

**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)**

Bacteria/Pathogens     
  Chloride     
  Nitrogen     
  Phosphorus  
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

**TMDL(s)**

*In State:*     
  Assabet River Phosphorus     
  Bacteria and Pathogen     
  Cape Cod Nitrogen  
 Charles River Watershed Phosphorus     
  Lake and Pond Phosphorus

*Out of State:*     
  Bacteria/Pathogens     
  Metals     
  Nitrogen     
  Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

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:

Updates to the SWMP began during Permit Year 5 and are currently ongoing. The updated SWMP will be posted for public comment in Permit Year 6.

The Town does not currently have any municipal sites with SWPPPs in place. The DPW Facility is currently under construction, but a SWPPP will be developed for that facility during Permit Year 6 once construction is complete.

BMP inspections were last performed on June 22, 2022 during Permit Year 4. The Town is planning to complete BMP inspections in early Fall 2023 during Permit Year 6.

### **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:

On the Town's website where information is posted regarding dog license renewals, the Town references Town Bylaw Title VIII, Article 2, Section 3, which states that "it is the duty of any person controlling a dog to remove and properly dispose of waste left by that dog on the sidewalk, street or any other public land." The Town's website goes on to state that when walking your pet, always remember a bag for pet waste! Individuals failing to clean up after their pet may be fined \$75 for their first offense, with each offense resulting in an increasing fine. Additionally, the Town maintains a link to an educational guide provided by the state on management of pet waste and stormwater.

As specific parcels are sold or significant changes occur on selected parcels currently served by septic systems, these parcels are required to connect to the Town's sewer system. During Permit Year 6, there were

16 mailings that were sent out to properties assumed to be served by septic systems. The Town received responses from over half of the mailings indicating that they are no longer on septic. The Town is currently working to confirm which of the remaining houses are still served by septic systems.

## Chloride

### Annual Requirements

#### *Public Education and Outreach*

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

The following type(s) of salt were applied **during this reporting period (year 5)**:

- Sodium chloride
- Calcium chloride
- Potassium chloride
- Magnesium chloride
- Brine solution

Total amount of salt applied **during this reporting period (year 5) including units:** 6212.7 tons

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

The chloride impairment for Alewife Brook was a newly identified impairment in Permit Year 4, as it is included on the Final Massachusetts Integrated List of Waters for the 2018/2020 Reporting Cycle, which was approved by EPA in February 2022. As such, the Town plans to develop the required Chloride Reduction Plan by February 2025, which is within the 3-year period allotted for plan development under the permit. As part of plan development, the Town will develop educational materials for distribution.

## 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:

*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:

Phase 2 of the Town's Phosphorus Source Identification Report is currently being drafted and will be completed during Permit Year 6. This plan will evaluate BMP retrofit opportunities identified in the initial PSIR, their engineering and regulatory feasibility for installation and the associated costs. It will also provide a plan and schedule for implementation for infrastructure/sites deemed feasible for BMP retrofit. The Town continued to install infiltration trenches town-wide in Permit Year 6 to aid in phosphorus removal.

The estimated phosphorus removal associated with existing structural BMPs installed town-wide has been calculated for some municipal stormwater treatment structures in town, and the information is attached to the e-mail submission with this report, where available, and includes the BMP type, total area treated, design storage volume, and the estimated phosphorus removed in mass per year. However, the Town is still working to refine this information and expand this analysis.

### **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.arlingtonma.gov/departments/public-works/highway/street-sweeping>

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

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

The Town has a comprehensive and aggressive street sweeping program that includes sweeping public streets and private ways at least twice per year. In addition, a number of streets and municipal parking lots are targeted for weekly sweeping during fall and spring sweeping operations.

The Town is still actively working to develop their Catch Basin Cleaning Optimization Plan, and as part of that plan will be prioritizing cleaning in areas tributary to received waters with solids and metals impairments.

**Charles River Watershed Phosphorus TMDL**

- Completed the written Phase 1 Phosphorus Control Plan (PCP), including: *(select the items in the Phase 1 PCP that have been completed)*
  - Planned nonstructural controls
  - Planned structural controls
  - O&M program for structural controls
  - Implementation schedule
  - Cost of implementation

The Phase 1 PCP: *(select one of the following options)*

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

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

Baseline phosphorus export reduction required from PCP Area, as identified in Appendix F **(lbs/year) [A]**: 150

- Documented the nonstructural control measures implemented during **this reporting period** and their phosphorus reduction

total phosphorus reduction from all nonstructural controls this reporting period **(lbs/year) [B]**:

- No nonstructural control measures were implemented
- The above referenced nonstructural control measures information is attached to the email submission

- The above referenced nonstructural control measures information can be found at the following publicly available website:

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

total phosphorus reduction from all structural controls installed this reporting period and all previous years (**lbs/year**) [C]:

- No structural control measures were implemented
- The structural control measures information is attached to the email submission
- The structural control measures information can be found at the following publicly available website:

Phosphorus load increase due to development incurred since 2005 in **lbs/year** [D]:

Current phosphorus export rate from the PCP Area in **lbs/year** [=A-(B+C)+D from above]:

- I certify under penalty of law that all source control and treatment Best Management Practices being claimed for phosphorus reduction credit have been inspected, maintained and repaired in accordance
- with manufacturer or design specification. I certify that, to the best of my knowledge, all Best Management Practices being claimed for a phosphorus reduction credit are performing as originally designed.
  - All municipally owned and maintained turf grass areas are being managed in accordance with Massachusetts Regulation 331 CMR 31 pertaining to proper use of fertilizers on turf grasses

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

The Phase 1 PCP is currently being drafted and will be completed during Permit Year 6. As the Town was developing the PCP, it was determined that drainage infrastructure within the Charles River Watershed area discharges via state drainage on Rt. 2 to Spy Pond. Spy Pond is tributary to the Mystic River. Any water quality improvements in the Charles River Watershed, as they relate to the existing drainage infrastructure, would not enhance the water quality of the Charles River. The Town is currently planning to reach out to EPA to discuss this finding further and next steps with regards to development of the Charles River Phase 1 PCP.

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

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



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



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

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

- Yes  
 No

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

The Town has made changes to their list of outfalls, receiving waters and impairments since the NOI was originally submitted. These changes are a result of mapping updates made during outfall inspections and catchment investigations, and are documented in the Town's SWMP. The chloride impairment for Alewife Brook was a newly identified impairment in Permit Year 4, as it was included on the Final Massachusetts Integrated List of Waters for the 2018/2020 Reporting Cycle, which was approved by EPA in February 2022. For the 2022 Reporting Cycle, harmful algal blooms was listed as a new impairment for Hills Pond based on new assessment data available, although it does not impact the Town's compliance obligations under the 2016 MS4 Permit. This impairment is not caused by a pollutant and therefore a TMDL is not required.

## 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: 1-1: Educational Information on the Town's Website - Leaf Litter**

Message Description and Distribution Method:

The Town posted educational information regarding leaf litter and its impacts on stormwater quality on the Town's website.

<https://www.arlingtonma.gov/home/showpublisheddocument/47191/637126977423800000>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

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: 1-2: Stormwater Awareness Series**

Message Description and Distribution Method:

The Town of Arlington hosted a total of 18 different stormwater management sessions educating all audiences on green infrastructure, stormwater pollution and the role every one plays in mitigating stormwater pollution. These 18 sessions are all video links and were posted to the Town's website between April 17, 2012 to October 13, 2015.

<https://www.arlingtonma.gov/departments/public-works/engineering/stormwater-information/stormwater-awareness-series>

Targeted Audience:

Responsible Department/Parties: Conservation Committee

Measurable Goal(s):

These videos remained on the Town's website during Permit Year 5 so they could be readily accessed by the general public.

Message Date(s): 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:

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**BMP: Educational Information on the Town's Website - Stormwater Proof your Dumpsters**

Message Description and Distribution Method:

The Town posted educational material to educate business on proper techniques to minimizing stormwater pollution from dumpsters.

Targeted Audience: Businesses, Institutions and Commercial Facilities; Developers

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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**BMP: Educational Information on the Town's Website - Protecting your Lakes**

Message Description and Distribution Method:

The Town posted a link on their website providing information from Mass.gov on protecting your lake from nonpoint source pollution. The link provides background on water quality, and impacts stormwater runoff can have on the quality of water.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

**BMP: Educational Information on the Town's Website - Nonpoint Source Pollution**

Message Description and Distribution Method:

The Town posted a link on their website providing information from Mass.gov on nonpoint source pollution. The link provides information on nonpoint source pollution, pollutants and additional resources.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

**BMP: Educational Information on the Town's Website - Soak Up the Rain**

Message Description and Distribution Method:

The Town posted a link on their website providing information to the EPA's Soak up the Rain website. This link provides information on tools, various LID practices, problems and benefits.

Targeted Audience: Developers (Construction), Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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### **BMP: Educational Information on the Town's Website - Rain Gardens**

Message Description and Distribution Method:

The Town posted a link on their website providing information on the University of Nebraska-Lincoln Rain Garden Design Guide website.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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### **BMP: Educational Information on the Town's Website - Urban Waters**

Message Description and Distribution Method:

The Town posted a link to the EPA's Urban Waters - The Mystic River Watershed web page. The web page highlights information about the Mystic River Watershed as well as environmental challenges and initiatives within the watershed.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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**BMP: Educational Information on the Town's Website - Stormwater Pollution Prevention**

Message Description and Distribution Method:

A brochure has been posted by the Town that provides educational material on stormwater pollution prevention targets at residential construction. The message highlights 10 tips to help prevent pollution in stormwater runoff.

<https://www.arlingtonma.gov/home/showpublisheddocument/63642/638095520537470000>

Targeted Audience: Developers (Construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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**BMP: Educational Information on the Town's Website - Stormwater Pollution Prevention**

Message Description and Distribution Method:

The Town posted a flyer on their website "Plan Ahead to Prevent Pollution" This contains tips to reduce stormwater runoff during construction.

<https://www.arlingtonma.gov/home/showpublisheddocument/58795/637727468648630000>

Targeted Audience: Developers (Construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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**BMP: Educational Information on the Town's Website - Do your Part**

Message Description and Distribution Method:

The Town has posted an educational message outlining 5 activities residents can do to minimize their impact on stormwater quality. The tips contain information about cleaning up dog waste, using rain barrels, soil testing for fertilizer, composting and leaf litter.

<https://www.arlingtonma.gov/home/showpublisheddocument/47191/637126977423800000>

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 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:

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**BMP: Mailer - Septic Smart Flyer**

Message Description and Distribution Method:

The Town distributed 16 letters and flyers to residents believed to be on septic systems. The flyer contains information on how to keep your septic system in working order with proper maintenance.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The mailer was sent to 16 residents.



Message Date(s): June 28, 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:Clean Water Tip - Grass Clippings**

Message Description and Distribution Method:

This post was associated with a series of "Clean Water Tips" outlining different household pollutants, their impacts on water quality and proper usage. The Town posted an informational pamphlet on their website discussing how to properly dispose of grass clippings and their potential impact on stormwater quality. This is posted during summer months.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 7/1/22 - 8/31/22 & 6/28/23 - 8/31/23

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:

### **BMP:Clean Water Tip -Fertilizer**

Message Description and Distribution Method:

The Town posted a "Clean Water Tip" prompting residents and landscapers to use less fertilizers on their properties. This post was associated with a series of "Clean water Tips" outlining different household pollutants, their impacts on water quality and proper usage.

Targeted Audience: Residents, Landscapers

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 7/1/22-7/15/2022

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:Clean Water Tip - Scoop the Poop!**

Message Description and Distribution Method:

The Town posted a "Clean Water Tip" prompting residents to pick up after their dog and properly dispose of it. This post was associated with a series of "Clean water Tips" outlining different house hold pollutants, their impacts to water quality and proper usage. This is posted annually.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 7/1/2022 - 9/15/2022 & 4/5/2023 - 5/31/2023

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:Clean Water Tip - Bag your Leaves**

Message Description and Distribution Method:

The Town posted a "Clean Water Tip" prompting residents to bag their leaves for proper disposal on their properties. This post was associated with a series of "Clean water Tips" outlining different household pollutants, their impacts to water quality and proper usage.

Targeted Audience: Residents, Landscapers

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 11/8/2022 - 12/15/2022

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: Clean Water Tip - Use De-Icer Smartly and Sparingly**

Message Description and Distribution Method:

The Town posted a "Clean Water Tip" prompting residents to use de-icers properly and sparingly. The post gave helpful tips on application time and amount. This post was associated with a series of "Clean water Tips" outlining different household pollutants, their impacts to water quality and proper usage.

Targeted Audience: Businesses, Institutions and Commercial Facilities, Residents, Landscapers

Responsible Department/Parties: Engineering

Measurable Goal(s):

The Town posted a message on their website in an effort to reach a broader audience.

Message Date(s): 1/17/2023 - 3/31/2023

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: E-mail - Landscape Contractors**

Message Description and Distribution Method:

The Mystic River Watershed Association distributed information to landscape contractors via e-mail on fertilizer use to raise awareness about phosphorus in fertilizer and ask companies to sign a no-phosphorus pledge.

Targeted Audience: Landscape Contractors

Responsible Department/Parties: Engineering

Measurable Goal(s):

E-mails were sent to at least 35 landscapers, and one company signed the pledge.

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:

## MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

The Town's SWMP was maintained on the Town's website during Permit Year 5, and available for public review and comment. In addition, the Town's Year 1, 2, 3 & 4 Annual Reports were also available on the Town's website.

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:**

Like in previous permit years, Arlington continued to participate in the Mystic River Watershed Collaborative, which ran an educational advertising campaign through ThinkBlue Massachusetts. Facebook and Instagram sponsored videos and YouTube pre-roll ads were used to help viewers visualize how trash, pet waste, and motor oil become stormwater pollution. This video was also distributed in Spanish. There is no data on number of views for each ad for this permit year. The ad campaign was followed by a survey of residents in all targeted communities-- those who remembered seeing the ad were more likely to know that stormwater pollution ends up in local waterways and more likely to consider polluted runoff a serious environmental threat.

Arlington also participated in several watershed volunteer groups, including: Friends of Spy Pond Park, Friends of Menotomy Rocks Park, and the Arlington River Committee. The main goals of these volunteer groups is to build community participation in maintaining the natural landscape and enhance water quality in the respective receiving waters. These groups host recurring meetings (open to the public) where various water health parameters are discussed. They also organize several volunteer events to foster more public interaction and appreciation for these waters, including but not limited to: hosting volunteer vegetation clean-up and reseeding events, Girl Scout participation in the creation of signs for the parks/paths, and bringing in researchers to collect basic water quality data to aid in decision-making.

The Town coordinates with Lexington Massachusetts to hold a monthly event from April through November located at the Lexington Minuteman Hazardous Material Facility. Information for the household hazardous

waste days can be found here on the Town's website: <https://www.arlingtonma.gov/departments/public-works/recycling-trash-composting/household-hazardous-waste>

The Town runs an Adopt-A-Drain program in Town, which encourages residents to adopt-a-drain near their homes with the intent that the residents will clear any debris from the grate prior to a storm event. During this permit term, 9 people signed up to adopt a drain, and to date 8 drains have been adopted and maintained by residents. The program website can be found here: <https://www.arlingtonma.gov/Home/Components/News/News/10732/3976?arch=1>

Spy Pond Trails day, held on May 13, 2023 brought together over 80 people to help clean and enhance Spy Pond. Volunteers planted 25 new dogwoods to control erosion, beat back invasive plants, collected 10 bags of trash and pruned vistas and access stairs along Rt. 2. Collaboration between MassDOT, The Arlington Land Trust, The Appalachian Mountain Club, and the Town of Arlington made this a successful event.

The Town of Arlington held a Stormwater Summit organized by the Department of Planning and Community Development and Department of Public Works, Engineering Division. The summit aimed at discussing Arlington's stormwater management efforts. Weston & Sampson, Town Staff, Mystic River Watershed association and volunteer groups all shared their experiences with stormwater management and their best practices. There were 11 people were in attendance.

### **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:*

Arlington completed its Phase I map as required during Permit Year 2, and already has developed a comprehensive drainage map that meets Phase II mapping requirements of the MS4 Permit as well. Arlington continued to update its MS4 map as necessary during Permit Year 5 as a result of ongoing field investigations. MS4 mapping is updated as any unmapped or incorrectly mapped stormwater infrastructure is encountered in the field. MS4 mapping is also updated as a result of new development and redevelopment work.

#### **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:*

All of the Town's regulated outfalls under municipal jurisdiction were screened during Permit Year 3 under dry weather conditions. The Town screened and sampled 9 outfalls during wet weather during Permit Year 6.

### **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:*

Per the permit, the Town is only reporting that catchment investigations are complete in catchments where outfalls/interconnections have been screened during dry weather, where key junction manholes in these catchments have been screened, and where wet weather sampling has been completed, and where all results indicate no evidence of likely sewer input based on field observations and sampling. Most outfalls in Arlington have at least one System Vulnerability Factor, therefore wet weather outfall/interconnection sampling must be conducted for catchment investigations to be considered complete. Sampling data for all catchments investigated during the reporting period, including those where wet weather sampling has not yet been completed, is attached to this email submission. There were 85 catchments investigated during Permit Year 5.

### **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:

This illicit connection referenced above was removed during Permit Year 4.

**Employee Training**

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

IDDE and Good Housekeeping/Pollution Prevention training was conducted for municipal employees on June 23, 2023, with 10 employees in attendance.

**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:

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

#### **Ordinance or Regulatory Mechanism**

Date update was completed (due in year 3):

Stormwater Management Bylaw updates were approved at Town Meeting on April 26, 2021. Accompanying Stormwater Rules & Regulations were effective as of April 8, 2022.

Website of ordinance or regulatory mechanism:

Stormwater Management Standards: <https://www.arlingtonma.gov/home/showpublisheddocument/60609/637850108162870000>

Stormwater Management Rules & Regulations: <https://www.arlingtonma.gov/home/showpublisheddocument/60607/637850100075470000>

#### **As-built Drawings**

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

Number of as-built drawings received:

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

#### **Street Design and Parking Lots Report**

Below, describe any changes made or planned to be made to local regulations and guidelines based on the report completed in Year 4:

During Permit Year 4, the Town developed their Street Design and Parking Lot Report, which assessed current street design and parking lot guidelines and other local requirements that affect the creation of

impervious cover. Regulatory mechanisms were reviewed to determine if changes to existing design standards could be made to support low impact design options and, where appropriate, proposed recommendations to incorporate policies and standards to minimize impervious cover in parking areas and street designs. The Town will be revisiting these recommendations during Permit Year 6 in an effort to make updates to local regulations, where feasible.

### **Green Infrastructure Report**

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

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

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

The Town will be revisiting these recommendations during Permit Year 6 in an effort to make updates to local regulations, where feasible.

### **Retrofit Properties Inventory**

Below, list remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (must maintain a minimum of 5 sites in inventory until less than 5 sites remain):

Site #1: Department of Public Works Facility (51 Grove Street)  
 Site #2: Arlington High School (869 Massachusetts Avenue)  
 Site #3: Cooke's Hollow  
 Site #4: Meadowbrook Park  
 Site #5: North Union Playground  
 Site #6: Bishop School Field  
 Site #7: Spring Valley Street  
 Site #8: Herbert Street at Magnolia Street Playground & Field  
 Site #9: Lewis Avenue, Phillips Street & Franklin Street Intersection  
 Site #10: Infiltration Trenches - Various Sites

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:

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:

There were no catch basins inspected or cleaned during Permit Year 5 due to the expiration of the Catch Basin Cleaning Contract before anticipated Fall 2022 cleaning. The contract had to be rebid, delaying the catch basin cleaning work. The scheduled "Spring 2023" cleaning occurred after July 1, 2023, once the new 3 year contract became effective. As such, Permit Year 6 will mostly likely have 3 rounds of cleaning.

### **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:

Weight of material removed:

### **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:

The Town's DPW Facility is currently under construction and a SWPPP will be developed for this facility once construction is complete during Permit Year 6. Arlington will begin quarterly site inspections once a SWPPP is developed during Permit Year 6.

## **Additional Information**

### **Monitoring or Study Results**

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

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

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

### **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.

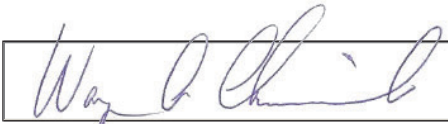
Name:

Wayne A. Chouinard, PE

Title:

Town Engineer

Signature:



Date:

Sept. 28, 2023

*[Signatory may be a duly authorized representative]*