

June 11, 2021

Jesse Steadman
Town Planner
Town of Stow
380 Great Road
Stow Ma 01775

Re: **Stow Business District Water Feasibility Study Proposal**

Dear Mr. Steadman:

We are pleased that you reached out to Weston & Sampson and we are able to provide you with a proposal outlining the concerns for creation of a water supply system to serve the Stow Business District.

Suggested Scope of Work

1. Attend a project kickoff meeting with the Town and collect available data on existing water supplies, including locations of wells, flows and water quality, location of septic systems, available usage information, previous studies etc.
2. Develop Preliminary Service Area Delineation
 - a. Meet with Town Planner and Health Agent to confirm delineation of proposed service area
 - b. Review existing water service within target area
 - c. Use Town GIS mapping to identify potential service connections
 - i. Refine potential service area
 - ii. Identify alternative service area considerations
 - d. Characterize final water service area
 - i. Estimate Water Demand to serve intended service area connections
 - ii. Determine Water Supply System Category per DEP Regulations
 1. Public Water System
 - a. Community Water System (CWS)
 - b. Non-Community Water System
 - i. Non-Transient Non-Community Water System (NTNC)
3. Identify and describe water source alternatives
 - a. Perform benchtop study to identify areas for further evaluation for viable bedrock and gravel / surficial groundwater sources
 - b. Identify up to three potential areas for groundwater well source development and further investigation
 - c. Describe water system required facilities
 - i. DEP New Source Approval Requirements
 - ii. Well Permitting/Withdrawal Protection Requirements
 - iii. Treatment Requirements
 - iv. Pumping
 - v. Storage
 - vi. Distribution System Components
 - vii. Staffing Requirements

4. Describe Water Management Act (WMA) Requirements
 - i. Registration Permit
 - ii. Application Process
 1. Water Resources Commission
 2. DEP/DCR Consultation/Coordination
 - iii. MEPA Requirements
5. Describe Management Alternatives
 - i. Town Water Utility – Adopt MGL c. 40N, Home rule petition requirements
 - ii. Special Water District – Legislation requirements
 - iii. Private Utility Owner/Operator – Contract/Legislation Requirements
6. Prepare summary of Water System Development Options and prepare supporting figures and documents and planning-level Cost Estimates for basic alternatives.

Estimated Project Cost

The cost to prepare an engineering study as outlined above including the benchtop analysis for identification of potential groundwater sources is estimated at \$20,000.

The cost to conduct field analysis for groundwater exploration is not included in the cost to perform the study and create a plan outlining alternatives and costs. We estimate the cost to conduct additional groundwater exploration to be between \$30,000 and \$70,000 depending on whether the wells are shallow or bedrock wells and depending on how many sites are included in the exploration. We hope this information is helpful and we look forward to discussing this with you further at your earliest convenience.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.



Leah E. Stanton
Vice President