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 Organizati	on: Town Of Shirl	rley		
EPA N	PDES Permit Number: MAR	.041221			
Primaı	ry MS4 Program Manager (Contact Informat	tion		
Name:	Brandon Kelly		Title: Public Works Director		
Street A	Address Line 1: 7 Keady Way	y			
Street A	Address Line 2:				
City:	City: Shirley State: MA Zip Code: 01464				
Email: bkelly@shirley-ma.gov			Phone Number: (978) 425-2628		
	water Management Progran	m (SWMP) Inform	mation		
SWMF	Location (web address):				
Date SWMP was Last Updated: 9/18/2020					
If the S	SWMP is not available on the	web please provid	ide the physical address:		
158 Gr	reat Road Shirley MA 01464				

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(
	☐ Bacteria/Pathogens	☐ Chloride	☐ Nitrogen	
	Solids/ Oil/ Grease (H	Hydrocarbons)/ Metal	S	
TMDL(s)				
In State:	☐ Assabet River Phosph	norus 🗌 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Waters	hed Phosphorus	Lake and Por	nd Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
				Clear Impairments and TMDLs
unchecked. Ad Year 2 Requin ☐ Compl	dditional information will rements eted Phase I of system ma	be requested in later pping nvestigation procedur	sections.	ocedure to the SWMP
operati	on and maintenance of co	mpleted construction	sites and added the	ese procedures to the SWMP
Develor facilities Develor buildin Compl Develor operate	oped written operations and es, and vehicles and equip oped an inventory of all pe- igs and facilities, and vehi- eted a written program for oped written SWPPPs, incl	d maintenance proced ment and added these rmittee owned facilit cles and equipment at MS4 infrastructure to luded in the SWMP, to garages, public works	dures for parks and a procedures to the ies in the categories and added this inventional added the follow for all of the follow	s of parks and open space, ntory to the SWMP uce 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 year 2 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:

The Town has a very good SWMP. The Attorney General has just reviewed and sent back to the Town the approved IDDE Bylaw which will allow the Town to put all of the necessary items into one final document and post it on the Town of Shirley Website. Until this Attorney General review the SWMP was still in draft

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form.	
Annual Requirements	
Provided an opportunity for public participation in review and implementation of with State Public Notice requirements	SWMP and complied
⊠ Kept records relating to the permit available for 5 years and made available to the	
The SSO inventory has been updated, including the status of mitigation and correct implemented	etive measures
 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 receiving waters	did not discharge to
☑ Provided training to employees involved in IDDE program within the reporting per Output Description: Des	eriod
⊠ All curbed roadways were swept at least once 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 like any additional information, and/or if any of the above annual requirements could not be compacts of COVID-19, please identify the requirement that could not be completed, any attempt to complete the requirement, and reason the requirement could not be completed.	completed due to the actions taken to
Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements and	as Applicable)
Annual Requirements	
Public Education and Outreach* Distributed an annual message in the spring (April/May) encouraging the proper use of slow-release and phosphorus-free Distributed an annual message in the summer (June/July) encouraging the proper use, including noting any existing ordinances where appropriate	ee fertilizers
Distributed an annual message in the fall (August/September/October) encouragin of leaf litter	g the proper disposal
* Public education messages can be combined with other public education requireme Appendix H and F for more information)	ents as applicable (see
Good Housekeeping and Pollution Prevention for Permittee Owned Operations	
Increased street sweeping frequency of all municipal owned streets and parking lo part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)	ts subject to Permit

	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.
	 The BMP information is attached to the email submission
	○ The BMP information can be found at the following website:
-	ptional: If you would like to describe progress made on any incomplete requirements listed above or provide by additional details, please use the box below:
	he Town has created all of the BMP SOP's and will be getting the proper autority signatures to place them in the SWMP.
	olids, Oil and Grease (Hydrocarbons), or Metals
	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
-	ptional: If you would like to describe progress made on any incomplete requirements listed above or provide by additional details, please use the box below:
	ptional: Use the box below to provide any additional information you would like to share as part of your

Part III: Receiving Waters/Impaired Waters/TMDL

наve you submitted	made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was
	○ Yes
	No
If yes, de	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 educational messages completed during this reporting period: 0
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:[Message name here]
Message Description and Distribution Method:
Targeted Audience:
Responsible Department/Parties:
Measurable Goal(s):
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:
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 public has been allowed to comment during our Planning Board meetings and our Stormwater Committee meetings that have been posted through the Open Meeting Law protocol. Also presentation have been done to the Board Of Selectmen which are open to public discussion.

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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 per	iod:
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 perio	d.
Number of SSOs identified: 0	
Number of SSOs removed: 0	
MS4 System Mapping	
Below, check all that apply.	
The following elements of the Phase I map have been completed:	
✓ Outfalls and receiving waters✓ Open channel conveyances	
☐ Interconnections	
☐ Waterbodies identified by name and indication of all use impairments	
☐ Initial catchment delineations	
Optional: Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:	
The Town of Shirley has purchased a work order system with an arc gis system that we can map and put or	1
our Town database that will show all structures, connections and outfalls.	
Screening of Outfalls/Interconnections He conducted in large submit any outfall manifesting regults from this concerting paried. Outfall manifesting	

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.

O The outfall screening data is attached to the email submission

\circ	The outfall screening data can be found at the following website:
Below, report o	on the number of outfalls/interconnections screened during this reporting period.
	Number of outfalls screened: 0
investigations. 2	vestigations lease 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. The catchment investigation data is attached to the email submission The catchment investigation data can be found at the following website:
Ralow vanovt o	on the number of catchment investigations completed during this reporting period.
•	Number of catchment investigations completed this reporting period: 80
Below, report o	on the percent of catchments investigated to date.
	Percent of total catchments investigated: 75
Optional: Prov	ride any additional information for clarity regarding the catchment investigations below:
IDDE Progress	<u>8</u>
period, and cun	ges were found, please submit a document describing work conducted over this reporting nulative to date, including location source; description of the discharge; method of discovery; ry; and date of elimination, mitigation, or enforcement OR planned corrective measures and noval.
	The illicit discharge removal report is attached to the email submission
0	The illicit discharge removal report can be found at the following website:
-	on the number of illicit discharges identified and removed, along with the volume of sewage g this reporting period.
	Number of illicit discharges identified: 0
	Number of illicit discharges removed: 0
	Estimated volume of sewage removed: 0 gallons/day

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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 discharg	es identified: 1				
Total number of illicit discharg	es removed: 1				
Optional: Provide any additional information planned to be removed below:	for clarity regardin	ng illicit	discharges	identified, removed	l, or
The Town has a newer sso system with minim have a lot of ability for illicit discharges.	al development sir	nce sew	er was insta	lled therefore we do	o not
Employee Training					
Describe the frequency and type of employee	training conducted	during	the report	ing period:	
The employees have been trained on illicit det something say something" The employees have which will allow all catch basins and outfalls to	e also been trained	d on the	new compu	terized work order	system
MCM4: Construction Below, report on the construction site plan revibility reporting period. Number of site plan reviews co	iews, inspections, a				ring
Number of inspections complet	ed: 3				
Number of enforcement actions	s taken: 0				
Optional: Enter any additional information relenforcement actions:	evant to constructi	ion site j	plan reviews	s, inspections, and	

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

Ordinance or Regulatory Mechanism

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

•	Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
\circ	Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
0	Bylaw, ordinance, or regulations have not been updated or adopted
As-built Drav	<u>vings</u>
	neasures the MS4 has utilized to require the submission of as-built drawings and ensure long and maintenance of completed construction sites:
all permits are	not signed off until as built drawings are submitted and field checked for completion.
Street Design	and Parking Lots Report
	tatus of the street design and parking lots assessment due in year 4 of the permit term, including r completed changes to local regulations and guidelines:
This is in a for	rm of a study and currently no regulations or guidelines have been changed.
Describe the s	ructure Report tatus of the green infrastructure report due in year 4 of the permit term, including the findings owards making the practice allowable:
Retrofit Prop	erties Inventory
	tatus of the inventory, due in year 4 of the permit term, of permittee-owned properties that could retrofitted with BMPs to mitigate impervious areas and report on any properties that have been strofitted:
Inventory is b	eing compiled

MCM6: Good Housekeeping

Catch Basin Cleaning

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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 inspec	eted: 80		
Number of catch basins cleaned	ed: 80		
Total volume or mass of mater	rial removed from	n all catch basins: 30	cubic yards
Below, report on the total number of catch ba	sins in the MS4 s	ystem.	
Total number of catch basins:	0		
If applicable:			
Report on the actions taken if a catch basin su inspections/cleaning events:	amp is more than	50% full during two consecu	utive routine
We only had one basin that this occurred at, we from the basin and we had them redo the drive			
Street Sweeping			
Report on street sweeping completed during t	this reporting per	r iod using one of the three m	etrics below.
O Number of miles cleaned:			
• Volume of material removed:	60	cubic yards	
O Weight of material removed:		[Select Units]	
O&M Procedures and Inventory of Permit Below, check all that apply. The following permittee-owned properties ha	ve been inventori	led:	
The following O&M procedures for permittee Parks and open spaces	-owned propertie	es have been completed:	
□ Buildings and facilities			
Stormwater Pollution Prevention Plan (SW Below, report on the number of site inspection reporting period. Number of site inspections con	ns for facilities th	at require a SWPPP complet	ted during this
rumoer of site inspections con	inpreteu.		

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Describe any corrective actions taken at a facility with a SWPPP:
Describe any corrective actions taken at a facility with a 5 W111.
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 website(s):
If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:
Additional Information
<i>Optional:</i> 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:
COVER 40 V
COVID-19 Impacts

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Optional: If any of the above year 2 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:

The Town struggled to sample outfalls because of Covid. being that we are a heavily wooded area and not easily reachable outfalls, samples require a minimum of 2 employees to safely travel to the outfalls. with social distancing the Town could not assign the staff to perform these tasks. Also the labs were shut down for test results.

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Activities Planned for Next Reporting Period	
Please confirm that your SWMP has been, or will be, updated to comply requirements including but not limited to the year 3 requirements summand TMDL requirements are not listed below)	
Yes, I agree 🗵	
- Inspect all outfalls/ interconnections (excluding Problem and E dry weather flow	excluded outfalls) for the presence of
- Complete follow-up ranking as dry weather screening becomes	s available
Annual Requirements	
- Annual report submitted and available to the public	
- Annual opportunity for public participation in review and impl	ementation of SWMP
- Keep records relating to the permit available for 5 years and m	
- Properly store and dispose of catch basin cleanings and street s receiving waters	weepings so they do not discharge to
- Annual training to employees involved in IDDE program	
- Update inventory of all known locations where SSOs have disc	charged to the MS4
- Continue public education and outreach program	
- Update outfall and interconnection inventory and priority ranki connection with the dry weather screening and other relevant in	_
- Implement IDDE program	00 1
- Review site plans of construction sites as part of the construction	on stormwater runoff control program
- Conduct site inspection of construction sites as necessary	
Inspect and maintain stormwater treatment structuresLog catch basins cleaned or inspected	
- Log catch basins cleaned of hispected - Sweep all uncurbed streets at least annually	
- Continue investigations of catchments associated with Problem	n Outfalls
- Review inventory of all permittee owned facilities in the category	
and facilities, and vehicles and equipment; update if necessary	ories of parks and open space, banding

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:	Michael McGovern	Title:	Town Administrator
Signature:	[Signatory may be a duly authorized representative]	Date:	

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