# **Year 2 Annual Report**

## Massachusetts Small MS4 General Permit Reporting Period: July 1, 2019-June 30, 2020

\*\*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, 2019 and June 30, 2020 unless otherwise requested.

## **Part I: Contact Information**

Name o	of Municipality or Organi	zation: Au	ıburn					
EPA N	PDES Permit Number: M	IAR01088	}					
Primaı	ry MS4 Program Manag	er Conta	ct Informat	ion				
Name:	Name: William A. Coyle, P.E.			Title:	DPW Director/T	Гown Engineer		
Street A	Street Address Line 1: 5 Millbury Street							
Street A	Address Line 2:							
City:	Auburn		State: MA	Zip Co	ode: 01501			
Email:	Email: wcoyle@town.auburn.ma.us		Phon	Phone Number: (508) 832-7814				
Stormwater Management Program (SWMP) Information  SWMP Location (web address): https://www.auburnguide.com/668/Stormwater-Management								
Date SWMP was Last Updated: June 2020								
If the S	SWMP is not available on	the web p	olease provid	le 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: <a href="https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state">https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state</a>

		*						
Impairment(	( <u>s)</u>							
	⊠ Bacteria/Pathogens	⊠ Chloride	☐ Nitrogen					
	Solids/ Oil/ Grease (Hy	ydrocarbons)/ Metal	S					
TMDL(s)								
In State:	☐ Assabet River Phospho☐ Charles River Watersh		eria and Pathogen	☐ Cape Cod Nitrogen Phosphorus				
Out of State:	☐ Bacteria/Pathogens	☐ Metals	⊠ Nitrogen	☐ Phosphorus				
			Cl	ear Impairments and TMDLs				
you have com	ff all requirements below th <b>ppleted that permit requiren</b> dditional information will b	<b>nent fully.</b> If you ha	ve not completed a re	ch box you are certifying that equirement leave the box				
Year 2 Requir	rements							
	leted Phase I of system map	ping						
	oped a written catchment in		-					
⊠ Develo operati	Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP							
Enclos								
	Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP							
$\boxtimes$ Development D	Developed an inventory of all permittee owned facilities in the categories of parks and open space							
⊠ Compl	leted a written program for	MS4 infrastructure r	maintenance to reduce	e the discharge of pollutants				
⊠ operate	oped written SWPPPs, included facilities: maintenance gases where pollutants are expense.	arages, public works		g permittee owned or ons, and other waste handling				
any additional impacts of Co	you would like to describe pal information, and/or if any OVID-19, please identify the mplete the requirement, and	of the above year 2 e requirement that c	requirements could reould not be complete	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
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
<ul> <li>This is not applicable because we did not find any new SSOs</li> </ul>
<ul> <li>The updated SSO inventory is attached to the email submission</li> </ul>
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
□ Updated outfall and interconnection inventory and priority ranking as needed
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 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:
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

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

Provided information to owners of septic systems about proper maintenance in any catchment that

renewal of dog license, or other appropriate time

discharges to a water body impaired for bacteria

*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:

It was previously believed there were no septic owners within bacteria impairement areas. However, updated mapping has become available and shows a small number of septic owners within this area. A message will be

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sent starting in Year 3 to these owners.	
Chloride	
Annual Requirements  Public Education and Outreach  Included an annual message in November/ December to private  □ industrial site owners on the proper storage and application rate the steps that can be taken to minimize salt use and protect local	es of winter deicing material, along with
Optional: If you would like to describe progress made on any incomp any additional details, please use the box below:	elete requirements listed above or provide
In 2019 the Town was awarded a MVP Action Grant to develop a repprotect drinking water supply areas. A draft report was completed on recommended public outreach actions to address pollutants of concern finalization of the report, the Town will be moving forward with the redeveloping a social media education messages that will focus on residuenced populations.	May 20, 2020 and included a list of n, including chloride. Following recommended actions, including
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 engrass clippings and encourages the proper use of slow-release for waste, including noting any existing ordinances where appropriate Distributed an annual message in the fall (August/September/Coof leaf litter  * Public education messages can be combined with other public engree (see Appendix H and F for more information)  Good Housekeeping and Pollution Prevention for Permittee Owned Increased street sweeping frequency of all municipal owned street part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and pollution prevention)	fertilizers uraging the proper management of pet iate October) encouraging the proper disposal ducation requirements as applicable ed Operations reets and parking lots subject to Permit
Potential structural BMPs  Any structural BMPs listed in Table 3 of Attachment 1 to Appet the regulated area by the permittee or its agents was tracked and  □ estimated consistent with Attachment 1 to Appendix H. The BN the design storage volume of the BMP and the estimated nitrog BMP were documented.	d the nitrogen removal by the BMP was MP type, total area treated by the BMP,
<ul> <li>The BMP information is attached to the email subm</li> <li>The BMP information can be found at the following</li> </ul>	

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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:

Nitrogen removal calculations were not completed by June 30, 2020 but have since been finished. The calculations have been attached to the email submissin.

Ph

Annual	Rec	<u>uirements</u>

<b>Phosphorus</b> (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.
<ul> <li>The BMP information is attached to the email submission</li> </ul>
O 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:
Phosporus removal calculations were not completed by June 30, 2020 but have since been finished. The calculations have been attached to the email submissin.
Lake and Pond Phosphorus TMDL   Completed Legal Analysis
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:

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?					

YesNo

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

Impairments and TMDLs have been updated to reflect the Final 2016 Integrated List of Waters.

As part of a review of the stormwater mapping, 50 of the 313 outfalls listed in the NOI were removed. Although located in Auburn, these removed outfalls are owned by MassDOT and private landowners. However, as part of the same review, 48 outfalls and interconnections not previously identified in the NOI were added to the list. These outfalls and interconnections were identified through a combination of record drawings and field inspections. The total number of outfalls and interconnections has therefore changed from 313 to 311.

## **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: 4						
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: Think Blue Massachusetts						
Message Description and Distribution Method:						
Contribute to Think Blue campaign through membership in CMRSWC. Distribute and track educational messages developed by campaign within MS4 area.						
Targeted Audience: Residents						
Responsible Department/Parties: Engineering						
Measurable Goal(s):						
The FY 2020 campaign resulted in 21,958 facebook/instagram & 21,689 youtube ad impressions for Auburn residents. The campaign overall resulted in over 1.45 million impressions on residents across Massachusetts.						
Message Date(s): May 16 - June 5 2020						
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: Spring Lawn and Garden Care						
Message Description and Distribution Method:						
An educational message entitled "Lawn and Garden Tips to Help Curb Stormwater Pollution" was included in the April 2020 Auburn Account. The infographic includes information on fertilizer use, methods of leaf/grass disposal.						
Targeted Audience: Residents						
Responsible Department/Parties: Engineering						
Measurable Goal(s):						
The Auburn Account is posted on the Town's website at AuburnGuide.com and hard copies are available at Town Hall. Typically the Account is also posted on Social Media but this issue was not due to the concurrent						

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COVID-19 outbreak.
Message Date(s): April 2020
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:Pet Waste
Message Description and Distribution Method:
A message reminding dog owners to "Scoop the Poop" was posted on the Town's social media. The message was re-posted from Think Blue Massachusetts.
Targeted Audience: Residents
Responsible Department/Parties: Engineering
Measurable Goal(s):
The post received 1.1k reaches, 40 clicks, and 7 reactions/comments/shares.
Message Date(s): June 2, 2020
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:Leaf and Yard Debris
Message Description and Distribution Method:
A message on proper disposal of leaves and yard debris "Be a Leaf Hero" was posted on the Town's social media. The message was re-posted from Think Blue Massachusetts.
Targeted Audience: Residents
Responsible Department/Parties: Engineering
Measurable Goal(s):
The post received 1.4k reaches, 32 clicks, and 6 reactions/comments/shares.

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Message Date(s): October 30, 2019
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ⊠
Was this message different than what was proposed in your NOI? Yes O No •
If yes, describe why the change was made:
Add an Educational Message
MCM2: Public Participation
Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during this reporting period:
The Department of Public Works created a stormwater page on the Town's website in order to share progress on stormwater goals, make MS4 documents available, and solict input from the public. https://www.auburnguide.com/668/Stormwater-Management
Was this opportunity different than what was proposed in your NOI? Yes O No •
Describe any other public involvement or participation opportunities conducted <b>during this reporting period</b> :
Representatives from the Engineering Division, Planning Division, and Auburn Water District filmed a video segment on the Auburn Community Television station. The video covered a MVP-funded project that focuses on identifying and proposing potential BMPs for select pollutants of concern in both stormwater and drinking water sources. General stormwater education and a reference to the Town's new stormwater website were included. Unfortunately, the COVID-19 pandemic has limited the potential opportunities for public participation.
MCM3: Illicit Discharge Detection and Elimination (IDDE)
Sanitary Sewer Overflows (SSOs)  Check off the box below if the statement is true
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: 0

Page 12 Auburn Optional: Provide any additional information for clarity regarding the catchment investigations below: No outfalls or interconnections have been ranked as "Problem Outfalls" as of June 30, 2020. **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. O The illicit discharge removal report is attached to the email submission O The illicit discharge removal report can be found at the following 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: 0 Number of illicit discharges removed: 0 gallons/day Estimated volume of sewage removed: 0 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: 0 Total number of illicit discharges removed: 0 Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

#### **Employee Training**

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

The Central Massachusetts Regional Stormwater Coalition (CMRSWC), with the assistance of Fuss & O'Neill, held a virtual workshop on May 7, 2020 to train participants on identifying illicit discharges and general procedures for IDDE inspections. Town staff responsible for overseeing the IDDE program and implementing field work attended.

A presentation on identifying and reporting illicit discharges has been developed by the Town and will be used to train relevant staff. Due to the coronavirus pandemic, an in-person training session was not possible, so the presentation was distributed as a hard copy to highway division staff on March 30, 2020.

#### 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: 19

Number of inspections completed: 10

Number of enforcement actions taken: 0

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**

Below, select the option that describes your ordinance or regulatory mechanism progress.

- O Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- Bylaw, ordinance, or regulations have not been updated or adopted

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

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

A SOP for submitting as-builts and maintaing BMPs has been developed. In the upcoming year the Department of Public Works, Planning Division, and Inspectional Services will work together to educate developers and ensure compliance.

#### **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:

While developing a streetscaping project within Town, appropriate design criteria for roadways and sidewalks including widths and methods of decreasing impervious area were discussed. This information will be incorporated into the assessment.

#### **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:

While working on a MVP-funded project, consideration was given to the types and potential location of stormwater BMPs appropriate for Auburn. This information will be incorporated into the assessment.

#### **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:

As part of the development of the SWPPP at the Department of Public Works facility, consideration was given to implementing stormwater BMPs that would provide additional stormwater treatment for pollutants of concern within recieving waters. This information will be incorporated into the inventory.

## 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.

Total volume or mass of material	removed from all catch basins:	30	cubic yards
Number of catch basins cleaned:	30		
Number of catch basins inspected	1: 30		

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

Total number of catch basins:	1,905
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*If applicable:* 

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

_	mispections/cleaning events.
L	

g, , g ·		
Street Sweeping		
Report on street sweeping completed durin	g this repo	rting period using one of the three metrics below.
• Number of miles cleaned:	190	
O Volume of material remove	ed:	[Select Units]
<ul> <li>Weight of material remove</li> </ul>	d:	[Select Units]
O&M Procedures and Inventory of Pern	nittee-Own	ed Properties
Below, check all that apply.	intece O Wil	<u>ed 110pertres</u>
The following permittee-owned properties	have been i	nventoried:
□ Parks and open spaces		
⊠ Buildings and facilities		
<ul> <li>☑ Parks and open spaces</li> <li>☑ Buildings and facilities</li> <li>☑ Vehicles and equipment</li> </ul> Stormwater Pollution Prevention Plan (Section Plan (Se	SWPPP)	
- v -	tions for fac	ilities that require a SWPPP completed during this
Number of site inspections	completed:	0
Describe any corrective actions taken at a	facility with	a SWPPP:
Potential improvements for improved seding the SWPPP and will be implemented during		osion control were identified during the development oning paving project.
Potential improvements for improved seding	ment and er	osion control were identified during the developmen

#### **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.

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- O The results from additional reports or studies are attached to the email submission
- O The results from additional reports or studies can be found at the following website(s):

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If such monitoring or studies were conducted on your be entities were reported to you, a brief description of the t described below:	
Additional Information	
Optional: Enter any additional information relevant to y during the reporting period. Include any BMP modifical	
COVID-19 Impacts	
Optional: If any of the above year 2 requirements could please identify the requirement that could not be completely requirement, and reason the requirement could not be constant.	eted, any actions taken to attempt to complete the
Activities Planned for Next Reporting Period Please confirm that your SWMP has been, or will be, up	dated to comply with all applicable permit
requirements including but not limited to the year 3 requ	

and TMDL requirements are not listed below)

Yes, I agree ⊠

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

#### **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 uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- 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

Provide any additional details on activities planned for permit year 3 below:

The Town has developed draft stormwater regulations for implementation under an existing stormwater bylaw. These regulations will be finalized and implemented within Year 3.

The Town recently won a MVP Action Grant for the Leesville Pond Water Quality Protection and Community-Wide Resiliency Improvements. This project will focus on nutrient removal within Leesville Pond and spreading community knowledge of stormwater pollution.

## Part V: Certification of Small MS4 Annual Report 2020

#### 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 Coyle	Title:	DPW Director/Town Engineer
Signature:	Signatory may be a duly authorized	Date:	
	representative]		

*Note: When prompted during signing, save the document under a new file name.* 

### **Annual Report Submission**

Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.

EPA: stormwater.reports@epa.gov MassDEP: laura.schifman@mass.gov

#### **Paper Signature:**

If you did not sign electronically above, you can print the signature page by clicking the button below.

Print Signature Page

Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.

Lock Form