

Year 6 Annual Report

Massachusetts Small MS4 General Permit

Reporting Period: July 1, 2023-June 30, 2024

****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, 2023 and June 30, 2024 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: West Boylston

EPA NPDES Permit Number: MAR041171

Primary MS4 Program Manager Contact Information

Name: Jennifer Warren-Dyment

Title: Town Administrator

Street Address Line 1: 140 Worcester Street

Street Address Line 2:

City: West Boylston

State: MA

Zip Code: 01583

Email: jwarren@westboylston-ma.gov

Phone Number: (774) 261-4088

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): <https://www.westboylston-ma.gov/public-works/pages/stormwater-management>

Date SWMP was Last Updated: September 2024

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

The updated SWMP will be posted on the Town's website in Fall 2024.

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)			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input checked="" type="checkbox"/> Chloride	<input type="checkbox"/> Nitrogen	<input type="checkbox"/> Phosphorus
<input type="checkbox"/> Solids/ Oil/ Grease (Hydrocarbons)/ Metals			
TMDL(s)			
<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.

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:

The Town has inspected municipally-owned stormwater treatment structures that are known to be under Town jurisdiction.

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 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:

Chloride

Annual Requirements

Public Education and Outreach

- Included an annual message in November/ December to private road salt applicators and commercial
- industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

The following type(s) of salt were applied **during this reporting period (year 6):**

- Sodium chloride
- Calcium chloride
- Potassium chloride

Magnesium chloride Brine solution

Total amount of salt applied **during this reporting period (year 6) including units:** 2,448 tons

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:

A number of chloride impairments were newly designated for receiving waters in West Boylston on the Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle, which was approved in February 2022. These include Gates Brook (MA81-24), Scarletts Brook (MA81-25), and two (2) unnamed tributaries to the Wachusett Reservoir (MA81-49 and MA81-54). The Town has 3 years from the date that these receiving waters were identified as impaired to develop a Chloride Reduction Plan, and five years to implement the plan.

During Permit Year 6, the Town continued development of their Chloride Reduction Plan. The Town will finalize their Chloride Reduction Plan during Permit Year 7, and begin implementation in subsequent permit years.

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:

Receiving waters, outfalls and impairments have been updated since the NOI was originally submitted. Please see the Town's Stormwater Management Plan included on the Town's website for an updated list of outfalls, receiving waters, and relevant impairments in West Boylston.

A number of chloride impairments were newly identified for receiving waters in West Boylston on the Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle, which was approved in February 2022, during Permit Year 4. These include Gates Brook (MA81-24), Scarletts Brook (MA81-25), and two (2) unnamed tributaries to the Wachusett Reservoir (MA81-49 and MA81-54).

A number of new impairments have been identified based on the Final Massachusetts Integrated List of Waters for the Clean Water Act 2022 Reporting Cycle, which was approved in June 2023, during Permit Year 5. These include Poor Farm Brook(51-17) and the Quinapoxet River (MA81-32) for temperature and Gates Brook (MA81-24) for E.coli and fecal coliform.

It was also brought to the Town's attention that the Town may be subject to the requirements of the MS4 Permit as they relate to the Phosphorus TMDL for Lake Quinsigamond, as the Town does have urbanized area within the lake's watershed. However, the 2016 MS4 Permit does not identify the Town as being subject to the requirements of this TMDL. The Town is currently awaiting guidance from the EPA.

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:Flyer - Plan Ahead to Prevent Pollution

Message Description and Distribution Method:

The Town maintained a link to a Think Blue flyer providing tips to developers on reducing stormwater pollution in runoff during construction. The flyer can be found here:chrome-extension://efaidnbnmnnibpcajpcglclefindmkaj/https://www.westboylston-ma.gov/sites/g/files/vyhli1421/f/pages/site_development_-_tips_to_reduce_runoff.pdf

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

This message was maintained on the Town's website throughout Permit Year 6.

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:Brochures/Pamphlets

Message Description and Distribution Method:

The Town maintained materials educating residents on proper pet waste disposal and how the public can impact stormwater and receiving water quality. The link to this information can be found on the Towns Dog Licensing page; here:https://www.westboylston-ma.gov/town-clerk/pages/dog-licensing

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

This message was maintained on the Town's website throughout Permit Year 6.

Message Date(s): Permit Year 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:

BMP: Winter Deicing Activities

Message Description and Distribution Method:

From November 1, 2023, through February 28, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target deicing activities that have the potential to impact water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

3 Facebook Posts - 10 likes and reactions, 1228 people reached
 3 Instagram Posts - 3 likes and reactions, 27 people reached
 26 Twitter Posts - 8 likes and reactions, 1194 people reached

Message Date(s): Permit Year 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:

This message was in addition to the ones proposed in the NOI.

BMP: Stakeholder Workshop

Message Description and Distribution Method:

A community learning session was held on June 20, 2024 at the Senior Center to inform the community about work that was completed as part of an MVP Action Grant that the obtained during Permit Year 6. The project team presented on the background of MVP funding and resiliency work in West Boylston, the project scope, and solutions developed by the team. Attendees were also encouraged to share their experiences with flooding in West Boylston and ask questions about the work being completed.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To educate the public regarding work being completed to mitigate flooding.

Message Date(s): June 20, 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:

This message was in addition to the ones proposed in the NOI.

BMP: Tabling at the Library

Message Description and Distribution Method:

The MVP Action Grant project team created a table that was housed in the public library for the months of May and June, which included posters with information about flooding in West Boylston and solutions the Town is taking to mitigate flooding. An informational flyer was displayed that offered more information on the project, and a paper copy of a survey was available.

The table included a map of West Boylston, where residents were encouraged to place stickers in areas that have experienced flooding. Participants were also asked to drop a comment card in a box with any additional information they could provide on flooding within the town. The table also included a coloring sheet for children, which showed how a private homeowner could do their part in reducing flooding on their own property.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To educate the public regarding work being completed to mitigate flooding and to obtain information on residents' experiences.

Message Date(s): May through June 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:

This message was in addition to the ones proposed in the NOI.

BMP: Press Release

Message Description and Distribution Method:

A press release was posted at the start of the MVP project informing the community of MVP funding. The press release described the project and past work that led to the funding. The full press release can be found on The Item at <https://www.clintonitem.com/west-boylston-gets-resilience-grant/#close->

modal

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To inform the public about the upcoming MVP action grant work to mitigate flooding

Message Date(s): November 2023

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:

This message was in addition to the ones proposed in the NOI.

BMP: Social Media Content

Message Description and Distribution Method:

The MVP Action Grant project team developed social media content to keep the community informed about the project as it progressed. The social media content posted on the Town's Facebook page offered opportunities for the community to learn more and provide feedback. Social media was developed and posted during each milestone of the project, including announcing meetings, requesting feedback, informing the public about milestones, and providing educational materials for the community.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To inform the public regarding milestones in the flood mitigation project.

Message Date(s): October 2023 through June 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:

This message was in addition to the ones proposed in the NOI.

BMP: Informational Fact Sheet

Message Description and Distribution Method:

A fact sheet was developed with information about impacts of flooding in West Boylston. The fact

sheet informed residents about what the Town is doing to mitigate flooding. It also offered small-scale solutions that residents can implement on their own properties to alleviate localized flooding.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To inform the public regarding flooding in West Boylston and methods residents can implement to mitigate flooding on their property.

Message Date(s): October 2023 through June 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:

This message was in addition to the ones proposed in the NOI.

BMP: Targeted Mailings

Message Description and Distribution Method:

The informational fact sheet was printed and mailed to 462 targeted landowners. The project team focused on properties that were located adjacent to waterbodies, including streams, ponds, and wetlands. This targeted round was selected due to the likeliness that these landowners may experience flooding at their property. The fact sheet was mailed out prior to the public meeting and contained information about the meeting to encourage landowners to attend. The fact sheet had a link to the public survey so that landowners could provide information on their experiences.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To provide information regarding flooding in West Boylston, methods that residents can implement to mitigate flooding on their property, and to inform the public regarding an upcoming Town meeting.

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:

This message was in addition to the ones proposed in the NOI.

BMP: ESRI Storymap

Message Description and Distribution Method:

An ESRI Storymap was developed to provide interactive information about the MVP Action Grant project work to date. Viewers are able to navigate maps and see where identified work may occur. The Storymap was posted in June and will remain available for interested parties to view in the future

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

To inform the public about the MVP action grant project status

Message Date(s): June 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:

This message was in addition to the ones proposed in the NOI.

BMP:Lawn Care**Message Description and Distribution Method:**

From March 1, 2024, through May 31, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target lawn care activities that have the potential to impact water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

25 Facebook Posts - 45 likes and reactions, 4842 people reached
 17 Instagram Posts - 9 likes and reactions, 136 people reached
 79 Twitter Posts - 10 likes and reactions, 1721 people reached

Message Date(s): 3/24-5/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:Pet Waste

Message Description and Distribution Method:

From June 1, 2024, through September 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target pet waste activities that have the potential to impact water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

8 Facebook Posts - 12 likes and reactions, 1717 people reached
 8 Instagram Posts - 3 likes and reactions, 45 people reached
 69 Twitter Posts - 1 likes and reactions, 557 people reached

Message Date(s): 6/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:Septic System Maintenance**Message Description and Distribution Method:**

From July 1, 2024, through September 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target septic system maintenance activities (bacteria/pathogens) that have the potential to impact water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

5 Facebook Posts - 3 likes and reactions, 687 people reached
 5 Instagram Posts - 1 likes and reactions, 21 people reached
 28 Twitter Posts - 7 likes and reactions, 510 people reached

Message Date(s): 6/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:Leaf/ Yard Waste

Message Description and Distribution Method:

From October 1, 2023, through November 30, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target leaf/yard waste activities that have the potential to impact the quality of water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

2 Facebook Posts - 1 likes and reactions, 693 people reached
 2 Instagram Posts - 1 likes and reactions, 7 people reached
 6 Twitter Posts - 0 likes and reactions, 707 people reached

Message Date(s): 10/23-11/23

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:

This message was in addition to the ones proposed in the NOI.

BMP:Residential Water Quality Impacts**Message Description and Distribution Method:**

From October 1, 2023, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target residential activities that have the potential to impact the quality of water quality.

Targeted Audience: Residents

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

83 Facebook Posts - 149 likes and reactions, 15274 people reached
 72 Instagram Posts - 32 likes and reactions, 518 people reached
 460 Twitter Posts - 71 likes and reactions, 1368 people reached

Message Date(s): 10/23-6/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:Commercial Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2023, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of the commercial business and employees that have the potential to impact the quality of water quality.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

4 Facebook Posts - 7 likes and reactions, 427 people reached
 3 Instagram Posts - 1 likes and reactions, 21 people reached
 30 Twitter Posts - 1 likes and reactions, 750 people reached

Message Date(s): 10/23-6/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:Industrial Water Quality Impacts**Message Description and Distribution Method:**

From October 1, 2023, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of industries and their employees that have the potential to impact water quality.

Targeted Audience: Industrial facilities

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

15 Facebook Posts - 22 likes and reactions, 2274 people reached
 6 Instagram Posts - 2 likes and reactions, 43 people reached
 63 Twitter Posts - 6 likes and reactions, 2840 people reached

Message Date(s): 10/23-6/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:Developers & Contractors Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2023, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of developers, contractors and their employees that have the potential to impact water quality.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

8 Facebook Posts - 12 likes and reactions, 1761 people reached
 8 Instagram Posts - 1 likes and reactions, 48 people reached
 36 Twitter Posts - 4 likes and reactions, 2128 people reached

Message Date(s): 10/23-6/24

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:

This message was in addition to the ones proposed in the NOI.

BMP:DCR Brouchores**Message Description and Distribution Method:**

The DCR Division of Water Supply Protection continues to assist watershed communities with public education and outreach efforts. Copies of all DCR brochures that address a range of stormwater issues specific to homeowners, businesses, and developers are available at the Town Hall. Road salt outreach materials were updated. A bird harassment program brochure is being developed. Twenty-five brochures were restocked at the West Boylston Town Hall. Additional copies can be obtained upon request and are available on the DCR website at: Brochures, Fact Sheets, and Reports | Mass.gov The DCR Household Stormwater Pollution Prevention brochure has been included in mailings to all new homeowners listed in land transfers.

DCR Water Supply Education staff produced several videos on topics such as stormwater pollution, "The Importance of Road Salt Reduction", "Make Your Own Salt Brine", and "Salt Smarter, Not Harder!" All videos can be found and linked to on the DCR YouTube website at: MassDCR - YouTube.

DCR Rangers and education staff provided educational programs to students and the general public throughout the year that address a variety of topics including stormwater concerns. Stormwater pollution prevention public service announcements are read by Ranger staff at all public interpretive programs.

Targeted Audience: All

Responsible Department/Parties: DCR

Measurable Goal(s):

The DCR replenished up to 25 brochures during this reporting period at West Boylston Town offices.

Message Date(s): Permit Year 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:

This message was in addition to the ones proposed in the NOI.

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's Stormwater Management Plan is available on the Town's website for public review and input.

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:**

The Town participates in Hazardous Waste Disposal Days at the Wachusett Regional Recycling Center. The Recycling Center collected household hazardous waste for residents of West Boylston on July 22 and November 11, 2023 and on April 27, 2024.

The Town held a town-wide clean up day on Saturday April 27th, from 10 am to 1 pm. The Town provided supplies to assist with trash collection at the Town Hall.

Work on the Town's Watershed Resilience Plan began in October 2023 and ran until June 2024. Throughout this timeline, stakeholder and community input was collected. Two surveys were released to the public, which were posted in a variety of locations. The first survey was released in the fall and the second in the spring. A link to the survey could be found on the Town's website, social media and in print materials posted and distributed throughout the town. A paper copy of the survey was available at the Library and Town Hall for residents to fill out. The surveys asked respondents to describe flooding that they have experienced throughout the town. Additionally, the Town reached out to targeted stakeholders for individual interview regarding their perspective on climate change, flooding impacts, and solutions in West Boylston. These stakeholders consisted of four sets of property owners located near streams and waterbodies.

From May to June 2024, the MVP Action Grant project team set up a table at the Public Library which included information about flooding in West Boylston and solutions the Town is taking. A paper copy of the survey was available and the table included a map in which residents were encouraged to place stickers in

areas that they experienced flooding. A comment box and a coloring sheet for children were also available.

On June 20, 2024, Weston & Sampson presented on "Resilient Streams of the Wachusett Reservoir" during the Joint Select Board, Conservation Commission, & Planning Board Meeting. The presentation covered the MVP Action Grant highlighting the work that was completed including culvert inventory and inspections, confirming susceptible areas to flooding, identifying areas vulnerable to poor water quality, assessing nature based solutions, and developing a plan of action to modernize and strengthen infrastructure.

DCR Public Participation:

Opportunities for public involvement and participation in stormwater management decisions and activities have increased as a result of the efforts of the Central Massachusetts Regional Stormwater Coalition. Actions taken by the group are cooperative measures focused on more efficient and cost effective efforts to manage stormwater and should be very familiar to town officials.

The DCR remains open to any and all proposals to work cooperatively with citizens in the watershed communities on activities that engage the public in efforts to control stormwater runoff and protect surface water quality.

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:

West Boylston completed its Phase I map as required during Permit Year 4, and already has developed a comprehensive drainage map that meets Phase II mapping requirements of the MS4 Permit as well.

West Boylston continued to update its MS4 map as necessary during Permit Year 6 as a result of ongoing field investigations. MS4 mapping is updated as any unmapped or incorrectly mapped stormwater infrastructure is encountered in the field. MS4 mapping is also updated as a result of new development and redevelopment.

In addition to the work that the Town has completed, DCR has done extensive mapping of drainage structures. DCR staff continues to improve and update maps as a result of field inspections and will coordinate efforts with the watershed communities. An effort is underway to develop connectivity and flow direction information.

The DCR continues to monitor and map structural best management practices (BMPs) in the watershed. To

date, 187 BMPs (including detention basins, dry wells, infiltration trenches, Stormceptors, sediment traps and sediment forebays, and rain gardens) have been mapped within West Boylston and are part of a larger Geographic Information System (GIS) hydrology layer project.

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:

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

Percent of outfalls screened:

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

The Town completed dry weather outfall/interconnection screening and sampling during Permit Year 4, and is therefore reporting that 100% of outfalls have been screened during dry weather as noted above. The Town performed wet weather sampling at 11 outfalls during Permit Year 6. There are 58 outfalls where wet weather sampling is required based on the System Vulnerability Factor Analysis previously completed. The Town will continue wet weather sampling during Permit Year 7.

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:

*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:

The Town has 98 catchments that are regulated under the MS4 Permit. Prior to performing catchment investigations, 44 catchments were determined to have no key-junction manholes and were cleared using dry weather outfall inspection data. An additional 45 catchments were field investigated during Permit Year 5. During Permit Year 6, 10 catchments were investigated, including one where follow up sampling occurred.

Therefore, 100% of the Town's catchments have been investigated. However, 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 indicate no likely sewer input based on field observations and sampling. Since the Town has only performed wet weather sampling at 10 outfalls to date, only 11% of the Town's catchments are being reported as complete in terms of IDDE investigations. Catchment investigation data attached to this report includes all the investigations completed during the reporting period.

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:

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:

DCR personnel continue to look for illicit discharges or other stormwater problems during routine stream investigations and will pass on any relevant information to the Town. Biweekly samples for bacteria, turbidity, and specific conductance were collected from eight tributaries in West Boylston and monthly

nutrient samples were collected at five locations. There are a few tributaries with historical bacteria issues which have been documented in prior DCR annual reports. Gates Brook 4 has an area with roosting birds that were identified as a source of elevated bacteria seasonally. Recently, bacteria levels have been elevated in West Boylston Brook and the potential source is being actively investigated. Sometimes bacteria is high following rain events. This is not necessarily indicative of illicit discharges as bacteria concentrations in watershed tributaries increase during storm events even in undeveloped forested areas. Annual water quality summary statistics and raw data are available upon request. DCR will continue to monitor these sites.

Employee Training

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

West Boylston held an IDDE and SWPPP Training session on June 24, 2024. The training was attended by 4 municipal employees from the West Boylston Cemetery, DPW and Building Departments. The SWPPP training covered Best Management Practices at both the DPW Facility as well as the Mount Vernon Cemetery where 4 staff members were in attendance.

The DCR continues to offer a Stormwater Pollution Prevention Training Program for municipal employees in watershed communities.

Four (4) West Boylston DPW employees attended a spreader calibration workshop taught by Baystate Roads, part of the UMass Transportation Center on November 28, 2023. This class was hosted by DCR and MWRA and provided training on winter snow and ice maintenance best practices. The training included a demonstration of how to properly calibrate salt spreader machinery to achieve a specific and appropriate application rate, as well as on-site calibration of equipment brought to the training. Properly calibrated spreaders reduce materials, save costs, and are protective of water quality and the environment.

DCR provided the West Boylston DPW Director with a “Salt Smarter, Not Harder - Ways to Reduce Salt Use” metal placard to be placed on the residential salt/sand containment shed in the DPW Yard.

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:

One Site plan review occurred this permit term for a property on Century Drive.

DCR Inspections:

Routine inspections of construction sites that disturb more than one acre are done by DCR during dry and wet weather. There were no SWPPP compliance monitoring inspections for EPA Construction General Permits

during the July 1, 2023 - June 30, 2024, period.

All agricultural sites are regularly monitored by DCR staff for stormwater related issues such as erosion and manure runoff. There are a total of 64 agricultural sites in West Boylston. A majority (52%) of the sites are hayfields, followed by animals (41%). However, most of these sites do not pose a risk to storm drain systems or surface waters. Thirty-two agricultural site inspections were performed in West Boylston during the reporting period. Most of the agricultural properties in town are small with no observed violations or need for remediation and do not require annual visits.

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3):

During Permit Year 6, the Town continued to review drafted updates to their existing Stormwater Management Bylaw, their draft supporting Stormwater Management Rules & Regulations, and the draft separate Stormwater Bylaw that specifically covers use of the storm drain system. The Bylaws Committee held meetings on April 2, and April 9, 2024 to discuss both stormwater bylaws. At Town Meeting on May 20, 2024, the Town formally adopted the Stormwater Bylaw that covers use of the storm drain system. Updates to the existing Stormwater Management Bylaw were also adopted at the Town Meeting held on May 20, 2024. The Town is currently working to adopt the already drafted supporting Stormwater Management Rules & Regulations.

Website of ordinance or regulatory mechanism:

https://www.westboylston-ma.gov/sites/g/files/vyhlf1421/f/uploads/2024_master_general_bylaws_4.pdf

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:

One as-built was received during this permit term for a property on Westland Circle.

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 Town will be revisiting these recommendations during Permit Year 7 in an effort to make updates to local regulations, where feasible.

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 Town will be revisiting these recommendations during Permit Year 7 in an effort to make updates to local regulations, where feasible.

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):

- Site #1: Department of Public Works (35 Worcester Street)
- Site #2: West Boston Municipal Light Plant (4 Crescent Street)
- Site #3: Lee Street and Goodale Street Intersection
- Site #4: Pride Park Playground (70 Crescent Street)
- Site #5: Paul X Tivnan Drive Cemetery (Paul X Tivnan Drive)

Stormwater retrofits have not been completed at any of these sites to date.

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.

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:

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: [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:

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

During Permit Year 6, eight (8) inspections were able to be completed - four (4) quarterly inspections were conducted at each facility, which includes the DPW Garage and the Mount Vernon Cemetery. At least one (1) inspection at each facility occurred during a wet weather event.

There were no corrective actions taken on site or required during Permit Year 6.

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:

Stream Sampling/Monitoring:

DCR staff conduct monthly monitoring that captures both wet and dry weather conditions at 5 streams in West Boylston, as listed below. The parameters tested are: Alkalinity, pH, Temperature, Dissolved Oxygen, Total Nitrogen, Total Phosphorus, Total Organic Carbon, E. coli, Turbidity, Specific Conductance, and Chloride. Mean Daily Discharge and Total Monthly Discharge measurements are also recorded.

Location Label Description Lat Long

GATES BROOK 1 - MD04 DOWNSTREAM OF BRIDGE INSIDE GATE 25- LAT/ LONG: 42.36495486 -71.77578615
 GATES BROOK 4 - MD73 UPSTREAM OF PIERCE ST- LAT/ LONG: 42.34811601 -71.78343803
 MALDEN BROOK - MD06 UPSTREAM OF THOMAS ST - LAT/ LONG:42.38124105 -71.79554705
 MUDDY BROOK - MD03 UPSTREAM OF RT 140 - LAT/ LONG:42.34749911 -71.76574116
 OAKDALE BROOK - MD80 DOWNSTREAM OF WAUSHACUM ST - EAST OF RT 140- LAT/ LONG: 42.39129254 -71.79329243
 SCARLETT BROOK (DS W.M.) - MD81 BEHIND WALMART ABOVE CONFLUENCE WITH GATES BROOK - LAT/ LONG: 42.35603437 -71.78166043
 WAUSHACUM BROOK (PRESCOTT ST) - MD83 DOWNSTREAM OF PRESCOTT ST- LAT/ LONG: 42.39708333 -71.7793418
 WEST BOYLSTON BROOK - MD05 UPSTREAM OF ACCESS ROAD INSIDE GATE 25 - LAT/ LONG: 42.36842023 -71.78101728

The DCR also conducts bacteria sampling every two weeks at the above sites and nutrients once a month at Gates Brook 1, Malden Brook, Muddy Brook, Waushacum Brook, and West Boylston Brook.

Number of samples collected between July 1, 2023, and June 30, 2024:

Gates Brook 1 - 36 samples collected (24 bacteria samples; 12 nutrient samples)

Gates Brook 4 - 25 bacteria samples collected
Malden Brook - 36 samples collected (24 bacteria samples; 12 nutrient samples)
Muddy Brook - 36 samples collected (24 bacteria samples; 12 nutrient samples)
Oakdale Brook - 24 bacteria samples collected
Scarlett Brook (Downstream of Walmart) - 24 bacteria samples collected
Washacum Brook (Prescott St.) - 36 samples collected (24 bacteria samples; 12 nutrient samples)
West Boylston Brook - 36 samples collected (24 bacteria samples; 12 nutrient samples)

BMP monitoring:

DCR monitors basins located on DCR property within the town to determine if there are any maintenance needs. Nine (9) DCR Basin sites in West Boylston were inspected during the reporting period, including the following:

Emergency Response Garage
180 Beaman Street
Wachusett Recycling Center
Gate WB10 (Old Stone Church)
Gate 25
Beaman St. Bridge
Gate WB19
Gate 18 (Worcester Pump Station)
Gate 27 (Lancaster Street)

- DCR performed regular site visits in the fall of 2023 and the spring of 2024. DCR staff also spot checked periodically after larger storm events.
- DCR performed regular mowing of grass during the growing season at the stormwater basins at the Emergency Response Garage, 180 Beaman Street, Wachusett Recycling Center, Gate WB10, Gate 25, Beaman Street Bridge, Gate WB19, Gate 18, and Gate 27.
- Aqualis cleaned 8 Stormceptors from Beaman Street and South Bay. DCR utilized their loader to assist Aqualis in loading the sediment into their trucks for disposal.
- DCR prepared plans to rehabilitate the stormwater basin at Gate 27. The basin was surveyed to investigate the area of ponding water. A plan was prepared to remove accumulated sediment in the forebay, regrade the bottom of the infiltration basin, rototill subsoils to improve infiltration rates, raise the grade of the bottom of the basin with drainage sand and topsoil, install a new length of perforated subdrain pipe, and restore the area with new grass seed. Materials have been purchased for the project and work is anticipated in FY2025.
- A plan was prepared for installing gate valves in each of the forebay outlet control structures at Gate WB10 (Old Stone Church) and Gate 25. Two out of the five total have been completed.

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 7

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

Yes, I agree

- Complete investigations of catchments associated with Problem Outfalls
- Complete investigations of catchments where any information gathered on the outfall/interconnection identifies sewer input

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 7 below:

Part V: Certification of Small MS4 Annual Report 2024

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]