

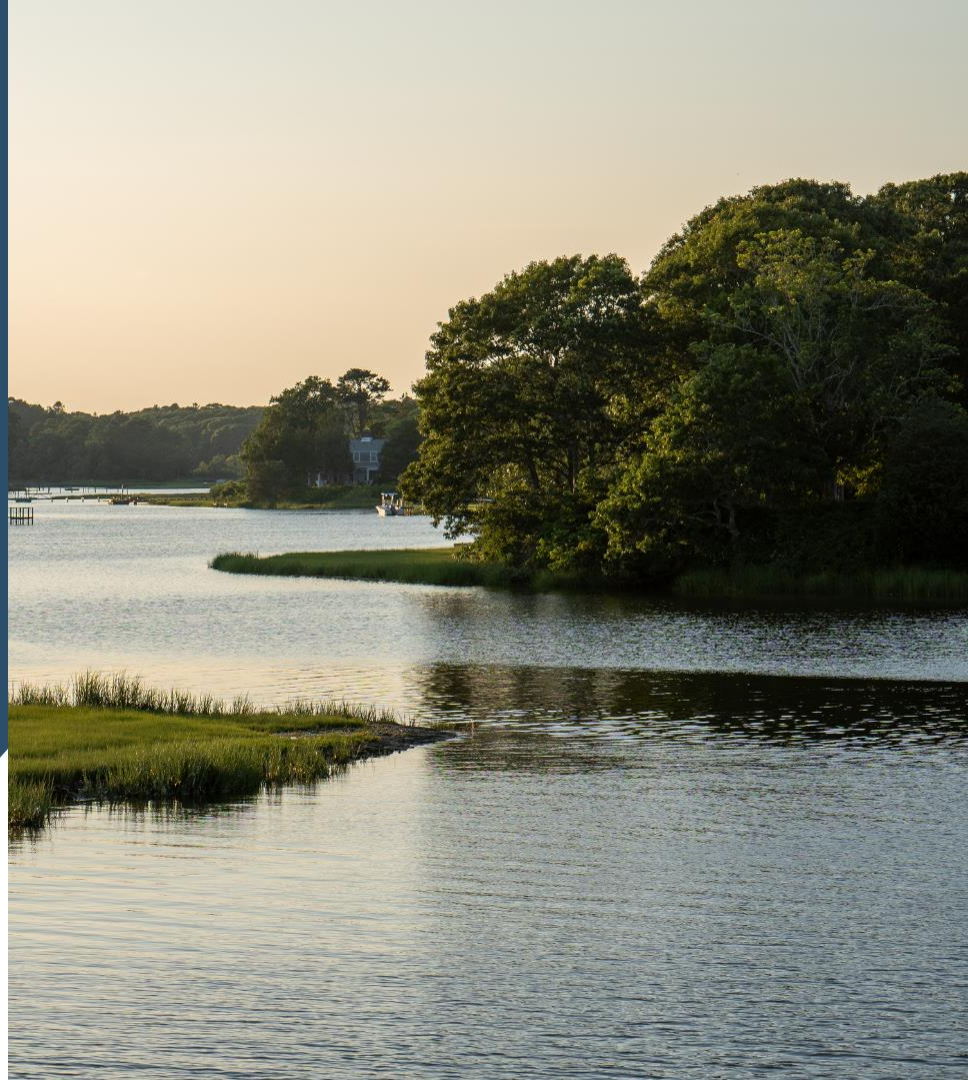
# **WATER RESOURCES** **Management Update**

**Barnstable Town Council**  
**June 26, 2025**

Town of Barnstable  
Department of Public Works



**BARNSTABLE**  
Water Resources





# Watershed Permit

## Draft permit has advanced to Public Notice / Public Comment

Public Notice was issued in the June 11, 2025, edition of the MEPA Office's regulatory publication, *The Environmental Monitor*.

## Public comments are due within 60 days of public notice (August 11, 2025)

Public comments must be submitted to MassDEP directly via Maggie Leary, Environmental Analyst, Bureau of Water Resources, Water Pollution Control for the Cape & Islands at [maggie.leary@mass.gov](mailto:maggie.leary@mass.gov)

A copy of the Public Notice in English, Spanish, and Portuguese is available on Barnstable Water Resources at: [barnstablewaterresources.com/public-notice-barnstable-watershed-permit-application/](https://barnstablewaterresources.com/public-notice-barnstable-watershed-permit-application/)

Should a favorable determination be made, the Town of Barnstable would be the first community in the Commonwealth to receive a Watershed Permit under the new 2023 regulations.







# CWMP Regulatory Compliance

## Five-Year Adaptive Management Plan Update

Draft narrative in progress, Comprehensive Wastewater Management Plan Ad Hoc Committee continues to meet monthly.

- Next Ad Hoc Committee Meeting: Tuesday, July 15, 2025, at 6:00PM
- Resources, agendas, and meeting recordings available at: [barnstablewaterresources.com/ad-hoc-committee/](https://barnstablewaterresources.com/ad-hoc-committee/)

## CWMP Annual Report

Draft narrative and data compilation in progress.

- Final report to be shared with Town leadership and published for public viewing on Barnstable Water Resources at: [barnstablewaterresources.com/reports-documents](https://barnstablewaterresources.com/reports-documents)
- Final report required to be shared with Cape Cod Commission, in accordance with 208 Plan Consistency Determination
- Annual Water Quality Data provided under separate cover, to be aggregated into the Commission's Cape Cod Water Quality Data Portal



# Phase 1 Efforts to Protect Barnstable's Water Resources

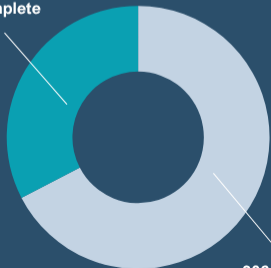
(FY25) July 2024 - June 2025

## Completed Sewer Connections

48%

149 of the 308 eligible properties  
have connected to the newly  
expanded municipal sewer system.

149  
Complete



308 total  
available

## CWMP Projects Publicly Bid

4

### Construction Contracts

Route 28 West Sewer Expansion Project  
Nitrogen Removal and Headworks Upgrade  
268 Stevens Street Sewer Pump Station

### Design RFP

Phinney's Lane Neighborhoods Sewer Expansion Project

**\$959,752**

## EPA Community Grant

Grant funds available for Centerville Village - North Phase construction.

## Total Appropriated Funds to Support FY26 CWMP Projects

Including construction funds for the Phinney's  
Lane Neighborhoods and Centerville Village -  
South Phase Sewer Expansion Projects.

**\$66,075,000**



# Communications & Outreach

Community Meetings

60+

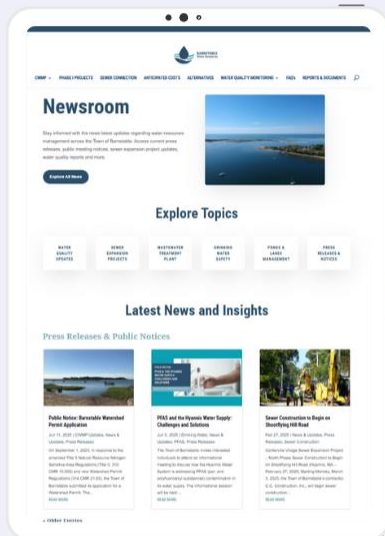
Water Resources Subscribers

2,427

Visits to Barnstable Water Resources

38.5k

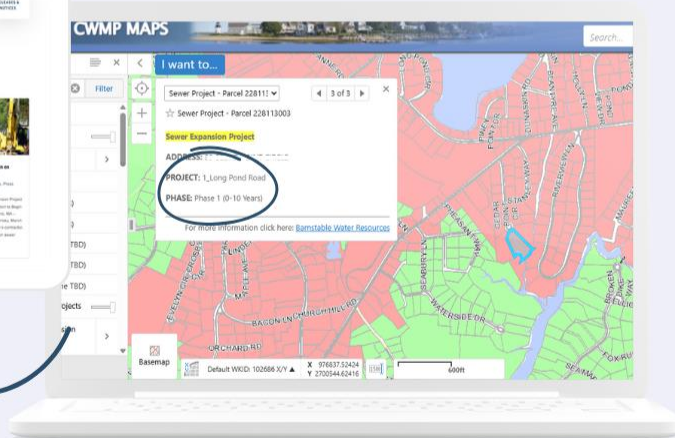
75% increase!



NEW! Public  
CWMP Project Map

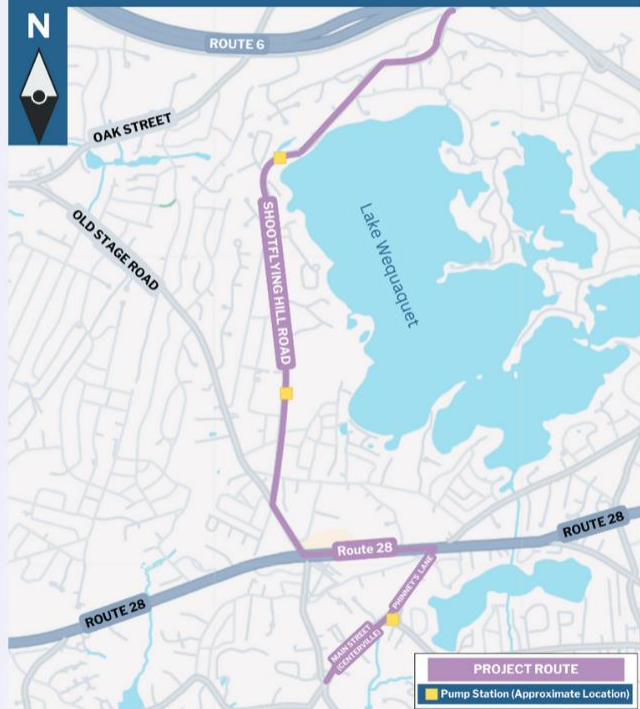
## Site Improvements:

- Newsroom
- Beach Status Updates
- About
- Subscribe
- Connect with Us
- Water Quality Monitoring
- Embayment Monitoring
- Freshwater Ponds & Lakes
- Glossary
- Video Library





## Centerville Village Sewer Expansion Project North Phase



# Centerville Village Sewer Expansion North Phase

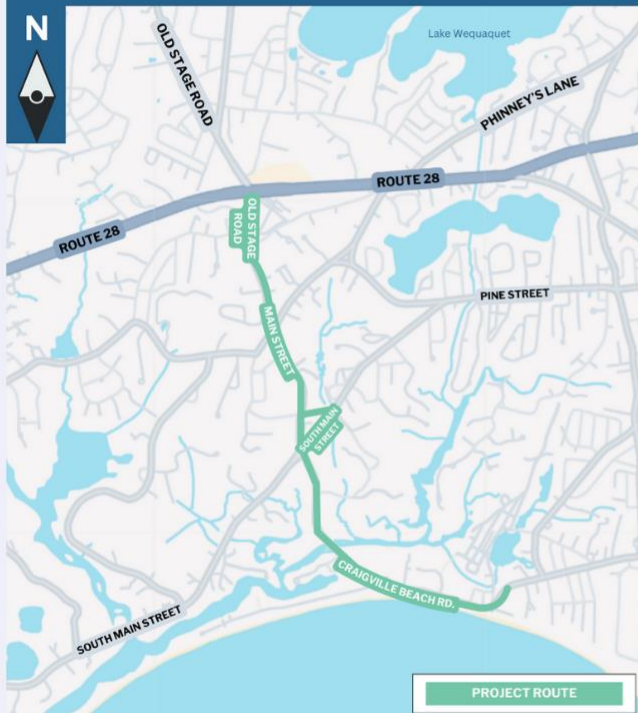
**Status: Construction**

**Substantial Completion: Spring 2027**

- Work has paused for the summer season; contractor has demobilized from the project route.
- Activity is anticipated to begin in September, following the Labor Day holiday.
- Contractor anticipates having two crews available this Fall to continue sewer construction on Shootflying Hill Road and to initiate work within the vicinity of Mother's Park.



## Centerville Village Sewer Expansion Project South Phase



# Centerville Village Sewer Expansion South Phase

**Status: In Design**

**Anticipated Construction: Fall 2026**

- Anticipate 90% design plans to be completed this summer.
- \$16M construction CIP funding request approved by Town Council on April 17, 2025
- Project is listed for full financing on the SRF 2025 Final Clean Water Intended Use Plan (IUP)
- Construction contract must be awarded by June 30, 2026, for the project to remain eligible for principal subsidy





# Route 28 West Sewer Expansion

**Status: In Procurement**

**Anticipated Construction: Fall 2025**

- Public bid submissions due June 25, 2025

## Project Objectives

- To install critical infrastructure serving as the backbone of the sewer program
- To decommission and connect the existing Marstons Mills Wastewater Treatment Plant (MMWTP) to the newly expanded municipal collection system
- Without the infrastructure to be installed as part of this project, the Town could not achieve the regulatory requirements per the CWMP

## Public Outreach

- Project outreach began in January 2025
- Public Information Meeting held on Wednesday, February 5, 2025
- Recording available via Barnstable Government Access and on Barnstable Water Resources: [barnstablewaterresources.com/route-28-west-sewer-expansion-project](https://barnstablewaterresources.com/route-28-west-sewer-expansion-project)
- Will schedule Public Information Meeting and coordinate Certified Mail Project Notifications to all identified property owners upon bid award







# Additional Sewer Expansion Projects in Design

## **Phinney's Lane Neighborhoods Project**

Construction Anticipated: Fall 2026

\$45.6M construction CIP funding request approved on April 17, 2025

Anticipate next round of private road utility easement takings to be presented this Fall

## **Long Beach Area Project**

Construction Anticipated: 2027

Preliminary design complete

## **Long Pond Area Project**

Construction Anticipated: 2027

Preliminary design complete

\$750k final design CIP funding request approved on April 17, 2025

## **Great Marsh Road/Shootflying Hill Road Neighborhoods Project**

Construction Anticipated: 2028

30% sewer design completed

\$2.25M design and permitting CIP funding request approved on April 17, 2025

## **Old Yarmouth Road Project**

Construction Anticipated: 2028

30% sewer design completed

## **Old Craigville Road Project**

Construction Anticipated: 2030

Survey complete; preliminary design on-going



# Water Pollution Control Facility

## Nitrogen Removal and Headworks Improvements Project

### Status: With Procurement

- Public bid submissions due July 8, 2025
- SRF Loan Application submitted
- Targeting construction bid award for late Summer
- #1 ranked project in 2024 State Revolving Fund Clean Water Intended Use Plan (IUP)

## Effluent Disposal Evaluation

### Status: Analysis On-going

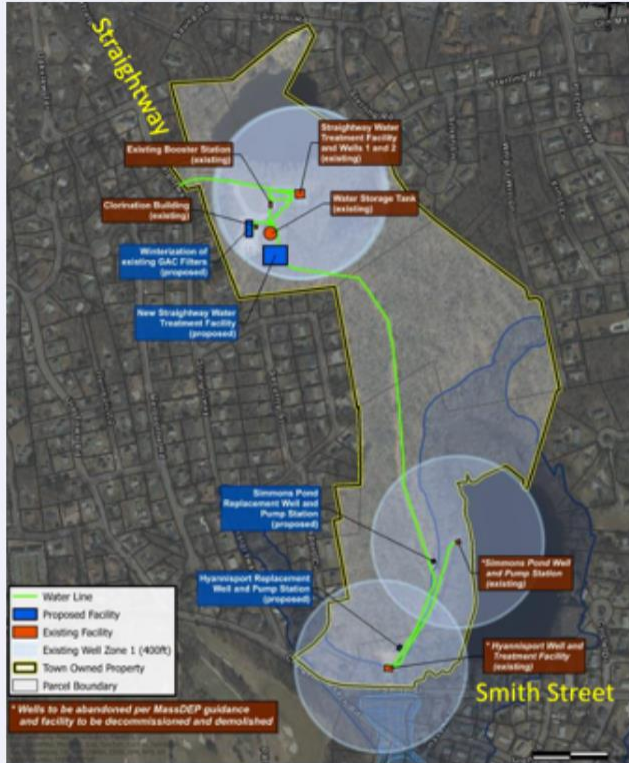
- Water Reuse and Disposal Alternatives analysis continues with consultant, CDM Smith
- Continued monthly meetings with MassDEP

## Bearses Way Sewer Extension and Vacuum Sewer Removal Project

### Status: Construction

- Coordinated in collaboration with MassDOT Bearses Way Shared Use Path Project
- Remaining in-road sewer work includes final tie-in to newly constructed sewer main, service tie-ins, and abandonment of vacuum sewer
- Work has paused for the summer season; anticipate remobilization this Fall, following the Labor Day holiday.





# Straightway & Hyannisport Water Treatment Facilities Improvements

**Status: Preparing to Award Construction Contract**

**Anticipated Construction: Fall 2025**

- Supplemental appropriation order request for \$11.5 million in additional funds to complete construction; first read is anticipated at this week's Town Council (June 26, 2025)

## Project Objectives

- Maximize the permitted capacity of the Hyannis Water System
- Restore the amount of water that the wells can supply to permitted capacity
- Allow the water treatment facility to operate year-round
- Improve the water treatment process to further improve water quality
- Protect the wells and buildings from flooding
- Improve overall system resiliency

## Project Materials

- Project page available on Town of Barnstable website:  
[townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp](https://townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp)
- Project page being incorporated on Barnstable Water Resources; anticipated publishing this week





# PFAS & The Hyannis Water Supply: Challenges and Solutions

PUBLIC MEETING

## PFAS & THE HYANNIS WATER SUPPLY: CHALLENGES AND SOLUTIONS

June 18, 2025 at 7:00PM | Barnstable Town Hall



### Public Information Meeting held on Wednesday, June 18, 2025

- Discussion led by James F. Begley, Principal of MT Environmental Restoration and Licensed Site Professional (LSP) in Massachusetts as part of the Town's Technical Assistance Grant (TAG)
- Presenters included representatives from Barnstable County, Cape Cod Gateway Airport, and Silent Spring
- Meeting was recorded and available for streaming via Barnstable Government Access (<https://www.youtube.com/watch?v=sDU7Hhjgc8I>) and BarnstableWaterResources.com

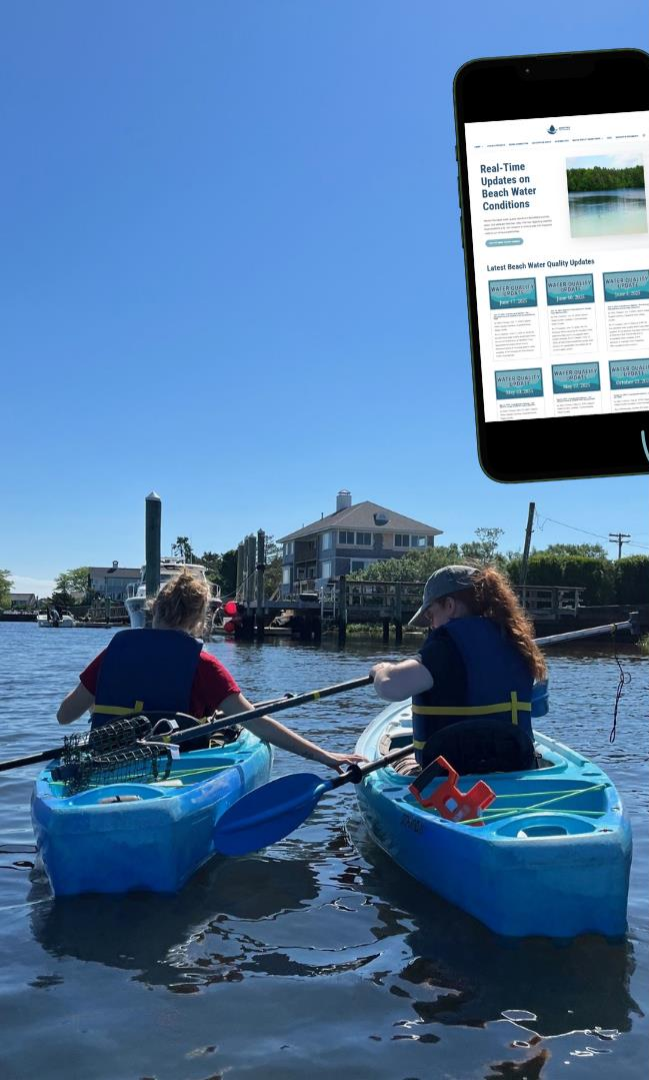
### County Resources

- PFAS Mitigation planning, status reports and recorded meetings available via Barnstable County at: <https://www.capecod.gov/pfas-mitigation/recorded-public-meetings/>

### Next Steps

- Public feedback included the desire for more communication and a dedicated landing place for education, updates, and health resources
- Drinking Water (Hyannis Water System) section being developed on BarnstableWaterResources.com
  - To include PFAS portal with pertinent information related to the Hyannis Water System's history of treatment, water quality reports, and more
  - Anticipate page(s) will be live this week
  - Will include link to new PFAS page(s) in direct email to all attendees + all Water Resources subscribers
  - Intend to promote on Town social media and myBarnstable mobile app





# Water Quality Monitoring

## Cyanobacteria Monitoring Status: In Progress

- 38 sites covering 28 ponds, including all freshwater public and semi-public beaches
- Collaborative effort between Town of Barnstable staff (Department of Public Works and Health Department) and the Association to Preserve Cape Cod (APCC)
- Monitoring is conducted weekly to monthly, with the frequency dependent on cyanobacteria levels and historic occurrence of blooms at each site
- Advisories are posted on Barnstable Water Resources, via the Town's myBarnstable mobile app, Town social media, and physically at the site

## Embayment Monitoring Status: Commences in July

- (7) embayments – Barnstable Harbor, Centerville Harbor, Halls Creek, Lewis Bay, Popponessett Bay, Rushy Marsh, and Three Bays – are sampled four times annually throughout July and September
- Measurements include excess nitrogen loading, low dissolved oxygen, poor water quality, algae / harmful algal blooms, loss of eelgrass habitat, and loss of shellfish habitat
- Provides a critical baseline data for our estuaries along with the ability to track nitrogen improvements as we implement the Town's Comprehensive Wastewater Management Plan (CWMP)



# Learn More About Water Quality Monitoring in Barnstable



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## WATER QUALITY MONITORING

Water is one of our community's most valuable natural resources — shaping our landscapes, supporting local marine and wildlife, and enhancing our quality of life. From our freshwater ponds and lakes to the coastal estuaries that connect us to the sea, these ecosystems are vital to the environment, public health, and the local economy.

Explore the Town of Barnstable's dedicated water quality monitoring programs for freshwater and saltwater ecosystems below.



### Embayment Monitoring

Barnstable's seven (7) embayments — Barnstable Harbor, Centerville Harbor, Little Neck Cove, Little Bay, Pleasant Bay, Rye Bay, and Three Bays — are sampled for toxicants annually throughout July and September. This data is then reported annually to the Cape Cod Commission which is required to the Barnstable Coast and Water Quality Data Portal. Data is used to monitor marine water quality and to help inform the public about the health of our coastal resources.

Measurements are taken for dissolved oxygen, water clarity, nutrients (a nitrogen, nitrate, and nitrite), and various (ammonia, and phosphorus). Water quality monitoring is an important tool for assessing the health of our coastal resources and for identifying areas that need further protection.

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### Freshwater Ponds & Lakes

There are 103 ponds in Barnstable — 27 ponds greater than 10 acres, 17 ponds and wetlands between 10 and 100 acres, and 59 ponds less than 10 acres. These ponds are sampled for toxicants annually throughout July and September. This data is then reported annually to the Cape Cod Commission which is required to the Barnstable Coast and Water Quality Data Portal. Data is used to monitor freshwater water quality and to help inform the public about the health of our freshwater resources.

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Embayment Monitoring Program

Ponds & Lakes Monitoring Program




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### Cape Cod Water Quality Data Portal


The Cape Cod Water Quality Data Portal is a map-based viewer that allows users to explore marine and freshwater water quality data compiled by the Cape Cod Commission for the region. Click on the map to view water quality data and to help inform the public about the health of our coastal resources.

Click here to view the Cape Cod Water Quality Data Portal.

### Water Quality Measurements

Since 2001, the Town of Barnstable, along with the Barnstable Coast Water Quality Data Portal (BCWQ), and other volunteers, have completed annual embayment monitoring efforts to assess the health of our coastal resources. Currently, water quality surveys are conducted at a total of 103 embayment stations in Barnstable Harbor, Little Neck Cove, Little Bay, Pleasant Bay, Rye Bay, and Three Bays.


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### Cyanobacteria Monitoring Program

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Ponds & Lakes Stewardship (PALS) Monitoring

Cyanobacteria Monitoring Program




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## Ponds & Lakes Monitoring Programs

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Ponds & Lakes Stewardship (PALS) Monitoring

Cyanobacteria Monitoring Program



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## Hear from the Experts

On May 20, 2024, the Barnstable Town Council hosted a Surface Water and Coastal Resources Workshop, which welcomed presenters from the Massachusetts Department of Environmental Protection (MassDEP), Barnstable Coast Water Quality Data Portal, and other experts in the field. The workshop provided an opportunity for the public to learn more about the current state of our water resources and the challenges we face in protecting them.

Click here to view the workshop video.

### Ponds & Lakes Management Program

Management plans are developed for each pond and lake in Barnstable. These plans provide a framework for the ongoing management and maintenance of these water bodies. The plans include information on the current state of the water body, the goals for its management, and the actions that need to be taken to achieve those goals.

Click here to view the Ponds & Lakes Management Program.

### Fish Passage & Culvert Restoration Projects

Since 2001, the Town of Barnstable has completed a number of fish passage restoration projects. These projects have been designed to improve the ability of fish to move freely through the waterways of Barnstable. The projects have included the installation of fish ladders, the removal of barriers to fish passage, and the restoration of natural habitat.

Click here to view the Fish Passage & Culvert Restoration Projects.

### CURRENT PROJECTS

**Shutout Pond**

The Shutout Pond project is a water quality monitoring project that is currently underway. The project involves the installation of water quality monitoring equipment at Shutout Pond. The data collected from this project will be used to assess the current state of the pond and to develop a management plan for the pond.

**Lake Elizabeth Fish Ladder & Culvert Replacement**

The Lake Elizabeth Fish Ladder & Culvert Replacement project is a fish passage restoration project that is currently underway. The project involves the replacement of the existing fish ladder and culvert at Lake Elizabeth with a new fish ladder and culvert. The new fish ladder and culvert will be designed to improve the ability of fish to move freely through the waterway.

**Little Neck Fish Passage Facility Study**

The Little Neck Fish Passage Facility Study is a fish passage restoration project that is currently underway. The study involves the assessment of the current state of the fish passage facility at Little Neck and the development of a management plan for the facility.

**Long Pond Outlets Outlets / Fish Passage**

The Long Pond Outlets Outlets / Fish Passage project is a fish passage restoration project that is currently underway. The project involves the installation of fish passage facilities at the outlets of Long Pond. The new fish passage facilities will be designed to improve the ability of fish to move freely through the waterway.

**Long Pond Stream Channel Facility Study**

The Long Pond Stream Channel Facility Study is a fish passage restoration project that is currently underway. The study involves the assessment of the current state of the stream channel facility at Long Pond and the development of a management plan for the facility.

**Mill Pond Fish Ladder**

The Mill Pond Fish Ladder project is a fish passage restoration project that is currently underway. The project involves the installation of a fish ladder at Mill Pond. The new fish ladder will be designed to improve the ability of fish to move freely through the waterway.

**Row Lake Culvert Replacement Project**

The Row Lake Culvert Replacement Project is a fish passage restoration project that is currently underway. The project involves the replacement of the existing culvert at Row Lake with a new culvert. The new culvert will be designed to improve the ability of fish to move freely through the waterway.

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Water Resources