# TOWN OF EASTHAM

2500 State Highway, Eastham, MA 02642-2544
*All departments* 508 240-5900 *Fax* 508 240-1291
www.eastham-ma.gov


TRANSMITTAL MEMORANDUM

TO: Ann Herrick - CIP
U.S. Environmental Protection Agency - Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, MA 01608

FROM: Mary Elizabeth Burgess, Town Planner

RE: Town of Eastham
Phase II Annual Report – Permit Year 3
EPA NPDES#: MAR041110
DEP Transmittal #: W040891

Pursuant to the requirements under the National Pollution Discharge Elimination System (NPDES) Stormwater General Permit to meet the United States Environmental Protection Agency's (EPA) Final Phase II Stormwater Rule, attached please find a certification in accordance with 40 CFR 122.22 and an Annual Report (with attachments) for Permit Year 3 for the Town of Eastham. Please don not hesitate to contact me at 508.240.5906 x202 if you have any question s or require any additional information.

**Municipality/Organization:** **Town of Eastham**

**EPA NPDES Permit Number:** **MAR041110**

**MaDEP Transmittal Number:** **W-040891**

**Annual Report Number & Reporting Period:** **No. 3: March 2005-March 2006**

# NPDES PII Small MS4 General Permit Annual Report

## Part I. General Information

Contact Person: Mary Elizabeth Burgess Title: Town Planner

Telephone #: 508.240.5906 x202 Email: meburgess@eastham-ma.gov

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Sheila Vanderhoef

Printed Name: Sheila Vanderhoef

Title: Town Administrator

Date: January 22, 2007

## Part II. Self-Assessment

**The Town of Eastham has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.**

## Part III. Summary of Minimum Control Measures

### 1. Public Education and Outreach

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| 1.1 | Educational Brochures | NR, DPW | Development of Brochures | Updated Brochures from Year 2. Continued to coordinate with Local Regional Planning Agency on Informational Campaign | Continue to update educational brochures as new information arises. |
| Revised | | | | | |
| | | | | | |
| Revised | | | | | |
| 1.3 | Storm Water Video | Planning | Airing on Cable TV | Program discontinued due to lack of funding. | Obtain Funding to resurrect this project. |
| Revised | | | | | |
| 1.4 | Coastal/Pond Cleanup | ConCom, DPW | Conducting Cleanup | Coastal Cleanup conducted as part of MCZM's "Coastsweep" Program completed bi annually | Cleanup completed twice yearly in the Spring and Fall. Includes local aquaculturalists, cub scouts and Regional School students |
| Revised | | | | | |
| 1.5 | Office Brochure | NR, DPW, Planning | Availability of Brochures | Brochures with local contact info corresponding with 1.1 displayed in NR/DPW Building and Building Dept in Town Hall. Posters were added to the informational campaign. | Continue to update brochures and Informational Posters in Permit Year 4. |
| Revised | | | | | |
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| Revised | | | | | |

### 1a. Additions

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## 2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| 2.1 | Storm Water Management Program | NR, DPW, ConCom, Planning, Health, WRAB | Development of Program | This program was discontinued due to lack of support. | Look into resurrecting project. |
| Revised | | | | | |
| 2.2 | Pollution Reporting | NR, DPW, Pond Stewards | Visual Monitoring/ Recording | Routine monitoring of marine areas conducted by NR staff five times per week, daily monitoring of drainage system/ road network by DPW, and monitoring of fresh surface waters by Eastham Pond Stewards. Monitoring capabilities augmented for summer months in Rock Harbor (marina) by seasonal employee. | Continue with monitoring as described for Permit year 3. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

**2a. Additions**

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## 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| 3.1 | Map Outfalls | NR, DPW, Planning | Comprehensive Map | Due to lack of funding, there is no progress of this project | Continue to look for grant money to fund this project |
| Revised | | | | | |
| 3.2 | Detection of Non-Stormwater | NR | Correction of Discharges | Continue to identify any non-stormwater discharges and remedy the situation depending on source of discharge. | Continue project indefinitely. |
| Revised | | | | | |
| 3.3 | Dry Weather Flow Screening | NR | Screening Testing | Incorporate dry weather flow screening into the routine monitoring of marine areas conducted by NR staff five times per week starting every starting in spring and ending in the fall. | Continue project indefinitely. |
| Revised | | | | | |
| 3.4 | Reporting Line | NR, DPW | Establishment of Line | Line established for NR and DPW to report any inappropriate inputs to the MS4. Reports involving oil or hazardous waste is referred to the Fire Dept and MA DEP | Continue project indefinitely. |
| Revised | | | | | |
| 3.5 | Hazardous Product Collection | Health, DPW, Recycling | Conducting Collection Day | Hazardous collection days was held on July 15, 2005 and September 16, 2005. | Continue conducting collection days. Tentatively scheduled for July 16, 2005 and September 9, 2006. |
| Revised | | | | | |
| | | | | | |
| Revised | | | | | |

## 3a. Additions

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## 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| 4.1 | Draft Construction Site Runoff Control Bylaw | ConCom, Planning | Develop Bylaw | Proposed Bylaw to be created and incorporated into Local Wetland Control Bylaw and Local Subdivision Control Bylaw. | Implement Bylaw Changes in Permit Year 4. |
| Revised | | | | | |
| 4.2 | Enact Construction Site Runoff Control Bylaw | ConCom, Planning, Town Meeting | Implement Bylaw | Programmed Start Permit Year 4 | Programmed Start Permit Year 4. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 4a. Additions

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## 5. Post-Construction Stormwater Management in New Development and Redevelopment

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| 5.1 | Draft Construction Site Runoff Control Bylaw | ConCom, Planning | Develop Bylaw | Proposed Bylaw to be created and incorporated into Eastham Wetland Bylaw and Local Subdivision Control Bylaw. | Implement Bylaw Changes in Permit Year 4. |
| Revised | | | | | |
| 5.2 | Amend Site Plan Review | ConCom, Planning | Develop Bylaw | Proposed Bylaw to be created and incorporated into Eastham Wetland Bylaw and Local Subdivision Control Bylaw. | Implement Bylaw Changes in Permit Year 4. |
| Revised | | | | | |
| 5.3 | Enact Construction Site Runoff Control Bylaw | ConCom, Planning, Town Meeting | Implement Bylaw | Programmed Start Permit year 4 | Implement/enforce Construction Site Runoff Control Bylaw. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 5a. Additions

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## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| 6.1 | Annual Training | NR, DPW, Planning | Training session | Program Postponed. | Program Postponed. |
| Revised | | | | | |
| 6.2 | Review of Town Properties | DPW | Audit Report | Programmed Start Permit Year 4 | Programmed Start Permit Year 4 |
| Revised | | | | | |
| 6.3 | Review of Town Operations | DPW, Health | Audit Report | Programmed Start Permit Year 4 | Programmed Start Permit Year 4 |
| Revised | | | | | |
| 6.4 | Catch Basin Cleaning | DPW | Updated Log | Cleaned all Town owned Catch Basins in the Spring and Fall of 2005. | Clean all Town owned Catch Basins in the Spring and Fall of 2006. |
| Revised | | | | | |
| 6.5 | Street Sweeping | DPW | Record of Areas Swept | Swept all Town owned Roadways and parking lots in April and September of 2005. | Sweep all Town owned Roadways and Parking lots in April and September of 2006. |
| Revised | | | | | |
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| Revised | | | | | |

## 6a. Additions

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|---|---|---|---|---|---|
| 6.6 | Remediation of Existing Outfall | DPW | Elimination of Stormwater discharge | Three discharge sites identified: Steele Road, Cooks Brook Road and Thumpertown Road. | Discharge Eliminated in Permit year 3 |

| | | | | | |
|---|---|---|---|---|---|
| 6.7 | Drainage Alterations | DPW | Catch Basin Replacement | 25 Catch Basins identified for replacement or closure. | Continued through Permit Year 4 |

## 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>*

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4 |
|---|---|---|---|---|---|
| | | | | | |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 7a. Additions

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**7b. WLA Assessment**

**NOT APPLICABLE**

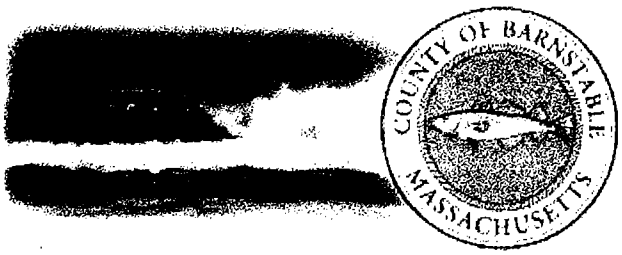
**Part IV. Summary of Information Collected and Analyzed**

FRESHWATER SAMPLING: The Cape Cod Pond and Lake Stewardship (PALS) are continually sampling the Eastham ponds in an effort to identify possible pollutants and recommend the best management practices for containing and elimating possible pollutants.

BEACH SAMPLING: Sixteen Eastham Beaches (eleven salt water and five freshwater) were sampled in the summer of 2005 by the Barnstable County's Department of Health and Environment. Four Beaches had samples above the sampling limit (see attached summary data). However, those samples exceeding the limits only resulted in the posting of swimming advisory notices. While a definitive cause was never determined for the need to post the swimming advisory, speculation was that it was related to natural geological conditions (peat deposits) and not related to a direct stormwater discharge (No outfall pipe exists).

GROUND WATER SAMPLING: The Town continued its voluntary sampling project to evaluate levels of nitrate in residential wells. Each year 1/3 of the Town is sampled. The sampling has rotated back to the first 1/3 sample area and continually sample the town allowing for a three year sampling rotation schedule.

SHELLFISH SAMPLING: The Natural Resources Office continued to test for Red Tide and participate in shellfish sampling in coordination with Massachusetts Division of Marine Fisheries on a weekly basis throughout the Spring, Summer and Fall.




# Cape Cod Summer 2005

## Directory of Beach Location and Water Quality



# Eastham Public Bathing Beach Water Quality Report

**Beaches are tested weekly during the summer bathing season (June to August). In the event of a b failure, the beach in question will be resampled daily thereafter until results permit re-opening. ' most recent weeks of sample results will be included in this chart. Green indicates good water qu and red indicates bacteria levels above the acceptable standard.**

| Pass | Fail |
|---|---|

| Marine (salt) Beaches: | 6/8/05 | 6/15/05 | | 6/22/05 | | 6/29/05 | |
|---|---|---|---|---|---|---|---|
| S. Sunken Meadow | | | | 6/22 | 6/23 | | |
| Cook's Brook | | | | 6/22 | 6/23 | | |
| Campground Beach | | | | | | | |
| Thumpertown | | | | | | | |
| Kingsbury | | 6/15 | 6/16 | | | | |
| Cole Road Beach | | | | | | | |
| First Encounter Beach | | | | | | 6/29 | |
| First Encounter Spit | | | | | | | |
| Boat Meadow | | | | | | | |
| Dyer Prince | | | | | | | |
| Town Cove | | | | | | | |

| Freshwater Beaches: | 6/8/05 | 6/15/05 | 6/22/05 | 6/29/05 | |
|---|---|---|---|---|---|
| Long Pond (Depot Street) | | | | | |
| Herring Pond | | | | | |
| Wiley Park | | | | | |
| Great Pond | | | | | |
| Minister Pond | | | | | |

Town by Town Beach Top of

## *Eastham Public Beaches - 2005*

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | rain | rain | | rain | rain | rain | rain | | | | rain at night | | | | | | |
| **Date of Last Rain:** | 5/26 | 5/26 | 6/16 | 6/22 | 6/22 | 6/28 | 6/30 | 7/6 | 7/7 | 7/9 | 7/9 | 7/9 | 7/9 | 7/22 | 7/22 | 7/22 | 7/22 | 7/22 | 7/22 |
| **Amount of Last Rain:** | 0.17 | 0.17 | 0.01 | 0.02 | 0.02 | 0.05 | 0.01 | 2 | 0.01 | 0.18 | 0.18 | 0.18 | 0.18 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |

| **Marine Beaches** | **6/8** | **6/15** | **6/16** | **6/22** | **6/23** | **6/29** | **6/30** | **7/6** | **7/7** | **7/13** | **7/20** | **7/21** | **7/22** | **7/25** | **7/26** outgoing am | **7/26** incoming pm | **7/27** | **7/28** | **7/29** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S. Sunken Meadow | 2 | 12 | | 200 | 4 | 20 | | 24 | | 4 | 56 | | | | | | 352 | 64 | |
| Cook's Brook | <2 | 18 | | 110 | 32 | <2 | | 118 | 4 | <2 | 156 | 134 | >400 | 24 | 4 | 190 | 160 | 148 | 120 |
| Campground Beach | <2 | 14 | | 48 | | 2 | | 2 | | 1 | 102 | | | | | | 2 | | |
| Thumpertown | <2 | 66 | | 6 | | 22 | | <2 | | <2 | 80 | | | | | | 2 | | |
| Kingsbury | 4 | 240 | 4 | 30 | | 54 | | 24 | | <2 | 14 | | | | | | 12 | | |
| Cole Road Beach | 6 | 92 | | 30 | | 4 | | 4 | | <2 | 4 | | | | | | 2 | | |
| First Encounter Beach | <2 | 38 | | 40 | | 136 | <2 | 8 | | <2 | 69 | | | | | | 6 | | |
| First Encounter River | <2 | 8 | | 8 | | 30 | | <2 | | 8 | 2 | | | | | | 12 | | |
| Boat Meadow | <2 | 22 | | 6 | | 84 | | 12 | | <2 | 74 | | | | | | 5 | | |
| Dyer Prince | 1 | 4 | | 38 | | 4 | | >400 | 20 | 2 | 8 | | | | | | <2 | | |
| Town Cove | <2 | <2 | | 1 | | 4 | | <2 | | 38 | <2 | | | | | | 18 | | |

| **Fresh Water** | **6/8** | **6/15** | **6/22** | **6/29** | **7/6** | **7/7** | **7/13** | **7/20** | **7/27** | **7/28** |
|---|---|---|---|---|---|---|---|---|---|---|
| Great Pond | 32 | <4 | <4 | 8 | | <4 | 8 | 8 | <4 | |
| Herring Pond | <4 | 16 | 12 | 6 | <4 | | <4 | 4 | 4 | |
| Long Pond (Depot St) | 4 | 16 | 4 | 32 | | 4 | <4 | <4 | 280 | 24 |
| Minister Pond | 10 | <4 | 4 | 16 | | 72 | 56 | 36 | 12 | |
| Wiley Park | <4 | <4 | <4 | <4 | 4 | | 4 | 48 | <4 | |

| | |
|---|---|
| **# Marine Beach Samples** | **174** |
| **# Marine Beach Failures** | **23** |
| **% Marine Failures** | **13.22%** |
| | |
| **# Fresh Water Samples** | **66** |
| **# Fresh Water Failures** | **1** |
| **% Fresh Water Failures** | **1.52%** |

***Eastham Semi-Public***
***Beaches - 2005***

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | rain | rain | rain | | | | | | | | | rain | | | | | | | |
| **Date of Last Rain:** | 5/26 | 5/26 | 6/22 | 6/28 | 7/7 | 7/9 | 7/9 | 7/9 | 7/22 | 7/22 | 7/22 | 7/22 | 7/22 | 8/2 | 8/2 | 8/2 | 8/2 | 8/5 | 8/5 | 8/5 | 8/5 |
| **Amount Last Rain:** | 0.17 | 0.17 | 0.02 | 0.06 | 0.01 | 0.18 | 0.18 | 0.18 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.2 | 0.2 | 0.2 | 0.2 |

| **Marine Beach Organizations:** | **6/8** | **6/15** | **6/22** | **6/29** | **7/7** | **7/13** | **7/20** | **7/22** | **7/25** | **7/27** | **7/28** | **7/29** | **8/1** | **8/2** | **8/3** | **8/4** | **8/5** | **8/8** | **8/9** | **8/10** | **8/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Silver Springs Assoc.** | | | | | | | | >400 | 20 | | 112 | 168 | 24 | 56 | 140 | 34 | 8 | 52 | 26 | <2 | 2 |
| **Massasoit Hills** | | | | | | | | | | | | | | | | | | 162 | 32 | 2 | 14 |

| **Fresh Water Organizations:** | **6/8** | **6/15** | **6/22** | **6/29** | **7/7** | **7/13** | **7/20** | **7/22** | **7/25** | **7/27** | **7/28** | **7/29** | **8/1** | **8/2** | **8/3** | **8/4** | **8/5** | **8/8** | **8/9** | **8/10** | **8/11** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nauset Haven Lakeside Condo (Ministers Pond) | <4 | 6 | 12 | <4 | 24 | 10 | 20 | | | 80 | | | | | 18 | | | | | 8 | |
| Whispering Pines Condo (Muddy Pond) | <4 | 12 | 8 | 54 | 32 | 4 | <4 | | | 4 | | | | | 24 | | | | | <4 | |

| | | | | | |
|---|---|---|---|---|---|
| **Date of Last Rain:** | 8/5 | 8/15 | 8/15 | 8/17 | 8/30 |
| **Amount Last Rain:** | 0.2 | 0.03 | 0.03 | 0.01 | 0.74 |

| **Marine Beach Organizations:** | **8/12** | **8/17** | **8/18** | **8/24** | **8/31** | **# Samples** | **# Fail** |
|---|---|---|---|---|---|---|---|
| **Silver Springs Assoc.** | | 46 | | 72 | 78 | 16 | 4 |
| **Massasoit Hills** | 6 | | | | | 5 | 1 |

| **Fresh Water Organizations:** | **8/12** | **8/17** | **8/18** | **8/24** | **8/31** | **# Samples** | **# Fail** |
|---|---|---|---|---|---|---|---|
| Nauset Haven Lakeside Condo (Ministers Pond) | | 348 | <4 | <4 | | 13 | 1 |
| Whispering Pines Condo (Muddy Pond) | | <4 | | <4 | | 12 | 0 |

| | |
|---|---|
| **# Marine Beach Samples** | **21** |
| **# Marine Beach Failures** | **5** |
| **% Marine Failures** | **23.81%** |
| | |
| **# Fresh Water Samples** | **25** |
| **# Fresh Water Failures** | **1** |
| **% Fresh Water Failures** | **4.00%** |

## *Eastham Public Beaches - 2005*

8/1 night .13

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | rain | | | | | | | | | | | | rain | | rain |
| **Date of Last Rain:** | 7/22 | 8/2 | 8/2 | 8/2 | 8/2 | 8/5 | 8/5 | 8/5 | 8/5 | 8/5 | 8/15 | 8/15 | 8/15 | 8/24 | 8/31 | 9/1 |
| **Amount of Last Rain:** | 0.12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.03 | 0.03 | 0.03 | 0.01 | 0.74 | 0.07 |

| **Marine Beaches** | **8/1** | **8/2** | **8/3** | **8/4** | **8/5** | **8/8** | **8/9** | **8/10** | **8/11** | **8/12** | **8/17** | **8/18** | **8/24** | **8/25** | **8/31** | **9/1** | **# Samp** | **# Fail** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S. Sunken Meadow | | | 360 | 14 | 134 | 240 | 4 | <2 | 40 | 6 | 16 | | 12 | | 20 | | 21 | 5 |
| Cook's Brook | 32 | 100 | 148 | 130 | 280 | 62 | <2 | 2 | <2 | <2 | 76 | | 14 | | 52 | | 30 | 12 |
| Campground Beach | | | 28 | | | | | <2 | | | 10 | | 30 | | <2 | | 13 | |
| Thumpertown | | | 16 | | | | | <2 | | | 28 | | <2 | | 14 | | 13 | |
| Kingsbury | | | 2 | | | | | 2 | | | 190 | 2 | 2 | | 8 | | 15 | 2 |
| Cole Road Beach | | | <2 | | | | | <2 | | | 2 | | <2 | | 2 | | 13 | |
| First Encounter Beach | | | 2 | | | | | <2 | | | 30 | | 2 | | <2 | | 14 | 1 |
| First Encounter River | | | <2 | | | | | <2 | | | 7 | | <2 | | <2 | | 13 | |
| Boat Meadow | | | 24 | | | | | <2 | | | 26 | | 4 | | 8 | | 13 | |
| Dyer Prince | | | 4 | | | | | 2 | | | 8 | | 26 | | >400 | 4 | 15 | 2 |
| Town Cove | | | <2 | | | | | 14 | | | 2 | | >400 | <2 | 8 | | 14 | 1 |

| **Fresh Water** | **8/3** | **8/10** | **8/17** | **8/24** | **8/31** | **# Samp** | **# Fail** |
|---|---|---|---|---|---|---|---|
| Great Pond | <4 | <4 | 8 | 2 | 24 | 13 | |
| Herring Pond | <4 | <4 | <4 | <4 | <4 | 13 | |
| Long Pond (Depot St) | 4 | <4 | 4 | 4 | 24 | 14 | 1 |
| Minister Pond | 16 | 8 | 8 | <4 | 16 | 13 | |
| Wiley Park | 2 | 22 | <4 | 4 | 2 | 13 | |

| | |
|---|---|
| **# Marine Beach Samples** | **174** |
| **# Marine Beach Failures** | **23** |
| **% Marine Failures** | **13.22%** |
| | |
| **# Fresh Water Samples** | **66** |
| **# Fresh Water Failures** | **1** |
| **% Fresh Water Failures** | **1.52%** |