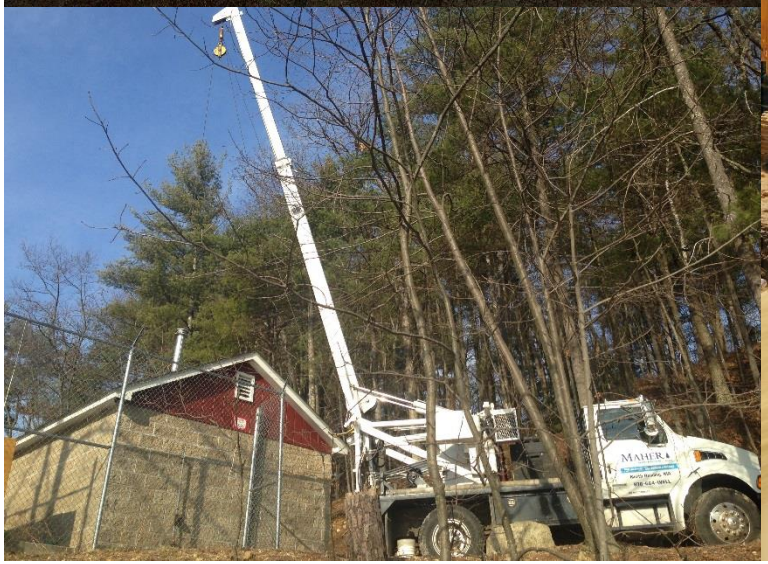
Upcoming/Ongoing Projects













Future Improvements

Hooksett Village Water Precinct (HVWP)

10-Year Capital Budget Plan for FY2019-28

12/19/2018

Long-Term Project Description	Year± of Last Purchase	Year± of New Purchase	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	10-Year Project Cost	25-Year Project Cost
Tanks: Installation of new correctly sized tank for the Low Pressure Zone (LPZ); repair and re-purposing of old LPZ tank	~1950	2019-20	$75,000	$112,593	$112,593	$112,593	$112,593	$112,593	$112,593	$112,593	$112,593	$112,593	$1,088,335	$2,429,610
New Source: Installation for drought/contamination protection and growth (Current wells: S 1985, N 1987, E 2004 and SBU 2007)	2006-07	2020-21	$50,000	$50,000	$60,000	$55,000	$65,000	$60,000	$60,000	$60,000	$60,000	$60,000	$580,000	$1,300,000
Water Mains: Replacement/improvement (e.g. looping) (30 miles pipe @ 1/3 mile/yr = 100-yr replacement: say 1,500' x $150/ft + $25K engr = goal of $250K/yr)	0 - 68 yrs±	Annual	$80,000	$170,000	$150,000	$210,000	$200,000	$165,000	$215,000	$215,000	$180,000	$185,000	$1,770,000	$5,281,290
Emergency Interconnection: Backup for west LPZ (estimated at approx. $1.2M)	1985±	2022+	$7,500	$10,000	$10,000	$15,000	$60,000	$60,000	$60,000	$60,000	$60,000	$60,000	$402,500	$1,242,920
Meters/Transmitters: Routine upgrades/replacements (10-20 year cycle)	0 - 68 yrs±	2019-23	$70,000	$70,000	$70,000	$40,000	$5,000	$5,000	$5,000	$5,000	$5,000	$35,000	$310,000	$705,000
Pump Houses: Improvements for efficiency/safety/damage prev./SCADA	10-35 yrs±	2019	$90,000	$20,000	$10,000	$10,000	$0	$0	$0	$0	$0	$0	$130,000	$194,677
Vehicles: Routine replacement before major repairs (12-year cycle)	1-12 yrs	2019	$13,000	$0	$45,000	$0	$0	$45,000	$0	$0	$35,000	$0	$138,000	$386,531
Projected CIP totals:		*$323,857 (FY2018)*	***$385,500***	***$432,593***	***$457,593***	***$442,593***	***$442,593***	***$447,593***	***$452,593***	***$452,593***	***$452,593***	***$452,593***	***$4,418,835***	***$11,540,028***
Breakdown of CIP Sources: *Trust funds:*		*$193,044*	*$133,000*	*$90,000*	*$60,000*	*$15,000*	*$5,000*	*$0*	*$0*	*$0*	*$0*	*$0*	*$303,000*	*$446,300*
Taxes:		*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
Rates & fees:		*$130,813*	*$252,500*	*$342,593*	*$397,593*	*$427,593*	*$437,593*	*$447,593*	*$452,593*	*$452,593*	*$452,593*	*$452,593*	*$4,115,835*	*$11,093,728*
Projected Budget ▲ due to CIP:		*$92,813*	*$121,687*	*$90,093*	*$55,000*	*$30,000*	*$10,000*	*$10,000*	*$5,000*	*$0*	*$0*	*$0*		
Breakdown of Budget Needs: *CIP ▲:*		*$92,813*	*$121,687*	*$90,093*	*$55,000*	*$30,000*	*$10,000*	*$10,000*	*$5,000*	*$0*	*$0*	*$0*		
+ Routine O&M (inflation) ▲:		*$15,809*	*$15,000*	*$15,000*	*$15,000*	*$15,000*	*$15,000*	*$15,000*	*$15,000*	*$15,000*	*$15,000*	*$15,000*		
+ Planned trust fund deposit:		*$0*	*$0*	*$10,000*	*$25,000*	*$25,000*	*$25,000*	*$25,000*	*$25,000*	*$25,000*	*$25,000*	*$25,000*		
+ Water usage factor:		*$9,000*	*$2,350*	*$2,350*	*$2,350*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*		
Approx. revenue needs ▲:		*$117,622*	*$139,037*	*$117,443*	*$97,350*	*$70,000*	*$50,000*	*$50,000*	*$45,000*	*$40,000*	*$40,000*	*$40,000*		