

**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>

<b>Impairment(s)</b>			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Chloride	<input type="checkbox"/> Nitrogen	<input checked="" type="checkbox"/> Phosphorus
<input checked="" type="checkbox"/> Solids/ Oil/ Grease (Hydrocarbons)/ Metals			
<b>TMDL(s)</b>			
<i>In State:</i>	<input type="checkbox"/> Assabet River Phosphorus	<input checked="" 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:

<https://www.scituatema.gov/department-of-public-works/pages/ms-4-permit>

- 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:

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

Annual Requirements

*Public Education and Outreach\**

- Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

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

*Good Housekeeping and Pollution Prevention for Permittee Owned Operations*

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

*Structural BMPs*

- 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
- Phosphorus 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:

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

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

<https://www.scituatema.gov/department-of-public-works/pages/ms-4-permit>

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

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

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**Solids, Oil and Grease (Hydrocarbons), or Metals**  
Annual Requirements

*Good Housekeeping and Pollution Prevention for Permittee Owned Operations*

- Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
  - The street sweeping schedule is attached to the email submission
  - The street sweeping schedule can be found at the following publicly available website:

<https://www.scituatema.gov/department-of-public-works/pages/street-sweeping-schedule>

- 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:

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

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

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

- Yes
- No

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

### Part IV: Minimum Control Measures

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

#### MCM1: Public Education

Number of educational messages completed during this reporting period:

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:1.01 School Program**

Message Description and Distribution Method:

School Program: Stormwater and Conservation Messaging - Groundwater model, watershed model and cleaning dirty water taught to elementary school students and parent volunteers in school program

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Now that we are past the Covid pandemic, school programs were in person again. Environmental Educator Brian Taylor created a series of videos that teachers used with their students. The teachers also had the Watershed Jeopardy game to play with the kids. All of the teachers were also given a packet of supplemental materials to go with the program. There were 290 students who participated in the program in 4 school visits. In a sample survey, 85% of the students and 80% of the parents reported having a greater understanding of where their water comes from AFTER the program, 85% of the students and 80% of the parents reported having a greater understanding of the importance of conserving water AFTER the program, and 80% of the students and 80% of the parents reported having a greater understanding of how pollutants and runoff affect the quality of water AFTER the program. A press release went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Scituate Mariner. There were 450 views on the school program web page which has the virtual videos. The program was also posted on the NSRWA Facebook page.

Message Date(s):

Message Completed for: Appendix F Requirements  Appendix H Requirements

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

If yes, describe why the change was made:

**BMP:1.02 Regional Rain Barrel Sale**

Message Description and Distribution Method:

Regional Rain Barrel Sale - Education about water consevation and the reduction of stormwater from impervious surfaces

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A press release went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Scituate Mariner. There were 7,618 web page views. Facebook posts were made on the NSRWA page and Scituate Monthly - Our Town page. There was a \$50 boost of the Facebook ad targeted to Scituate that resulted in 8,931 people reached, and 337 engagements. Information about the sale went out in the NSRWA E-newsletter to 11,246 subscribers. There were 115 rain barrels sold with 12 sold to residents of Scituate.

Message Date(s): Spring 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:

[Empty text box for describing changes]

**BMP:1.03 Gardening Green Expo**

Message Description and Distribution Method:

Gardening Green Expo - Regional event for WaterSmart South Shore Communities that provides information on how residents can reduce stormwater pollution from better landscaping practices.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

This year, the Gardening Green Expo was a series of 5 Zoom seminars and a live event on Saturday with 4 live lectures. The Zoom lectures were headlined by renowned author Doug Tallamy. The live event featured local experts, services, vendors, and environmental organizations. We took orders for rain barrels and had downloadable water-saving plant lists. There were 1,048 webinar and live attendees. We also had a drawing for signed books, gift certificates, a rain barrel, gift baskets, and more, and 173 people registered for that drawing. We put the speaker videos online and we had 4,381 web page views and 799 YouTube views. The event was also promoted on Facebook and Instagram. It was posted on the NSRWA Facebook page with 438 engagements, 25 comments, and 112 shares. There was also a \$50 Facebook ad targeted to Scituate with a reach of 4,334 people and 271 engagements.

Message Date(s): March 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:

**BMP:1.04 Greenscape Guide**

Message Description and Distribution Method:

Greenscapes Guide - Digital download of landscaping techniques that reduce stormwater pollutants (fertilizers, pesticides, herbicides)

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

The downloadable Greenscapes Guide was promoted online and on the NSRWA Facebook page. It was also promoted on the Scituate Monthly - Our Town Facebook page. It had 567 web views and 59 downloads. There was a \$50 boost of the Facebook ad targeted to Scituate that resulted in 9,932 people reached, and 321 engagements.

Message Date(s): Spring 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:

**BMP:1.05 MS-4 Messages Fertilizers**

Message Description and Distribution Method:

MS4 Message - Fertilizer for May/June

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A fertilizer message was posted on the NSRWA Facebook page in June. It was also posted to the Scituate Monthly - Our Town Facebook page. The fertilizer Facebook post was boosted in June with a \$50 ad targeted to Scituate that will run through June 24. That boosted ad had a reach of 5,593 people and 178 engagements as of June 22. There were also 10 page views on the Know Before You Mow! web page, 70 page views on the

Best Mowing Practices web page, and 153 page views on the Stormwater web page.

Message Date(s): June 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 educational BMP was added since the NOI was submitted to better reach and inform residents about grass clippings and fertilizers in spring.

**BMP:1.06 Pet Waste Education**

Message Description and Distribution Method:

Pet Waste Education - Printed Scoop It cards, web article, press release, and social media posts for June

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Pet waste Scoop It cards were distributed to the town clerk's office (100), Driftway Animal Hospital (100), and the Scituate Animal Shelter (100). An article was written on The Problem of Dog Waste on the South Shore. This was sent to the Globe, the Patriot Ledger, Wicked Local, and the Scituate Mariner. It was posted on the NSRWA Facebook page with 1,062 engagements. A \$50 ad was targeted to Scituate and will run through July 13. As of June 22, it had a reach of 777 people and 196 engagements. There were also 88 page views on The Problem of Dog Waste on the South Shore web page, 318 page views on the Pet Waste Education page, 346 page views on the Addressing the Elephant in the Room - Dog Waste on the South Shore web page.

Message Date(s): June 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:

**BMP:1.07 Septic Maintenance**

Message Description and Distribution Method:

Septic Maintenance - Maintenance of septic systems, corresponding with SepticSmart week in September

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A press release to went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Scituate Mariner. A Facebook ad was posted in September with a reach of 581 people, 9 comments, and 23 shares. A \$50 Facebook ad was targeted to Scituate with a reach of 3,556 people and 107 engagements.

Message Date(s): September 2022

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:1.09 Leaf Litter**

Message Description and Distribution Method:

Leaf Litter - HELP KEEP STORM DRAINS CLEAN – ADOPT A STORM DRAIN NEAR YOU! Don't blow, sweep or dump leaf litter and yard waste into streets or storm drains. Social media posts for October

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A message about leaf litter was posted on the NSRWA Facebook page in October. The HELP KEEP STORM DRAINS CLEAN message had a reach of 1,452 people, 49 comments, and 199 shares. The Facebook post was boosted with a \$50 ad targeted to Scituate with a reach of 4,447 people and 180 engagements. There were also 81 page views on the Best Mowing Practices web page, and 125 page views on the Stormwater web page.

Message Date(s): October 2022

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:1.10 Proper Sediment and Erosion control**

Message Description and Distribution Method:

Proper Sediment and Erosion Control Management - Provided by Building Department at permit request

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

A brochure entitled Construction Stormwater Pollution Prevention Guide was created and delivered to the Building department. These brochures will be handed to the person when they receive their permit. There were 750 distributed to the town of Scituate initially, and we are currently replenishing their supply.

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: Art for Water**

Message Description and Distribution Method:

Public Art Raffle with Survey - What Can You Do to Help Keep Stormdrains Clean? (August) - We provided handcrafted metal garden fish stakes to be raffled in each town and online. There was an education piece on stormwater and how storm drains empty unfiltered directly into our water bodies.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

The "What Can You Do to Help Keep Stormdrains Clean?" campaign raised awareness of the fact that storm drains empty unfiltered water into our local rivers and streams. A press release, posts, and an e-news story were used to educate the public. We provided handcrafted metal garden fish stakes to be raffled in each town and online. Everyone who entered the drawing had to answer the question "What can you do to help keep stormdrains clean?" There were 341 web page views, 214 entries and we selected 12 winners. The post on Facebook received 116 engagements, 14 comments, and 12 shares. A \$50 ad targeted to Scituate had a reach of 1,256 people and 72 engagements. I also did a radio interview on WATD about keeping storm drains clean.

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:

Additional messaging provided to further engage the public via art and education.

**BMP:1.08 & 1.11 Proper Management of Waste Materials and Dumpsters**

Message Description and Distribution Method:

Proper Management of Waste Materials and Dumpsters - Web page, social media post, educational video, and Free Dumpster Maintenance and Waste Materials Checklist

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

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

We created a Best Practices Checklist for Proper Management of Waste Materials and Dumpsters. This downloadable file was posted on a WaterSmart website page with 63 views. We created an educational video that was posted on our website and our Facebook page. It was also posted on 9 South Shore business and industry Facebook groups, with a combined reach of 10,600+. It was also run on the Positively Scituate Business and Scituate Supports Small Business Facebook pages. A \$50 ad targeted to Scituate had a reach of 3,792 people and 2,910 engagements with 2,342 thru plays.

Message Date(s): ongoing

Message Completed for: Appendix F Requirements  Appendix H Requirements

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

If yes, describe why the change was made:

**BMP:1.13 & 1.15 Parking Lot Maintenance Education**

Message Description and Distribution Method:

Parking Lot Maintenance - Web page, social media post, educational video, and Free Parking Lot Maintenance Checklist

Targeted Audience: Businesses, Institutions, Commercial Facilities & Industrial Facilities

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

We created a Best Practices Checklist for Parking Lot Maintenance. This downloadable file was posted on a WaterSmart website page with 52 views. We created an educational video that was posted on our website and our Facebook page. It was also posted on 9 South Shore business and industry Facebook groups, with a combined reach of 10,600+. It was also run on the Positively Scituate Business and Scituate Supports Small Business Facebook pages. A \$50 ad targeted to Scituate had a reach of 4,026 people and 2,801 engagements

with 2,070 thru plays.

Message Date(s): ongoing

Message Completed for: Appendix F Requirements  Appendix H Requirements

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

If yes, describe why the change was made:

**BMP:1.14 Low Impact Development Information**

Message Description and Distribution Method:

Low Impact Development Information Targeted to Developers - Reduction of impervious surfaces, use of alternatives to paving, decentralized approach to stormwater, rain gardens, swales, bioretention

Targeted Audience: Developers

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

This deliverable will be completed in the Summer of 2023. We are creating a brochure to be handed out with permits, and a poster with a QR code for all town departments who issue permits.

Message Date(s): Summer 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:

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 report is posted on the Town of Scituate Website for review and comment. An annual presentation to the select board that is open to the public and advertised is given outlining the accomplishments from the prior year and the expectations of the upcoming year.

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

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

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

#### Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

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

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

Number of SSOs identified:

Number of SSOs removed:

#### MS4 System Mapping

*Optional:* Provide additional status information regarding your map:

Mapping of the stormwater system is continuously updated with hand held GPS units

#### 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:

<https://www.scituatema.gov/department-of-public-works/pages/ms-4-permit>

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:*

**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:*

Problem and High Priority catchments to be investigated this permit year (under contract), with additional low priority investigations as possible.

**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:*

**Employee Training**

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

Webinars were attended by staff. Dissolved Phosphorus & Green Infrastructure

**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:*

Project inspections are performed by the Town Planner, Conservation Commission Agent and/or Consulting agents for both Boards and commissions. Fines are issued for repeat violations.

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

**Ordinance or Regulatory Mechanism**

Date update was completed (due in year 3): Revisions have been drafted and are being reviewed for adoption. Working with a larger stormwater advisory group.

Website of ordinance or regulatory mechanism: <https://www.scituatema.gov/planning-board/pages/stormwater-management>

**As-built Drawings**

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

Number of as-built drawings received: 6

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

Project closeout is issued by the Planning Board or Conservation Commission.

**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:

Off line meetings with the Planning Department to discuss possible changes to the subdivision guidelines.

**Green Infrastructure Report**

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

Working with Planning Department to review report and plan for updates.

**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):

A retrofit inventory was done to identify and prioritize permittee-owned properties for retrofitting. The following properties were assessed:

- 1 - Scituate Public Works/Grounds
- 2 - Scituate Town Hall
- 3 - Scituate Harbor Parking - IN EARLY PLANNING PHASE
- 4 - Scituate Library
- 5 - Conservation Park
- 6 - Cedar Point Intersection Park
- 7 - Wampatuck School - UNDER CONSTRUCTION
- 8 - Old Oaken Bucket Water Treatment Plant
- 9 - Greenbush Field
- 10 - Scituate Harbor Community Center - IN DESIGN PHASE
- 11 - Hatherly School
- 12 - Scituate Maritime Center
- 13 - Scituate Recreation Department
- 14 - Scituate Fire Department

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.

None

### 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:

Routine maintenance of all catch basins in Town is managed by the Highway Department and cleaned by a contractor. There are known and tracked areas in Town subject to coastal overwash. Catch Basins and storm piping in these areas are cleaned more frequently based upon storm overwash (typically, in the winter months).

**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:

Purchase of additional spill prevention equipment to have onsite.  
Continue to take corrective action on drain line at Transfer Station.

**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:

## 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:

Title:

Signature:

Date:

*[Signatory may be a duly authorized representative]*

A retrofit inventory was done to identify and prioritize permittee-owned properties for retrofitting. The following properties within the phosphorus-impaired Old Oaken Bucket Pond Watershed were assessed, listed in descending order of priority. The Town is reviewing these sites for implementation in the coming years as opportunities arise.

8 - Old Oaken Bucket Water Treatment Plant (FUTURE PLANNING FOR REPURPOSING)

9 - Greenbush Field

2 - Scituate Town Hall

4 - Scituate Library

13 - Scituate Recreation Department

14 - Scituate Fire Department "



Phosphorus Reduction Tracking Calculations - DRAFT

Town of Seton - 2022

Background and Assumptions

Phosphorus loading rate is based on methodology in IA MS4 Permit Appendix I

SITE INFO				BMP LOAD				PHOSPHORUS REDUCTION								
Site	Site Name	Address	Watershed	BMP Type	Drainage Area Surface Type	DA (ft <sup>2</sup> )	Impervious Area (ft <sup>2</sup> )	DA (ft <sup>2</sup> )	Impervious Area (ft <sup>2</sup> )	Method	Applicable BMP Performance Curve	Field or Assessed Infiltration Rate (in./hr)	BMP Vol. BMP Design Storage Volume (ft <sup>3</sup> )	BMP Vol. Available BMP Capacity in inches of rainfall (in)	Performance Curve R.P. Removal	Total P Load Reduction (lb/yr)
Site #	Site Name	Address	Watershed	BMP Type	Drainage Area Surface Type	DA (ft <sup>2</sup> )	Impervious Area (ft <sup>2</sup> )	DA (ft <sup>2</sup> )	Impervious Area (ft <sup>2</sup> )	Method	Applicable BMP Performance Curve	Field or Assessed Infiltration Rate (in./hr)	BMP Vol. BMP Design Storage Volume (ft <sup>3</sup> )	BMP Vol. Available BMP Capacity in inches of rainfall (in)	Performance Curve R.P. Removal	Total P Load Reduction (lb/yr)
BMP-001	Public Safety Bldg - Infiltration Basin	800 Shaw Crossing Highway	Old Oakton Bucket Pond	Perforated Pipe	Parking	1,022	0	1,022	0	2	Subgrade Infiltration	0.24	0.00	0.24	0.24	0.24
BMP-002	Public Safety Bldg - Constructed Wetland	800 Shaw Crossing Highway	Old Oakton Bucket Pond	Shallow Wetland	Parking	520	0	520	0	2	Shallow Wetland	0.27	0.00	0.27	0.27	0.27
BMP-003	Public Safety Bldg - Constructed Wetland	800 Shaw Crossing Highway	Old Oakton Bucket Pond	Shallow Wetland	Parking	1,022	0	1,022	0	2	Shallow Wetland	0.27	0.00	0.27	0.27	0.27
BMP-016	Coronal Way - Wet Swale	2179 Williamsburg Lane	Old Oakton Bucket Pond	Wet Swale	Road	1,022	0	1,022	0	2	Wet Swale	0.27	0.00	0.27	0.27	0.27
BMP-017	Backhoe - Wet Swale	2179 Williamsburg Lane	Old Oakton Bucket Pond	Wet Swale	Road	1,022	0	1,022	0	2	Wet Swale	0.27	0.00	0.27	0.27	0.27
BMP-018	Stevens Road - Leaching Catch Basin	25 Stevens Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-019	High School - Dry Swale	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Dry Swale	Road	1,022	0	1,022	0	2	Dry Swale	0.27	0.00	0.27	0.27	0.27
BMP-020	High School - Dry Swale	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Dry Swale	Road	1,022	0	1,022	0	2	Dry Swale	0.27	0.00	0.27	0.27	0.27
BMP-021	High School - Infiltration Basin	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Infiltration Basin	Parking	1,022	0	1,022	0	2	Infiltration Basin	0.27	0.00	0.27	0.27	0.27
BMP-022	High School - Dry Swale	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Dry Swale	Parking	1,022	0	1,022	0	2	Dry Swale	0.27	0.00	0.27	0.27	0.27
BMP-023	High School - Dry Swale	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Dry Swale	Parking	1,022	0	1,022	0	2	Dry Swale	0.27	0.00	0.27	0.27	0.27
BMP-024	High School - Dry Swale	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Dry Swale	Parking	1,022	0	1,022	0	2	Dry Swale	0.27	0.00	0.27	0.27	0.27
BMP-025	High School - Dry Swale	506 Chief Justice Curing Highway	Old Oakton Bucket Pond	Dry Swale	Parking	1,022	0	1,022	0	2	Dry Swale	0.27	0.00	0.27	0.27	0.27
BMP-026	County Way - Perforated Pipe	248 County Way	Old Oakton Bucket Pond	Perforated Pipe	Road	1,022	0	1,022	0	2	Perforated Pipe	0.27	0.00	0.27	0.27	0.27
BMP-027	Old Forge Road - Leaching Catch Basin	21 Old Forge Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-028	Old Forge Road - Leaching Catch Basin	21 Old Forge Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-029	Old Forge Road - Leaching Catch Basin	21 Old Forge Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-030	Stevens Road - Leaching Catch Basin	25 Stevens Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-031	Culverthorn Road - Leaching Catch Basin (1)	2 Culverthorn Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-032	Culverthorn Road - Leaching Catch Basin (2)	2 Culverthorn Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-033	Elm Street - Leaching Catch Basin (1)	144 Elm Street	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-034	Elm Street - Leaching Catch Basin (2)	144 Elm Street	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-035	Culverthorn Road - Leaching Catch Basin (1)	2 Culverthorn Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-036	Culverthorn Road - Leaching Catch Basin (2)	2 Culverthorn Road	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-037	Madison Lane - Leaching Catch Basin	Intersection of Elm and Madison Lane	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
BMP-038	Madison Lane - Leaching Catch Basin	Intersection of Dundas CT and Madison Lane	Old Oakton Bucket Pond	Leaching Catch Basin	Road	1,022	0	1,022	0	2	Leaching Catch Basin	0.27	0.00	0.27	0.27	0.27
<b>TOTAL</b>																

11.61