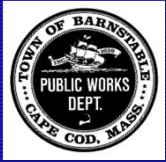


# ***Barnstable Town Council***

## ***Update on Wastewater Efforts In Barnstable***

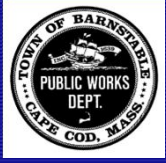
Department of Public Works  
June 20, 2019



# To Date



- ✓ *Winter 2015/16 formed the WRAC – Began meeting*
- ✓ *June 2016 – Complete the “208 Bookends”*
- ✓ *Fall 2016 - Completed Gap filling and GIS Mapping Layers*
- ✓ *Winter 2016 through Spring 2017 - Plan Construction*
- ✓ *Summer 2017 – Complete a Draft Plan*
- ✓ *Summer 2017 – Present Draft Plan to Town Council*
- ✓ *Fall/Winter 2017 & Winter/Spring 2018 – Develop the alternatives approach on Marstons Mills River*
- ✓ *Fall/Winter 2017 – Conceptually design, and propose for funding, initial round of Traditional Solution Projects*
- ✓ *Winter 2018 – Evaluation of Marstons Mills School Wastewater Facility*
- ✓ *Winter/Spring 2018 – Meet with DEP on Permitting of Alternatives*
- ✓ *Spring 2018 – Approved Funding for Preliminary Design of initial Traditional Solution Projects*
- ✓ *Spring 2018 – Approved Funding for Evaluation of Wastewater Disposal Alternatives*
- ✓ *Spring 2018 - Began sampling to support permitting for Alternatives*
- ✓ *Spring 2018 – Began modeling WPCF (BIOWIN)*
- ✓ *Summer 2018 – Began Preliminary Design of initial Traditional Solution Projects*
- ✓ *Summer 2018 – Begin Evaluation of Wastewater Disposal Alternatives*
- ✓ *Summer 2018 – Renewal of WPCF License*
- ✓ *Summer /Fall 2018-Construction of the Attucks Lane Pump Station*
- ✓ *Summer/Fall 2018 – Begin Public Outreach and Feedback*
- ✓ *Fall/Winter 2018 – Dredging of Sampson's Island - Phase I – flushing in Three Bays*
- ✓ *Winter 2018/19 – Understand Financial Options/Opportunities*
- ✓ *Spring 2019 – Present “Final Draft” Plan to Town Council*
- *Fall 2019 – Present Final Draft CWMP to Town Council*
- *Fall 2019 - Submit Final Draft CWMP to CCC for review*
- *Fall 2019 – Draft CWMP to DEP*
- *Fall 2019 - MEPA review*



# CWMP Development – Summer/Fall 2019

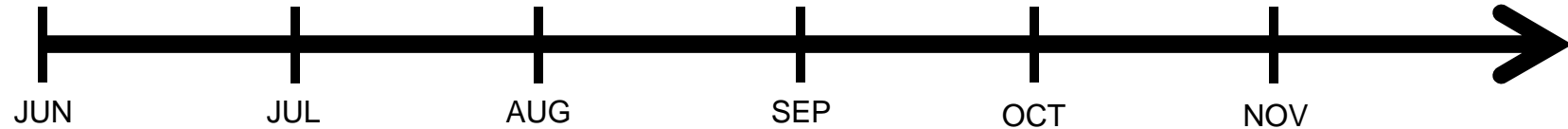


Writing the Draft Report

QA/QC

Town Council

DEP/CCC  
Submittal



## JUN

- Development of Financial Plan
- Drafting sections of the Report
- Meetings with SMAST on Modeling

## JUL

- Modeling underway by SMAST
- Drafting sections of the report
- Compiling report sections

## AUG

- SMAST modeling completed
- Final adjustments to draft report
- Draft CWMP internal review by DPW
- Draft CWMP Review by Town Leadership, Departments and Boards Begins

## SEP

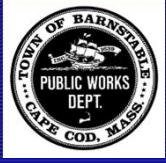
- Conclusion of Draft review by Town Leadership, Departments and Boards
- Incorporation of comments

## OCT

- Presentation of updated Draft CWMP to Town Council
- DEP, CCC, and MEPA Pre-application Meetings

## NOV

- Submission of Draft CWMP to DEP and CCC



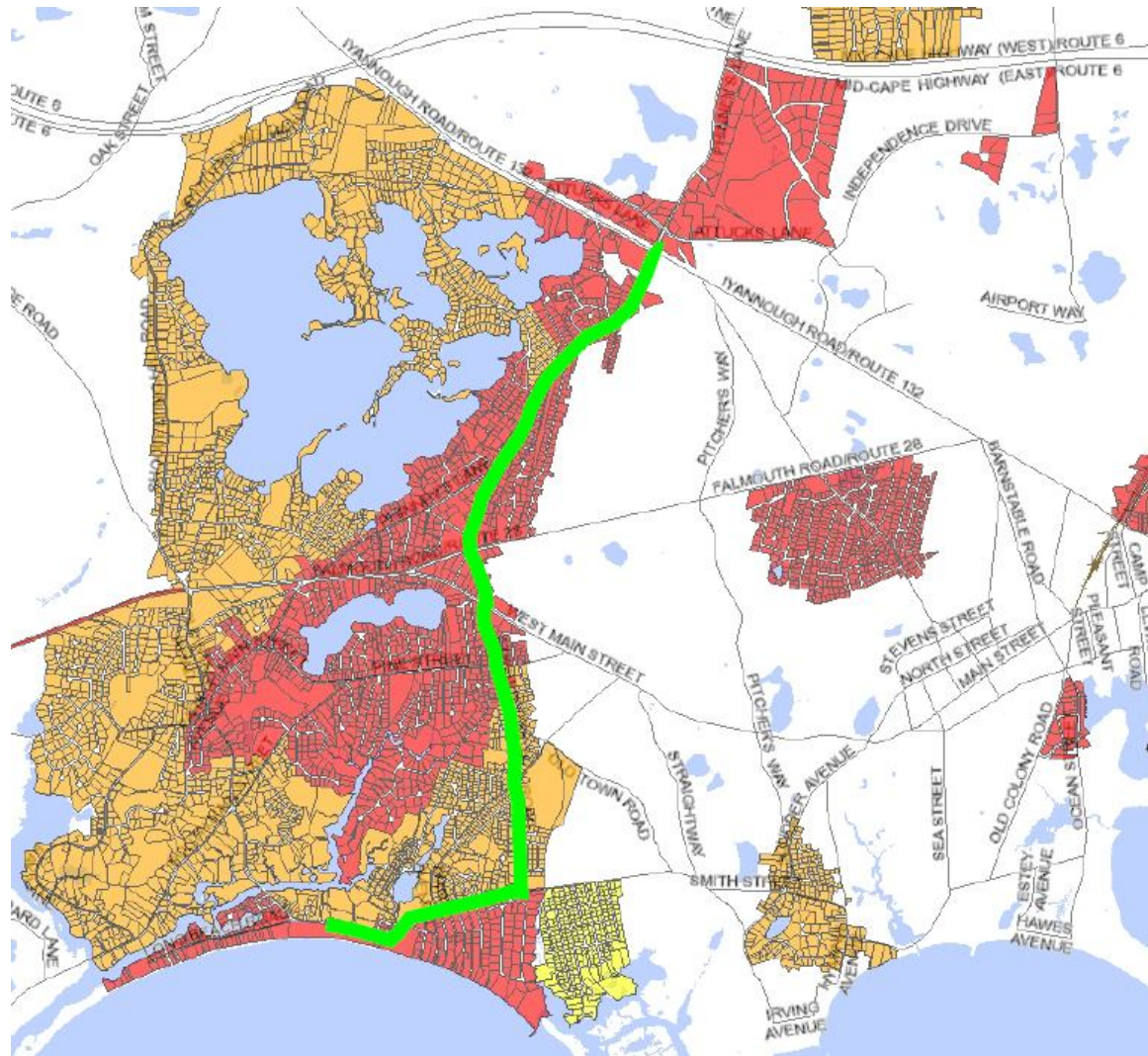
# Update Since March



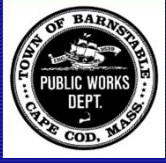
- *Comprehensive Wastewater Management Plan (CWMP) Development*
  - *Report writing*
    - *5 of 8 sections have been drafted*
    - *Finance plan has been drafted and is in discussion*
  - *Modeling*
    - *UMASS-Dartmouth, School for Marine Science and Technology (“SMAST”)*
      - *Contracted for model runs*
      - *Results expected by August 2019*
  - *Public outreach*
    - *Lake Wequaquet Association*
- *FY20 CIP Submissions*
  - *Sampson's Island Channel Dredging Phase II*
  - *Long Pond and Phinney's Lane Sewer Expansion Projects, Final Design*
  - *MM School Pump Station Project*
- *Vineyard Wind*
  - *Design underway*
  - *More discussion later in the evening*



# Leveraging Vineyard Wind's Work



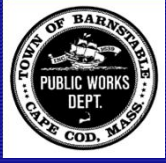
*Town of Barnstable, Department of Public Works*



# *Update Since March - Continued*



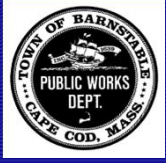
- *Effluent Disposal Study*
  - *Underway*
- *Applied for grants for next phase of Sampson's Island Dredging*
- *Pleasant Street Sewer Upgrades*
  - *CIPP Lining (completed)*
  - *Re-Route Spring Street Flow*
- *Route 28 / Yarmouth Road Intersection*
- *Mill Pond*
  - *Sampling Completed*
  - *About to begin permitting*



# Mill Pond



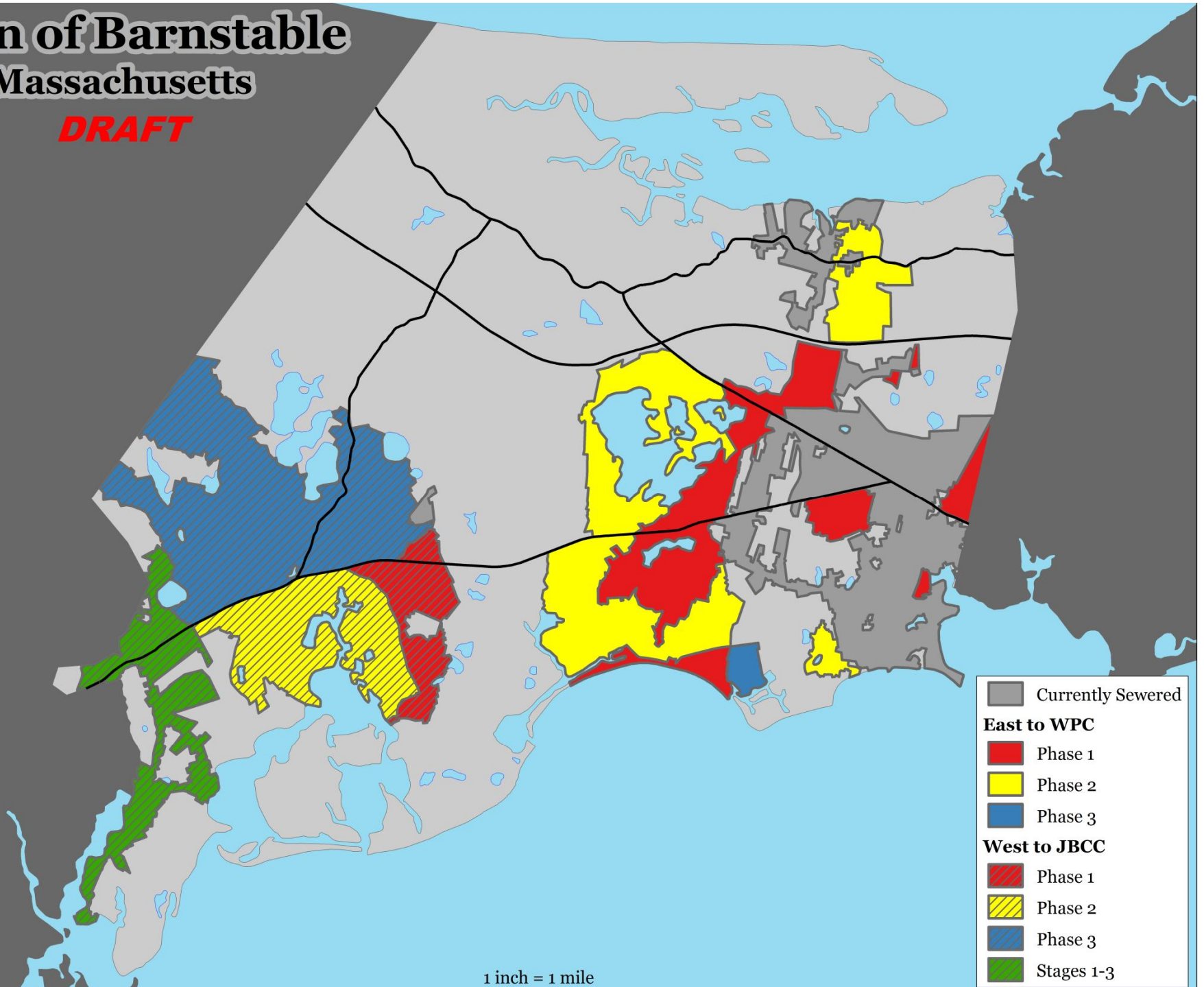
- **Sediment Sampling Complete**
  - Completed two rounds of sampling for a total of 40 locations
  - With the exception of one station in the far north of the pond, the results are in compliance with standards for beneficial re-use.
    - Revised dredging plan will leave those sediments in place (northern area of the pond - prime habitat for the Bridle Shiner)
- **Beneficial Re-Use**
  - Less expensive than disposal
  - EPA Office of Research & Development (EPA ORD) and is conducting research on potential uses.
- **Weekly water sampling by the Barnstable Clean Water Coalition**
  - Creates a baseline for comparison
  - Confirms nitrogen attenuation in the pond is less than 5%
- **Meeting with Massachusetts Natural Heritage & Endangered Species Program (NHESP)**
  - Preparing an updated project plan for the meeting
    - Input from EPA ORD and The Nature Conservancy
- **Permitting**
  - Following the NHESP meeting, we can prepare permit applications
    - Updated Environmental Notification Form (ENF) with MEPA . Target is the fall

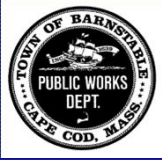


- *JBCC*
  - *Submitted Letter of Intent*
  - *Discussion follows in this presentation*

# Town of Barnstable Massachusetts

***DRAFT***





# Discussion?

