

OFFICE OF THE TOWN ADMINISTRATOR



MEMORANDUM

DATE: April 18, 2018
TO: Town Council
FROM: Jeffrey D. Nutting, Town Administrator
RE: Request for Bond Authorization

Please find attached a request for a \$2 million authorization for the design of a new well #3 and the design of the Water treatment plant off of Grove Street.

You will find the estimated cost for the construction of the treatment plant and the upgrades to the water tanks are estimated at \$17 million dollars.

We will seek further authorization for the project once the design is complete and an updated estimate is available.

I am happy to answer any questions that you may have.

CC: Christopher Sandini, Finance Director
Kerri Bertone, Treasurer/Collector
Robert Cantoreggi, Public Works Director
Laurie Ruzala, Water & Sewer Superintendent

Town of Franklin DPW – Proposed Water Capital Projects

Pleasant Street Tank Service Area Energy Efficiency Project & Other Tank Improvements

- **Purpose:** Reconfigure the existing low service area (Pleasant Street) system to eliminate the “in series” pumping. Preservation of the historic 1888 420,000-gallon Hillside Tank #1, 1928 1.3 Million Gallon Hillside Tank #2, and 0.55 Million Gallon Forge Hill Tank.
- **Project:** Demolition of the old tank and booster station, new prefabricated pressure-reducing valve (PRV) stations at Pleasant Street and Greystone Road and at Miller Street @ Brook Street Ext. Replace the pump at Well No. 4 with a pump capable of supplying the approved yield of Well Station No. 4 (0.921 MGD). The project also includes exterior and interior rehabilitation of Hillside Tank #1, Hillside Tank #2, and Forge Hill Tank.
- **Benefit:** To reduce energy and maintenance costs (i.e. tank painting – \$2M every 25 years, pump replacement, and other structural/architectural improvements) associated with the existing infrastructure.

Estimated Project Costs & Schedule

Project Name	Estimated Opinion of Probable Project Costs	Estimated Funds used by Fiscal Year	Anticipated Start Date	Anticipated Completion Date
Replacement Well at Well Station No. 3 - Design & Construction	\$1.0M	\$150,000 (6/30/18)	Spring 2018	Winter 2018
		\$850,000 (6/30/19)		
Treatment Plant at Well Stations No. 3 and No 6 - Design	\$0.8M	\$80,000 (6/30/18)	Spring 2018	Spring 2019
		\$720,000 (6/30/19)		
Treatment Plant at Well Stations No. 3 and No 6 - Construction	\$11.8M	\$7.8M (6/30/20)	Spring 2019	Fall 2020
		\$4.0M (6/30/21)		
Service Area Energy Efficiency Project & Other Tank Improvements – Design and Construction	\$3.4M	\$200,000 (6/30/20)	Fall 2019	Spring 2021
		\$3.2M (6/30/21)		
Totals	\$17.0M			

Town of Franklin DPW – Proposed Water Capital Projects

Replacement Well at Well Station No. 3

- **Purpose:** To have the ability to produce the entire DEP approved yield from this site a new supplemental water supply well (Well No. 3A) is proposed.
- **Project:** Well Construction, Source Approval, and connection into the system
- **Benefit:** To increase supply production into the system and to gain more operational flexibility.

Treatment Plant at Well Stations No. 3 and No. 6

1. *Well Station Nos. 3 & 6 Treatment Plant*

- **Purpose:** To provide treatment for Well Station Nos. 3 & 6.
- **Project:** New Water Treatment Plant (approx. 5000 sq. ft.) and associated treatment equipment to treat Well Station Nos. 3 & 6 water.
- **Benefit:** To provide manganese and iron filtration at Well Station Nos. 3 & 6 to supply the total approved yield of 1.22 MGD.

2. *Modifications and Demolition at Well Station No. 6*

- **Purpose:** Remove the existing vacuum pumping system and install submersible pumps at each well at Station No. 6.
- **Project:** New Well pumps and modifications for the six Wells that make up Well Station No. 6; Demolition of the existing Well No. 6 pump station; modifications to the existing Well Station No. 6 Chemical Building
- **Benefit:** To increase efficiency and operational flexibility of the existing Well Field to operate with the new Water Treatment Plant.

3. *Modifications at Well Station No. 3*

- **Purpose:** Make recommended structural and architectural repairs to the existing Well Station No. 3 pump station and chemical building.
- **Project:** Concrete repair, roof replacements, and minor process modifications within the Chemical Building
- **Benefit:** To provide resiliency to the existing infrastructure for continued operation now and into the future.