

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

BMPs at all town-owned facilities scheduled for inspection and maintenance in September 2023.
See more in the boxes at the end of this section about catch basins.

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:

Approximately 1600 notices regarding the importance of clearing dog waste appropriately were sent out with dog license renewal and new dog notices during Year 5.
DPW narrowed down properties not being billed for sewer treatment through letters and dye testing, leaving less than 30 properties thought to still be on septic.

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:

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

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

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 11.76

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:

BMPs at all town-owned facilities are scheduled for inspection and maintenance in September 2023. See more in the next box about modifying the municipal structure cleaning plan.

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

A Contractor cleaned approx. 2900 catch basins using a clamshell in the fall of 2022. DPW/Engineering has

devised a dashboard to record and display cleaning statistics. In-house cleaning continues on an ongoing basis. Observations including depth of sediment and status of the structures will be used to adjust the Catch basin Cleaning Plan such that they are no more than 50% full at any time.

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:

Vine Brook (MA83-06 in Burlington) now impaired for DO and TSS and not for Fecal coliform.

Long Meadow Brook (MA83-11 In Burlington) now has a TMDL for E. coli.

Sandy Brook (MA83-13 in Burlington) now has a TMDL for E.coli.

Lubbers Brook (MA92-05 outside Burlington) now impaired for E. Coli and DO but not for non-native plants or siltation

Ipswich River (MA92-06 outside Burlington) now impaired for DO.

Maple Meadow Brook (MA92-04 outside Burlington) now impaired for DO.

The Mystic River Watershed, which extends into the southeastern portion of the Town of Burlington, received an Alternative TMDL for Phosphorus in 2020. Burlington was already listed as a municipality that discharges to waterbodies that are impaired due to phosphorus, or their tributaries.

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: Salt/de-icing use and storage (1-B)

Message Description and Distribution Method:

Original goal: Develop & distribute salt/de-icing materials use & information.

Year 5: Distributed clean water tip about skipping salt and using de-icer prudently.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Social media posts on Burlington Conservation Facebook about shoveling, pre-treating and minimizing chlorides garnered 6 shares, 7 likes, 769 impressions, 647 reached] and on Burlington Conservation Twitter(X) got 15 engagements and 445 impressions.

MyRWA social media posts on behalf of Burlington and other coalition member communities: chloride monitoring on 11/10/22 reached 76 with 85 impressions; shovel and low-chloride treatment post on 12/9/22 reached 276 with 305 impressions; another on 12/21/22 reached 97 with 103 impressions; another on 1/29/23 reached 329 with 347 impressions; a repeat on 2/23/23 reached 2401 with 2555 impressions and one on 3/14/23 reached 119 with 128 impressions. Tweet about chloride monitoring on 11.09.22 got 132 impressions with 15 engagements; tweet about de-icing on 12/23/22 got 134 impressions; another on 1/30/23 got 834 impressions with 33 engagements; another on 02/23/23 got 354 impressions

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: Sediment & erosion control practices and permitting information (1-C)

Message Description and Distribution Method:

Original goal: Develop and distribute sediment and erosion control practices and permitting information. Disseminate to developers/contractors, including licensed utility contractors. Post information on all Town Permitting webpages.

Year 5: Held Open Hearing for proposed changes to Stormwater (FKA Erosion and Sedimentation Control) Bylaw between February and July 2022.

Targeted Audience: Developers (construction) + Residents

Responsible Department/Parties: Conservation Department

Measurable Goal(s):

Residents and a few developers contributed to the discussion during the several months the Public Hearing was open.

Message Date(s): Legal notice of Hearing published 02/03/2022; hearing open February to end Permit Year 5

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:

The increased size of residences and of driveways with unmanaged stormwater was recognised as a problem after the NOI was submitted and led to a proposal to lower thresholds for a permit.

BMP:Stormwater Infiltration Program (1-E)

Message Description and Distribution Method:

Original goal: Conduct program to encourage on-site stormwater infiltration and provide general stormwater facts to the public, using website, local media, social media, Town Events.

Year 5: Rolled out a Catchbasin Adoption program in August 2022, posted on social media, posted update on Conservation pages of Town Website. Also posted separate tips on managing stormwater on own property (9/23), embracing a "golden lawn" (8/2) and reposted MyRWA's post advocating for keeping leaves out of stormdrains (10/26).

MyRWA's social media included: FB post on 12/17/22 about infiltration trenches as green infrastructure reached 117 and got 125 impressions; post about adopt-a-stormdrain prog reached 3; tweet about cb adoption on 5/24/23 got 325 impressions.

Targeted Audience: Residents

Responsible Department/Parties: Conservation Department

Measurable Goal(s):

43 catchbasins were adopted in Permit Year 5. Facebook posts regarding adoption program reached > 1018 with >1072 impressions and January tweets about adopting and clearing stormdrains got >600 impressions with 12 engagements.

Message Date(s): 08/22/22; 09/20/22; 09/26/22; 1/26/23; 6/09/23 (MyWRA post 10/26/22)

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:

Using more social media than expected in the NOI.

BMP: Waste and Dumpster Management (1-F)

Message Description and Distribution Method:

Original goal: Develop and distribute waste and dumpster management information. Include in annual mailings of Food Permits (Fall) and Hazardous Materials Storage Registrations (January).

Year 5: Facebook post about waterproofing dumpsters on your property; a video post from MyWRA about keeping trash out of waterways.

Targeted Audience: Developers (construction) + Residents

Responsible Department/Parties: Conservation Department

Measurable Goal(s):

9/9/22 Facebook post reached 459 with 554 impressions and 2 shares. Re-post of MyWRA video about stormwater and trash reached 158, with 175 impressions and 1 share; MyWRA's post reached 179 with 190 impressions.

Message Date(s): Dumpster message 09/09/22, trash video 10/11/22

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:

Message did not go out with Food Permit mailings as they are already full of other required information.

BMP: LID (1-G)

Message Description and Distribution Method:

Original goal: Conduct program to encourage on-site stormwater infiltration and provide general stormwater facts to the public, using website, local media, social media, Town Events.

Year 5: Various posts to social media regarding drought, water restrictions, raingardens, planting with natives and drought-tolerant plants, and using leaves and compost overwinter to retain water.

Targeted Audience: Residents

Responsible Department/Parties: Conservation Department

Measurable Goal(s):

Facebook post re tips on managing water on site (on 9/23/22) reached 59 and got 78 impressions; video post about replacing lawn (on 9/23/22) reached 650 and got 727 impressions; embrace golden lawn (on 8/22/22) reached 1069 and got 1164 impressions; level 3 drought post on 7/24/22 reached 1464 and got 1542 impressions (and on 7/18/22) reached 200 and got 238 impressions; stop raking post (on 10/21/22) reached

154 with 170 impressions; Post re native Plant Trust (on 10/4/22) reached 111 and got 136 impressions.

Several posts advocating for particular webinars or classes.

MyRWA posts: FB post on 12/17/22 about infiltration trenches as green infrastructure reached 117 and got 125 impressions the same info tweeted on 03/12/23 got 342 impressions; video on 3/18/23 reached 116 and got 121 impressions

Message Date(s): 7/18/22; 7/24/22; 8/22/22; 9/23/22; 10/04/22; 10/22/22

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: Dog Waste Reduction(1-I) and Dog Owner Education (I-J)

Message Description and Distribution Method:

Original goal: Post Scoop the Poop Posters; distribute a message in summer encouraging proper management of pet waste; disseminate educational material to dog owners at time of issuance of dog license or other time.

Year 5: Used social media and dog licensing to disseminate message.

Targeted Audience: Residents

Responsible Department/Parties: Clerk's office + Conservation Department

Measurable Goal(s):

1600 flyers about the risks of contaminants in dog waste and noting General Bylaw enforcement section issued by Clerk's office with dog license renewals.

Facebook posts about scooping when it rains (on 3/25/23) reached 78 people and got 91 impressions.

MyRWA social media: scoop the poop video on Facebook on 3/27/23 reached 120 with 132 impressions; similar tweet on 3/26/23 got 350 impressions

Message Date(s): 3/25/23

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:

Added social media posts.

BMP: Phosphorus Runoff Reduction- Grass (1-K) and Leaves (1-L) (inc. Pesticides & Fertilizer)

Message Description and Distribution Method:

Original goal: Distribute message in Spring re proper disposal of grass clippings and proper use of slow-release and P-free fertilizer and distribute message in Fall encouraging proper disposal of leaves.

Year 5: social media posts about grass cutting and fertilizer alternatives.

Targeted Audience: Residents

Responsible Department/Parties: Conservation Department

Measurable Goal(s):

Facebook post about leaves causing flooding or pollution (on 10/26/22) reached 38 and got 46 impressions; similar tweet (on 1/26/23) got 507 impressions and 17 engagements; post about using slow-release and non-P fertilizer (on 4/25/23) reached 253 and got 268 impressions; tweet about overwintering yard with leaves and compost (on 10/26/22) got 169 impressions and 5 engagements; post about bagging and composting leaves (on 5/31/23) reached 61 and got 83 impressions.

MyRWA's FB post about clearing leaves from stormdrains on 10/28/22 reached 67 and got 69 impressions; FB post leaves off street on 11/13/22 reached 125 with 140 impressions; video post about grass clippings on 6/17/23 got 348 engagements. Tweet about leaves in the street on 10/26/22 got 302 impressions with 19 engagements, repeat on 11/12/22 got 297 impressions and 12 engagements. Tweet about slow-release P on 5/20/23 got 241 impressions; tweet about grass clippings on 6/16/23 got 107 impressions.

Message Date(s): 10/26/22; 1/26/23; 4/25/23; 5/31/23

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:

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:**

Social Media post "Did you know Burlington has a Stormwater Management Plan" in July 2022. One resident called with questions and asked for a printed copy.

The Stormwater Management Plan (SWMP) is posted in the stormwater management page (here: <https://www.burlington.org/329/Stormwater-Management-Program>), which is linked from both the Conservation and DPW pages and available to anyone who can view the town website. The Stormwater Management page had 64 page views in this permit year.

All documentation required in the SWMP, including all brochures produced for public education and outreach, the IDDE Plan and training materials, and all Operations and Maintenance Procedures and Standard Operating Procedures required for the Good Housekeeping MCM are available on the Stormwater Management Page.

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 Board of Health ran 2 Hazardous Waste Drives in Permit Year 5. Between the two events we received household hazardous waste from 916 cars. Items collected included batteries, fluorescent light bulbs, oil-based paint, pesticides, pool chemicals, propane tanks and solvents.

Conservation amended the Stormwater Bylaw to lower thresholds under which a permit is required, designating NOAA14+ rainfall data for design and requiring engineered plans for more projects. This process was open to the public through an open hearing process over multiple meetings and feedback was incorporated in the final document.

The amended Bylaw was voted upon by Town Meeting in September 2022 and approved by the Attorney General's Office in December 2022.

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:

MS4 system mapping is about 95% complete.

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:

Burlington has approximately 340 outfalls, almost all of which were located, inspected for condition and flow in the summers of 2017 and 2018. A handful were either not located or were found some way off from the expected location and the records were updated to reflect field truthing.

In the summers of 2018, 2019, 2020 and 2021 all of the outfalls that had been observed to have flow at any time were targeted for dry weather sampling. In that time, only approximately 39 outfalls had flow during dry weather conditions when visited, each of which one was sampled, some repeatedly.

Town-wide catchment investigations began in August 2023 and included revisiting some catchments with slightly higher test results. These results will be reported in a future Annual Report.

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:

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:**

Five DPW Engineering staff, two Conservation staff, the Town administrator and Assistant Town Administrator took part in a presentation and workshop summarizing permit-related work to date and determining scheduling and financing of remaining items on February 8, 2023.

IDDE and Good Housekeeping presentation by the MS4 Coordinator to 13 Parks and Rec Maintenance Staff in June 2023.

MS4 Coordinator attended the EPA Soak up the Rain Webinar on Dissolved Phosphorus and Green Infrastructure in September 2022. Also completed 4 of 5 classes required for the UNH Certificate in Stormwater Management.

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:

180+ inspections by town staff on 29 properties with Stormwater/Erosion Control permits; 135 inspection reports received from outside Inspectors at commercial properties with Stormwater/Erosion control Permits. 130+ inspections were on 40 properties with wetland permits.

There were very few (<5) instances of either complaints from neighbors or direct observations of erosion controls being overtopped or missing or contractors directing site water into catchbasins that led to a request

that the issue be addressed immediately; it usually was.

The Board of Health responded to 14 stormwater-related complaints (mostly sump pump or grade change) (One wetland enforcement order was issued in January 2023.)

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): Aug 2021; and again in Sept 2022

Website of ordinance or regulatory mechanism:

https://www.burlington.org/DocumentCenter/View/9421/Stormwater-Bylaw-Update-Article-XIV-Section-6_Aproved-by-AG?bidId=

As-built Drawings

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

Number of as-built drawings received: 2

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

With the latest update to the Stormwater Bylaw as-built plans will now be required for any project that requires a stamped plan for a permit. Prior to this we received as-built plans for projects issued an Order of Conditions or a Standard Stormwater Permit (for larger projects).

The Board of Health now requires a BOH Stormwater & Run-off Management form to be submitted for new residential houses prior to sign-off on the Certificate of Occupancy.

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:

The Conservation Commission and staff amended the Stormwater Bylaw again to reduce thresholds with an aim to manage stormwater from new impervious surfaces.

The Conservation Commission also opened a hearing in May of permit Year 5 to consider changes to the Wetlands Bylaw to include climate change and climate resiliency in the interests. This will allow future changes to be made to the Wetlands Regulations as outlined in the Street Design and Parking Lots Report.

While there was not time to effect many changes to Zoning Regulations in Year 5, a warrant article to increase shared parking will be considered in the September 2023 Town Meeting. Open Space Residential Development is likely to be reviewed soon. Since there is little space left for subdivision development, an overhaul of those Rules was deprioritized.

Green Infrastructure Report

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

No specific changes were identified in order to allow green infrastructure. As stated above, the Conservation Commission also opened a hearing in May of permit Year 5 to consider changes to the Wetlands Bylaw to include climate change and climate resiliency in the interests. This will allow future changes to be made to the Wetlands Regulations to strengthen green infrastructure implementation.

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):

The Town of Burlington has identified the following 5 properties likely to be prioritized for modification or retrofitting:

Simonds Park, 10 Bedford Street

Town Hall Complex, 21-29 Center Street

Francis Wyman Elementary School, 41 Terrace Hall Avenue

Pine Glen Elementary School

TRW Playground, 26 Burlington Mall Road

Simonds Park has been chosen as a demonstration project site, to be retrofitted in 2024.

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.

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: 31,758 cubic feet

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

Total number of catch basins: 2,903

If applicable:

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

Since the reporting in the previous cleaning contract was deemed to be unreliable, another Contractor was hired to clean every catch basin across the Town in Permit Year 5. DPW/Engineering created a dashboard to display the cleaning status. While Town staff are aware of basins that fill faster at the bottom of slopes, the new dashboard will assist in highlighting others to be targeted for more frequent cleaning. In Permit Year 5, approx 12 structures could not be opened and another 8 were filled with concrete blocks or asphalt that were difficult to fully remove. More than 30" of sediment was removed from each of 34 basins. The vast majority, >2,000, contained less than 12" of sediment.

Street Sweeping

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

☒ Number of miles cleaned: 400

☐ 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:

No corrective actions needed.

SWPPPs are being produced for new Municipal (DPW/Recreation Dept) Facilities at 1 and 10 Great Meadow Road. The Inspections of those facilities will be included in subsequent annual reports.

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:

Construction completed of a new DPW garage at 1-3 Great Meadow Road with deep-sump catch basins, stormceptors and infiltration units on a site that previously had no stormwater management. Unfortunately, contamination concerns meant infiltration could not be used on much of the site.

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:

Catchment investigations will continue in Year 6.
The first planned retrofit will be installed at Simonds Park.

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:

Paul F. Sagarino Jr.

Title:

Town Administrator

Signature:

Paul F. Sagarino Jr.

Date:

9/27/2023

[Signatory may be a duly authorized representative]