

Year 6 Annual Report

Massachusetts Small MS4 General Permit

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

****Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are to publicly accessible sites****

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2023 and June 30, 2024 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

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

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

Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 - This is not applicable because we do not have sanitary sewer
 - This is not applicable because we did not find any new SSOs
 - The updated SSO inventory is attached to the email submission
 - The updated SSO inventory can be found at the following publicly available website:

- Updated system map due in year 10 with information from completed catchment investigations
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

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

During Permit Year 6, construction of the Town's new DPW Facility was ongoing. The Town began development of the SWPPP for this facility during Permit Year 6. The SWPPP will be completed, and implementation of the SWPPP will begin during Permit Year 7.

Although the Town was not able to inspect all permittee-owned treatment structures during Permit Year 6, the Town was able to inspect and maintain seven (7) rain gardens/green swales as well as inspect and vacuum all porous surfaces.

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 states 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.

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 5 on 6/28/23, 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

still working to confirm which of the remaining houses are still served by septic systems. The Town did not send a mailer out during Permit Year 6. The Town will send a "Septic Smart" flyer to septic system owners during Permit Year 7.

Chloride

Annual Requirements

Public Education and Outreach

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

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

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

Total amount of salt applied **during this reporting period (year 6) including units:** 3366.9

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. The Town began development of their Chloride Reduction Plan during Permit Year 6. The Town plans to complete development of 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. The Town will move forward with plan implementation in future permit years after plan development is complete.

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

- Installed a structural BMP as a demonstration project within the drainage area of the water quality limited water or its tributaries. The type of BMP installed is (*e.g. biofiltration*):

Infiltration Trenches at numerous locations within the paved right of way - Installed During PY5

- 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: 36.939

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 was completed during Permit Year 6. This plan evaluated BMP retrofit opportunities identified in the initial PSIR, their engineering and regulatory feasibility for installation and the associated costs. It also provides a plan and schedule for implementation for infrastructure/sites deemed feasible for BMP retrofit. The Town did not install any infiltration trenches during Permit Year 6. However, the Town did work on the design of additional infiltration trenches during Permit Year 6 town-wide to aid in phosphorus removal that will be installed during Permit Year 7.

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. For infiltration trenches constructed during Permit Year 7, this information will be added during Permit Year 7.

Solids, Oil and Grease (Hydrocarbons), or MetalsAnnual 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 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. Currently the Town has a cleaning frequency established for 75% of their catch basins. The Town will develop a cleaning frequency for the remaining 25% during Permit Year 7. As part of that plan, catch basin cleaning is being prioritized in areas tributary to received waters with solids and metals impairments.

Charles River Watershed Phosphorus TMDL

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 rate from PCP Area, as identified in Appendix F (lbs/year) [A]: 169

Total phosphorus reduction from all nonstructural controls implemented **this reporting period** (lbs/year) [B]: 7.87

Total phosphorus reduction from all structural controls installed this reporting period and all previous years (lbs/year) [C]: 2.91

Phosphorus load increase due to development incurred since 2005 in lbs/year [D]: 0

Current phosphorus export rate from the PCP Area in lbs/year [=A-(B+C)+D from above]: 158.22

- 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
 - Implemented all nonstructural control measures **during this reporting period** and documented the measures and their phosphorus reduction. The nonstructural control measure information:
 - is attached to the email submission
 - can be found at the following publicly available website:

<https://www.arlingtonma.gov/departments/public-works/engineering/stormwater-information> The updated PCP will be posted to the Town's website this fall.

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. The structural control measure information:

- is not applicable; no structural control measures were implemented
- is attached to the email submission
- can be found at the following publicly available website:

<https://www.arlingtonma.gov/departments/public-works/engineering/stormwater-information> - The updated PCP will be posted to the Town's website this fall.

The Phase 1 PCP: (*select one of the following options. If you submitted your PCP last year and have an updated website, please include the website below*)

- was submitted in the Year 5 Annual Report
- is attached to the email submission
- can be found at the following publicly available website:

<https://www.arlingtonma.gov/departments/public-works/engineering/stormwater-information> - The updated PCP will be posted to the Town's website this fall.

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 updated. During Permit Year 6, additional mapping updates and verification were completed to identify the extent of drainage currently discharging to the Charles River so the PCP could be updated accordingly. The updated PCP will be posted to the Town's website this fall.

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:

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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 everyone 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:

Measurable Goal(s):

The links to these videos were broken during Permit Year 6. The Town had difficulty restoring these links so this portion of the webpage has been archived and is not currently visible to the public.

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: 1-3: Educational Information on the Town's Website - Stormwater Proof your Dumpsters

Message Description and Distribution Method:

The Town posted educational material to educate businesses on proper techniques to minimize stormwater pollution from dumpsters.

<https://www.arlingtonma.gov/home/showpublisheddocument/63640/638095508686400000>

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: 1-4: 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 receiving waters.

<https://www.mass.gov/guides/give-your-lake-the-blues-protecting-your-lake-from-nonpoint-source-pollution>

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-5: 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.

<https://www.mass.gov/info-details/nonpoint-source-pollution>

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-6: 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 on the EPA's Soak up the Rain program. This link provides information on various LID practices, their benefits and available tools.

<https://www.epa.gov/soakuptherain>

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: 1-7: 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.

<https://water.unl.edu/article/stormwater-management/rain-gardens>

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: 1-8: 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.

<https://www.epa.gov/mysticriver>

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-9: 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 at residential construction sites. 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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-10: 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:

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: 1-11: 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:

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: 1-12: 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.

<https://www.arlingtonma.gov/Home/Components/News/News/9558/16?selcat=215&cftype=News&npage=23&arch=1>

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): 6/27/2019 - Present

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-13: Stormwater: An Introduction**Message Description and Distribution Method:**

The Town has maintained a PowerPoint presentation on their website educating residents on stormwater topics in Arlington.

<https://www.arlingtonma.gov/home/showpublisheddocument/19613/635374761592500000>

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-14: Arlington Stormwater: How is it Polluted?

Message Description and Distribution Method:

The Town has maintained a PowerPoint presentation on their website educating residents on stormwater pollution sources within the various water bodies in Arlington.

<https://www.arlingtonma.gov/home/showpublisheddocument/19615/635374775312000000>

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-15: Rain Barrels & Rainwater Harvesting

Message Description and Distribution Method:

The Town has maintained a PowerPoint presentation on their website educating residents on rainwater capture systems and the benefits to the ecosystem.

<https://www.arlingtonma.gov/home/showpublisheddocument/19617/635374775317930000>

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: 1-16: Stormwater Runoff During Construction

Message Description and Distribution Method:

The Town maintained a flyer, providing tips to developers for reducing pollution caused by construction activities.

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 6

Message Completed for: Appendix F Requirements Appendix H Requirements Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public ParticipationDescribe 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 6, and available for public review and comment. In addition, the Town's Year 1, 2, 3, 4 & 5 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:**

Arlington 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 reseeded 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 hazardous waste collection 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 Permit Year 6, 234 catch basins have been adopted by 161 residents. The program website can be found here: <https://www.arlingtonma.gov/departments/public-works/engineering/adopt-a-drain-program>

Spy Pond Trails Day, held on May 11, 2024, brought together over 60 people to help clean and enhance Spy Pond. Volunteers planted brush along high erosion areas surrounding the pond to control erosion, beat back invasive plants, collected over 2 dozen bags of trash, and pruned vistas and access stairs. Collaboration between MassDOT, the Arlington Land Trust, the Appalachian Mountain Club, and the Town of Arlington made this a successful event.

On April 20, 2024, the Arlington Reservoir Committee, in conjunction with their EcoFest, held an Arlington Reservoir cleanup day. The cleanup day targeted the removal of garlic mustard, an invasive species of plant that can take over wooded areas. Volunteers affiliated with the Town of Arlington's invasive-weed removal group, ArMI, attended the event to help educate the public about this plant. The event spanned from 10AM to 12PM.

The Town commissioned local artists to create sidewalk murals with the goal of educating Arlington residents about how they can protect local waterways by keeping storm drains clean. The murals were funded from Arlington Commission for Arts and Culture. Currently, there are two murals completed. The locations and artists can be seen below:

1. Jill Strait, Brooks Avenue and Lake Street, near Hardy School (Spy Pond);
2. Raksha Soni, Norcross and North Union streets, near Thompson School (Mystic River).

There are two murals currently in progress, with the locations and artists listed below.

1. Jacob Ginga, Mass Ave. and Mystic Street, near the Dallin Museum (Mill Brook);
2. Robin Jones, Columbia and Stowecroft roads, near Bishop School (Lower Mystic Lake).

More information can be found online here: <https://yourarlington.com/arlington-archives/residents/ideas-fun/56-arts/22238-acac-053124.html>

The Arlington Conservation Commission held eight 1-hour long meetings which included members of the Finance committee. These meetings focus on assessing the needs of all water bodies in Arlington and coordinates their management. The goal of the water bodies working group is to remove invasive aquatic plants and improve the overall water quality of Arlington's water bodies.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

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

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

Number of SSOs identified:

Number of SSOs removed:

MS4 System Mapping

Percent of Phase II map complete:

Optional: Provide additional status information regarding your map:

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 6 as a result of ongoing field investigations. MS4 mapping is updated as any unmapped or incorrectly mapped stormwater infrastructure is encountered in the field. MS4 mapping is also updated as a result of new development and redevelopment 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 4. The Town did not screen any outfalls during wet weather in Permit Year 5. During Permit Year 6, the Town performed wet weather sampling at 56 outfalls and interconnections.

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:

Arlington has 150 catchment areas. A total of 125 catchments (23 in PY4, 85 in PY5, 17 in PY6) have been investigated, or 83% of total catchments. 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. This currently equates to 37% of all catchments. 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.

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 May 31, 2024 with 8 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:

During Permit Year 6, the Town conducted 35 site plan reviews which included 5 issued Orders of Conditions, 13 RDAs reviewed by the Conservation Commission and 17 conducted by the Engineering Department. Of the 34 inspections, 2 site visits were related to issuing the Order of Conditions for projects under construction, 4 site visits were associated with RDAs, 10 were conducted in association with final issuance of Certificate of Compliance, 17 were stormwater system inspections and 1 was a sediment/runoff inspection. Three enforcement actions taken were on 2 separate properties by the Conservation Commission. The first property located at 66 Dudley Street had 2 enforcement actions taken for filling in their flood plain. The second located at 451 Mystic Street had one enforcement action taken against them for filling in the bank along the Upper Mystic Lake. The final enforcement action was taken by the Engineering Department.

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:

During Permit Year 6, 10 as-builts were received by the Town. These 10 as-builts received were related to the issuing of Certificates of Compliance.

Street Design and Parking Lots Report

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

During Permit Year 4, the Town developed their Street Design and Parking Lot Report, which assessed current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover. Regulatory mechanisms were reviewed to determine if changes to existing design standards could be made to support low impact design options, and where appropriate, proposed recommendations to incorporate policies and standards to minimize impervious cover in parking areas and street designs. The Town will be revisiting these recommendations during Permit Year 7 in an effort to make updates to local regulations, where feasible.

Green Infrastructure Report

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

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

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

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

Retrofit Properties Inventory

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

Site #1: Cooke's Hollow
 Site #2: Meadowbrook Park
 Site #3: North Union Playground
 Site #4: Bishop School Field
 Site #5: Spring Valley Street
 Site #6: Herbert Street at Magnolia Street Playground & Field
 Site #7: Lewis Avenue, Phillips Street & Franklin Street Intersection
 Site #8: 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 and the type of BMP(s) implemented. Non-MS4 owned properties that have been modified or retrofitted with BMPs to mitigate impervious area may also be listed, but must be indicated as non-MS4.

Site #1: Department of Public Works Facility (51 Grove Street)
 Site #2: Arlington High School (869 Massachusetts Avenue)

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:

[Empty text box]

Street Sweeping

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

- Number of miles cleaned:
- Volume of material removed: [Select Units]
- Weight of material removed: [Select Units]

Stormwater Pollution Prevention Plan (SWPPP)

Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.

Number of site inspections completed:

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

During Permit Year 6, the DPW Facility was under construction. The site is currently still under construction; however, 1 site inspection was completed as part of efforts to develop a SWPPP for the facility. During Permit Year 7, quarterly inspections of the site will be conducted.

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):

[Empty text box]

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:

[Empty text box]

Additional Information

Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above.

Year 7

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 7 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

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

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 7 below:

Part V: Certification of Small MS4 Annual Report 2024

40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:

William C. Copithorne, PE

Title: Town Engineer

Signature:



Date: 9/30/2024

[Signatory may be a duly authorized representative]