



## TOWN OF MARSHFIELD

965 Plain Street  
MARSHFIELD, MA 02050

### Department of Public Works

Phone: 781-834-5575

September 29, 2025

Michelle Vuto

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

Elizabeth Clark

[Stormwater.DEP@mass.gov](mailto:Stormwater.DEP@mass.gov)

Re: Town of Marshfield, MA MS4 Annual Report Year 7  
EPA NPDES Permit No. MAR1048

The Town is submitting the 7<sup>th</sup> year annual Report via Email and included in that submission are the following:

MS4 Year 7 Annual Report – Town of Marshfield

Attachments:

1. Stormwater Asset Management
2. Proposed Stormwater Bylaw Updates
3. Road Salt
4. Brant Rock Improvements Project - Pavement Removal and Nitrogen Removal
5. Receiving Waters Impaired TMDL
6. Marshfield NSRWA Educational Outreach Report and Water Quality Report with Stormwater Message
7. Updated Stormwater Pollution Prevention Plan (SWPPP)
8. MS4 Year 7 Sampling Analysis, Field Report & Weather Record
9. Catchment Areas, Priority Outfall Map, Church St. Ferry St. Outfall IDDE, Sea St and Whites Ferry Outfall IDDE
10. Weston & Sampson Annual Report – Beneficial Use
11. Report List of Catch Basin Cleanings
12. South River Sewer Assessment Report

Should you require additional information contact me at 781-834-5575 or email at [spatterson@townofmarshfield.org](mailto:spatterson@townofmarshfield.org) or [mkinlin@townofmarshfield.org](mailto:mkinlin@townofmarshfield.org)

Respectfully,

Shawn Patterson,  
Supt. Department of Public Works

# Year 7 Annual Report

## Massachusetts Small MS4 General Permit

Reporting Period: July 1, 2024-June 30, 2025

**\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are to publicly accessible sites\*\***

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, 2024 and June 30, 2025 unless otherwise requested.

### Part I: Contact Information

Name of Municipality or Organization: Town of Marshfield

EPA NPDES Permit Number: MAR0411048

#### Primary MS4 Program Manager Contact Information

Name: Shawn Patterson

Title: Supt. Department of Public Works

Street Address Line 1: 965 Plain Street

Street Address Line 2:

City: Marshfield

State: MA

Zip Code: 02050

Email:

Phone Number:

#### Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): [https://www.marshfield-ma.gov/departments/public\\_works/engineering/documents\\_reports.php#outer-100](https://www.marshfield-ma.gov/departments/public_works/engineering/documents_reports.php#outer-100)

Date SWMP was Last Updated: January 1, 2021

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>

### Impairment(s)

- ☒ Bacteria/Pathogens
 ☐ Chloride
 ☐ Nitrogen
 ☐ Phosphorus  
☐ Solids/ Oil/ Grease (Hydrocarbons)/ Metals

### TMDL(s)

- In State: ☐ Assabet River Phosphorus
 ☒ Bacteria and Pathogen
 ☐ Cape Cod Nitrogen  
☐ Charles River Watershed Phosphorus
 ☐ Lake and Pond Phosphorus  
 Out of State: ☐ Bacteria/Pathogens
 ☐ Metals
 ☐ Nitrogen
 ☐ Phosphorus

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 7 Requirements

- ☒ Completed catchment investigations associated with Problem Outfalls  
☒ Completed catchment investigations where information gathered on the outfall/interconnection indicated sewer input

### 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 publicly available website:

- ☐ Updated system map due in year 10 with information from completed catchment investigations  
☒ Provided training to employees involved in IDDE program within the reporting period  
☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters

- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- ☐ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- ☒ Updated inventory of all permittee owned facilities as necessary
- ☒ O&M programs for all permittee owned facilities have been completed and updated as necessary
- ☐ Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- ☒ Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- ☒ Inspected all permittee owned treatment structures (excluding catch basins)

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:

Stormwater Asset Management Plan and Web Based Mapping has been complete. In the process of training staff and confirming field conditions match Web Based Mapping.

The Town of Marshfield does not have combined sewer systems, and no evidence of illicit discharges were observed, so catchment investigations for Problem Outfalls and evidence of sewer input are considered complete. A town-wide sewer assessment was completed this year to evaluate the feasibility of installing sewer systems where septic systems may be contributing to elevated levels of fecal coliform in our drainage system. Wet weather testing was performed on subcatchments that do not have sewer, only septic, to prioritize areas for future sewer installation. This evaluation process is on-going, with the Black Mount and Kent Park areas high on the priority list.

SWPPPs have been updated and/or implemented for DPW yards and transfer station. Implementation/updating of SWPPPs at other facilities is ongoing. O&M plans are in the process of being updated and implemented as necessary.

#### 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
- ☐ This is not applicable because there are no septic systems present

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

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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:

## 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: 15

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: See Attachment 5: Marshfield MS4 Public Education & Outreach and Water Quality Report

Message Description and Distribution Method:

NSRWA and Annual CCR Report

Targeted Audience: 9800 Residents and 1100 Commercial

Responsible Department/Parties: North and South River Water Association and DPW Water Division

Measurable Goal(s):

See Attachment 5

Message Date(s): See Attachment 6

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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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 SWMP is available on the Town's Website for public comment

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:

### 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

Percent of Phase II map complete:

Optional: Provide additional status information regarding your map:

Web Based Mapping with consultant is completed. Currently in the process of confirming that the field conditions match web-based mapping, and adding any MS4 structures that were missed by the consultant.

#### 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. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

- ☐ No outfalls were inspected
- ☒ The above referenced outfall screening data is attached to the email submission
- ☐ The above referenced outfall screening data can be found at the following publicly available website:

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



Number of outfalls screened: 10

Below, report on the percent of outfalls/interconnections screened to date.

Percent of outfalls screened: 90

Optional: Provide additional information regarding your outfall/interconnection screening:

#### 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.

- ☐ No catchment investigations were conducted
- ☒ The catchment investigation data is attached to the email submission
- ☐ The catchment investigation data can be found at the following publicly available website:

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

Number of catchment investigations completed this reporting period: 1

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

Percent of total catchments investigated: 14

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

"Catchment P" on SWMP was chosen to be investigated via wet-weather sampling due to it's close proximity to the ocean and wetlands and the lack of sewer in the area (septic only)

#### 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.

- ☒ No illicit discharges were found
- ☐ The illicit discharge removal report is attached to the email submission
- ☐ The illicit discharge removal report can be found at the following publicly available 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: 0

Number of illicit discharges removed: 0

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:

Sample results show elevated levels of fecal coliform in areas where sewer is not available and septic systems are used. A town-wide Sewer Assessment Report to develop conceptual plans for expanding the sewer system to these areas was completed and is attached to this report.

#### Employee Training

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

The Town's hired consultant completed inventory and map of stormwater infrastructure and the Town is currently training staff to use this software.

#### 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:

Worked with a consultant to update stormwater bylaws and regulations to include pre and post construction monitoring, and land disturbance permitting requirements to meet EPA standards and requirements. The updated stormwater bylaws are attached to the email submission and will be voted on at Town Meeting in October. Once approved, stormwater regulations will then be updated as required to align with the new stormwater bylaws and voted on at the Spring Town Meeting, typically held in April.

The Planning Board performed two Subdivision Plan Reviews: Lucca Lane and Marshfield Hills Estates.

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

### As-built Drawings

Below, report on the number of as-built drawings received during this reporting period.

Number of as-built drawings received:

Optional: Enter any additional information relevant to the submission of as-built drawings:

Brant Rock Improvements - Phase I drawings were submitted

### Street Design and Parking Lots Report

Below, describe any changes made or planned to be made to local regulations and guidelines based on the report completed in Year 4:

Stormwater Bylaws are being updated to include post and pre-construction monitoring and land disturbance permits and requirements.

### Green Infrastructure Report

Below, describe progress towards making green infrastructure practices allowable based on the report completed in Year 4:

No progress

### Retrofit Properties Inventory

Below, list remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (must maintain a minimum of 5 sites in inventory until less than 5 sites remain):

Eames Way School, Governor Winslow School, Furnace Brook School, Daniel Webster School, Salt Shed Access Road

Below, list all properties that have been modified or retrofitted with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.d of the permit and the type of BMP(s) implemented. Non-MS4 owned properties that have been modified or retrofitted with BMPs to mitigate impervious area may also be listed, but must be indicated as non-MS4.

Pavement removal at the Brant Rock Improvements Project - Phase 1(Non-MS4)

### 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: 1,114

Number of catch basins cleaned: 1,114

Total volume or mass of material removed from all catch basins: 150 cubic yards

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

Total number of catch basins: 2,500

If applicable:

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

#### 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: 200

cubic yards

☐ Weight of material removed:  [Select Units]

#### 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 publicly available 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

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.

Refer to MCM4 above for Stormwater Bylaw and Regulations updates.

## Year 8

### 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 8 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

### 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 curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- 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
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 8 below:

**Part V: Certification of Small MS4 Annual Report 2025****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.

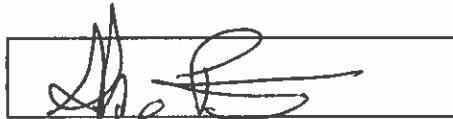
Name:

Shawn Patterson

Title:

Superintendent

Signature:



Date:

9/26/25

*[Signatory may be a duly authorized representative]*