

WATER INFRASTRUCTURE

New Town Well System

Description

This project involves the development of a new municipal water supply well to supplement and/or replace existing groundwater production capacity within the Town's water system. The project is being evaluated through an ongoing engineering study to determine the most suitable location, design capacity, and integration requirements with existing infrastructure. The selected well site and associated improvements will be determined based on hydrogeological analysis, system demand modeling, and regulatory requirements.

The project is expected to include site evaluation, well installation, pump and control systems, necessary electrical and telemetry components, and any required tie-ins to the existing distribution system. Final scope and location will be confirmed upon completion of the engineering study and permitting review.

Justification

The Town currently relies on Well #4 as its sole active municipal water source, supplemented by purchased water from Louisa County. Average system supply is approximately 70,681 gallons per day, of which approximately 38% is imported from the County. The continued reliance on purchased water indicates that existing local water production capacity is insufficient to fully meet system demand and highlights the need for additional water supply resources to support the Town's current and future needs.

Relying on a single primary well source creates vulnerability during maintenance activities, drought conditions, or unexpected mechanical failure. The addition of a new well will improve system resiliency, ensure adequate supply during peak demand, and provide necessary redundancy to support long-term population growth and infrastructure reliability. This project is also intended to support compliance with state drinking water standards and maintain adequate fire flow capacity throughout the system.

Expenditures	2027	2028	2029	2030	2031	Total
Planning/Design						
Construction						
Total						
Funding Sources	2027	2028	2029	2030	2031	Total
General Fund						
State/Federal						
Total						