



Memorandum

To: Yarmouth Water Resources Advisory Committee (WRAC)

From: Kara M. Johnston, PE, PMP
David F. Young, PE, FACEC

Date: July 27, 2021 (**Updated September 27, 2021**)

Subject: Next Steps Towards Wastewater Implementation

In September 2021, the next steps towards implementation of Yarmouth's wastewater program were updated to layout two alternatives: basing the amount of funding appropriated at Town Meeting for construction of the Phase 1 Collection System and Treatment Facility on either cost estimates or bid results. For both alternatives the critical steps remain unchanged as described in this memorandum originally issued in July 2021, however the timing of the steps differs for each alternative. To base the appropriation on bid results, the final design would need to be completed and publicly bid prior to Town Meeting. Otherwise, cost estimates will be developed towards the end of the final design phase prior to Town Meeting and funds sought based on those estimates. The majority of the steps through Winter 2022 are the same for both alternatives. The remaining steps are presented below for both options as well as in the attached Preliminary Schedules.

The Yarmouth Water Resources Advisory Committee (WRAC) identified at their meeting held on June 28, 2021, the need to outline the critical steps towards implementation of their wastewater program, including the construction of sewers in Phase 1 and a wastewater treatment facility (Water Resource Reclamation Facility – WRRF) in Yarmouth. The steps below have been identified to file Yarmouth's Notice of Project Change (NPC) with the Massachusetts Environmental Policy Act Office (MEPA) and to implement wastewater infrastructure:

Next Steps for Alternatives 1 & 2

Late Summer/Fall 2021

- WRAC and Selectmen finalize the Recommended Wastewater Program including the following components:
 - Sewer service area;

- *Evaluate the need to include the residential area south of Buck Island recharge site that MassDEP had previously requested to offset nitrogen load from effluent recharge at Buck Island Road site.*
- Determine initial size (flow capacity) of the WRRF;
 - *Sum of first three phases at buildout is 1.8 MGD*
- Determine whether Yarmouth Septage Treatment Plant (STP) will remain in operation versus septage treatment at the new WRRF during initial phases of operation; and
- Determine if reclaimed water will remain in use;
- Continue to refine proposed cost recovery plan.
- Finalize sections of the NPC, which includes updated sections from the previously approved Comprehensive Wastewater Management Plan (CWMP), including:
 - Evaluation of Estuaries and Embayments, including an updated summary of the Bass River Watershed that was not previously included in the Yarmouth NPC-CWMP
 - Updated collection, treatment, and effluent recharge evaluations
 - Updated Recommended Program and Alternatives (flows, cost recovery, etc.)
- Contact MEPA and Cape Cod Commission (CCC) prior to submission of CWMP to review methodology of submission.
- Obtain Board of Selectmen approval of NPC and submit NPC to MEPA for their review along with other required state and local entities. [40-day review period anticipated, including public comment period]
- Once MEPA issues certificate of compliance, CCC will complete 208 Consistency Review. [40-day review period anticipated]
- Continue to coordinate Yarmouth implementation schedule with Massachusetts Department of Transportation (MassDOT) schedules for Route 28 West of Parkers River and for Route 28/North Main Street/Old Main Street Intersection projects.
- Develop public outreach program for fall Special Town Meeting articles. Potential articles could include:
 - Design and bidding funds for the Yarmouth WRRF at Buck Island Road site;
- Begin design of Yarmouth WRRF and Phase 1 (Town and MassDOT) sewer area.

Winter 2021/2022

- Draft the Land Use Controls for review by MassDEP prior to need for Project Evaluation Forms in August 2022
- Watershed Permits
 - Begin discussions with Barnstable representatives on the Lewis Bay Watershed Permit. An Intermunicipal Agreement (IMA) may be developed first to define operating parameters for discussions.
 - Begin similar discussions with Dennis on the Bass River Watershed Permit.
 - Parkers River Watershed Permit (Yarmouth only)
- File Groundwater Discharge Permit for Buck Island Road site after NPC is approved and town funds the WRRF design so that the nitrogen permit limits are finalized, and capacity is agreed upon for recharge at that site.
- Fertilizer Education Program: develop a fertilizer education program in order to qualify for the 25 percent fertilizer nitrogen reduction credit. It is envisioned that this program would include developing a brochure for distribution to homeowners, notices and educational links posted on the town website, potential cable programs on correct fertilizer use by local agriculture retailers and discussions with local garden clubs, etc.

Remaining Steps for Alternative 1 (Cost Estimates Brought to Town Meeting)

May 2022

- Yarmouth share of construction funds for Route 28 West pipelines to be included in MassDOT project; **(Alternative 1 only)**
- Confirm Route 28/North Main Street/Old Main Street design and construction funds are available for Yarmouth share of MassDOT project. **(Alternative 1 only)**

August 2022

- File Project Evaluation Form (PEF) for construction funding for Phase 1 Project through MassDEP State Revolving Fund (SRF) Zero-Percent Loan Program (typically around August 15th)

January 2023

- MassDEP issues Intended Use Plans for SRF Program

May 2023

- At Spring Town Meeting, present article for construction funding of Phase 1 sewer program.
- At Spring Town Meeting, present article for construction funding for Yarmouth WRRF at Buck Island Road site.

July 2023

- File SRF Application with MassDEP for Clean Water SRF Zero Percent Loan

Fall 2023/Winter 2024

- Bid Phase 1 Collection System and WRRF.

April 2024

- Begin construction of Phase 1 Collection System and WRRF.

Remaining Steps for Alternative 2 (Bid Results Brought to Town Meeting)

May 2023

- At Spring Town Meeting, present the following articles:
 - Yarmouth share of construction funds for Route 28 West pipelines to be included in MassDOT project;
 - Confirm Route 28/North Main Street/Old Main Street design and construction funds are available for Yarmouth share of MassDOT project.
 - Construction funding for MassDOT portions of Phase 1 sewer program.

August 2023

- File Project Evaluation Form (PEF) for construction funding for Phase 1 Town Collection System and WRRF Project through MassDEP State Revolving Fund (SRF) Zero-Percent Loan Program (typically around August 15th)

January 2024

- MassDEP issues Intended Use Plans for SRF Program
- File SRF Application with MassDEP for Clean Water SRF Zero Percent Loan

Spring 2024

- Bid Phase 1 Town Collection System and WRRF.

May 2024

- At Spring Town Meeting, present article for construction funding of Yarmouth Collection System and WRRF at Buck Island Road site.

August 2024

- Begin construction of Phase 1 Collection System and WRRF.

See attached Preliminary Schedules for the above Next Steps.

