



Water Resources Management Update

Barnstable Town Council

**Department of Public Works
December 21, 2023**



Phase 1 Efforts to Protect Barnstable's Water Resources



Year 3

of 10 year implementation schedule

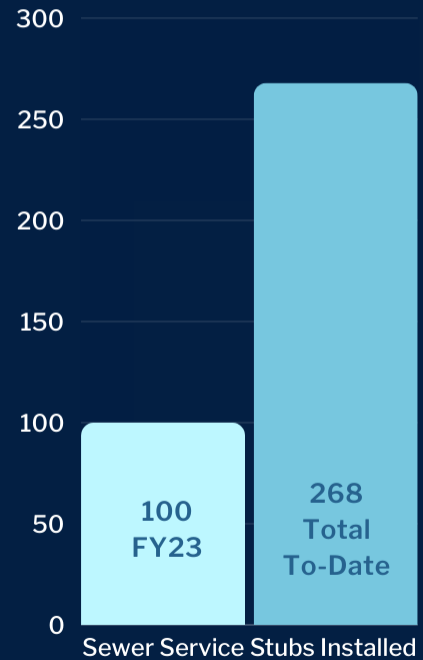
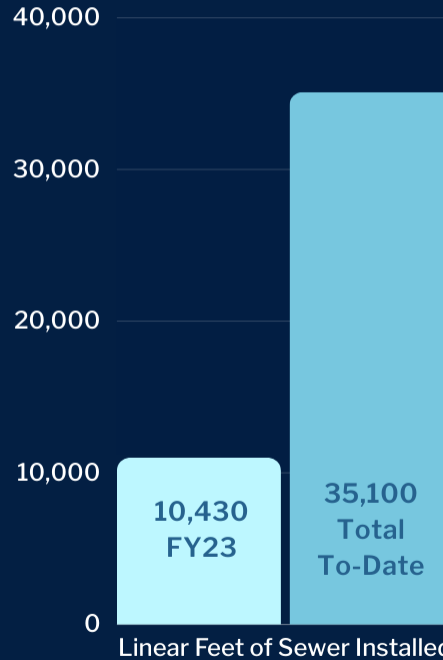


Centerville River Watershed
treated by current Phase 1 projects



Spring 2024

anticipated date for first connections



Comprehensive Wastewater Management Plan

Recent Initiatives

314 CMR 21.00 WP95 – Watershed Permit Application

- Submitted on September 1, 2023
- Current Status: In Review with MassDEP

FY23 CWMP Annual Report

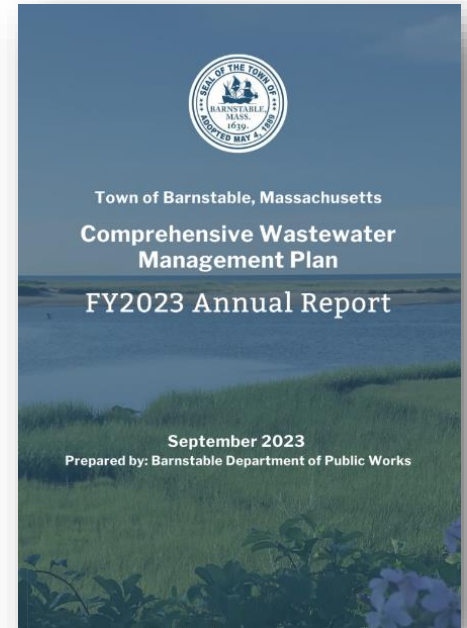
- Water quality monitoring data submitted to Cape Cod Commission
- Report available on BarnstableWaterResources.com

Homeowner's Sewer Connection Guide

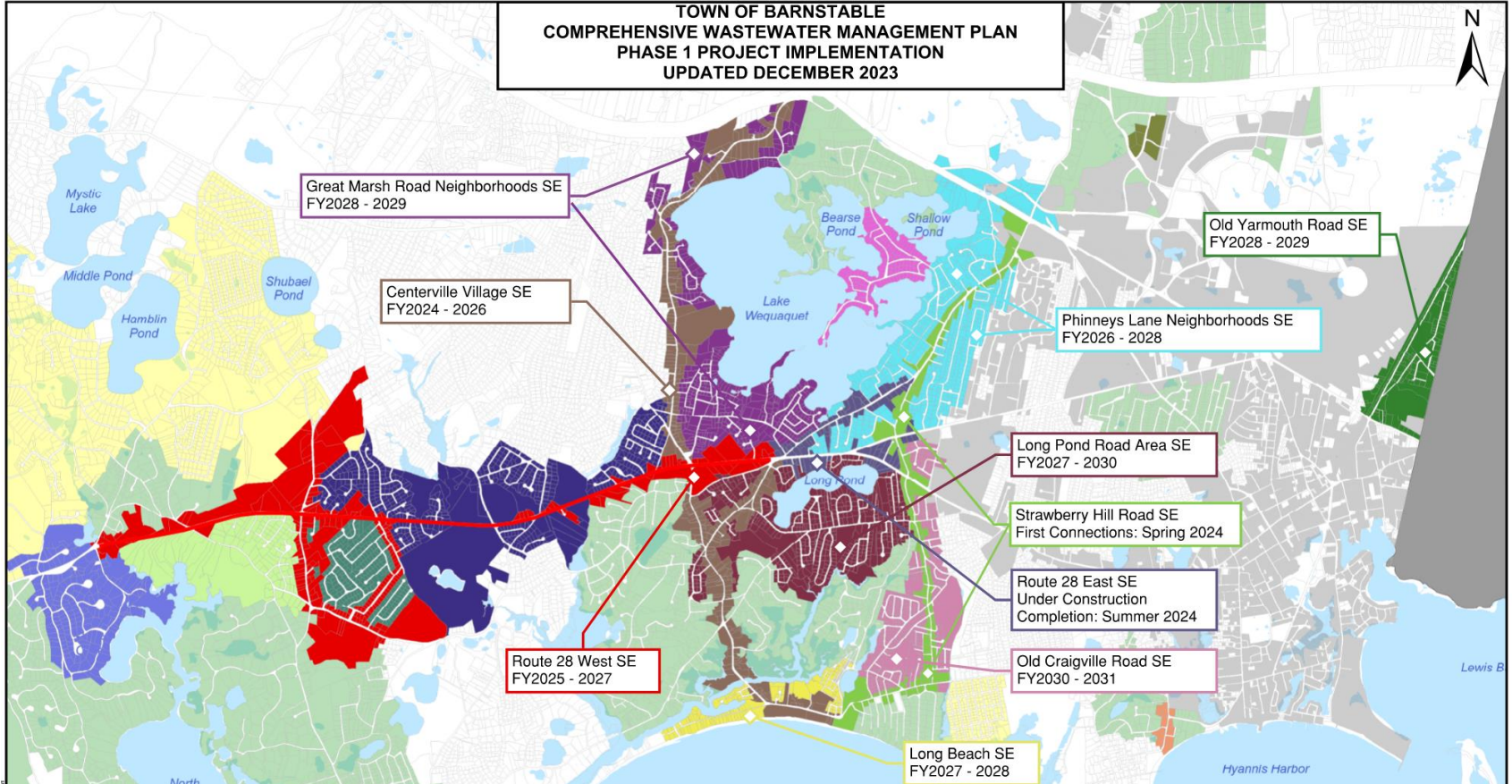
- Will be available ahead of first connections

Outreach & Engagement

- 320+ one-on-one CWMP-specific resident calls tracked
- 40+ community meetings
 - New Barnstable Water Resources 101 workshop series developed in partnership with Barnstable Adult Community Center (Next session 1/30/24 at 1:30PM)



**TOWN OF BARNSTABLE
COMPREHENSIVE WASTEWATER MANAGEMENT PLAN
PHASE 1 PROJECT IMPLEMENTATION
UPDATED DECEMBER 2023**



Strawberry Hill Road	Long Pond Area	Old Yarmouth Road
Route 28 East	Old Craigville Road	Merchants Way
Phinneys Lane Neighborhoods	Long Beach	Hyannis Ave Ext.
Centerville Village	Osterville Woods	Phase 2: 11-20 years
Route 28 West	Lumbert Mill	Phase 3: 21-30 years
Great Marsh Road	Prince Cove	Existing Sewer
Huckins Neck Road	Osterville-West Barnstable	

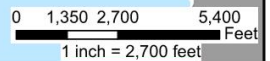
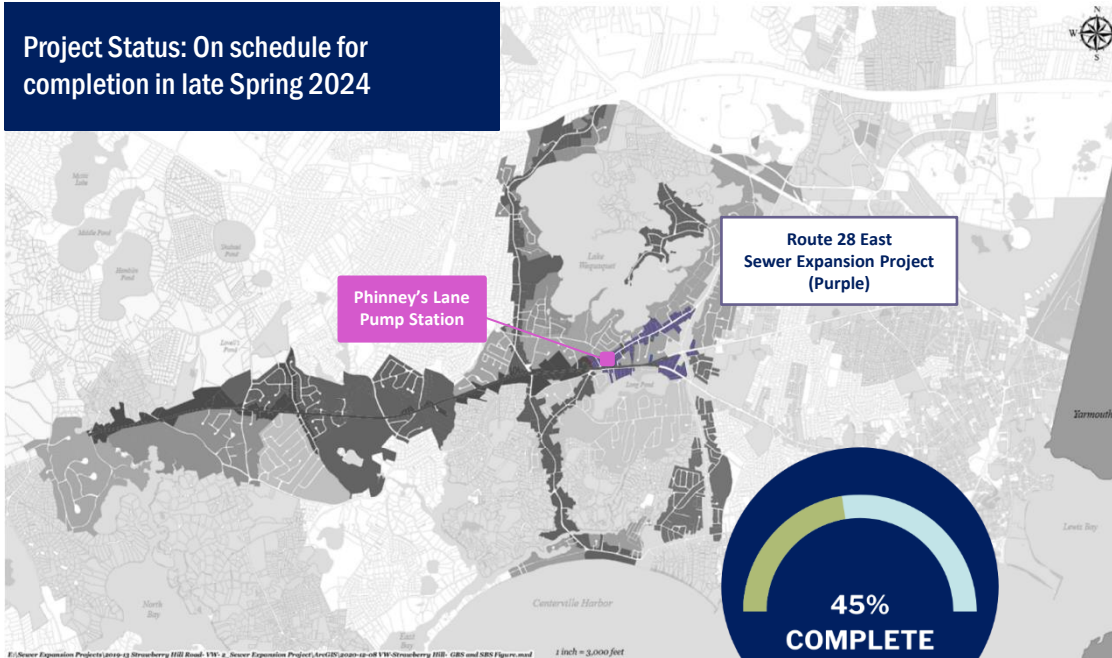


PHOTO: COURTESY OF BARNSTABLE COUNTY

Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Foundational piece of infrastructure for the CWMP

Sewer Construction:

- Continuing to operate with two crews:
 - Crew 1: Phinney's Lane, from Great Marsh Road to Wequaquet Lane
 - Crew 2: To transition to West Main Street in early January, from Route 28 to Strawberry Hill Road
- Anticipated construction completion Spring 2024

Phinney's Lane Pump Station:

- Building construction continues
- Electrical work has commenced
- Anticipated completion Spring 2024



Phinney's Lane Pump Station:
December 2023



Route 28 East Sewer Expansion Project

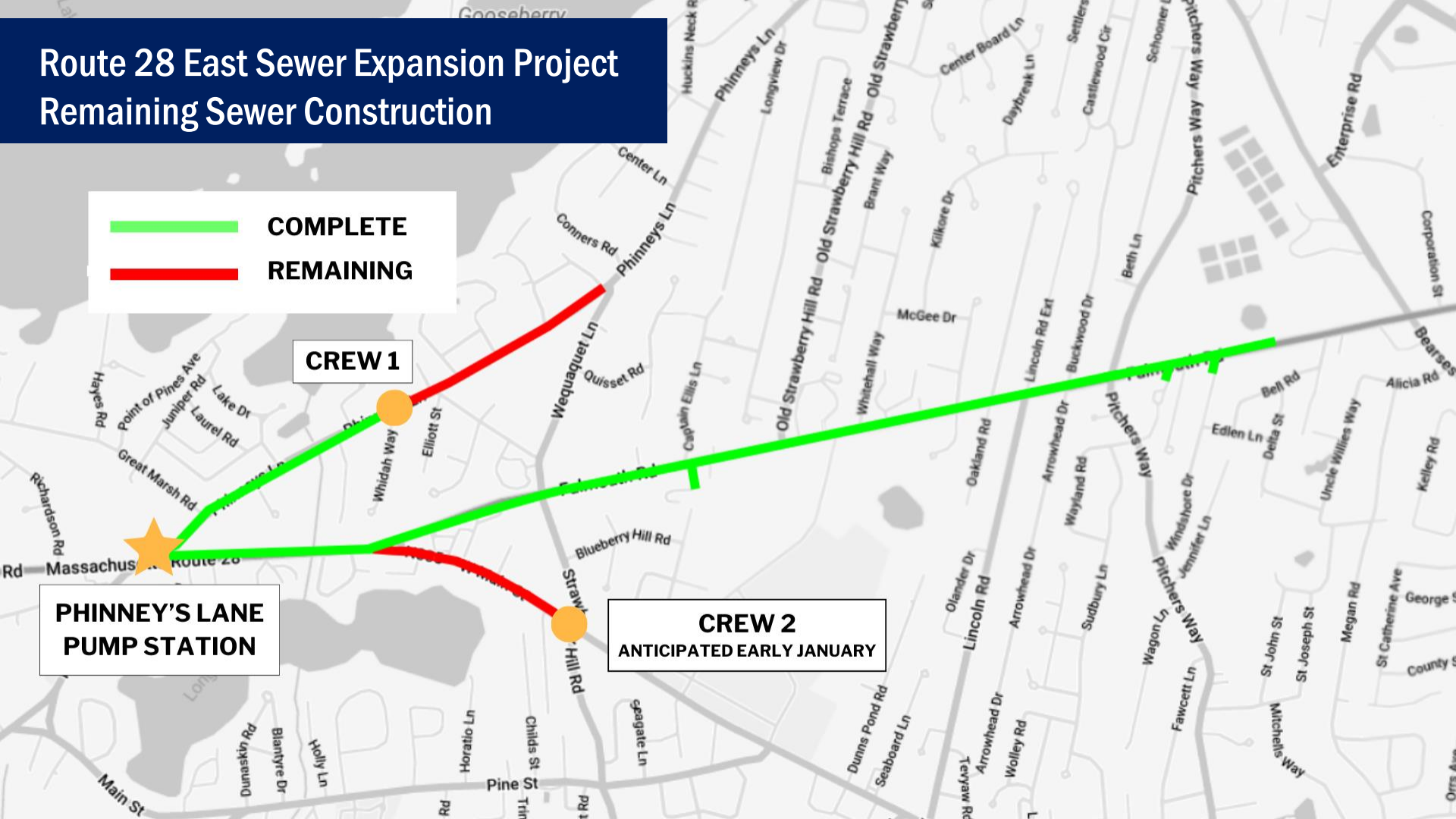
Remaining Sewer Construction

-  COMPLETE
-  REMAINING

CREW 1

**PHINNEY'S LANE
PUMP STATION**

CREW 2
ANTICIPATED EARLY JANUARY



Strawberry Hill Road Sewer Expansion Project

Project Status: Construction completed

Strawberry Hill Road
Sewer Expansion Project
(Green)

95%
COMPLETE

Sewer construction:

- All gravity sewer, service laterals, and sewer service riser construction is complete
- Strawberry Hill Road Pump Station final testing and startup in process
- First connections for a portion of the project route anticipated Spring 2024
 - Phinney's Lane from Route 132 to Statrice Lane
 - Wequaquet Lane from Quisset Road to Route 28
 - Strawberry Hill Road from Route 28 to Craigville Beach Road
 - West Main Street from Strawberry Hill Road to Old Strawberry Hill Road
 - Craigville Beach Road from Strawberry Hill Road to Jackson Avenue

Restoration:

- Vineyard Wind completing paving as part of Host Community Agreement
 - Remaining roadways:
 - Wequaquet Lane
 - Strawberry Hill Road (Route 28 to Pine Street)



Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

Centerville Village Sewer Expansion Project (Brown)

75%
of design
complete

Expedites sewer expansion within roadways along proposed Park City Wind on-shore duct bank installation route

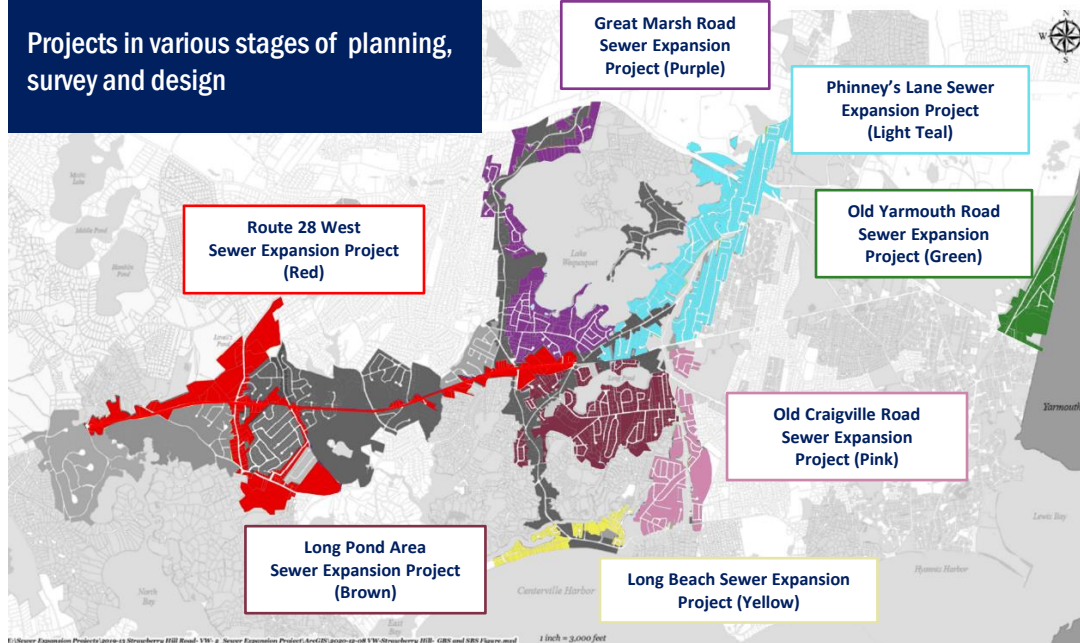
Project Details:

- Project includes the Mother's Park Pump Station
- Reviewing the 75% sewer design
- Securing State Revolving Fund (SRF) funds
 - Requires construction contract be in place by this summer
- Watching Park City Wind schedule and reviewing contingency plans



Additional Sewer Projects in Design

Projects in various stages of planning, survey and design



Route 28 West

- Preliminary design on-going
- Construction anticipated to commence in 2025

Phinney's Lane Neighborhoods

- Preliminary design on-going
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2026

Great Marsh Road Neighborhoods

- Survey anticipated to be complete January 2024
- Construction anticipated to commence in 2028

Long Pond Area and Long Beach Road Projects

- Preliminary design and survey on-going
- Construction anticipated to commence in 2027

Old Yarmouth Road

- Survey complete & design on-going
- Construction anticipated to commence in 2028

Old Craigville Road Projects

- Survey efforts on-going
- Construction anticipated to commence in 2030



Water Pollution Control Facility

Solids Processing Facility Upgrades

- SCADA automation and control work ongoing
- Odor Control Systems are functional
- Substantial project completion anticipated February 2024

720 Main Street Pump Station Replacement Project

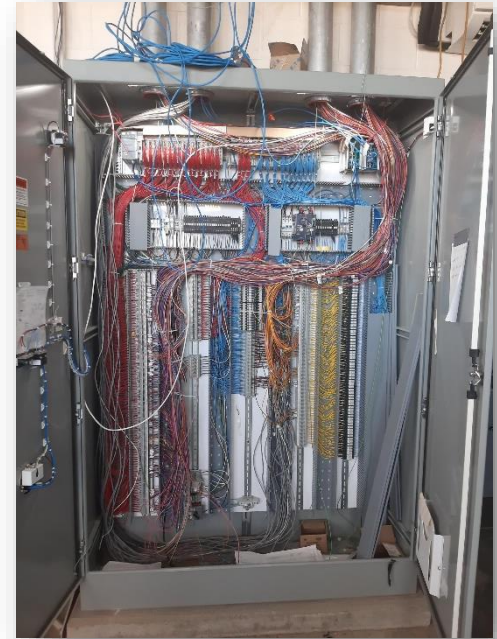
- Growth Incentive Zone (GIZ) capacity upgrades
- Construction of new sewer pump station at 725 Main Street
- Mobilization and site work efforts have commenced
 - Anticipate driving sheets for excavation support in early January
- Initial resident and business outreach has been completed; efforts on-going as construction progresses

Nitrogen Removal and Headworks Improvements

- Preliminary design phase continues, anticipate a basis of design report in the coming weeks

Effluent Disposal Evaluation

- Water Reuse and Disposal Alternatives Analysis in progress with CDM Smith



*Solids Processing Facility
Main control panel wiring, automation continues*

Water Quality

Association to Preserve Cape Cod (APCC)

Boat Ramps Stormwater Improvement Project – Shubael Pond

- Soil evaluations completed within boat ramp parking lot
- Anticipate a public participation meeting Spring 2024

Clamshell Cove Road Stormwater Improvement Project

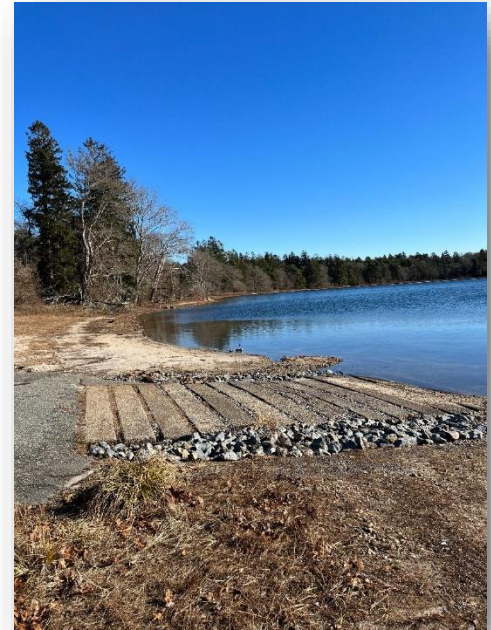
- Natural Resources Conservation Service (NRCS) grant to fund drainage improvements to reduce stormwater inputs into the Shoestring Bay estuary
- NRCS has approved the project proposal
- Next steps include completing an existing conditions survey

Long Pond Marstons Mills Floating Treatment Wetland

- Mooring Permit received
- Preparing a request for quotes and project specifications

Ponds and Lakes Monitoring and Management Plan Program

- Lovells Pond
 - Draft report in review
- Lake Wequaquet, Bearses Pond, and Gooseberry Pond
 - Monitoring in progress through 2024
 - Management plans anticipated in January 2025

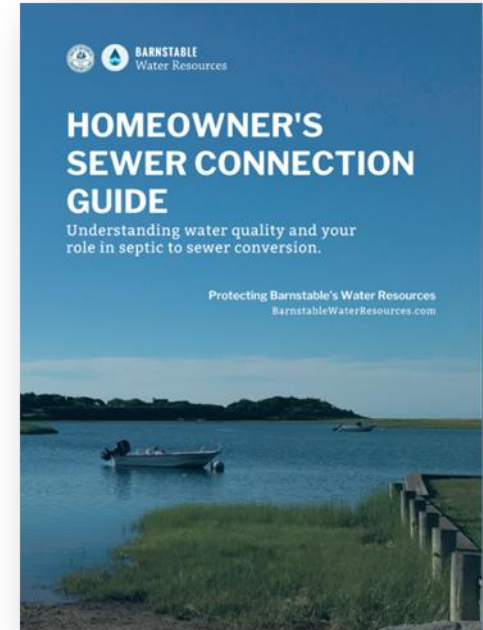


Shubael Pond: APCC Boat Ramp Project will work to address stormwater management



Communications Resources

- Sewer Connection Questions
 - Kelly Collopy at Kelly.Collopy@town.barnstable.ma.us to review property timeline/project status
 - Team of engineers who can assist with technical questions
- BarnstableWaterResources.com
 - One-stop-shop for current project status, construction updates, sewer connection questions and more
 - Library of recent presentations and meeting recordings
 - Modified navigation and improved search functionality
 - Enhanced FAQ development
- Barnstable e-News and My Barnstable Mobile App
 - Weekly digest of news including roadwork impacts, current construction projects, water quality alerts, etc.



In final design – will act as a handbook for property owners to help facilitate the sewer connection process and outline anticipated costs.



