

Year 5 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2022-June 30, 2023

****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, 2022 and June 30, 2023 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

EPA NPDES Permit Number:

Primary MS4 Program Manager Contact Information

Name:

Title:

Street Address Line 1:

Street Address Line 2:

City:

State:

Zip Code:

Email:

Phone Number:

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address):

Date SWMP was Last Updated:

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

Part II: Self-Assessment

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

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

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 2 as necessary
- ☒ 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:

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:

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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

- Completed the evaluation of all permittee owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under permit part 2.3.6.d or identified in the Nitrogen Source Identification Report, including: (select the items of the evaluation that have been completed below)
- ☒ Next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) OR planned retrofit date
- ☐ Estimated cost of redevelopment or retrofit BMPs
- ☐ Engineering and regulatory feasibility of redevelopment or retrofit BMPs
- ☒ Completed a listing of planned structural BMPs and a plan and schedule for implementation
- ☒ The BMP list and implementation schedule is attached to the email submission
- ☐ The BMP list and implementation schedule can be found at the following publicly available website:

- Any structural BMPs listed in Table 3 of Attachment 1 to Appendix F already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was
- ☒ estimated consistent with Attachment 1 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated nitrogen 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 nitrogen removed in lbs/year from the installed BMPs: 338

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:

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:

- ☒ 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:

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:

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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: 14

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:Website & Social Media

Message Description and Distribution Method:

In addition to the SWMP BMP's to meet permit requirements, the town has utilized the Town Website and Social Media to keep the community better educated with news and activities taking place within the town. Postings included the following, in addition to the required BMP's.

1. Rain Barrel Sales - Facebook and Website 2/27/23; Newspaper 3/2/23
2. Street Sweeper Video -Facebook 10/20/22
- *3. Think Blue CT River Website; Regional messaging through the CT River Stormwater Committee located at www.thinkblueconnecticutriver.org

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Rain Barrel Sales - 567 FB Views, 20 Barrels Sold

Street Sweeper Video -693 FB Views

*Think Blue CT River Website; see link below

www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Summer, Fall, Winter, Spring

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:Proper Disposal of Leaf Litter

Message Description and Distribution Method:

Be A Leaf Hero - Facebook 10/17/22

Fall Yard Waste Tips and Schedule - Facebook 9/26/22

Yard Waste Tips - Newspaper 9/29/22

Be Wise about Leaf Litter Flyer -

*CT River SW Committee, Be a Leaf Hero FB Series and Cable Access Channel Campaign.

All activities provide residents with the most effective ways to reduce stormwater pollutants from entering the system, how and when to fertilize, composting, and options for residential leaf disposal.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Be A Leaf Hero - 265 FB Views

Fall Yard Waste Tips and Schedule - 341 FB Views

Yard Waste Tips - Newspaper; approximately 5000 publications per Agawam Advertiser

Be Wise about Leaf Litter Flyer -

*CT River SW Committee activities; see link below

www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Fall

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:Proper Disposal and Use of Grass Clippings

Message Description and Distribution Method:

Composting & Compost Bin Sale -

Rethink Lawncare - Facebook Post 6/5/23

Composting & Compost Sales - Facebook Post 05/22/23

Spring YW Collection and Lawncare - Facebook Post 04/10/23

Spring YW Collection and Lawncare - Newspaper 04/23

Grass Clippings and Stormwater Flyer - Direct Mailing 5/23/23

*CT River SW Committee, FB and radio campaign.

All activities encourage residents to properly dispose of grass clippings and the use of slow-release and phosphorus free fertilizers.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Composting & Compost Bin Sale - approximately 5000 publications per Agawam Advertiser

Rethink Lawncare - 185 FB Views

Composting & Compost Sales - 1,460 FB Views

Spring YW Collection and Lawncare - 697 FB Views

Spring YW Collection and Lawncare - approximately 5000 publications per Agawam Advertiser

Grass Clippings and Stormwater Flyer - 13,350 Direct Mailing

*CT River SW Committee activities; see link below

www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Spring

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:Proper Management of Pet Waste

Message Description and Distribution Method:

Proper Disposal of Pet Waste Notification - Cable Access Channel 3/20/23-3/31/23

Scoop the Poop FB Post - 7/25/22

6 Unsettling Facts About Pet Waste flyer - distributed with licensing, on going

*CT River SW Committee , Social Media Pet Waste Campaign

All activities were included to help residents learn about pet waste bacteria problems, nutrient problems, how pet waste can pollute stormwater, and how to be a "doo gooder" and the importance of pet waste pick up.

Targeted Audience: Residents

Responsible Department/Parties: DPW / Animal Control Officer

Measurable Goal(s):

Proper Disposal of Pet Waste Notification - Cable Access Channel 3/20/23-3/31/23

Scoop the Poop FB Post - 350 FB Views

6 Unsettling Facts About Pet Waste flyer - Approximately 2,914 licenses and flyers distributed

*CT River SW Committee activities; see link below

www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Summer

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:Putting Waste In It's Place

Message Description and Distribution Method:

Think Small Doesn't Matter? Nip bottle disposal campaign flyer - Direct Mailing 12/22/22

Plastic 'nip' blottles and local waterways - Newspaper 1/10/23, 1/17/23

*Think Blue CT River Nip Bottle bus panel campaign, including social media posts and press releases.

All activities provide residents with the need for proper disposal of nip bottles and the impacts to our waterways.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Think Small Doesn't Matter? Nip bottle disposal campaign flyer - 8,893 Direct Mailing
Plastic 'nip' blottles and local waterways - UNK number of readers in regional newspapers
*CT River SW Committee activities; see link below
www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Winter

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:

Messaging moved from permit year four to year two. It was the towns intention to publish litter messaging in the summer of 2021. Due to the increased litter as a result of COVID 19, messaging was added during the pandemic to remind residents of the consequences of leaving or disposing of items, gloves and masks, in the wrong places. Messaging about litter/nip bottles was added as a need for increased public education.

BMP:Installation of Hooded Catch Basins

Message Description and Distribution Method:

Improving the Quality of Storm Flows from Parking Lots flyer created in permit year 4, mailed in July 2023, permit year 5, to all businesses.

*CT River SW Committee activities -Messaging expanded into permit year 5, promoting low impact retrofit approaches.

Targeted Audience: Businesses, Institutions, and Commercial Facilities/Industrial Facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

Direct Mailing - 13,557 flyers mailed.
*CT River Stormwater Committee activities; see link below
www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Summer

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:LID Strategies and Technologies

Message Description and Distribution Method:

*CT River Stormwater committee LID Technologies and Strategies virtual workshop series for the development / construction community. Topics included an overview of the MA Stormwater Regulations, Construction and E&SC, Best Stormwater Solutions, and Post Construction O&M for Stormwater Management.

Targeted Audience: Developers

Responsible Department/Parties: DPW / PVPC Stormwater Committee

Measurable Goal(s):

*CT River Stormwater Committee activities; see link below
www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Summer

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:

Messaging moved from permit year 3 to 4, continuing into permit year 5.

BMP:Proper Disposal of Leaf LitterMessage Description and Distribution Method:

*CT River SW Committee Disposal of Leaf Litter campaign included a mailing to all know registered professional landscapers within the town of Agawam. Mailing included BMP's regarding the removal of leaves off roadways and stormdrains, using mulch mowers, and composting.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW / CT River STormwater Committee

Measurable Goal(s):

*CT River Stormwater Committee activities; see link below
www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Fall

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:Importance of Soil Testing, use of Fertilizers and Disposal of Grass Clippings

Message Description and Distribution Method:

*CT River SW Committee - Lawn Care Campaign included a mailing to all Landscapers in the Spring, encouraging the use of grass clippings as a natural fertilizer and soil testing for more accurate use of slow-release fertilizers.

Targeted Audience: Businesses, Institutions, and Commercial Facilities

Responsible Department/Parties: DPW / CT River Stormwater Committee

Measurable Goal(s):

*CT River SW Committee activities; see link below
www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Spring

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:Proper Management of Animal Waste**Message Description and Distribution Method:**

*CT River SW Committee - "The Proper Management of Pet Waste" article written and published by Business West, including a design template for public posting.

Targeted Audience: Businesses/Institutions/Commercial Facilities

Responsible Department/Parties: DPW / CT River Stormwater Committee

Measurable Goal(s):

*CT River SW Committee; see link below
www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Annually in the Summer

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 added in permit year 1 to meet Appendix F and H requirements on animal waste in addition to pet waste.

BMP:Agawam Wetland Protection Guide

Message Description and Distribution Method:

Guide created during permit year one, mailing began in permit year 2. Guide outlines what wetlands are protected, what activities are regulated, what wetland laws apply, and what builders should do if they have a project in town that will occur within a wetland or buffer zone. Guide was distributed with all permits out of the Building Department.

Targeted Audience: Residents

Responsible Department/Parties: Planning / Building Department

Measurable Goal(s):

Message Date(s): Annually

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 was added to SWMP in permit year one, in addition to messaging submitted in NOI

BMP: Best Practices for Septic Systems**Message Description and Distribution Method:**

Be Septic Savvy - FB Post 9/21/22

Proper Landscaping on and around Septic System flyer - mailed to home owners in May and June

*CT River SW Committee - Social Media Campaign

Targeted Audience: Residents

Responsible Department/Parties: Health Department

Measurable Goal(s):

Be Septic Savvy - 163 FB Views

Proper Landscaping flyer - 4,370 flyers mailed to home owners

*CT River SW Committee - see link below

www.thinkblueconnecticutriver.org/ms4-communities/

Message Date(s): Summer

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 was added to the towns SWMP in permit year one, in addition to messaging originally submitted in NOI

BMP:Best Practices for Draining Pool Water

Message Description and Distribution Method:

How to drain pool water, while protecting the environment flyer mailed to all businesses and home owners. Literature included how to prepare and where to drain pool and hot tub water. Literature also included links to the Think Blue CT River, Think Blue MA, and EPA Healthy Watersheds websites.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Direct mailing of flyer mailed to all businesses and residents - 13,305 flyers mailed.

Message Date(s): Spring

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 was added to the towns SWMP in permit year four, in addition to messaging originally submitted in 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:

SWMP notification was posted on the Town Website and Facebook Page and through the City Clerk's office, including an email address where the public could send comments regarding the SWMP in for discussion.

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 community was notified through the town Website, Facebook Page and local newspapers regarding the following activities:

Year 4 Stormwater Report was available to the public for comment.

Spring / Fall Community Clean-ups along th CT River were coordinated in partnership with the Westfield River Watershed, participation included town and neighboring community members.

HHW Day event encouraging the proper disposal of HHW and Universal Waste; 228 residents attended.

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: 4

Number of SSOs removed: 4

MS4 System Mapping

Optional: Provide additional status information regarding your map:

The Town of Agawam's Stormwater GIS mapping system is updated as new information is discovered via recorded plans or field investigations.

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: 0

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:

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: 31

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

Percent of total catchments investigated: 10

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

Among the 31 High Priority Catchments investigated in Permit Year 5, three (3) were identified as Problem Catchments based on potential illicit discharge indicators detected in flow during dry weather outfall screening. Further investigation of High Priority Catchments will continue into Permit Year 6.

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: 7

Number of illicit discharges removed: 5

Estimated volume of sewage removed: 0 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: 66

Total number of illicit discharges removed: 63

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

The total number of illicit discharges identified and removed to date listed above is based on illicit discharges reported since 2011.

The previously reported sanitary sewer lateral connection to the MS4 at #140 Maple Street has been removed.

Illicit discharges were identified in three (3) of the catchments investigated in Permit Year 5: FM-47-570, TK-46-561, WF-38-734. Additional information regarding these illicit discharges are included in the attached catchment investigation report. Further investigation of the storm sewer infrastructure shall be performed by the Town of Agawam to determine the source of these illicit discharges.

On November 1, 2022, the Agawam Engineering Division investigated a construction site at #13 Mark Drive and observed a temporary construction entrance had not been installed. As a result, sediment from the site was being tracked onto the street by construction vehicles. It was also observed that erosion protection had not been placed around the material stockpiles. Engineering spoke with the contractor and a letter was sent to the owner of the property requesting that the necessary erosion control devices be installed and all sediment in the street be removed. Engineering will continue to monitor the site until construction is completed.

On September 28, 2022, the Agawam DPW responded to a report that the private sanitary sewer holding tank at Quail Run Estates had clogged and effluent was overflowing into their private storm sewer system. Although the storm sewer on the Quail Run Estates is privately owned, it does discharge into Town waterbodies and eventually flows into the MS4. By the time the Town had responded with a letter to the property manager, maintenance crews from the Estates had already begun cleaning up the spilled effluent and were planning to upgrade the alarm system on their holding tank and sewage pumps to prevent future overflows.

In Permit Year 4, the Town had responded to an illicit discharge at the Main Garden Chinese Restaurant at #28 Southwick Street. Wash water from cleaning the restaurant stove vents had been dumped into a nearby catch basin within the parking lot of #30 Southwick Street. The Town spoke with the restaurant employees and informed them that wash water was not to be dumped into catch basins and the area around the basin would need to be cleaned. In March of 2023, the Town received a report from the resident of #30 Southwick Street that similar illicit discharges were occurring. However, the Town found no indication within the catch basin of an illicit discharge. The Town has been keeping this area under observation.

In June 2023, the Town received reports from #415 Adams Street and the Mawaga Sporting Club regarding a pinkish tint within the waters of Tarkill Brook which flows through both properties. The Town coordinated investigative efforts with the Massachusetts Department of Environmental Protection (MassDEP) who had already been looking into the illicit discharge. It was ultimately determined by MassDEP that the tint was caused by sediment-laden stormwater runoff discharging into tributaries to Tarkill Brook from a trucking service located at #415 Silver Street. MassDEP observed stockpiles of sands, stones and other aggregate materials at #415 Silver Street actively maintained within 100 feet of a Bordering Vegetated Wetland with no visible erosion and sedimentation controls. A letter of notification and a Unilateral Administrative Order was sent to #415 Silver Street with orders to install all necessary stabilization measures for the material stockpiles and submit a Long -Term Project Site Stabilization and Stormwater Management Plan.

Employee Training

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

The following trainings were provided by Woodard & Curran to all staff in Motor Vehicle Maintenance, Highway and Grounds, Water and Sewer, Engineering, and Management.

MS4 Overview Requirements

Overview and Organization of SWPPP

Overview and Organization of SPCC Plan

IDDE

Pollution Prevent and Good Housekeeping

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: 15

Number of inspections completed: 1,695

Number of enforcement actions taken: 3

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

1284 Building Permits

61 Planning and Conservation Site Inspections; 3 Enforcement Orders

350 Engineering Site Inspections

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

Ordinance or Regulatory Mechanism

The Town is in the process of updating our current stormwater regulations by incorporating the requirements outlined within the Small MS4 General Permit. The current regulations will be split into two separate documents: 1) a new Stormwater Management Ordinance (to be labeled Chapter 176 within the Town Code) and 2) new Regulations for Stormwater Management and Erosion and Sediment Control. Both documents are being reviewed by the Town before proposal to

Date update was completed (due in year 3):

the Agawam City Council

Website of ordinance or regulatory mechanism:

As-built Drawings

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

Number of as-built drawings received: 0

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

A regulation requiring the submittal of as-built drawings in accordance with Section 2.3.6 of the Massachusetts Small MS4 General Permit shall be included in the proposed Regulations for Stormwater Management and Erosion and Sediment Control currently under review by the Town.

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:

At the end of Permit Year 5, the Town has not made any changes to local regulations and guidelines concerning street or parking lot design. This matter shall be investigated further in Permit Year 6.

Green Infrastructure Report

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

The Town, in conjunction with Woodard & Curran, has prepared a comprehensive Stormwater Master Plan to address expressed community concern regarding chronic and intensifying flooding that impairs normal and emergency roadway access during storm events. In the face of changing climate patterns that are increasing the frequency and severity of rainfall, the Town will develop a long-term plan to efficiently manage its stormwater assets, reduce impervious cover and promote green infrastructure to provide accessory environmental and public health benefits.

Guidelines concerning the design and installation of Low Impact Development stormwater management techniques have been incorporated within the proposed Regulations for Stormwater Management and Erosion and Sediment Control currently under review by the Town.

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) Agawam High School - 760 Cooper Street
- 2) Agawam Junior High School - 1305 Springfield Street

- 3) Agawam Town Hall - 36 Main Street
- 4) Roberta Doering Middle School - 68 Main Street
- 5) Benjamin Phelps Elementary School & Parker Field - 689 Main Street
- 6) Borgatti Park - 0 River Road
- 7) Clifford Granger Elementary School - 31 South Westfield Street
- 8) James Clark Elementary School - 65 Oxford Street
- 9) Perry Lane Preschool and Park - 108 Perry Lane
- 10) Robinson Park Elementary School - 65 Begley Street

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. 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 Town, in conjunction with Woodard & Curran, is planning to retrofit an existing drainage collection areas with an infiltration basin located at the Robinson Park Elementary School. In Permit Year 6, the Town will work towards prioritizing the other locations listed in the Retrofit Properties Inventory based on further feasibility analyses.

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: 284

Number of catch basins cleaned: 284

Total volume or mass of material removed from all catch basins: 355.07 tons

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

Total number of catch basins: 3,700

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 reviews data from catch basin inspections. If it is determined and/or reported by staff that a catch basin sump was 50% full or greater for two consecutive cleaning cycles, an inspection of the catchment will be performed in order to identify and remove the source of the sediment / pollutant.

Street Sweeping

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

☒ Number of miles cleaned: 282.34

☐ 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: 2

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

Additional Information

Monitoring or Study Results

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

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

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

Additional Information

Optional: Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above. If any of the above year 5 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

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 6 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 6 below:

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Part V: Certification of Small MS4 Annual Report 2023

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:

Mario Mazza

Title:

Superintendent of Public Works

Signature:

Mario Mazza

Digitally signed by: Mario Mazza
DN: CN = Mario Mazza, email =
mpw@agawam.ma.us, O = US, OU = Agawam
DfW
Date: 2023.09.20 08:35:20 -0400

Date:

09/20/23

[Signatory may be a duly authorized
representative]