

**Year 2 Annual Report**  
**Massachusetts Small MS4 General Permit**  
**Reporting Period: July 1, 2019-June 30, 2020**

*\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\**

*Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2019 and June 30, 2020 unless otherwise requested.*

**Part I: Contact Information**

Name of Municipality or Organization:

EPA NPDES Permit Number:

**Primary MS4 Program Manager Contact Information**

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address:

## Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

<b><u>Impairment(s)</u></b>			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Chloride	<input type="checkbox"/> Nitrogen	<input type="checkbox"/> Phosphorus
<input type="checkbox"/> Solids/ Oil/ Grease (Hydrocarbons)/ Metals			
<b><u>TMDL(s)</u></b>			
<i>In State:</i>	<input type="checkbox"/> Assabet River Phosphorus	<input type="checkbox"/> Bacteria and Pathogen	<input type="checkbox"/> Cape Cod Nitrogen
	<input type="checkbox"/> Charles River Watershed Phosphorus	<input type="checkbox"/> Lake and Pond Phosphorus	
<i>Out of State:</i>	<input type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Metals	<input type="checkbox"/> Nitrogen
			<input type="checkbox"/> Phosphorus
			<input type="button" value="Clear Impairments and TMDLs"/>

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

### Year 2 Requirements

- Completed Phase I of system mapping
- Developed a written catchment investigation procedure and added the procedure to the SWMP
- Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP
- Enclosed or covered storage piles of salt or piles containing salt used for deicing or other purposes
- Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP
- Developed an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment and added this inventory to the SWMP
- Completed a written program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Developed written SWPPPs, included in the SWMP, for all of the following permittee owned or operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The Town and stormwater consultant performed SWPPP inspections at the DPW facility and transfer station on June 24, 2020. See COVID-19 impacts section. Due to the delay in inspection, the SWPPPs were prepared in Permit Year 3. These plans will be finalized in Permit Year 3.

Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - This is not applicable because we do not have sanitary sewer
  - This is not applicable because we did not find any new SSOs
  - The updated SSO inventory is attached to the email submission
  - The updated SSO inventory can be found at the following website:
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- Provided training to employees involved in IDDE program within the reporting period
- All curbed roadways were swept at least once within the reporting period
- Updated outfall and interconnection inventory and priority ranking as needed

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

**Bacteria/ Pathogens** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach\**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

*\* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

*Optional:* Use the box below to provide any additional information you would like to share as part of your self-assessment:

### Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- Yes  
 No

If yes, describe below, including any relevant impairments or TMDLs:

The impairments included in the Town's original NOI submission were based on the Massachusetts Year 2014 Integrated List of Waters approved on February 23, 2016. On January 2, 2020 the 2014 list was replaced with the approval of the Massachusetts Year 2016 Integrated List of Waters. The 2016 list include the following changes to Weymouth waterbodies, which is also summarized in an attached table:

-Mill River (MA74-04): Nutrient/Eutrophication Biological Indicators impairment was removed and E. Coli impairment was added.

-Old Swamp River (MA74-03): E. Coli impairment was added.

-Weymouth Back River (MA74-05): E. Coli impairment was added.

-Weymouth Fore River (MA74-14): Enterococcus impairment was added.

-Plymouth River (MA74-20) was added as a Category 5 receiving waterbody.

In the spring the Engineering Department completed significant updates to the drainage inventory in GIS based on field inspection notes and record drawings. An updated Drainage Atlas was produced for the Engineering Department's ongoing use. As a result, 44 new previously unmapped outfalls were added to the inventory. 75 outfalls were removed from the MS4 because they were discovered to be a private outfall, BMP structure, culvert inlet, or culvert outlet. Receiving waters will be assigned to new outfalls in Permit Year 3; no changes to impaired waters requirements are expected.

## Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

### MCM1: Public Education

Number of educational messages completed during this reporting period:

Below, report on the educational messages completed during this reporting period. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

#### **BMP: Education and Outreach (multi-media methods)**

Message Description and Distribution Method:

Pet Waste Outreach Program: Due to COVID-19 pandemic, the pet waste Scoop It cards were not distributed to town clerk's offices, vets and businesses.

Weymouth has a partnership with the North and South Rivers Watershed Association (NSRWA), a local, non-profit environmental organization. The NSRWA sent the article "The Problem of Dog Waste on the South Shore" to The Globe, the Patriot Ledger, Wicked Local, and the Weymouth Mariner. The article was also posted on the NSRWA Facebook page and on the Everything Weymouth Facebook page.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

The NSRWA Facebook post received 208 likes, 209 comments, and 142 shares. The Facebook post was boosted with a \$50 ad targeted to Weymouth with a reach of 6,852 people and 173 engagements. There were also 453 page views on The Problem of Dog Waste on the South Shore web page.

Message Date(s):

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

#### **BMP: Education and Outreach (multi-media methods)**

Message Description and Distribution Method:

The Town maintains a Stormwater webpage where residents can find information on the Town's SWMP, NOI, PY1 Annual Report, and outfall map. Residents can submit a DPW Service Request to report stormwater-related problems. There are also links to the following resources:

- EPA's "What You Can Do to Soak Up the Rain"
- "Proper Management of Pet Waste"

- "Ways to Prevent Stormwater Runoff Pollution"  
 - "Proper Maintenance of Privately Owned Septic Systems"  
 - "All About Water and Pollution for Kids and Teachers"

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

The information is available to all visitors of the Town's website.

Message Date(s): Ongoing

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

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**BMP: Education and Outreach (multi-media methods)**

Message Description and Distribution Method:

On behalf of the members of the WaterSmart South Shore, Think Blue Massachusetts ran an educational advertising campaign from May 16th to June 5th, 2020. The "Fowl Water" video advertisement helps viewers visualize stormwater pollution from motor oil, pet waste, and trash become stormwater pollution. This advertisement was used as a sponsored video on Facebook, Instagram, and YouTube.

Targeted Audience: Residents

Responsible Department/Parties: WaterSmart South Shore

Measurable Goal(s):

Out of the 12 communities who participated in this advertising campaign, Weymouth had the highest amount of impressions. Weymouth had 63,746 Facebook/Instagram impressions and 57,299 YouTube impressions for a total of 121,044 impressions. Full survey results can be found at: <https://www.thinkbluemassachusetts.org/ms4-communities>

Message Date(s): May 16 - June 5, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

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**BMP: Education and Outreach (multi-media methods)**

**Message Description and Distribution Method:**

Information on the following topics can be found on the NRWA website:

- Greenscapes
- Create a Healthy Yard and Go Organic
- Recycling Water
- How to Build a Rain Garden
- Indoor Water Conservation
- Pet Waste Education
- Plant a Monarch Garden
- Rain Barrel and Composter Sale
- School Programs
- Septic Systems Maintenance
- Stormwater
- Water Conservation Tips
- WaterSmart Business

The NSRWA shares these materials frequently on their social media pages. Additionally, to adapt to the shift of virtual learning in classrooms, the NSRWA has sent a virtual curriculum of watershed related educational supplements to teachers.

Targeted Audience: Residents and Businesses, institutions and commercial facilities

Responsible Department/Parties: NSRWA

Measurable Goal(s):

The information is available to all visitors of the NSRWA's website and social media pages. Children are learning from the virtual educational supplements provided by NSRWA.

Message Date(s): Ongoing

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

Add an Educational Message

**MCM2: Public Participation**

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

The Stormwater Management Plan (SWMP) was posted for public review and made publicly available on the



Town's website. There is contact information provided along with the plan for residents to provide feedback.

Was this opportunity different than what was proposed in your NOI? Yes  No

Describe any other public involvement or participation opportunities conducted **during this reporting period**:

- WaterSmart's Gardening Green Expo event that was going to be on March 28, 2020 was held virtually this year. Resources, educational videos, and a greenscapes guide were posted on the NSRWA website.
- WaterSmart South Shore, NSRWA, and Harbor Media are sponsoring a 2020 summer video contest for anyone in the WaterSmart Communities. Residents are encouraged to submit a video that highlights either stormwater pollution and how to prevent it, or ways to conserve water for a chance to win a \$500 gift card.
- The Town hosts a Household Hazardous Waste Collection Day twice a year. The Fall 2019 Household Hazardous Waste Day was held on November 2, 2019. Household Hazardous Waste Day was canceled in Spring 2020 due to COVID-19. Currently, there is a Fall Household Hazardous Waste Day scheduled for October 31, 2020.
- The annual spring cleanup of the Weymouth Herring Run was canceled due to COVID-19.
- A Weymouth Community Clean Up Day was held on April 25, 2020. The DPW provided gloves, trash and yard waste bage for all registered projects. Lunch and entertainment was provided for all volunteers.

### **MCM3: Illicit Discharge Detection and Elimination (IDDE)**

#### **Sanitary Sewer Overflows (SSOs)**

Check off the box below if the statement is true.

- This SSO section is NOT applicable because we DO NOT have sanitary sewer

Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period**.

Number of SSOs identified:

Number of SSOs removed:

#### **MS4 System Mapping**

Below, check all that apply.

The following elements of the Phase I map have been completed:

- Outfalls and receiving waters
- Open channel conveyances
- Interconnections
- Municipally-owned stormwater treatment structures
- Waterbodies identified by name and indication of all use impairments
- Initial catchment delineations

*Optional:* Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

Based on historic mapping and review of record drawings, the Town has no known interconnections from

Weymouth's MS4 into another MS4.

### **Screening of Outfalls/Interconnections**

*If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.*

- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

*Below, report on the number of outfalls/interconnections screened **during this reporting period.***

Number of outfalls screened:

### **Catchment Investigations**

*If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.*

- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

Not Applicable.

*Below, report on the number of catchment investigations completed **during this reporting period.***

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated **to date.***

Percent of total catchments investigated:

*Optional: Provide any additional information for clarity regarding the catchment investigations below:*

No catchment investigations were completed in Permit Year 2. The Town has not identified any problem catchments.

### **IDDE Progress**

*If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.*

- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed **during this reporting period.***

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed:  gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed **since the effective date of the permit (July 1, 2018).***

Total number of illicit discharges identified:

Total number of illicit discharges removed:

*Optional:* Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

**Employee Training**

Describe the frequency and type of employee training conducted **during the reporting period:**

An IDDE refresher training was held outside at the DPW garage on June 24, 2020. 13 Town staff from DPW and Engineering participated.

**MCM4: Construction Site Stormwater Runoff Control**

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period.***

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

*Optional:* Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

476 Inspections completed - 276 inspections by the Engineering Division, and 200 inspections by the Conservation Administrator.

## **MCM5: Post-Construction Stormwater Management in New Development and Redevelopment**

### **Ordinance or Regulatory Mechanism**

*Below, select the option that describes your ordinance or regulatory mechanism progress.*

- Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- Bylaw, ordinance, or regulations have not been updated or adopted

### **As-built Drawings**

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

DPW regulations have been drafted under the Chapter 8 Section 700 Stormwater Management Ordinance to formalize current requirements for as-builts and long-term O&M and to improve interdepartmental coordination and consistency. See Additional Information about the adoption schedule for these Regulations. In addition, the Building Department Plot Plan Regulations require certified as-built plot plans to be submitted before an occupancy permit can be issued.

### **Street Design and Parking Lots Report**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

Preparation for the Street Design and Parking Lots Report has not yet begun as this requirement is due in Permit Year 4.

### **Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

Preparation for the Green Infrastructure Report has not yet begun as this requirement is due in Permit Year 4.

### **Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

Preparation for the Retrofit Properties Inventory has not yet begun as this requirement is due in Permit Year 4.

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## MCM6: Good Housekeeping

### Catch Basin Cleaning

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins **during this reporting period**.*

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

*Below, report on the total number of catch basins in the MS4 system.*

Total number of catch basins:

*If applicable:*

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

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### Street Sweeping

*Report on street sweeping completed **during this reporting period** using one of the three metrics below.*

Number of miles cleaned:

Volume of material removed:

Weight of material removed:

### O&M Procedures and Inventory of Permittee-Owned Properties

*Below, check all that apply.*

The following permittee-owned properties have been inventoried:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

The following O&M procedures for permittee-owned properties have been completed:

- Parks and open spaces

- Buildings and facilities
- Vehicles and equipment

**Stormwater Pollution Prevention Plan (SWPPP)**

*Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period.***

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

**Additional Information**

**Monitoring or Study Results**

*Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.*

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

**Additional Information**

*Optional:* Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

Note: the total catch basins in Weymouth's GIS includes approximately 1,900 identified as state and private owned.

Updates to the stormwater regulations were planned for Permit Year 2, however due to delay in the MA Stormwater Handbook updates and the Small MS4 General Permit revisions, the Town plans to complete these updates in Permit Year 3 to meet MCM4 and MCM 5 updated requirements.

In August 2020, the Town submitted a CWSRF Planning Project PEF application for \$591,000 for a

Stormwater Master Plan that will include the following MS4 program requirements:

- Improve the drainage system asset inventory
- Continue data collection for catch basins, and connectivity that will be included in Phase II mapping.
- Conduct catchment investigations
- Conduct a condition assessment of the stormwater system which will help update catchment priority ranking and prepare a risk-based CIP
- Regulatory review for GI and LID
- Town-wide retrofit assessment
- Stormwater utility feasibility study

The proposed timeline for this work will begin in July 2021. It is anticipated that the updates will be completed in Permit Year 8 (FY 2026).

### **COVID-19 Impacts**

*Optional:* If any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

As discussed throughout this report, COVID-19 safety restrictions delayed or canceled public events, delayed initial SWPPP inspections, and tightened the budget available for stormwater compliance. Throughout the Spring, DPW and Engineering were working at half-capacity.

### **Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

### **Annual Requirements**

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program

- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

Provide any additional details on activities planned for permit year 3 below:

The Town acknowledges the Permit Year 3 requirements in the General Permit and intends to complete as many activities as possible based on funding and staff availability.



## Part V: Certification of Small MS4 Annual Report 2020

### 40 CFR 144.32(d) 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, I certify that 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.

Name:  Title:

Signature:  Date:

*[Signatory may be a duly authorized representative]*

*Note: When prompted during signing, save the document under a new file name.*

### Annual Report Submission

*Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.*

EPA: [stormwater.reports@epa.gov](mailto:stormwater.reports@epa.gov)

MassDEP: [laura.schifman@mass.gov](mailto:laura.schifman@mass.gov)

### Paper Signature:

*If you did not sign electronically above, you can print the signature page by clicking the button below.*

*Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.*