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: Dedham

EPA NPDES Permit Number: MAR041033

Primary MS4 Program Manager Contact Information

Name: Jason L. Mammone, P.E. Title: Director of Engineering

Street Address Line 1: 55 River Street

Street Address Line 2:

City: Dedham State: MA Zip Code: 02026

Email: jmammone@dedham-ma.gov Phone Number: (781) 751-9352

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): https://www.dedham-ma.gov/town-departments/engineering/municipal-stormwater-ms4

Date SWMP was Last Updated: June 2025

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:

Dedham has 2 catchments where likely sewer input was identified.

An illicit connection was discovered during Permit Year 7 in 1 of these catchments (OF707) and was removed on 11/12/24, with confirmatory inspection of downstream junctions on 11/18/24.

The other catchment (OF408) was identified as having likely sewer input during wet weather sampling on 4/1/21, however no evidence of likely sewer input was found during a second round of wet weather sampling on 12/11/24. The catchment was cleared during catchment investigations through sandbagging. This catchment will be continually monitored for evidence of an illicit discharge.

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:

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

☒ Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers

☒ Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

☒ Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

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

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

☒ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

Structural BMPs

☒ Installed a structural BMP as a demonstration project within the drainage area of the water quality limited water or its tributaries. The type of BMP installed is (*e.g. biofiltration)*:

The Town constructed an infiltration trench on River Street near Oakdale Square to replace the original 34 Milton Street demonstration project (bioretention area) that is now being constructed in PY8. The River Street infiltration trench resulted in a phosphorus reduction of 1.65 lbs/yr.

☒ Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated phosphorus removed in mass per year by the BMP were documented.

- ○ No BMPs were installed
- ◉ The above referenced BMP information is attached to the email submission
- ○ The above referenced BMP information can be found at the following publicly available website:

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 196.98

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:

The Town of Dedham currently utilizes their existing stormwater regulations to require the construction of stormwater BMPs as part of private development even beyond current MS4 permit required land disturbance thresholds to promote water quality. In addition, the Town has been proactive in incorporating stormwater BMPs as part of capital improvements on municipal property. Constructed structural BMPs have resulted in the phosphorus reductions outlined in Table 1-6, which are further detailed in Appendix D of the Town's Phosphorus Control Plan developed for land area within the Charles River Watershed during Permit Year 5. Dedham performed additional baseline phosphorus load calculations in Permit Year 6, which incorporated updated impervious area data that was developed by the Charles River Watershed Association through an MS4 Grant. The baseline phosphorus load included in the PCP was updated during Permit Year 6 to reflect

this updated calculation.

The phosphorus reductions are presented as a high-level summary, and calculations were performed consistent with the requirements in Attachment 3 to Appendix F of the 2016 MS4 Permit. These BMPs are being maintained to function as designed. Phosphorus reduction credit is provided for structural BMPs constructed as part of redevelopment projects on private property as well as BMPs that the Town has installed as part of roadway or site improvements. The Town has developed nutrient tracking worksheets for private properties that have installed stormwater BMPs, which track the overall removal of phosphorus and nitrogen for each BMP. These sheets help track phosphorus removal associated with private BMPs that are identified in the Charles River Phosphorus Control Plan, and provide an inventory of BMPs that should be inspected and maintained by the private entity. Existing structural and semi-structural BMPs have contributed to an annual phosphorus load reduction of 195.33 lbs/year.

During Permit Year 7, the Town completed the required Performance Evalutation that assesses the Town's PCP progress through Year 7. Based on this year's evaluation, Dedham has successfully reduced phosphorus by 221.13 lbs/yr, exceeding the Phase 1 milestone reduction of 214 lbs/yr. Based on this evaluation, the Town of Dedham has met the Year 8 milestone of achieving a 20% phosphorus load reduction.

Dedham continues to incorporate stormwater BMP retrofits as part of roadway improvements under their annual road program. Streets within the Town's current road reconstruction program plan are primarily within the Charles River Watershed to support implementation of the Town's Phosphorus Control Plan, but in the future, streets in the Mother Brook Watershed will be considered and prioritized, if possible, for BMP retrofit as part of the road program. During Permit Year 6, the Town completed the design of various stormwater BMP retrofits, including infiltration trenches, mainline perforated drainage pipe replacements, and bioretention areas. The construction of these retrofits was completed during Permit Year 7.

In Permit Year 7, the Town completed construction of an infiltration trench on River Street within the Mother Brook Watershed. This infiltration trench has been identified by the Town as the Town's demonstration project as part of the Phosphorous Source Identification Report for Mother Brook and resulted in a phosphorus reduction of 1.65 lbs/yr.

The Town is currently working separately on the design of a BMP Retrofit at 34 Milton Road which is located within a high phosphorus loading catchment within the Mother Brook Watershed. This BMP retrofit project is identified in Phases 1 and 2 of the Town's Phosphorous Source Identification Report for Mother Brook, and was previously identified as the Town's demonstration project. This project is also highlighted in the Town's BMP Retrofit Inventory Report. The design was completed in Permit Year 6, and construction of this BMP retrofit project is planned for Spring 2026.

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

☒ Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads

- ○ The street sweeping schedule is attached to the email submission
- ◉ The street sweeping schedule can be found at the following publicly available website:

https://www.dedham-ma.gov/town-departments/engineering/municipal-stormwater-ms4

☒ Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated excessive sediment or debris loadings

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:

The Town updated their Catch Basin Cleaning Optimization Plan in Permit Year 7 using data collected during annual catch basin cleaning from 2019 through 2025. The plan includes provisions to prioritize areas that discharge to water bodies impaired for solids, oil, grease, or metals. The Town also employs a tablet-based catch basin cleaning inspection form to more easily identify catch basins that are filling up more quickly and require more frequent cleaning. The Town developed a list of catch basins for supplemental cleaning in 2025 to ensure that no sump is ever more than 50 percent full.

Charles River Watershed Phosphorus TMDL

Below, calculate your current phosphorus export rate by first filling out the individual phosphorus loading components (labeled [A], [B], [C], and [D]) and then computing your current phosphorus export rate using the equation provided.

Baseline phosphorus export rate from PCP Area, as identified in Appendix F **(lbs/year) [A]**:	890.7
Total phosphorus reduction from all nonstructural controls implemented **this reporting period (lbs/year) [B]**:	25.8
Total phosphorus reduction from all structural controls installed this reporting period and all previous years **(lbs/year) [C]**:	195.33
Phosphorus load increase due to development incurred since 2005 in **lbs/year [D]**:	-25
Current phosphorus export rate from the PCP Area in **lbs/year [=A-(B+C)+D** from above**]**:	644.57

☒ I certify under penalty of law that all source control and treatment Best Management Practices being claimed for phosphorus reduction credit have been inspected, maintained and repaired in accordance with manufacturer or design specification. I certify that, to the best of my knowledge, all Best Management Practices being claimed for a phosphorus reduction credit are performing as originally designed.

☒ All municipally owned and maintained turf grass areas are being managed in accordance with Massachusetts Regulation 331 CMR 31 pertaining to proper use of fertilizers on turf grasses

☒ Implemented all nonstructural control measures **during this reporting period** and documented the measures and their phosphorus reduction. The nonstructural control measure information:

- ○ is attached to the email submission
- ◉ can be found at the following publicly available website:

https://www.dedham-ma.gov/town-departments/engineering/municipal-stormwater-ms4

☒ Documented the structural control measures implemented during **this reporting period and all previous years**, including location, phosphorus reduction in mass/year, and date of last completed maintenance and inspection for each control. The structural control measure information:

- ○ is not applicable; no structural control measures were implemented
- ○ is attached to the email submission
- ◉ can be found at the following publicly available website:

https://www.dedham-ma.gov/town-departments/engineering/municipal-stormwater-ms4

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:

Dedham performed additional baseline phosphorus load calculations in Permit Year 7, which incorporated updated impervious area data that was developed by the Charles River Watershed Association through an MS4 Grant. The baseline phosphorus load included in the PCP was revised during Permit Year 6 to reflect this updated calculation.

NON-TRADITIONAL AND TRANSPORTATION MS4s ONLY- *municipalities please skip this section:*

Describe the planned phosphorus reduction activities on site and coordination progress with the applicable municipality:

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 list of outfalls/interconnections and their receiving waters was updated during Permit Year 3 upon completion of dry weather outfall screening and sampling. The Town updated this list again in Permit Year 4 to reflect minor changes in their drainage system. The Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle and the Final Massachusetts Integrated List of Waters for the Clean Water Act 2022 Reporting Cycle both included minor changes to some of the Town's impaired waters. However, the specific impairments/changes have not changed sampling requirements for any of the Town's outfalls or interconnections. The updated list of receiving waters and outfalls is included in Section 1 of the Town's SWMP.

The following changes have been made to Dedham's list of receiving waters, outfalls, or impairments since the NOI was submitted:

1. The following receiving waters were removed from Dedham's list:
   - Dedham does not have any outfalls discharging to Great Ditch (Tributary to Charles River)
   - Dedham does not have any outfalls discharging to Rosemary Ditch (Tributary to Charles River)

2. The following receiving waters were added to Dedham's list:
   - Dedham has 1 outfall discharging to County Jail Brook
   - Dedham has 2 outfalls discharging to Cutler Brook

3. The number of outfalls discharging to each of the following receiving waters was updated:
   - Dedham has 18 outfalls discharging to the Charles River (MA72-07)
   - Dedham has 38 outfalls discharging to Mother Brook (MA73-28)
   - Dedham has 5 outfalls discharging to Little Wigwam Stream (Tributary to Charles River)
   - Dedham has 16 outfalls discharging to Lowder Brook (Tributary to Charles River)
   - Dedham has 5 outfalls discharging to Peanut Butter Brook (Tributary to Neponset River)
   - Dedham has 4 outfalls discharging to Westfield Brook (Tributary to Charles River)
   - Dedham has 15 outfalls discharging to Wigwam Brook (Tributary to Charles River)

4. The following recieving waters had updates to their impairments:
   - Charles River (MA72-07) was updated to include impairments for Curly-leaf Pondweed, Water Chestnut, Benthic Macroinvertebrates, and Tempterature.
   - Mother Brook (MA73-07) was updated to include impairments for Debris, Flow Regime Modifications, Color, PCB in Fish Tissue, and Trash. Low Flow Alterations and Taste were removed from the list of impairments.

5. The list of interconnections has been updated. Dedham has 30 total interconnections.
   - Dedham has 20 interconnections with state (MassDOT) drainage. 8 of these interconnections discharge to the Charles River (MA72-07), 2 discharge to Little Wigwam Brook, 1 discharges to Lowder Brook, 4 discharge to Wigwam Brook, and 5 have unknown receiving waters.
   - Dedham has 4 interconnections with Boston Water and Sewer Commission (BWSC) drainage. All 4

discharge to Mother Brook (MA73-28).
- Dedham has 1 interconnection with MBTA drainage which discharges to Little Wigwam Stream.
- Dedham has 5 interconnections with private drainage. 1 of these interconnections discharges to the Charles River (MA72-07), 2 discharge to Little Wigwam Stream, and 2 have unknown receiving waters.

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**: 10

*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: Dog Waste Flyers

Message Description and Distribution Method:

The Town distributed a flyer entitled "There's no such thing as the poop fairy" with dog license issuances and renewals during Permit Year 7. These flyers were distributed both in-person and via email. These flyers were also maintained on the Town website throughout the permit year.

Targeted Audience: Residents

Responsible Department/Parties: Town Clerk/Environmental Department

Measurable Goal(s):

The Town issued 1,611 dog licenses with approximately 900 brochures being distributed (some homes have multiple dogs). In addition, the Town Clerk's office distributed roughly 50 brochures at various rabies clinics.

Message Date(s): Permit Year 7

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: Leaf Littering Message

Message Description and Distribution Method:

The Town posted and maintained information provided by the Neponset River Watershed Partnership regarding proper disposal of leaf litter to the home page of its website throughout the permit year. As part of the full campaign, the Town also shared the information to the "DedhamThrives" Instagram, and the "Town of Dedham" Facebook page in October 2024.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department, DPW

Measurable Goal(s):

By posting the informational message to the home page of the Town's website, Dedham ensured that it would

be accessible to as many residents as possible. The Neponset River Watershed reported 37,144 impressions from the Town of Dedham for their Fall Leaf Campaign. (https://yourcleanwater.org/wp-content/uploads/2025/08/2024-2025-NSP-Final-Annual-Report.pdf)

Message Date(s): October 2024

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: Fertilizer Message

Message Description and Distribution Method:

The Town posted and maintained information provided by the Neponset River Watershed Partnership regarding the use of slow release/phosphorus free fertilizers to the home page of its website throughout the permit year. As part of the full campaign, the Town also shared the information to the "DedhamThrives" Instagram, and the "Town of Dedham" Facebook page in March 2025 and May 2025.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department, DPW

Measurable Goal(s):

By posting the informational slide to the home page of the Town's website, Dedham ensured that it would be accessible to as many residents as possible. The Neponset River Watershed reported 63,133 impressions from the Town of Dedham for their Spring Fertilizer Campaign. (https://yourcleanwater.org/wp-content/uploads/2025/08/2024-2025-NSP-Final-Annual-Report.pdf)

Message Date(s): March/May 2025

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: Pet Waste Message

Message Description and Distribution Method:

The Town posted and maintained information provided by the Neponset River Watershed Partnership regarding pet waste management to its website throughout the permit year. As part of the full campaign, the Town also shared the information to the "DedhamThrives" Instagram, and the "Town of Dedham" Facebook page in July 2024.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department, DPW

Measurable Goal(s):

By posting the informational slide to the home page of the Town's website, Dedham ensured that it would be accessible to as many residents as possible. The Neponset River Watershed reported 51,343 impressions from the Town of Dedham for their Summer Pet Waste Campaign. (https://yourcleanwater.org/wp-content/uploads/2025/08/2024-2025-NSP-Final-Annual-Report.pdf)

Message Date(s): July 2024

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: Septic System Message

Message Description and Distribution Method:

The Town posted and maintained information provided by the Neponset River Watershed Partnership regarding septic system maintenance to its website throughout the permit year. As part of the full campaign, the Town also shared the information to the "DedhamThrives" Instagram, and the "Town of Dedham" Facebook page in September 2024.

Targeted Audience: Residents

Responsible Department/Parties: Health Department, Engineering Department

Measurable Goal(s):

By posting the informational slide to the home page of the Town's website, Dedham ensured that it would be accessible to as many residents as possible.

Message Date(s): September 2024

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: Winter Deicing Message

Message Description and Distribution Method:

The Town posted and maintained information provided by the Neponset River Watershed Partnership regarding the importance of salt alternatives as a form of ice melt to its website throughout the permit year. As part of the full campaign, the Town also shared the information to the "DedhamThrives" Instagram, and the "Town of Dedham" Facebook page in January 2025.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department, DPW

Measurable Goal(s):

By posting the informational slide to the home page of the Town's website, Dedham ensured that it would be accessible to as many residents as possible.

Message Date(s): January 2025

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: Educational Presentation

Message Description and Distribution Method:

The Town provided two visits to 5th grade classrooms across Dedham Public Schools with one visit covering stormwater-related topics and the other focusing on water conservation.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department

Measurable Goal(s):

Each of the 5th grade classrooms at Greenlodge Middle School, Avery Middle School, Oakdale Middle School, and Riverdale Middle School were visited in May and June of 2025.

Message Date(s): May/June 2025

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:[Message name here]

Message Description and Distribution Method:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

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: Outreach Message

Message Description and Distribution Method:

The Neponset River Watershed Association mailed out an informational flyer to all businesses, institutions, and commercial facilities in Dedham. The flyer covered rain barrels, dog waste management, fertilizer use, and other topics related to stormwater management.

Targeted Audience: Businesses, Institutions, and Commercial Facilities

Responsible Department/Parties: Engineering Department

Measurable Goal(s):

By maintaining the flyer on the Town's website as well as making social media posts, Dedham ensured that it would be accessible to as many businesses as possible.

Message Date(s): Permit Year 7

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: Outreach Message

Message Description and Distribution Method:

A flyer focused on reducing stormwater runoff during construction was distributed to developers by the Planning, Zoning & Natural Resources Department, Building Department and Engineering Department when developers submitted permit applications and when permits were issued.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning Zoning and Natural Resources Department, Engineering Dept

Measurable Goal(s):

The Engineering Department distributed a total of 25 flyers. The Planning, Zoning, and Natural Resources Department distributed a total of 22 flyers. Electronic copies are also posted on the Town's website under the Planning Board, Zoning Board of Appeals, and Design Review Advisory Board form menus, as well as on the main Stormwater Management page.

Message Date(s): Permit Year 7

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: Outreach Message

Message Description and Distribution Method:

A stormwater prevention guide flyer, which focused on stormwater management related to industrial facilities, was mailed to industrial facilities within the Town.

Targeted Audience: Industrial facilities

Responsible Department/Parties: Engineering Department

Measurable Goal(s):

By maintaining the flyer on the Town's website as well as making social media posts, Dedham ensured that it would be accessible to as many industrial facilities as possible.

Message Date(s): Permit Year 7

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 Town posted the updated SWMP, dated June 2025, to its website at the end of Permit Year 7. The SWMP was made available for public comment. In addition, Annual Reports for Permit Year 1, 2, 3, 4, 5, and 6 were also made available on the Town's website throughout Permit Year 7.

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**:

During Permit Year 7, on October 24, 2024, Dedham held a Household Hazardous Waste Collection Day. The Dedham Sustainability Advisory Committee, DPW, and Neponset Valley Sunrise Rotary Club also organized a recycling event on April 26th in celebration of Arbor Day to collect metal items, styrofoam, electronics, and household hazardous waste. Cardboard collection days were held monthly during the permit year. There were a total of 22 weeks of curbside yard waste collection each year in 2024 and 2025, from April through December, to assist residents with disposal of leaves and brush.

Rain barrels were made available for purchase to residents from the Dedham-Westwood Water District (DWWD). During Permit Year 7, 31 discounted rain barrels were sold by DWDD to Dedham Residents. Earth Machine Compost Bins were also made available for purchase to Dedham residents at a reduced rate through the Conservation Department. These compost bins are designed to compost food and yard waste, diverting it from landfills. During Permit Year 7, 102 discounted compost bins were sold by the Town to residents.

In 2025, the Town held community clean-up events on 4/9, 4/26, 4/27, 5/16, and 6/21 at various parks and open spaces around Dedham. As a part of this series, clean-up events are also planned on every third Saturday from April to October of 2025.

The Town held a public meeting on October 23, 2024, where revisions to the Stormwater Management Rules & Regulations were discussed. These revisions were implemented on October 30, 2024. The Charles River Watershed Association and Neponset River Watershed Association gave a joint presentation to the Water Resource Advisory Committee on October 15, 2024, discussing climate resilience and water management in Dedham.

Dedham continued to participate in the Neponset River Watershed Association which ran an educational advertising campaign through ThinkBlue Massachusetts during Permit Year 7. The NSP engages in several activities addressing Public Education and Outreach requirements, including the development and implementation of a regional program that develops and distributes educational material for use by all participating member communities. NSP participants met their Public Education and Outreach requirements through earned (i.e., unpaid) and paid social media campaigns/posts on various platforms including Facebook, Instagram, X (formerly Twitter) and LinkedIn. NSP quantifies social media results using the following definitions:
- Reach: On Facebook and Instagram, this quantifies “the number of Account Center accounts that saw your ads at least once” (per META Business).
- View: On X (formerly Twitter), this quantifies the total number of times a post has been viewed.

- Impressions: On LinkedIn this quantifies “views when the post is at least 50% on screen, or when clicked, whichever comes first” (per LinkedIn).
The Neponset River Watershed reported 51,343 ad impressions from Dedham for the summer pet waste campaign, 37,144 ad impressions from Dedham for the fall leaf campaign, and 63,133 ad impressions from Dedham for the spring fertilizer campaign, for a grand total of 151,620 ad impressions from Dedham in Permit Year 7. (https://yourcleanwater.org/wp-content/uploads/2025/08/2024-2025-NSP-Final-Annual-Report.pdf)

The Town continued its Citizens Water Monitoring Network, an initiative organized through the Neponset River Watershed Association, during the reporting period. Resident volunteers collected quarterly samples at the Mother Brook at Washington Street station, testing for E.coli, total phosphorus, pH, dissolved oxygen, temperature, ortho-phosphate, total nitrogen, and ammonia.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Percent of Phase II map complete: 100

Optional: Provide additional status information regarding your map:

The MS4 map will continue to be updated as necessary as there are updates to existing drainage infrastructure and as new drainage infrastructure is constructed. Updates to the Town's MS4 system mapping were performed during Permit Year 7 to include these changes. The most recent version of the MS4 map is included with the SWMP and is also available at the following location: https://gis-dedham.hub.arcgis.com/

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: 27

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

Percent of outfalls screened: 100

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

Wet weather outfall screening and sampling was completed at a total of 27 outfalls during Permit Year 7. The Town previously completed dry weather screening for all their outfalls in Permit Year 3, as reflected in the 100% noted above.

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: 60

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

Percent of total catchments investigated: 50

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

Per the permit, the Town is only reporting that catchment investigations are complete in catchments where outfalls/ interconnections have been screened during dry weather, where key junction manholes in these catchments have been screened, and where wet weather sampling has been completed, and where all results indicated no likely sewer input based on field observations and sampling. However, the Town has performed in-system dry weather investigations for all 183 of their 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.

- ○ 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: 1

Number of illicit discharges removed: 1

Estimated volume of sewage removed: 110 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: 1

Total number of illicit discharges removed: 1

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

While conducting Illicit Discharge Detection and Elimination (IDDE) field investigations in compliance with the Town's MS4 Permit, a potential non-stormwater discharge was identified in catchment area OF707, which discharges to the Charles River. Samples collected in catchment area OF707 met the criteria for likely sewer input outlined above by exceeding the thresholds for E. Coli, ammonia, and surfactants.

A potential cross connection between the sewer service for 55 Volk Road and the 24" drain line was identified by the DPW in the fall of 2024, upstream of where the sampling results indicated evidence of an illicit discharge. The sewer service from 55 Volk Road was 5" VC and the drain line on Volk Road had been notched out on top to accommodate the slope and elevation of the sewer service. The sewer service connection to the drain line was repaired and eliminated on November 12, 2024, and redirected to discharge to the sanitary sewer line.

The total estimated gallons per day of illicit flow removed from the storm drain system is 110 gpd. A single-family home has an average daily flow of 110 gpd/bedroom per Title 5 sewage flow design criteria. The property at 55 Volk Road has four bedrooms according to the property card. A leakage rate from the house lateral to the street drain of 25% was assumed.

Employee Training

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

Employee training was conducted in June 2025 of the reporting period.

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: 4

Number of inspections completed: 8

Number of enforcement actions taken: 1

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

The number of site plan reviews, inspections, and enforcement actions taken is for all projects where there was at least one acre or more of disturbance.

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: 25

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

The number of as-builts received is for all projects, even those where there was less than an acre of disturbance. Of the as-built drawings received, 15 were related to stormwater permits, and 10 were related to wetland-only permits.

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:

During Permit Year 4, the Town developed their Street Design and Parking Lot Report, which assessed current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover. Regulatory mechanisms were reviewed to determine if changes to existing design standards could be made to support low impact design options and, where appropriate, proposed recommendations to incorporate policies and standards to minimize impervious cover in parking areas and street designs.
The report was appended to the Town's SWMP during Permit Year 4. A meeting with the Planning Board was held on January 25, 2023 to introduce the recommended updates, and with the Conservation Commission on February 2, 2023. The Town continues to work with their consultant to develop updated regulatory language for future adoption

Green Infrastructure Report

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

During Permit Year 4, the Town developed a Green Infrastructure Report, which assessed existing local regulatory mechanisms to determine the feasibility of making the following practices allowable when appropriate site conditions exist:

- Green roofs
- Infiltration practices such as rain gardens, curb extensions, planter gardens, porous and pervious pavements, and nature-based stormwater management practices
- Water harvesting devices such as rain barrels and cisterns, and the use of stormwater for non-potable uses
- Open space preservation or cluster development practices

The report was appended to the Town's SWMP during Permit Year 4. A meeting with the Planning Board was held on January 25, 2023 to introduce the recommended updates, and with the Conservation Commission on February 2, 2023. The Town continues to work with their consultant to develop updated regulatory language for future adoption.

During Permit Year 6, several updates were approved to the Town's Stormwater Management Bylaw and associated Rules & Regulations. Changes to the Stormwater Management Bylaw included transferring authority over local Stormwater Management Permits from the Conservation Commission to the Town's Stormwater Manager. This change also effectively made Stormwater Management Permitting an administrative process. As this was a bylaw change, it had to be discussed and voted upon at Town Meeting. A Designation Agreement that allowed the Conservation Commission to immediately designate the Stormwater Manager (through the Town Manager) to act on stormwater permitting matters. This was used as an interim measure to allow the Stormwater Manager to review and issue permits while awaiting the Town Meeting vote and Attorney General approval on the formal bylaw change. Bylaw updates were approved at Town Meeting on November 13, 2023.

Updates to the Stormwater Management Rules & Regulations included increasing the required phosphorus removal on permitted sites to 65% (100% for land uses that were listed as forest, wetland, orchard, forested wetland, or brush land/successional land in the 2005 land use data set). An additional requirement was added for permittees to provide phosphorus and nitrogen loading and removal calculations according to the 2016 MS4 Permit methodology with their permit application. Additional modifications included administrative changes regarding the permitting process, thresholds, and submission requirements. On 8/3/2023, 8/17/2023, and 9/7/2023, the Conservation Commission held a public hearing to discuss proposed updates to the Stormwater Management Rules and Regulations. In a meeting held on 9/7/2023, updates to the Stormwater Management Rules and Regulations were approved.

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):

1) Avery Elementary School
2) Dedham High School
3) 34 Milton Street
4) Dedham Public Works
5) 37 Brookside Avenue

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.

The design of a bioretention area BMP at 34 Milton Street was completed during Permit Year 6. Construction of this BMP is planned for Spring 2026 during Permit Year 8.

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: 3,842

Number of catch basins cleaned: 3,402

Total volume or mass of material removed from all catch basins: 57,361.7 cubic feet

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

Total number of catch basins: 1,961

If applicable:

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

The Town began collecting data in 2019 to use in developing a catch basin cleaning optimization plan. In 2023, the Town collected sufficient data to begin targeting specific catch basins for supplemental cleaning to ensure that no sump is ever more than 50% full. The Town now cleans all catch basins annually in the spring, and has a supplemental round of cleaning for catch basins more than 50% full in the fall. Where catch basins do not have a sump, the downstream drain manhole was cleaned. In Permit Year 7, 3,313 catch basins were cleaned and 89 drain manholes were cleaned.

The Town will continue to update and implement the catch basin cleaning optimization plan as they collect data each year.

Street Sweeping

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

- (●) Number of miles cleaned: 1,041
- ( ) Volume of material removed: [Select Units]
- ( ) 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: 4

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

Quarterly SWPPP inspections at the DPW Facility during Permit Year 7 were performed by the Town, one of which occurred during wet weather.

Design & permitting were completed for structural improvements at the DPW Facility during Permit Year 5. This includes the design of three (3) subsurface in-line hydrodynamic separators to remove trash and debris, sediment, floatables and other larger pollutants. It also includes the design of a double catch basin and a plunge pool at the rear of the site. These features provide erosion control and keep existing vegetation intact in an effort to slow down the rate of runoff to Mother Brook and allow stormwater to infiltrate and/or naturally be filtered by the existing vegetation. Construction of these improvements is planned for the spring of 2026 during Permit Year 8.

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:

The Neponset River Watershed Association has been collecting water quality data in Dedham and throughout the Neponset River Watershed since 1996. Samples are collected by volunteers through the Community Water Monitoring Network and by the Neponset River Watershed Association staff. The data is used to track the health of the Neponset River and its tributaries, and to locate pollution sources for follow-up sampling. There is one permanent monitoring station in Dedham located on Mother Brook. The station is tested for E.coli, total phosphorus, pH, dissolved oxygen, and temperature once per month between May and October.

Recommendations related to phosphorus and E.coli levels were identified in the 2024 Water Quality Report, which is attached to the e-mail submission with this Annual Report. The Town will utilize this data, when warranted, during future MS4 compliance initiatives.

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.

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:	Jason L. Mammone, PE	Title:	Director of Engineering
Signature:	Jason Mammone Digitally signed by Jason Mammone Date: 2025.09.26 09:09:34 -04'00'	Date:	

[Signatory may be a duly authorized representative]