

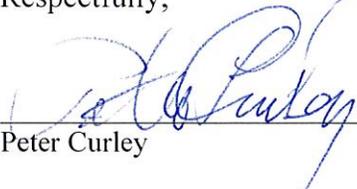
**Town of Stockton Springs**  
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**Stockton Springs, Maine 04981**  
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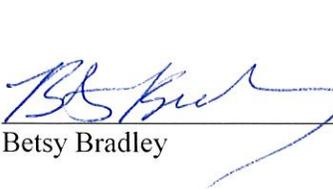
Select Board Statement  
Waste Water Treatment Facility Study

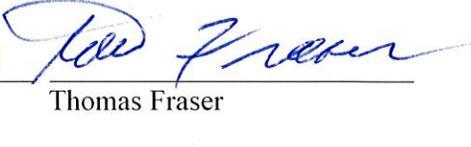
The Select Board has considered the study returned by Wright Pierce for the Waste Water Treatment Facility Study as approved at Town Meeting. We do not believe at this time that it is in the Town's best interest to move this project forward. We believe the cost would be too high for the Town to absorb despite potential funding options. For this reason, we do not plan to bring it to a vote, at this time.

Attached is an Executive Summary of the study. We welcome citizen feedback.

Respectfully,

  
Peter Curley

  
Betsy Bradley

  
Thomas Fraser

Stockton Springs Select Board

2/26/2018

## **EXECUTIVE SUMMARY**

### **DOWNTOWN AREA (ROUTE 1 CORRIDOR) WASTEWATER COLLECTION & TREATMENT FACILITY FEASIBILITY STUDY**

The Town of Stockton Springs has undertaken a wastewater collection & treatment facility feasibility study for the Commercial zoned area along the Route 1 corridor. This Commercial zoned area is approximately 146 acres and includes the Route 1 corridor east of the Route 1A intersection for approximately 4,500 linear feet. This is a desirable area for development due to the access to Routes 1 and 1A and it is the communities hope that the implementation of a wastewater collection and treatment facility serving this area will lead to economic development in the area.

#### **Wastewater Flows**

Both current and projected (20-year) wastewater flows were established to develop preliminary sizing for the wastewater system. The current wastewater flow was based on industry standard gallon per day values for the current types of land usage with current flows estimated to be an annual average daily flow of 6,000 gallons per day (gpd). The projected (20-year) wastewater flow is based on a future build-out scenario along with the potential re-use of the parcels that are currently developed using a wastewater density in gpd per acre and is estimated to be an annual average daily flow of 23,000 gpd. It is important to note that the time to reach build-out may be well beyond 20 years and will be dependent on the Town's zoning ordinance and growth of the local economy.

#### **Wastewater System**

A public wastewater system consists of three components from the user, where the wastewater is generated, and includes a collection and transport system, a treatment system, and a disposal system for the treated effluent.

#### **Wastewater Collection**

The wastewater collection system would consist of 8-inch diameter polyvinyl chloride (PVC) gravity sewer mains, precast concrete manholes installed approximately 300 feet apart and 4 or

6-inch diameter PVC sewer service laterals to individual properties. Sewer service laterals are typically installed from the sewer main to the edge of the public right-of-way. The sewer user is typically responsible for installing the sewer service on private property. It is anticipated with the preliminary designated location of wastewater treatment and disposal a pump station will not be necessary.

### **Wastewater Treatment**

Ten technologies were evaluated for wastewater treatment. Three treatment technologies were not considered further. The remaining seven represent treatment technologies, considered as “package” treatment technologies, are generally utilized for the anticipated wastewater flow in Stockton Springs and will provide the appropriate level of treatment in the most cost-effective manner while being modular/expandable and maintaining simplicity in the operation and maintenance (O&M) of the system. While each of the seven treatment systems has some variability in capital and O&M costs, costs from similar systems in other communities was used to develop planning level costs for the work.

### **Wastewater Disposal**

Treated effluent from wastewater treatment processes must be properly disposed either into fresh or salt water, or into the ground. While Mill Cove/Stockton Harbor are not that distant from the project area, the pipeline and outfall cost, coupled with the permitting requirements, make land disposal the preferred effluent disposal option. Five land disposal applications were evaluated for treated wastewater disposal. Three land disposal applications were not considered further. Similar to the remaining wastewater treatment technologies the remaining two land disposal applications, rapid infiltration basins and subsurface leaching fields, offer the most cost-effective application for disposal while being modular/expandable and maintaining simplicity in O&M. The subsurface leaching fields disposal application is used to develop planning level costs for the work.

### **Cost Summary**

The planning level project costs for collection, treatment and disposal is estimated to be between \$4.43-million for the current wastewater flow to \$8.34-million for the projected (20-year)

wastewater flow. The O&M budget is estimated to be between \$113,000 for the current wastewater flow to \$302,000 for the projected (20-year) wastewater flow.

### **Project Funding**

A project of this scope and magnitude, with a planning level project cost of \$4.43 to \$8.34 million depending upon the size of the system, will require significant funding locally and from State and Federal agencies such as the Maine Department of Environmental Protection (MEDEP), U.S. Department of Agriculture (USDA) Rural Development (RD), Department of Economic & Community Development (DECD), U.S. Environmental Protection Agency (USEPA) and U.S. Economic Development Administration (EDA). Each funding agency have requirements for which the funds could be used and applied towards the project. While some level of grant funding is likely from one or more of the above agencies, it is too early to determine the exact funding packages that may be available for Stockton Springs.

### **Next Steps**

One of the next steps includes submitting this feasibility study to the funding agencies to document the preliminary planning and cost for the wastewater system and begin discussions on funding possibilities. Applications for Clean Water SRF funding through Maine DEP are currently open through March 30, 2018, and the Town should apply for these funds with the possibility of principal forgiveness up to \$1 million. Pending initial feedback from DECD, it may be beneficial to conduct a household income survey to determine if the Town will qualify for a CDBG grant through DECD. If results from the income survey are positive and preliminary discussions with the above agencies demonstrate that a project that the Town can approve and afford is possible, the next step would be to prepare and submit a preliminary engineering report (PER) and environmental report (ER) to USDA RD, DEP and DECD for their review and comment, along with a funding application to RD. Funding applications to DECD would not be due until the first quarter of 2020, as DECD CDBG applications are only accepted every 2 years.