Year 3 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2020-June 30, 2021

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

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, 2020 and June 30, 2021 unless otherwise requested.

Part I: Contact Information

Name o	of Municipality or Organiz	zation: Town of Arling	gton				
EPA N	PDES Permit Number: M	AR041027					
Primaı	ry MS4 Program Manag	er Contact Informat	ion				
Name:	me: Wayne A. Chouinard, P.E. Title: Town Engineer						
Street A	Address Line 1: 51 Grove	Street					
Street A	Address Line 2: NA						
City:	Arlington State: MA Zip Code: 02476						
Email:	wchouinard@town.arling	ton.ma.us	Phor	ne Number: (78	81) 316-332	.1	
Storm	water Management Prog	ram (SWMP) Inform	nation				
SWMF	Location (web address):	https://www.arlingtor	ıma.gov	/home/showdo	ocument?id=	-47189	
Date S	Date SWMP was Last Updated: 6/23/2021						
If the S	SWMP is not available on	the web please provid	e the ph	ysical 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(<u>(s)</u>			
	⋈ Bacteria/Pathogens		Nitrogen	
	⊠ Solids/ Oil/ Grease (H	ydrocarbons)/ Meta	ls	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🗆 Bacı	eria and Pathogen	☐ Cape Cod Nitrogen
	⊠ Charles River Watersh	ed Phosphorus	∠ Lake and Pond ✓ Lake and Pond	l Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
1			C	lear Impairments and TMDLs
Year 3 Requir		•		nd Excluded outfalls)
_▼ Update	ted and screened all outfalled outfall/interconnection p			
	er inspections as necessary			
⊳ Post-co	onstruction bylaw, ordinancermit requirements	ce, or other regulato	ry mechanism was up	odated and adopted consistent
Post-co with po	ermit requirements you would like to describe p	progress made on any of the above year and requirement that	ny incomplete require 3 requirements could could not be complete	ments listed above, provide not be completed due to the ed, any actions taken to

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

own of Arlington Page 3
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 website:
Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
☑ Provided training to employees involved in IDDE program within the reporting period
⋈ All curbed roadways were swept at least once within the reporting period
□ Updated system map due in year 2 as necessary
Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures minimize the use of road salt
Implemented SWPPs 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
Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the mpacts 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:
Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicated
Annual Requirements
Public Education and Outreach*
Annual message was distributed encouraging the proper management of pet waste, including noting a 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

* 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:

- Septic Systems are mandated to be replaced when homes are sold. The Board of Health monitors for compliance with Public Health Regulations.
- Efforts will be made in Permit Year #4 to send Septic Specific Maintenance and Outreach Material to properties known to have a septic system.
- See Septic System Addendum

Chloride

Annual Requirements

Public Education and Outreach

Included an annual message in November/ December to private road salt applicators and commercial

 \boxtimes 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

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:

- See Education Outreach Addendum
- All seasonal and water quality related items from the Mystic River Stormwater Education Collaborative were posted on the Department of Public Works On-line News Page.

Nitrogen (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

Public Education and Outreach*

- Distributed an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter
- * Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

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

Potential structural BMPs

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was

⊠ estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP were documented.

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(-)	1110	DIVII	11111(711	паион	10	attacheu	w mc	Cilian	oui	ווטופפווווט

\bigcirc	The BMP information can be found at the following website:

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:

- See Education Outreach Addendum
- All seasonal and water quality related items from the Mystic River Stormwater Education Collaborative were posted on the Department of Public Works On-line News Page.
- See BMP Data Addendum; information related to construction and contaminant removal are included in the GIS BMP Data

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)

Potential structural BMPs

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.

lacktriangle	The BMP	information	is attacl	hed to t	the email	submission
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\bigcirc	The BMF	informatio	on can be to	und at the 10	ollowing webs	site:	

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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:

- All seasonal and water quality related items from the Mystic River Stormwater Education Collaborative were posted on the Department of Public Works On-line News Page.
- See BMP Data Addendum; information related to construction and contaminant removal are included in the GIS BMP Data

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
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
<i>Optional:</i> If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:
Evaluation of Street Sweeping operations is underway including consideration of new equipment and frequency of cleaning to improve contaminant removal levels.
Charles River Watershed Phosphorus TMDL
☐ Completed the funding source assessment
<i>Optional:</i> If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:
Not performed
Lake and Pond Phosphorus TMDL
☐ Completed the funding source assessment
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:
Not performed
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 submitted	made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was?
	○ Yes
	No
If yes, des	scribe below, including any relevant impairments or TMDLs:

Part IV: Minimum Control Measures

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

	MCM1: Public Education
Number of educat	ional messages completed during this reporting period: 9
•	he educational messages completed during this reporting period . For the measurable cribe the method/measures used to assess the overall effectiveness of the educational ame here]
Message Descript	ion and Distribution Method:
Construction; 6/1: Deicing; 12/24/20	es were shared with the Local Cable Station pertaining to pertinent items as follows: 5/2021, Grass Clippings; 5/20/2012, Catch Basins & Sump Pumps; 2/17/2021, Salt & 020, Developers; 12/2/21, Leaf Cleanup; 10/29/2020, Porous Pavement and Leaf Litter; prants; 9/3/2020, Pesticides; 7/31/2020
Targeted Audienc	e: Residents, Developers, Builders etc
Responsible Depa	artment/Parties: Engineering
Measurable Goal((s):
Staff are still tryir Page	ng to quantify effectiveness of information placed on local cable channel and DPW News
Message Date(s):	Construction; 6/15/2021, Grass Clippings; 5/20/2012, Catch Basins & Sump Pumps; 2/17/2021, Salt & Deicing; 12/24/2020, Developers; 12/2/21, Leaf Cleanup; 10/29/2020, Porous Pavement and Leaf Litter; 10/2/2021, Restaurants; 9/3/2020, Pesticides; 7/31/2020
Message Complete	ed for: Appendix F Requirements Appendix H Requirements
Was this message	different than what was proposed in your NOI? Yes ○ No •
If yes, describe w	hy the change was made:

Add an Educational Message

MCM2: Public Participation

Town of Arlington Page 10 Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during this reporting period: - The SWMP has been updated with a draft version by Town staff. However, due to COVID 19 a public participation meeting was not held. As soon as public gatherings are deemed safe, a public participation session will be held to review the updates, receive input and discuss plans. Upon completion of the next SWMP public participation discussion to SWMP will be finalized and an on-line version posted for viewing. Was this opportunity different than what was proposed in your NOI? Yes O No • Describe any other public involvement or participation opportunities conducted **during this reporting period**: No public involvement has been received during COVID-19. 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: 3 Number of SSOs removed: 3 **MS4 System Mapping** Optional: Provide additional status information regarding your map: - See SSO Addendum - The Town's Stormwater Collection System is detailed on the Town GIS map. **Screening of Outfalls/Interconnections** If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring

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 outfall screening data is attached to the email submission

C	The outfall screening data can be found at the following website:
Below, report	on the number of outfalls/interconnections screened during this reporting period. Number of outfalls screened: 140
Optional: Pro	on the percent of outfalls/interconnections screened to date. Percent of outfalls screened: 100 ovide additional information regarding your outfall/interconnection screening: Screening Addendum
investigations	Dease submit all data collected during this reporting period as part of the dry and wet weather. 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
Below, report	on the number of catchment investigations completed during this reporting period. Number of catchment investigations completed this reporting period: 0
	on the percent of catchments investigated to date. Percent of total catchments investigated: 0
Optional: Pro	ovide any additional information for clarity regarding the catchment investigations below:
period, and cu date of discov schedule of re	arges were found, please submit a document describing work conducted over this reporting unulative to date, including location source; description of the discharge; method of discovery; ery; and date of elimination, mitigation, or enforcement OR planned corrective measures and moval. No illicit discharges were found

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Below, report on the number of illicit discharges identifications removed during this reporting period.	tified and ren	noved, along with the volume of sewage
Number of illicit discharges identified	: 0	
Number of illicit discharges removed:	0	
Estimated volume of sewage removed:	: 0	gallons/day
Below, report on the total number of illicit discharges the number of illicit discharges identified and removed		
Total number of illicit discharges ident	tified: 0	
Total number of illicit discharges remo	oved: 0	
Optional: Provide any additional information for clar planned to be removed below:	ity regarding	illicit discharges identified, removed, or
N/A		
No training performed during Permit Year #3		
MCM4: Construction Site Below, report on the construction site plan reviews, in this reporting period.		
Number of site plan reviews completed	d: 20	
Number of inspections completed: 5		
Number of enforcement actions taken:	0	
Optional: Enter any additional information relevant to enforcement actions:	o construction	n site plan reviews, inspections, and
Five (5) cursory inspections were performed by the T to provide an as-built plan and Statement of Complian		

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

As-built Drawings

Below, rep	on the number of as-built drawings received during this reporting period.
	Number of as-built drawings received: 6
Optional:	ter any additional information relevant to the submission of as-built drawings:
Six (6) As	nilt plans were submitted as a requirement of the Town Stormwater Management By-Law

Street Design and Parking Lots Report

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

The Town of Arlington is a dense and urbanized environment. There is no significant amount of new development and no new road construction. There are no policy modifications that could be implemented reducing road width due to demand for parking and/or bicycle infrastructure. However, during evaluation of road projects by the DPW if existing road widths are excessive, consideration can be given to narrowing if practical and cost efficient.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

In Year 3, Arlington installed 33 infiltration trenches. Arlington continues to apply for grants to construct green infrastructure in public parks, ROWs, and other public spaces.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

Inventory of Town properties and facilities was performed in Year 1. A Retrofit Inventory will be completed by the end of permit Year 4.

MCM6: Good Housekeeping

Catch Basin Cleaning

Below,	report on the nur	nber of catch b	asins inspect	ed and cleaned	d, along wi	ith the total v	volume o	f material
remove	ed from the catch	basins <mark>during</mark> i	this reporting	g period.				

Number of catch basins inspected:	1,705			
Number of catch basins cleaned:	,705			
Total volume or mass of material	removed from	all catch basins:	3,300	tons

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

Total number of catch basins: 3,752

If applicable:

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

All Town owned Catch Basins are/will be inspected and cleaned. Inspections will identify the depth of sediment for future planning and Catch Basins with sediment depth exceeding 50% will be identified. A policy to provide additional and more frequent cleaning at these locations is underway for the next CB cleaning program. The Program schedule was delayed in the Spring and is currently underway. Data will be updated once final program is completed (anticipated in Oct. 2021). As of the time of this writing there have been 1705 catch basins inspected and cleaned.

Street Sweeping

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

• Number of miles cleaned:	1,812	
O Volume of material remove	ed:	[Select Units]
○ Weight of material remove	d:	[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:	3
Tullioci	OI SILC	mspections	completed.	5

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

- The 3 facilities that require a SWPPP include DPW (51 Grove St), Public Safety Maintenance Facility (112 Mystic St), and Arlington High School (869 Mass Ave). No actions taken.

- The DPW Facility is currently under rehabilitation including a newly constructed DPW Yard and Facility.

Additional Information

Monitoring or Study Results

Not applicable

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.

\circ	The results from additional reports or studies are attached to the email submission
\circ	The results from additional reports or studies can be found at the following website(s):
	N/A
	ring or studies were conducted on your behalf or if monitoring or studies conducted by other eported to you, a brief description of the type of information gathered or received shall be w:
N/A	

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:

- New BMP installations for 2021 include 33 new infiltration trenches. These BMP's have been added to the GIS mapping system including: location, date of installation, contractor, dimensions, contaminant removal

- See BMP Data Addendum for As-built information

COVID-19 Impacts

Optional: If any of the above year 3 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:

- Outfall Sampling and Investigations are typically performed by Summer Interns. The Town was unable to fill the positions due to COVID-19. To supplement this effort, the Town has contracted with Weston & Sampson Engineers to begin outfall screening, sampling and investigations.
- All Dry Weather Screening as completed in Permit Year #3
- All Intercommunity Connections were investigated during Permit Year #3

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 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ⊠

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

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)

Provide any additional details on activities planned for permit year 4 below:

- The Engineering Division and Environmental Planner have meetings scheduled weekly to address and formulate plans to meet the requirements of the Permit. These brain storming sessions allow the Town to consider options, alternatives and adjust plans through a wide lens and overview.

- Currently the Environmental Planner position is vacant.

Part V: Certification of Small MS4 Annual Report 2021

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:	Mike Rademacher	Title:	DPW Director
	[Signatory may be a duly authorized representative]	Date:	09/28/21